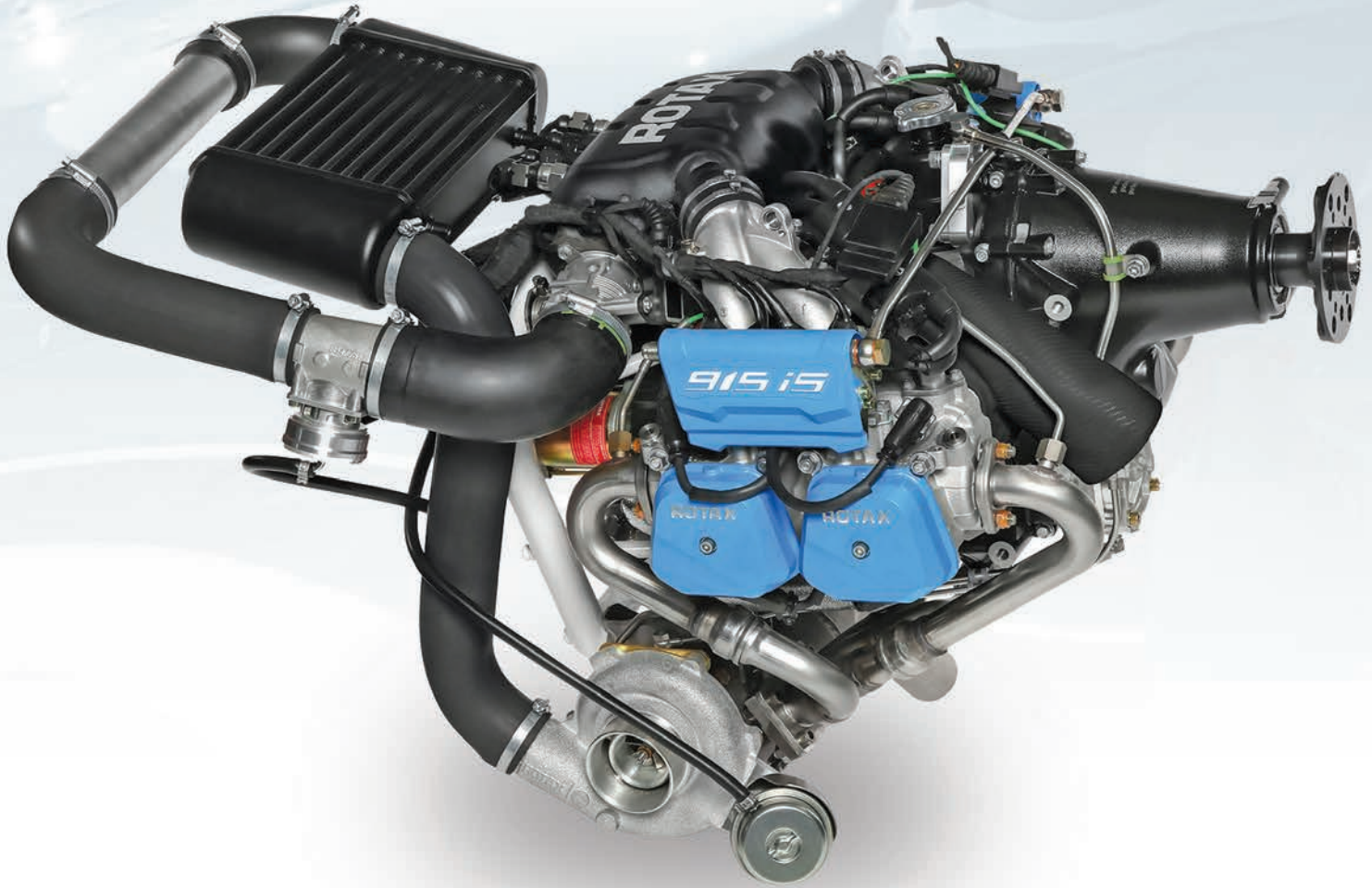




CALIFORNIA POWER SYSTEMS

EXPERTS IN LIGHTSPORT AVIATION



independent SERVICE CENTRE
ROTAX
AIRCRAFT ENGINES



ILLUSTRATED PARTS CATALOG

SALES

TECH SUPPORT

SERVICE

TRAINING





ROTAX 915 iS



ROTAX 912 iS



ROTAX 914 UL



ROTAX 912 ULS

ENGINES & ENGINE PARTS

- Airbox & Accessories
- Bearings
- Bushings
- Clutch Assembly
- Crankcase
- Crankshaft Assembly
- Cylinder Cowls
- Cylinder Resleeving Service
- Cylinders
- Fuel Pumps
- Gasket Sets
- Gear Boxes
- Gear Sets
- Hydraulic Governors
- Oil Cooler Thermostat
- Oil Coolers
- Oil Injection Pumps
- Oil Injection Reservoir
- Piston Parts
- Pistons
- Radiators
- Recoil Parts
- Recoil Starter
- Seals
- Water Pump
- Water Pump Parts
- Exhaust System
- Expansion Tanks

ENGINE ACCESSORIES

- External Alternators
- Hydraulic Governors
- Starter Kits
- Starter Replacement Parts
- Starter Replacements
- Starters
- Vacuum Pumps

FUEL/AIR DELIVERY

- Carb Heat Kits
- Carburetor Kits
- Carburetor Parts
- Carburetor Rebuild Kits
- Carburetors
- Choke & Throttle Controls
- Choke Shaft Assemblies
- Choke Switch
- Choke Valves
- Float Chamber
- Float Needle
- Fuel Fittings
- Fuel Flow Valves
- Fuel Pumps
- Fuel Tank Valves
- Fuel Tanks
- Idler Jet
- Idler Jet Needles
- Intake Silencers
- Main Jets
- Needle Jets

AIRFRAME PARTS & SUPPLIES

- 3M Tapes & Adhesives
- Berry Mounts
- Composite Supplies
- Dacron Fabric
- Dacron Repair Tape
- Engine Mounts
- Full Lotus Floats
- Lighting Coils
- Marker Lights
- Mounting Kits
- Parachutes
- Saddles
- Seat Assembly Parts
- Seats Belts
- Sheetmetal
- Shoulder & Seat
- Harnesses
- Snap Vents
- Strobes
- Strut Clevis
- Tube Connectors
- Tubing

PROPELLERS

- GSC LTD. Propellers
- IVOPROP Propellers
- Powerfin Propellers
- Prop Tape
- Spinners
- Ultra Prop Propellers
- Warp Drive Propellers

WHEELS, TIRES & BRAKES

- Aluminum Wheel Joiners
- Aluminum Wheels
- Axle & Brake Accessories
- Azusa Tubes & Tires
- Azusa Wheels & Brakes
- Wheel Bearings
- Light Weight Aluminum
- Wheels
- Wheel Hubs

MAINTENANCE PARTS & SUPPLIES

- Air Filters
- Clamps
- Fuel Filters
- Hoses
- O-Rings
- Oil Filters
- Spark Plugs
- V-Belts

TOOLS

- Carburetor Balancers
- Complete Line of Rotax Factory Tools
- Compression Testers
- Cylinder Hones
- Dial Gauge Assembly
- Hand Tools
- Precision Measuring Equipment
- Pressure Testers

CHEMICALS

- Aircraft Paint
- Anti-Sieze
- AV-2 Engine Oil (2 Stroke)
- AV-9 Engine Oil (4 Stroke)
- Coolant
- Gear Oil
- Grease
- Loctite
- Poly-Fiber Coatings
- Preservation Oil
- Sealants
- Silicones
- Thermal Compound

AVIONICS

- Airspeed Indicators
- Altimeters
- Attitude & Directional Gyros
- Aviasport Instruments
- CHT
- Compass
- Comtronics Flight Helmets
- Dynon Avionics
- EFIS
- EGT
- Flightcom
- Lynx Avionics
- MGL Avionics
- Pressure Switches
- Receivers
- Softcomm Products
- Tachometers
- Tranceivers
- UMA Instruments
- VDO Gauges
- Voltage Regulator
- Water Temp
- Westach Instruments Headsets/Intercoms

HARDWARE

- Bolts
- Bushings
- Camlocs
- Complete lineup of AN Hardware
- Complete lineup of Metric
- Hardware
- Milbar Safety Wire
- Nuts
- Rivets
- Rubber Bushings
- Springs
- Standoffs

Welcome!



California Power Systems was founded in 1981 by Mike Stratman and has been the western U.S. regional Rotax Service Center for many years, offering Rotax engines, parts, and other ultralight and LightSport products to aviators around the world. We acquired CPS in November 2011 and moved the company from San Leandro, CA to Corona, CA where CPS operates in a 62,000 sq. ft. facility. CPS also maintains a maintenance shop at nearby Chino (CNO) Airport and a Rotax engine training facility. Our family has been in the aircraft parts business for nearly 60 years, and we are pleased to offer this new 2020 edition of the CPS catalog. We look forward to serving you soon!

Jim & Nanci Irwin
California Power Systems

ORDER DESK HOURS (PST)

Mon. - Fri.: 5:00am - 6:00pm, Sat.: 7:00am-3:30pm

TOLL-FREE ORDER LINE / CUSTOMER SERVICE
1-800-247-9653

SHOP ON-LINE

www.cps-parts.com

225 Airport Circle, Corona, CA 92880-2527
Phone: (951) 549-7786 • Fax: (951) 372-0555

CUSTOMER SERVICE HOURS (PACIFIC TIME)

Mon. thru Fri.: 5:00am-4:00pm • Saturday: 7:00am-3:30pm

STORE HOURS

Mon. thru Fri.: 8:00am-6:00pm • Saturday: 7:00am-3:00pm

CAN'T FIND WHAT YOU NEED? LET US HELP!

While we try to offer everything you might need for your aircraft, there are some products that you may not find listed in this catalog. Let us help! Just give our Sales Department a call on our Toll Free number and provide our Sales representative with as much information as possible on the parts you need. They will source the product for you and provide a quotation and lead time for the product as quickly as possible.

NOTICE! Many parts in this catalog are NOT FAA approved. Unless our catalog specifically indicates a part has a PMA (Parts Manufacturers Approval), that part may not be certified or approved for aviation use. The selling of a part should not be construed as a representation that the part is certified or approved for aviation use, nor can California Power Systems include instructions for use or warnings unless provided by the manufacturer or distributor. Any concerns the purchaser may have about the suitability of a part for aviation use, instructions for use or warnings, should be promptly directed to the manufacturer.

WAIVER OF LIABILITY AND INDEMNIFICATION AGREEMENT

In as much as California Power Systems has no opportunity to supervise the manufacture, installation or maintenance of the parts supplied by it, nor any opportunity to participate in the design or manufacture of the various certificated and homebuilt aircraft in which its parts are utilized, the purchaser by placing this order and accepting said merchandise from California Power Systems agrees that all materials purchased will be used solely at purchaser's risk and that purchaser will indemnify and hold California Power Systems, its owners and employees, free and harmless from all loss, liability or damage resulting from claims brought by reasons of any alleged failure or defect of any part or parts supplied by California Power Systems.

ROTAX ENGINES & PARTS – Pg. 5 – 94

Performance Graphs, 915 iS Engine, 912 iS Engine, 914 UL Engine, 912 ULS Engine, 912 UL Engine, 582 UL Engine, 503 UL Engine

ENGINE PARTS (EP) – Pg. 95 – 101

Magnetos, Carburetors, Starters, Generators, Alternators, Spark Plugs, Engines, Engine Mounts, Air & Oil Filters, Maintenance Items, Replacement Parts

AIRFRAME PARTS (AP) – Pg. 102 – 113

Rubber Goods, Fuel Supplies, Bearings, Propellers, Spinners, Cowlings, Windshields, Throttles, Wire/Cables, Fittings, Hose, Sails, Seat Belts/Harnesses

LANDING GEAR (LG) – Pg. 114

Wheels & Brakes, Tires & Tubes, Axles, Master Cylinders

COVERING SUPPLIES (CS) – Pg. 115-118

Poly Fiber, Fabric, Tapes, Dopes, Thinners, Finishes, Cleaners, Reducers, Primers

INSTRUMENTS (IN) – Pg. 119 – 124

Pitot Tubes, Turn Coordinators, ASI, Engine Gauges, EGTs, Altimeters, Compasses, Timers

ELECTRICAL (EL) – Pg. 125 – 127

Batteries, Lights, Strobes & Terminals, Chargers, Power Panels, Ignition Switches

AVIONICS (AV) – Pg. 128 – 131

Radios, GPS, Headsets, Intercoms, Transceivers, Scanners, Helmets, Goggles

PILOT SUPPLIES (PS) – Pg. 132

Tie Downs, Chocks, Wind Socks, Log Books, Wind Meters

BOOKS & VIDEOS (BV) – Pg. 133

Instructional DVDs, Sport Pilot Log Books, Procedure Books

RTX

EP

AP

LG

CS

IN

EL

AV

PS

BV

A complete and detailed index can be found at the back of this book.

NAME: _____

CUSTOMER #: _____



ON THE BACK COVER:

Photo Courtesy of John McBean at Kitfox Aircraft

THE CALIFORNIA POWER SYSTEMS CATALOG FREE ON REQUEST



We want all aviators to have access to the wide range of products and services offered by California Power Systems. Just give us a call on our toll free order line, send us a request for a catalog by fax, mail, or e-mail, and we'll have a complimentary copy of our catalog on the way to you the same day. Our catalog is also available on CD, or for download in pdf format at www.cps-parts.com. If you know of someone who needs a catalog, please let us know.
Print CatalogFREE



VISIT THE CALIFORNIA POWER SYSTEMS STORE

Stop by our store to view and purchase the many items listed in the California Power Systems catalog. The California Power Systems West store is open Monday thru Friday 8:00am to 6:00pm, and Saturday 7:00am to 3:00pm. Call the office ahead of time to place your order and we will have it ready for pick-up upon your arrival.

CALIFORNIA POWER SYSTEMS SERVICE CENTER



California Power Systems has been the exclusive West Coast Service Center (ISC) for Rotax engines since 1984. As part of the CPS commitment to servicing the ultralight and LSA community, we provide on airport Rotax maintenance at Chino (CNO) airport in Southern California. Located just a few minutes from CPS headquarters, this maintenance shop enhances our ability to service our Rotax customers. The CPS maintenance facility is located in Hangar 18 at midfield on the south side of runways 25-7. Qualified A & P mechanics and IA inspectors are available to handle any type of Rotax engine service for your LSA aircraft. Both line and heavy maintenance for Rotax 2 and 4 cycle engines are available. Complimentary shuttle service is provided between the maintenance facility and CPS headquarters. Call California Power Systems at (951) 549-7786 for a Rotax service appointment (required).

CALIFORNIA POWER SYSTEMS ONLINE



California Power Systems Online provides customers with up to the minute account and order status utilizing their own personal computers. The California Power Systems Web Site provides information on many of the products contained in this catalog, real time access to account information, open order status and filled order history available daily. Confirm order on line in real time as they are processed, and view backorder status and product availability. In addition, our partnership with UPS provides you with up to the minute shipping information including package status, scheduling, and delivery exception.

www.cps-parts.com

PRODUCT WARRANTY

In cooperation with the manufacturers we represent, California Power Systems warrants for a period of one year (on most products) from the date of original purchase its products to be free from defects in material and workmanship. California Power Systems obligation under this warranty is limited to repair or replacement of the purchased product only, and under no circumstances shall California Power Systems be liable for any loss, damage, injury, cost of repair or consequential damages of any kind in connection with the sale, use or repair of any product purchased from California Power Systems. Products sold are subject to manufacturer's warranty policy. Defective merchandise or out of box failure of product is repaired or replaced at manufacturer's option. Rotax Parts, avionics, electrical, instruments, or similar products that are defective are subject to manufacturer's warranty only, and will not be replaced immediately from California Power Systems inventory.

OUR BIODEGRADABLE PACKING PEANUTS

The packing "peanuts" that we use to fill product boxes for protection during shipping are 100% biodegradable, clean and hygienic, non-static, odorless, recyclable and non-polluting. They are a starch mixture made from potato or wheat and are water soluble; just dispose of them in the sink with water, hose them away, put in a garbage disposal, or flushed down a drain or toilet. They do not pollute groundwater. This material is the best we have found as an economical way to insure maximum protection of the contents of our shipping boxes.

CLOSING THE TRANSACTION

For our customer's convenience we enclose a copy of the invoice covering the order with each order shipped except those shipped to a third party. **If the order is paid by check and the check did not cover the full amount of the invoice, the amount of underpayment will be sent C.O.D. for the balance due plus C.O.D. fee of \$10.50 rather than delay the order.** If you have overpaid by check, the overpayment will be credited to your account or refunded. C.O.D. shipments are considered "paid" as soon as we receive payment from UPS, and credit card orders are paid automatically at time of shipment. We look forward to your next order!

WHEN YOU RECEIVE YOUR ORDER

Upon receipt, the package should be opened promptly and material checked against the packing slip enclosed. Items out-of-stock at time of shipment will be marked as "back-ordered - to follow." These items will not be charged on the invoice enclosed with the package and will be forwarded as soon as delivery is received from our suppliers. The backordered items will not be charged until shipped. About 90% of the items featured in our catalog are carried in stock. Special items of hardware, bearings, unusual fittings and slow moving items are special ordered as required. However, even with the large inventory we carry, it is not uncommon to "come up short" on some items. If an item is missing and not marked "backordered", please advise us immediately by mail or call our Customer Service Dept.

BACKORDERS

Although we make every effort to ship all orders "complete," it is often necessary to backorder one or more items if we are out of stock. When the partial order is shipped and invoiced, you are not charged for the backordered item(s) until these items are shipped. You are billed only for what is shipped. A backorder is created and shipped as soon as the items arrive. The backorder is then invoiced and any overpayment from the first invoice is applied to it. If you do not wish to have any items backordered, or wish to cancel an existing backorder, just let us know. We will do so immediately if the backorder has not been shipped. We are working continuously to keep all items in stock to preclude backorders. If a backorder is necessary, we do appreciate your patience. California Power Systems pays the shipping costs within the 48 contiguous United States by surface shipping on backorders when the backordered items could have been shipped via UPS inside the first package at no additional freight cost. Except when the backordered items are oversize, hazardous, contain one gallon or larger, or COD shipments. We will continue to strive to maintain stock of all our products to keep the necessity for backordering parts to a minimum.

DAMAGE OR SHORTAGE

Open and examine all packages promptly. Notify the California Power Systems Customer Service Department of any discrepancies in the order. If the merchandise is received in damaged condition or the carrier fails to deliver the entire shipment as shown on the Bill of Lading covering motor freight delivery, make note of the damage or shortage on the Bill of Lading and ask the driver to sign it. Then call the terminal office of the carrier and institute a claim for the loss or damage. If a package delivered by UPS arrives damaged, report this to the driver immediately. UPS will issue a report on the damage to California Power Systems at which time a replacement shipment can be made.

CALIFORNIA POWER SYSTEMS WILL NOT BE UNDER SOLD!

California Power Systems works hard to bring you the lowest prices on every product we carry. If you have found a better price for an item at another authorized dealer, we will do everything possible to beat that price. Our Lowest Price Guaranteed is only applicable to identical conditions of sale. The item must be in stock at the other authorized dealer (not a floor sample, "open box" item, refurbished or demo piece). This offer applies to new purchases only.

RETURNED MERCHANDISE

Call California Power Systems customer service for a RMA Number Before Returning any Product

WAIVER OF LIABILITY AND INDEMNIFICATION AGREEMENT

Inasmuch as California Power Systems has no opportunity to supervise the manufacture, installation or maintenance of the parts supplied by it, nor any opportunity to participate in the design or manufacture of the various certificated and homebuilt aircraft in which its parts are utilized, the purchaser by placing an order and accepting said merchandise from California Power Systems agrees that all materials purchased will be used solely at purchaser's risk and that purchaser will indemnify and hold California Power Systems, its owners and employees, free and harmless from all loss, liability or damage resulting from claims brought by any reason of any alleged failure or defect of any part or parts supplied by California Power Systems.

- Generally the fasteners on a ROTAX® engine are tightened with a torque wrench. Please look up the proper torque value in the appropriate maintenance manual.
- Each screw connection which has to be secured additionally (i.e. LOCTITE) is marked with a drop and symbol that corresponds to a list on each illustration. See fig. 1
- If safety wire is required it will be listed as a part number in the illustration.
- If the quantity is in brackets it indicates that the part is not absolutely necessary but optional on the respective engine type. See fig. 2
- A small letter added to the number refers to information at the end of the section. See fig. 2
- No number in the column parts per assembly indicates that this part is not planned for the respective engine.

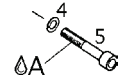


Fig. 1

Explanations of symbols and statements in part number charts:

- N = Newly introduced part.
 s.v. = Still valid. Part was replaced by compatible component and can not be supplied any longer by the producer. Existing stock may be used.
 AR = As required. This generally refers to shims, hose, wires, and cable. Measure the amount you need before ordering. Many times there will be multiple listings of different lengths with the same part number. Use the individual part descriptions to determine the proper length needed.
 n.a. or NLA = No longer available, no replacement from Rotax. Part is no longer available due to incompatibility to current production or unavailability of part.
 CALL = Please call for price, **800-247-9653**.

| NO | STATUS | PART # | DESCRIPTION | QTY | | PRICE |
|-----|--------|---------|------------------------|---------|---------|--------|
| | | | | mod. 99 | mod. 17 | |
| 1 | N | 937-969 | ROTARY VALVE SHAFT | 1a | | \$1.00 |
| 2 | s.v. | 827-243 | ROTARY VALVE SHAFT | (1) | 1 | \$1.00 |
| 3-5 | | 965-153 | IGNITION CABLE 1,5/7MM | AR | AR | \$1.00 |
| 3 | | - | IGNITION CABLE 480MM | AR | AR | |
| 4 | | - | IGNITION CABLE 670MM | AR | AR | |
| 5 | | - | IGNITION CABLE 440MM | AR | AR | |
| 6 | n.a. | 827-465 | THRUST WASHER | 1b | 1b | * |
| 7 | | 241-123 | BOLT M6x14 | 1 | 1 | NLA |
| 8 | | 243-300 | HARNESS ASSEMBLY | 1 | 1 | |

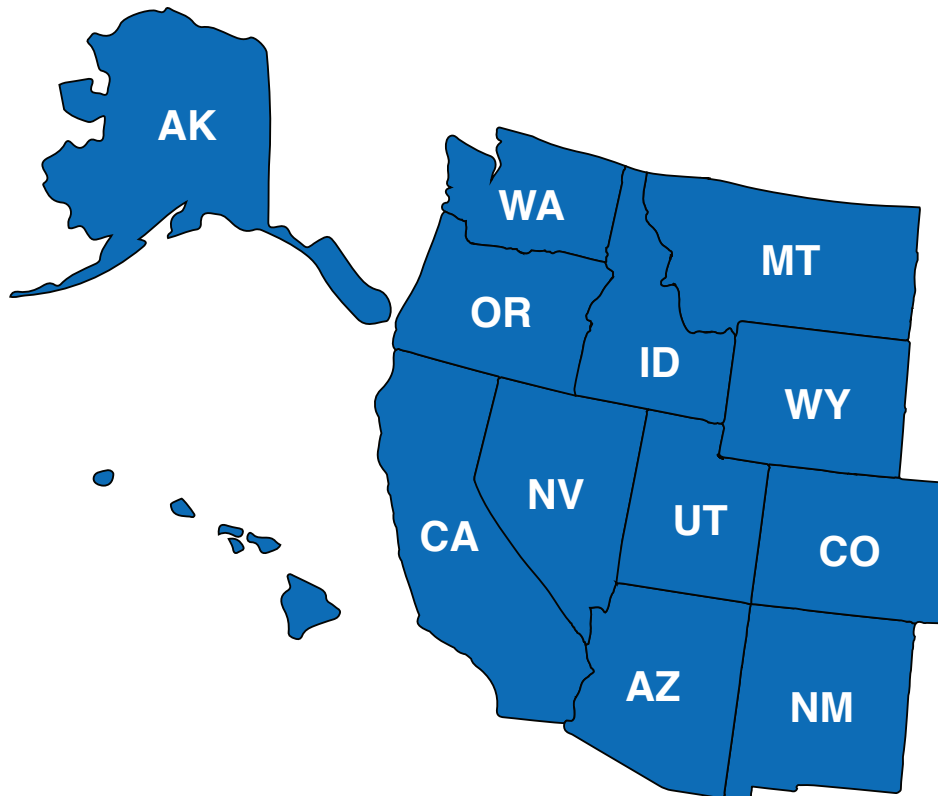
Fig. 2

a ROTARY VALVE FOR CONFIGURATION WITH ROTARY SEAL (582UL DCDI MOD. 99)
 b USED ON SN XXXX.XX THRU XXXX.XX

THE ILLUSTRATIONS IN THIS PARTS CATALOG ARE DUPLICATED FROM THE CURRENT ROTAX® MANUALS AT THE TIME OF PRINTING AND ARE INTENDED FOR REFERENCE ONLY. THIS CATALOG IS NOT TO BE USED AS AN INSTRUCTION GUIDE FOR MAINTENANCE, ASSEMBLY, OR REPAIR TO ANY AIRCRAFT OR AIRCRAFT COMPONENT. PLEASE ENSURE YOU ARE USING THE MOST RECENT ROTAX® MANUALS BY VISITING OUR WEBSITE AT www.cps-parts.com/catalog/rtxpages/manuals.php.



RTX



California Power Systems can supply all the parts you require worldwide. However, if you need service in the Western United States we manage a network of ROTAX factory trained technicians, or Independent Repair Centers (IRC). To find a local certified technician, please visit our website at www.cps-parts.com/cps/repairstations.html, or call our technical support line 951-549-7786.

ROTAX FACTORY APPROVED TRAINING COURSES:

CPS holds classes throughout the year at our facility in Chino California, for more information about the classes and the current schedule visit www.cps-parts.com/menus/rtx/zclasses.html.

HOW TO BECOME AN INDEPENDENT REPAIR CENTER:

For information about becoming a certified ROTAX IRC or trained technician, contact CPS at 800-247-9653 or info@cps-parts.com.

OVERHAUL SERVICES

582 UL ENGINES

| Engine | Part No. | Exhaust | Carburetors | B-Gearbox | Part No | E-Gearbox | Part No |
|----------------------------------|------------|---------|-------------|-----------|----------|-----------|----------|
| 582 UL WITH SIDEMOUNT EXHAUST | 15-08209-1 | 881-636 | 2 | 1:2.00 | 15-04496 | 1:2.62 | 15-07815 |
| 582 UL WITH STRAIGHT EXHAUST | 15-08209-2 | 881-631 | 2 | 1:2.24 | 15-07774 | 1:3.00 | 15-07816 |
| 582 UL WITH 90° (EIPPER EXHAUST) | 15-08209-3 | 881-634 | 2 | 1:2.58 | 15-05342 | 1:3.47 | 15-07817 |
| | | | | | | 1:4.00 | 15-07818 |

912 / 914 UL ENGINES

| Engine | Part No. | Exhaust | Carburetors | Gearbox | Expansion Tank | Oil Tank | CHT Sensors | Oil Temp Sensor | Oil Press Sensor | Ring Mount |
|--------------------------------------|----------|---------|-------------|-------------------------|----------------|----------|-------------|-----------------|------------------|------------|
| 912 UL, 80 Horsepower | 15-07717 | No | Yes | Yes, 2.27:1, w/o Clutch | Yes | Yes | 2 | 1 | 1 | No |
| 912 ULS, 100 Horsepower | 15-07722 | No | Yes | Yes, 2.43:1 with Clutch | Yes | Yes | 2 | 1 | 1 | No |
| 914 UL, 115 Horsepower, Turbocharged | 15-07723 | Yes | Yes | Yes, 2.43:1 with Clutch | Yes | Yes | 2 | 1 | 1 | Yes |

912 / 915 ISERIES ENGINE

| Engine | Part No. | Exhaust | Carburetors | Gearbox | Expansion Tank | Oil Tank | CHT Sensors | Oil Temp Sensor | Oil Press Sensor | Ring Mount |
|------------------------------|----------|---------|---------------|-------------------------|----------------|----------|-------------|-----------------|------------------|------------|
| 912 iS, Sport 100 Horsepower | 15-08635 | Yes | Fuel Injected | Yes, 2.43:1 with Clutch | Yes | Yes | 4 | 1 | 1 | Yes |
| 915 IS Turbo, 140 Horsepower | 15-09449 | Yes | Fuel Injected | Yes | Yes | Yes | 4 | 1 | 1 | Yes |

OVERHAUL PARTS

150 Hour Inspection

300 Hour Overhaul

| Engine | Gasket Set | Gasket Set | Gasket Assembly |
|-----------|------------|------------|-----------------|
| 503 UL | 994-236 | 994-236 | 996-441 |
| 582 UL/90 | 886-230 | 886-230 | 887-051 |
| 582 UL/99 | 886-232 | 886-232 | 887-051 |

**CALL BRYAN TOEPFER AT 1-800-247-9653 OR
EMAIL: BRYANTOEPFER@CPS-PARTS.COM FOR PRICE AND AVAILABILITY.**



DESCRIPTION

- 4-cylinder
- 4-stroke liquid/air-cooled engine with horizontally opposed cylinders
- Dry sump forced lubrication with separate oil tank, automatic adjustment by hydraulic valve tappet
- Redundant electronic fuel injection and ignition
- Engine management system (EMS)
- Electric starter (12 or 24 volt)
- Propeller speed reduction gearbox
- Air intake system with intercooler
- Turbocharger with stainless steel exhaust
- TBO (Time between overhauls) 1,200 hours
- Service ceiling of 23,000 feet

915 iS Call for Price

- ➔ **BEST POWER TO WEIGHT RATIO!**
- ➔ **FULL TAKE OFF POWER UP TO 15,000 FEET!**
- ➔ **EXTENSION OF 912/914 ENGINE FAMILY – PROVEN RELIABILITY!**
with more than 50 million flight hours

ENGINE DATA

| WEIGHT | kg | lb |
|---|------|-------|
| Engine with gearbox, turbocharger, intercooler, cooling air baffle, wiring harness, sensors, flange with overboost valve, air hoses, clamps, magneto valve block with hoses, ECU, fusebox with regulators, oil tank and exhaust system. Without fuel pumps assembly, radiator and oil cooler. | 84.6 | 186.4 |

| VERSION 915 IS*, 915 ISC** | kW | hp | 1/min |
|-----------------------------|-----|-----|-------|
| Max. take-o performance | 104 | 141 | 5,800 |
| Max. continuous performance | 99 | 135 | 5,500 |

| BORE | | STROKE | | DISPLACEMENT | | FUEL |
|---------|---------|---------|--------|-----------------------|--------------|-----------------------------------|
| 84.0 mm | 3.31 in | 61.0 mm | 2.4 in | 1,352 cm ³ | 82.5 cu. in. | min. MON 85 / RON 95, min. AKI 91 |

* ASTM compliant ** EASA CS-E certified
Engine performance may vary depending on, among other things, general conditions, ambient temperature and altitude.



RTX



ENGINE TYPE 912 iS | 100 hp

DESCRIPTION

- 4-cylinder
- 4-stroke liquid-/air-cooled engine with opposed cylinders
- Dry sump forced lubrication with separate oil tank, automatic adjustment by hydraulic valve tappets
- Redundant electronic fuel injection
- Engine management system
- Electric starter
- Propeller speed reduction gearbox
- Air intake system

912 iS **Call for Price**

FACTS

Based on the proven concept of the Rotax 912 S/ ULS engine the new 912 iS Sport engine offers all well known advantages of the Rotax 4-stroke engine series complemented by additional features, for example, the engine management system.

The complete package presents the latest technology in the aircraft engine industry and will enhance the flying and ownership experience of pilots.

The Rotax 912 iS Sport engine offers a TBO (time between overhauls) of 2,000 hrs.

| VERSION | PERFORMANCE | | | TORQUE | | | MAX RPM |
|---|-------------|---------|-------|--------|---------|-------|---------|
| | kW | ft. lb. | 1/min | Nm | ft. lb. | 1/min | 1/min |
| 912 iS ¹⁾ / iSc ²⁾ Sport | 73.5 | 100 | 5800 | 121 | 89 | 5800 | 5800 |
| | 72.0** | 98 | 5500 | 125 | 92 | 5500 | |
| | 68.0 | 92.5 | 5000 | 132*** | 97 | 5000 | |

* Limited for max. 5 min.

** Max. continuous power at 5500 1/min

*** MOGAS, no hydraulic governor

| BORE | STROKE | DISPLACEMENT | FUEL |
|----------------------|-------------|-------------------------------------|--------|
| 84.0 mm | 3.13 in | 61 mm | 2.4 in |
| 1352 cm ³ | 82.6 cu. in | min. MON 85 RON 95* min. AKI 91* | |

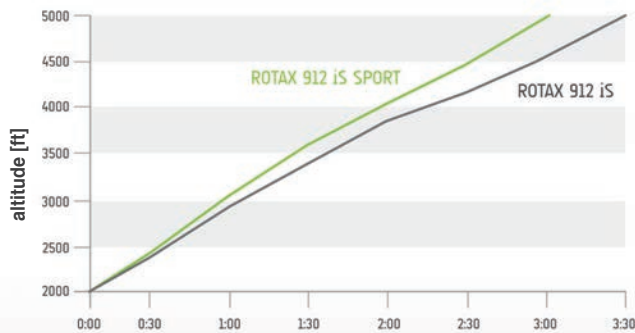
* leaded, unleaded, AVGAS 100LL or E10

1) iS = non-certified | 2) iSc = certified acc. to CS-E available after receipt of type certificate

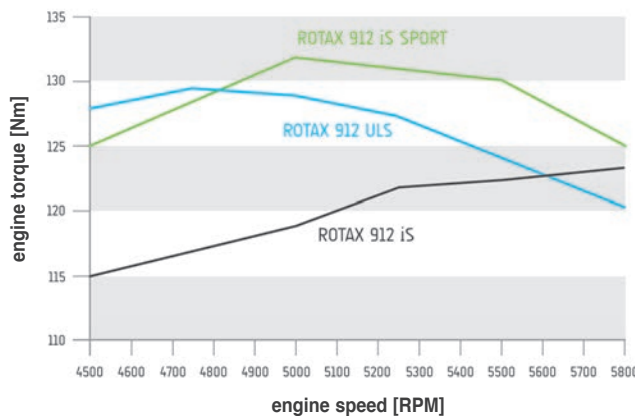
WEIGHT

| | kg | lb |
|--|------|-------|
| Engine with propeller speed reduction unit / i = 2.43 with overload clutch | 63.6 | 140.2 |
| Exhaust system | 4.8 | 10.5 |
| Air guide hood | 0.4 | 0.8 |
| External alternator | 3.0 | 6.6 |
| Fuel pumps assembly | 1.6 | 3.5 |
| Engine mount | 2.0 | 4.4 |

912 iS SPORT CLIMB WITH FIXED PITCH PROPELLER 1)

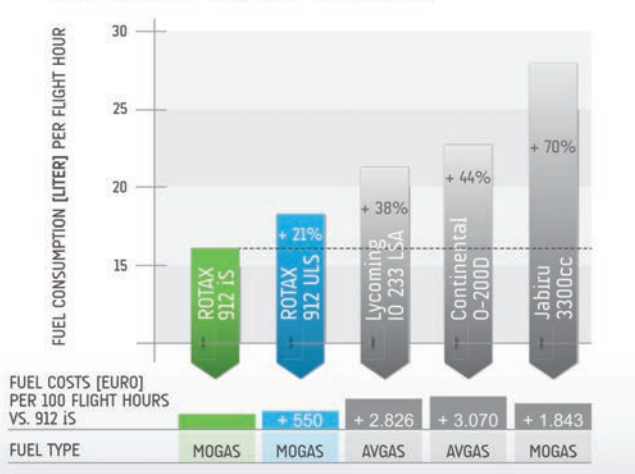


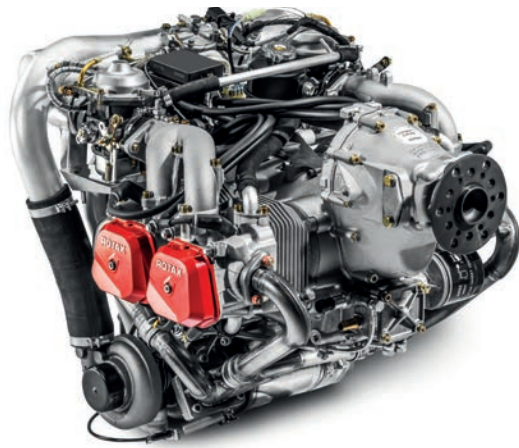
ENGINE TORQUE [MOGAS, NO HYDRAULIC GOVERNOR]



PERFORMANCE GRAPHS

FUEL CONSUMPTION AND FUEL COSTS ¹⁾





ENGINE TYPE 914 UL I 115 hp

DESCRIPTION

- 4-cylinder
- 4-stroke liquid/air-cooled engine with opposed cylinders
- with turbo charger
- with automatic waste gate control
- dry sump forced lubrication with separate oil tank
- automatic adjustment by hydraulic valve tappet
- 2 carburetors
- dual electronic ignition
- electric starter
- propeller speed reduction unit
- engine mount assembly
- air intake system
- exhaust system

914UL..... Call for Price

FACTS

The turbo charged Rotax 914 series offers more performance at high altitudes while keeping weight at a low level. This series offers a time between overhauls of 2,000 hrs and is available as certified (Rotax 914 F) according to FAR 33 and JAR-E and non-certified version (Rotax 914 UL).

| VERSION | PERFORMANCE | | | TORQUE | | | MAX RPM |
|---------------------------------------|-------------|---------|-------|--------|---------|-------|---------|
| | kW | ft. lb. | 1/min | Nm | ft. lb. | 1/min | 1/min |
| 914 UL ¹⁾ /F ²⁾ | 84.5 | 115 | 5800 | 144 | 106 | 4900 | 5800 |

Limited for max. 5 min.

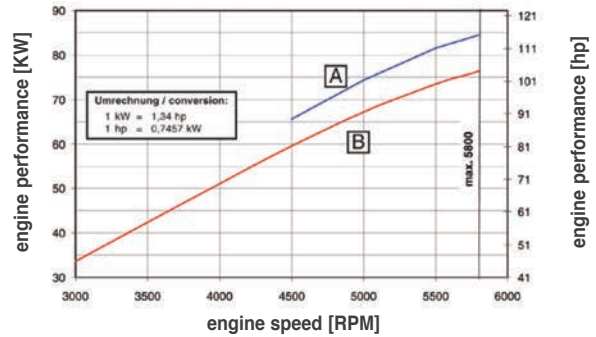
| BORE | STROKE | DISPLACEMENT | FUEL |
|-------------------------------------|-----------------|---------------------------|-----------------|
| 79.5 mm 3.13 in | 61 mm 2.4 in | 1211.2 cm ³ | 73.91 cu. in |
| min. MON 85 RON 95* min. AKI 91* | | | |

* leaded or unleaded or AVGAS 100LL

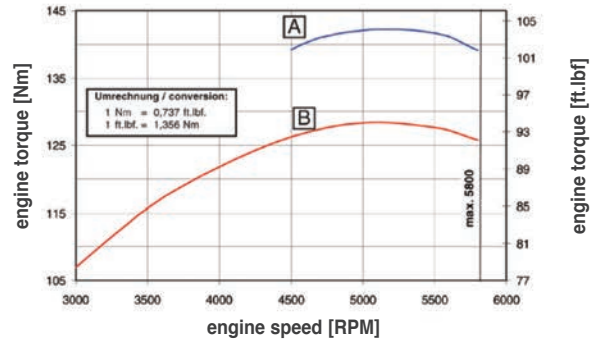
1) UL = non certified | 2) F = certified acc. to FAR 33 and JAR-E

RTX

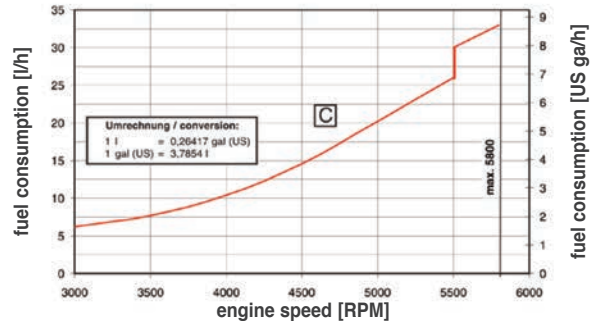
ENGINE PERFORMANCE



ENGINE TORQUE



FUEL CONSUMPTION



A: take off
B: max continue
C: propeller curve

PERFORMANCE GRAPHS

| WEIGHT | kg | lb |
|---|------|-------|
| engine with propeller speed reduction unit i = 2,43 | 64.0 | 140.8 |
| exhaust system | 4.0 | 8.8 |
| engine suspension frame | 2.0 | 3.7 |
| overload clutch | 1.7 | 3.7 |
| external alternator | 3.0 | 6.6 |
| air guide hood | 0.8 | 1.8 |

RTX



ENGINE TYPE 912 ULS I 100 hp

DESCRIPTION

- 4-cylinder
- 4-stroke liquid-/air-cooled engine with opposed cylinders
- Dry sump forced lubrication with separate oil tank, automatic adjustment by hydraulic valve tappet
- 2 carburetors
- Mechanical fuel pump
- Dual electronic ignition
- Electric starter
- Propeller speed reduction unit
- Air intake system

912ULS..... Call for Price

FACTS

In comparison to the 80 hp version of the Rotax 912 series the 100 hp product line offers more power while keeping the weight. This engine series offers a time between overhauls of 2.000 hrs and the best power to weight ratio in its class - no surprise that this engine is the best selling 4-stroke engine. This series is available as non-certified (Rotax 912 ULS) and certified engine (Rotax 912 S) according to FAR33.

| VERSION | PERFORMANCE | | | TORQUE | | | MAX RPM |
|--|-------------|---------|-------|--------|---------|-------|---------|
| | kW | ft. lb. | 1/min | Nm | ft. lb. | 1/min | 1/min |
| 912 ULS ¹⁾ /S ²⁾ | 73.5 | 100 | 5800 | 128 | 94 | 5100 | 5800 |

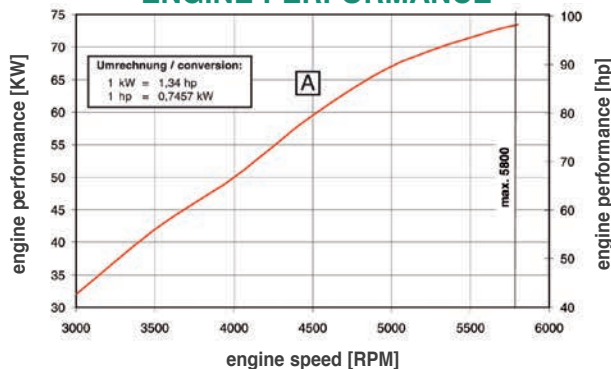
Limited for max. 5 min.

| BORE | | STROKE | | DISPLACEMENT | | FUEL |
|---------|---------|--------|--------|----------------------|-------------|-------------------------------------|
| 84.0 mm | 3.31 in | 61 mm | 2.4 in | 1352 cm ³ | 82.6 cu. in | min. MON 85 RON 95* min. AKI 91* |

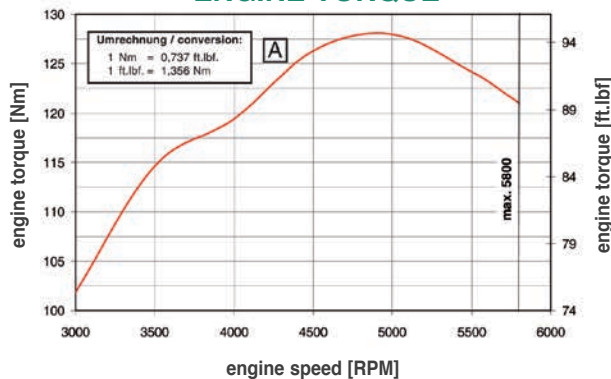
* leaded, unleaded, AVGAS 100LL or Ethanol 10

1) UL = non certified | 2) F = certified acc. to FAR 33

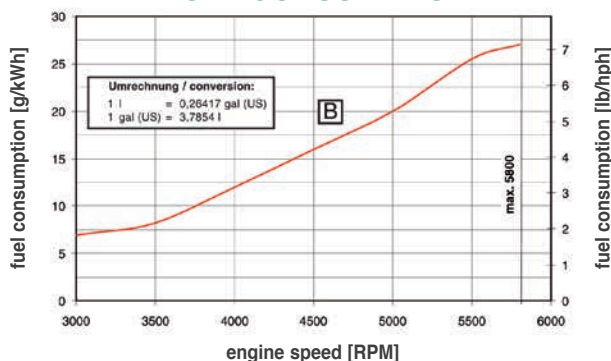
ENGINE PERFORMANCE



ENGINE TORQUE



FUEL CONSUMPTION



PERFORMANCE GRAPHS

WEIGHT

| | kg | lb |
|---|------|-------|
| engine with propeller speed reduction unit i = 2.27 (opt. i = 2.43) | 55.4 | 122.0 |
| overload clutch | 1.7 | 3.7 |
| exhaust system | 4.0 | 8.8 |
| external alternator | 3.0 | 6.6 |
| engine suspension frame | 2.0 | 4.4 |
| air guide hood | 0.8 | 1.8 |
| airbox | 1.3 | 2.8 |



ENGINE TYPE 912 UL | 80 hp

DESCRIPTION

- 4-cylinder
- 4-stroke liquid/air-cooled engine with opposed cylinders
- dry sump forced lubrication with separate oil tank, automatic adjustment by hydraulic valve tappet
- 2 carburetors
- mechanical fuel pump
- dual electronic ignition
- electric starter
- propeller speed reduction unit

912UL..... Call for Price

FACTS

This series was BRP's first Rotax engine dedicated for aircraft application only. The Rotax 912 series is well regarded for its reliability and efficiency and is primarily targeted as the entry level engine in the light aviation industry. The 80 hp version of the Rotax 912 series offers a time between overhauls of 2.000 hours and is available as non-certified (Rotax 912 UL) as well as certified version according to FAR 33 (Rotax 912 F) and JAR 22 (Rotax 912 A).

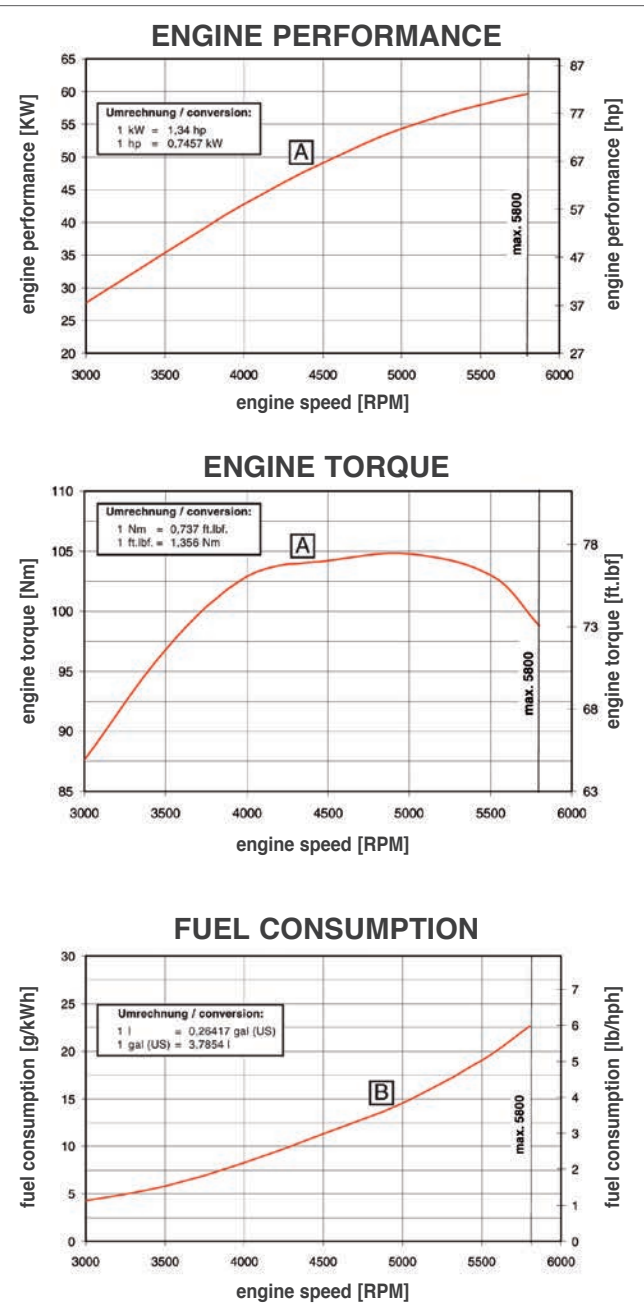
| VERSION | PERFORMANCE | | | TORQUE | | | MAX RPM |
|--|-------------|---------|-------|--------|---------|-------|---------|
| | kW | ft. lb. | 1/min | Nm | ft. lb. | 1/min | |
| 912 UL ¹⁾ /F ²⁾ /A ³⁾ | 59.6 | 80 | 5800 | 103 | 75.9 | 4800 | 5800 |

Limited for max. 5 min.

| BORE | | STROKE | | DISPLACEMENT | | FUEL | |
|---------|---------|--------|--------|------------------------|--------------|-------------------------------------|--|
| 79.5 mm | 3.13 in | 61 mm | 2.4 in | 1211.2 cm ³ | 73.91 cu. in | min. MON 83 RON 91* min. AKI 87* | |

* leaded, unleaded, AVGAS 100LL or Ethanol 10

1) UL = non certified | 2) F = certified acc. to FAR 33 | 3) A = certified acc. to JAR 22



PERFORMANCE GRAPHS

| WEIGHT | kg | lb |
|---|------|-------|
| engine with propeller speed reduction unit i = 2.27 (opt. i = 2.43) | 55.4 | 122.0 |
| overload clutch | 1.7 | 3.7 |
| exhaust system | 4.0 | 8.8 |
| external alternator | 3.0 | 6.6 |
| engine suspension frame | 2.0 | 4.4 |
| air guide hood | 0.8 | 1.8 |
| airbox | 1.3 | 2.8 |

RTX



582 UL DCDI ENGINE

DESCRIPTION

- 2-cylinder
- 2-stroke liquid cooled engine with rotary valve intake
- dual electronic ignition
- integrated water pump and thermostat
- exhaust system
- carburetors

582UL w/ Sidemount Exhaust Call for Price
582UL w/ Straight Exhaust Call for Price
582UL w/ 90° (Eipper Exhaust) Call for Price

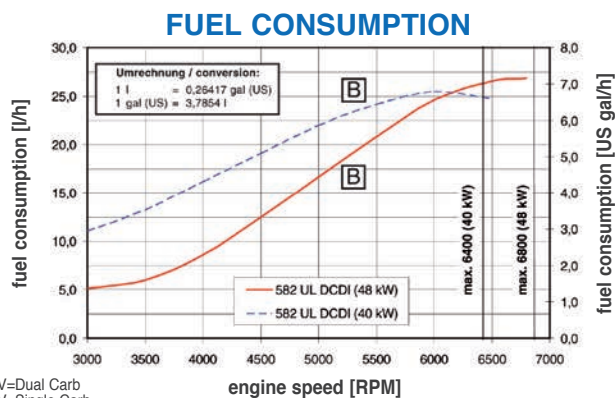
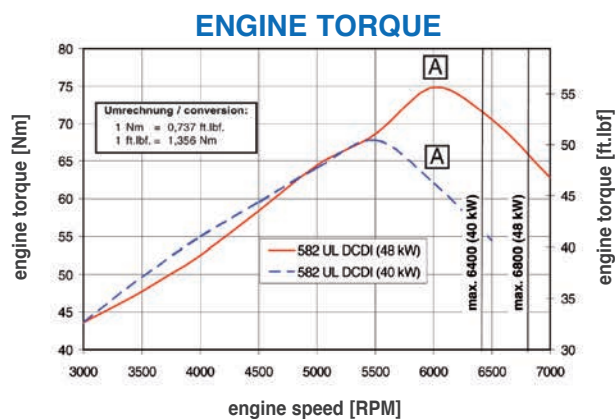
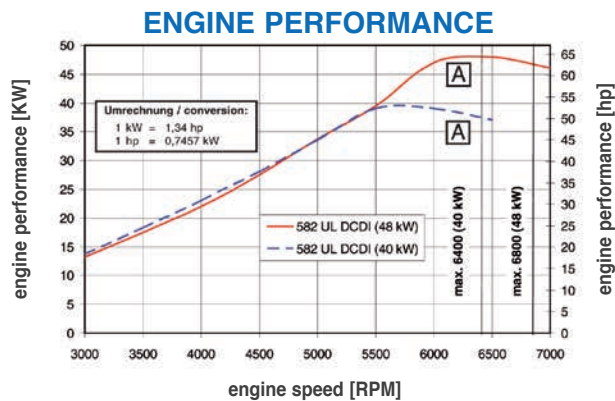
FACTS

Over 30.000 units of this popular Rotax 2-stroke engine have been sold. This engine type is well regarded for its easy maintenance and robustness.

| VERSION | PERFORMANCE | | | TORQUE | | | MAX RPM |
|------------------|-------------|---------|-------|--------|---------|-------|---------|
| kW ft. lb. 1/min | kW | ft. lb. | 1/min | Nm | ft. lb. | 1/min | 1/min |
| 582 Mod. 99 | 48 | 65 | 6500 | 75 | 55.3 | 6000 | 6800 |

| BORE | STROKE | DISPLACEMENT |
|---------|---------|-----------------------|
| 76 mm | 64 mm | 496.7 cm ³ |
| 2.99 in | 2.52 in | 35.4 cu. in |

| FUEL | 2 SUPER STROKE - MOTOROIL | MIXING RATIO |
|-------------------------------------|---------------------------|---|
| min. MON 83 RON 91* min. AKI 87* | API-TC-Classification | 1:50 or optional with fresh oil pump |



2V=Dual Carb
1V=Single Carb

PERFORMANCE GRAPHS

| WEIGHT | kg | lb |
|--|------|------|
| engine | 29.1 | 64.0 |
| 2 carburetors | 1.8 | 4.0 |
| exhaust system | 5.1 | 11.2 |
| electric starter | 3.5 | 7.7 |
| propeller speed reduction unit "B" / i = 2.58 | 4.5 | 9.9 |
| propeller speed reduction unit "C" / i = 2.62/3.0/3.47/4.0 | 8.0 | 17.6 |
| propeller speed reduction unit "E" / i = 2.62/3.0/3.47/4.0 | 11.2 | 24.7 |

503 UL ENGINE

RTX



503 UL ENGINE

DESCRIPTION

- 2-stroke engine specially developed for recreational aircraft
- 2 cylinders, cooled by fan
- Piston ported intake
- Dual capacitor discharge Ignition (DCDI)
- Dual Bing carburetors
- Mikuni pulse driven diaphragm fuel pump
- Recoil or electric starter
- Available with various exhaust system configurations
- Operates on automotive fuel with a minimum of 87 octane rating (Canadian standards) and super 2-stroke oil of API-TC classification, automatically provided by oil injection, or premixed with a 50:1 ratio
- Challenger owners, we make the installation of oil injection possible!
- Time Between Overhauls (TBO): 300 hours

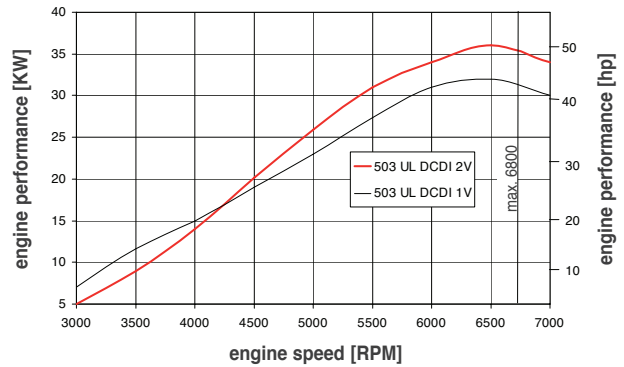
THE 503 ROTAX ENGINE IS NO LONGER AVAILABLE, HOWEVER ROTAX WILL CONTINUE TO MANUFACTURE PARTS FOR THIS ENGINE.

| VERSION | PERFORMANCE | | | TORQUE | | | MAX RPM |
|-------------|-------------|---------|-------|--------|---------|-------|---------|
| | kW | ft. lb. | 1/min | Nm | ft. lb. | 1/min | |
| single carb | 34 | 45.6 | 6500 | 51 | .37.6 | | |
| dual carb | 37 | 49.6 | | 56 | 41.3 | 6000 | 6800 |

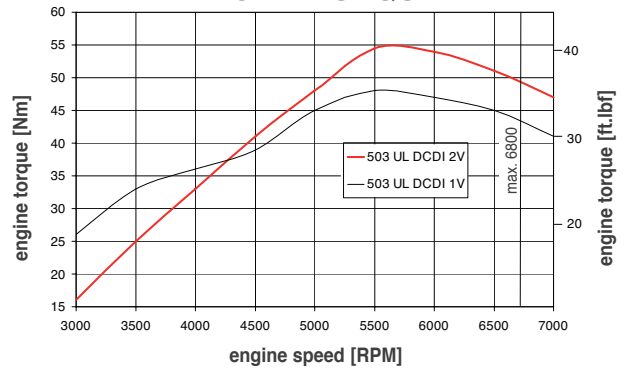
| BORE | | STROKE | | DISPLACEMENT | |
|-------|---------|--------|---------|-----------------------|--------------|
| 72 mm | 2.84 in | 61 mm | 2.40 in | 496.7 cm ³ | 30.31 cu. in |

| FUEL | 2 SUPER STROKE - MOTOROIL | MIXING RATIO |
|-------------------------------------|---------------------------|---|
| min. MON 83 RON 91* min. AKI 87* | I-TC-Classification | 1:50 or optional with fresh oil pump |

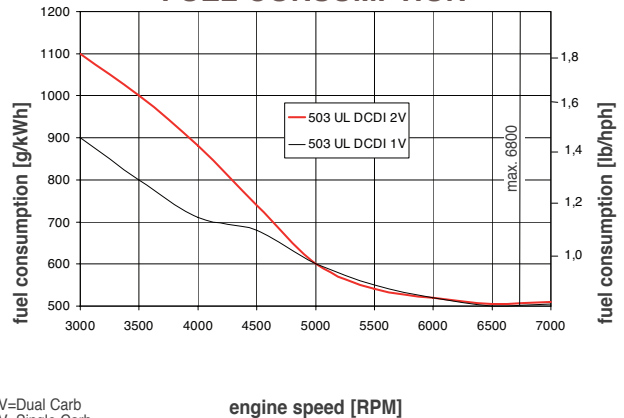
ENGINE PERFORMANCE



ENGINE TORQUE



FUEL CONSUMPTION



2V=Dual Carb
1V=Single Carb

PERFORMANCE GRAPHS

| WEIGHT | kg | lb |
|---------------------------------|------|-------|
| Engine with carburetors | 33.2 | 73.2 |
| Exhaust system | 5.1 | 11.2 |
| Air filter | 0.5 | 1.1 |
| No gearbox, no electric starter | 38.8 | 85.5 |
| B gearbox, no electric starter | 43.3 | 95.4 |
| B gearbox, electric starter | 48.2 | 106.2 |
| C gearbox, no electric starter | 46.8 | 103.1 |
| C gearbox, electric starter | 51.7 | 113.9 |
| E gearbox | 50.0 | 110.2 |



RTX



REPAIR TOOLS (NON CERTIFIED)

| Item No. | Application |
|----------|--|
| 1-4 | Roller bearing 25x25x15, oil seal 30x52x7 |
| 5 | Crankshaft locking screw M8x50 |
| 6 | Gearbox |
| 7 | Crankshaft (magneto side) |
| 8-11 | Ball bearing 15x32x8 - oil inlet flange, oil inlet cover |
| 12 | Needle bearing 22x28x12 - governor drive |
| 13 | Ball bearing 15x32x8 - governor drive |
| 14 | Ring wrench 10/13 |
| 15 | Fixture for governor drive |
| 16 | Ball bearing 15x32x8, needle sleeve - governor drive |
| 17 | Oil seal 22x32x7 - governor drive |
| 18-20 | Drive gear, gearbox, gear set |
| 21 | Fitting of piston pin circlips |
| 22-23 | Fitting and removal of piston pin |
| 24 | Monohook clips puller |
| 25 | Piston diameter 84 mm / 33 in. |
| 26-27 | Puller magneto hub |
| 28 | To align cylinders |
| 29-30 | Installation/Removal of valve spring |

| Item No. | Application |
|----------|---|
| 31 | Oil filter removal |
| 32 | Water pump impeller |
| 33 | Rotary seal ignition housing |
| 34 | Oil seal 12x30x7 water pump shaft |
| 35 | Spring type hose clip 28 |
| 36 | Ignition housing |
| 37 | Oil seal 28x38x7 ignition housing |
| 38 | Pressure sensor Oil and Airbox |
| 39 | Temperature sensor Oil and Water |
| 40 | Engine mount |
| 41 | Intake manifold |
| 42 | Nut for sprag clutch housing |
| 43 | Crankcase |
| 44-45 | Dial gauge |
| 46 | Dial gauge adapter for valve seat inspect |
| 47 | Crankcase |
| 48 | Engine removal |
| 49 | Trestle support |
| 50 | Thread bent socket |

| Item No. | Application |
|----------|--|
| 51 | Oil filter |
| 52 | Twist of crankshaft |
| 53 | ECU (Engine Control Unit) |
| 54 | Needle bearing, crankcase |
| 55 | Propeller shaft removal |
| 56 | Needle bearing removal |
| 57 | Hex. nut on propeller shaft |
| 58 | Damper clutch |
| 59 | Damper clutch |
| 60 | Damper clutch |
| 61 | Damper clutch |
| 62 | Propeller shaft bracket / mounting flange |
| 63 | Installation of overload clutch with damper clutch |
| 64 | Sealing ring, gearbox |
| 65 | Ball bearing, gearbox |
| 66 | Stamp |
| 67 | Retaining ring, propeller shaft |
| 68 | Ball bearing, propeller shaft |
| 69 | Overload clutch 2.5126 in 2.5126 in |

915 iS ENGINE

REPAIR TOOLS (NON CERTIFIED) CONT'D

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--|-----------|----------|
| 1-4 | 877-615 | EXTRACTOR ASSEMBLY | 1 | \$787.40 |
| 2 | 877-580 | PULL-IN SPINDLE M24x1.5 | 1 | \$126.12 |
| 3 | 276-155 | BOLT 12x250 | 1 | \$23.77 |
| 4 | 842-585 | HEX. SCREW M24x1.5 | 1 | \$87.23 |
| 5 | 240-880 | THREAD BOLT M8x50 | 1 | \$6.69 |
| 6 | 877-660 | PULLER ASSEMBLY | 1 | \$522.70 |
| 7 | 877-419 | PROTECTION MUSHROOM | 1 | CALL |
| 8-11 | 876-489 | PULLER ASSEMBLY | 1 | \$126.12 |
| 9 | 941-730 | HEX. SCREW M6x80 | 1 | \$2.45 |
| 10 | 827-305 | WASHER 6.2/18/2 | 1 | \$5.61 |
| 11 | 242-211 | HEX. NUT M6 | 1 | \$0.41 |
| 12 | 877-597 | PRESS-IN MUSHROOM | 1 | \$63.71 |
| 13 | 877-595 | PRESS-IN MUSHROOM | 1 | \$63.71 |
| 14 | 876-470 | RING SPANNER 10/13 | 1 | \$14.77 |
| 15 | 242-661 | DISTANCE NUT M8x33 | 1 | \$54.77 |
| 16 | 276-332 | INSERTION JIG ASSEMBLY | 1 | \$87.44 |
| 17 | 877-276 | INSERTION JIG ASSEMBLY | 1 | \$94.16 |
| 18-20 | 877-445 | SOCKET WRENCH ASSEMBLY 41x12.5 | 1 | \$355.59 |
| 19 | 877-440 | SOCKET WRENCH A/F 41x20 | 1 | \$23.99 |
| 20 | 877-460 | REDUCING SOCKET 3/4"-1/2" | 1 | \$9.50 |
| 21 | 877-802 | CIRCLIP INSTALLATION TOOL | 1 | \$614.92 |
| 22-23 | 877-091 | PISTON PIN EXTRACTOR ASSEMBLY | 1 | \$435.58 |
| 23 | 877-155 | EXTRACTING NUT ASSEMBLY | 1 | \$76.95 |
| 24 | 976-380 | MONOHOOK CIRCLIP REMOVER | 1 | \$192.52 |
| 25 | 876-967 | PISTON RING SPANNER 84 MM (3.31 in.) | 1 | \$141.11 |
| 26-27 | 877-375 | PULLER ASSEMBLY | 1 | CALL |
| 27 | 940-755 | HEX. SCREW M16x1.5x150 | 1 | \$37.91 |
| 28 | 877-263 | CYLINDER ALIGNING TOOL | 1 | \$108.12 |
| 29 | 877-380 | VALVE SPRING MOUNTING DEVICE | 1 | \$146.51 |
| 30 | 877-387 | VALVE SPRING LOADING JIG ASSEMBLY | 1 | \$531.62 |
| 31 | 877-620 | OIL FILTER WRENCH | 1 | \$138.14 |
| 32 | 877-295 | IMPELLER WRENCH ASSEMBLY | 1 | \$191.53 |
| 33 | 877-258 | PRESS ON DEVICE ASSEMBLY | 1 | \$73.98 |
| 34 | 876-510 | INSERTION JIG | 1 | \$53.08 |
| 35 | 877-840 | SPRING CLAMP PLIERS | 1 | \$506.11 |
| 36 | 876-010 | PULLER ASSEMBLY | 1 | \$338.64 |
| 37 | 876-020 | INSERTION JIG. | 1 | \$148.40 |
| 38 | 876-075 | SOCKET WRENCH 21x12.5 | 1 | \$221.89 |
| 39 | 876-130 | SOCKET WRENCH 19x12.5 | 1 | \$177.18 |
| 40 | 876-240 | SOCKET DRIVER HEX. 8 BALL HEAD | 1 | \$142.75 |
| 41 | 876-180 | SOCKET DRIVER T30 BALL HEAD | 1 | \$139.80 |
| 42 | 876-070 | SOCKET WRENCH 38x20 | 1 | \$352.19 |
| 43 | 877-690 | CHECK LEVER | 1 | \$132.11 |
| 44 | 877-710 | DIAL GAUGE ADAPTER ASSEMBLY | 1 | \$224.31 |
| 45 | 876-950 | PRECISION DIAL GAUGE | 1 | \$262.58 |
| 46 | 976-140 | DIAL GAUGE ADAPTER ASSEMBLY | 1 | \$720.67 |
| 47 | 876-050 | TRESTLE ADAPTER ASSEMBLY | 1 | CALL |
| 48 | 876-040 | ENGINE LIFT SET ASSEMBLY | 1 | \$162.17 |
| 49 | 877-930 | TRESTLE SUPPORT | 1 | \$720.30 |
| 50 | 877-570 | TAPPING DRILL M18x1 | 1 | \$156.09 |
| 51 | 877-670 | CUTTING TOOL | 1 | \$625.19 |
| 52 | 877-520 | PROTRACTOR CRANKSHAFT DISTORTION INSP. | 1 | \$217.43 |
| 53 | 864-280 | SERVICE WIRING HARNESS ASSEMBLY | 1 | \$106.66 |
| 54 | 276-000 | PRESS IN JIG | 1 | CALL |
| 55 | 276-002 | PRESS OUT MUSHROOM | 1 | CALL |
| 56 | 276-004 | PULL STUD | 1 | CALL |
| 57 | 276-006 | SOCKET WRENCH AF 46 | 1 | CALL |
| 58 | 276-950 | CENTERING RING | 1 | CALL |
| 59 | 276-952 | INSERTION JIG | 1 | CALL |
| 60 | 276-954 | CENTERING PLATE | 1 | CALL |
| 61 | 276-956 | CENTERING PLATE | 1 | CALL |
| 62 | 276-958 | SUPPORT PLATE | 1 | CALL |
| 63 | 276-962 | TWIST TOOL | 1 | CALL |
| 64 | 276-964 | INSERTION JIG | 1 | CALL |
| 65 | 276-966 | INSERTION JIG | 1 | CALL |
| 66 | 877-650 | HANDLE FOR INSERTION JIG | 1 | \$132.11 |
| 67 | 276-968 | RETAINING RING TOOL | 1 | CALL |
| 68 | 276-972 | INSERTION SLEEVE | 1 | CALL |
| 69 | 276-974 | INSERTION JIG | 1 | CALL |

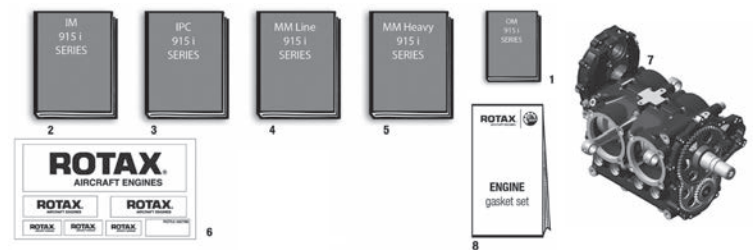


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LUBRICANTS (NON CERTIFIED)

| Item No. | Application |
|----------|--|
| B | Medium strength bond 10 cc. |
| C | High strength bond 5 ml. |
| E | To prevent metal galling 50 cc. R For vibration damping; 310 cc. |
| H | Blister 14.8 ml. |
| I | Roller bearing grease, for smooth running |
| P | Regular body/high adhesion flexible flange sealant |
| V | For marking |
| AG | For better heat transfer from the spark plugs |

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--|-----------|----------|
| B | 897-651 | LOCTITE 243 BLUE, 10 CC. | 1 | \$18.50 |
| C | 899-788 | LOCTITE 648 GREEN, 5 ML. (CC). | 1 | \$21.50 |
| E | 297-434 | LOCTITE ANTI SEIZE 50 ML. | 1 | \$31.17 |
| H | 897-870 | K&N FILTER OIL 99-11312 | 1 | \$25.86 |
| I | 897-330 | LITHIUM-BASED GREASE, 250 GR. | 1 | \$63.89 |
| P | 899-791 | LOCTITE 5910, 50 ML. | 1 | \$54.95 |
| R | 297-711 | PU-GLUE, SIKAFLEX 255 | 1 | \$112.25 |
| V | 898-570 | LOCKING PAINT | 1 | \$56.18 |
| AG | 897-186 | SILICONE HEAT COMPOUND WACKER P12, 150 GR. | 1 | \$164.50 |



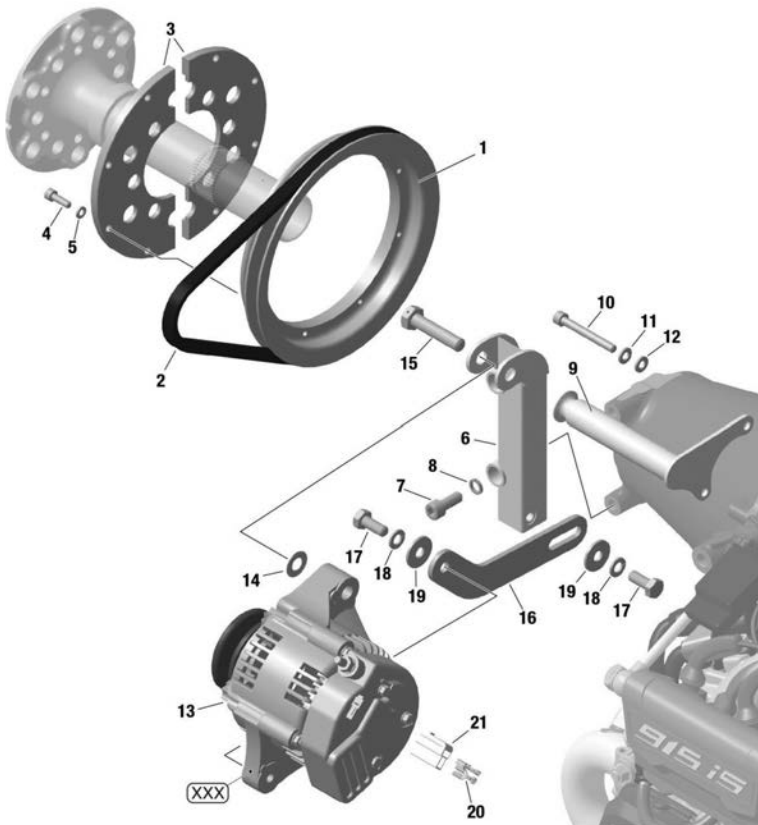
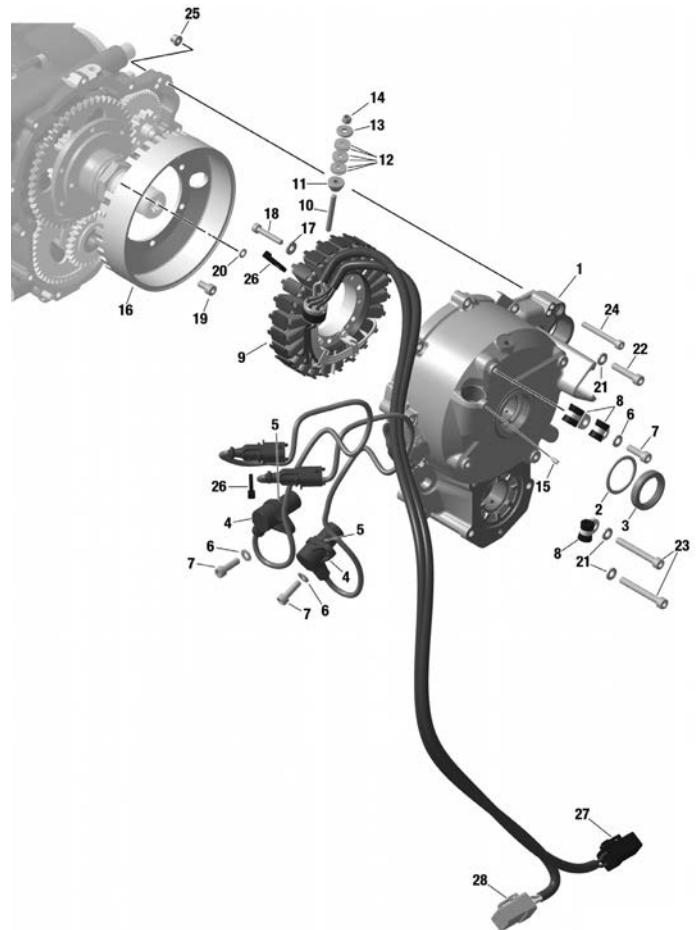
DOCUMENTATION, LABELS, GASKET SETS

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---|-----------|--------|
| 1 | 898-851 | OPERATORS MANUAL | 1 | CALL |
| 2 | 898-871 | INSTALLATION MANUAL | 1 | CALL |
| 3 | 898-891 | ILLUSTRATED PARTS CATALOG | 1 | CALL |
| 4 | 898-863 | MAINTENANCE MANUAL LINE | 1 | CALL |
| 5 | 898-861 | MAINTENANCE MANUAL HEAVY | 1 | CALL |
| 6 | 580-683 | ROTAX STICKER KIT AIRCRAFT NC - NON-CERTIFIED | 1 | \$9.87 |

RTX

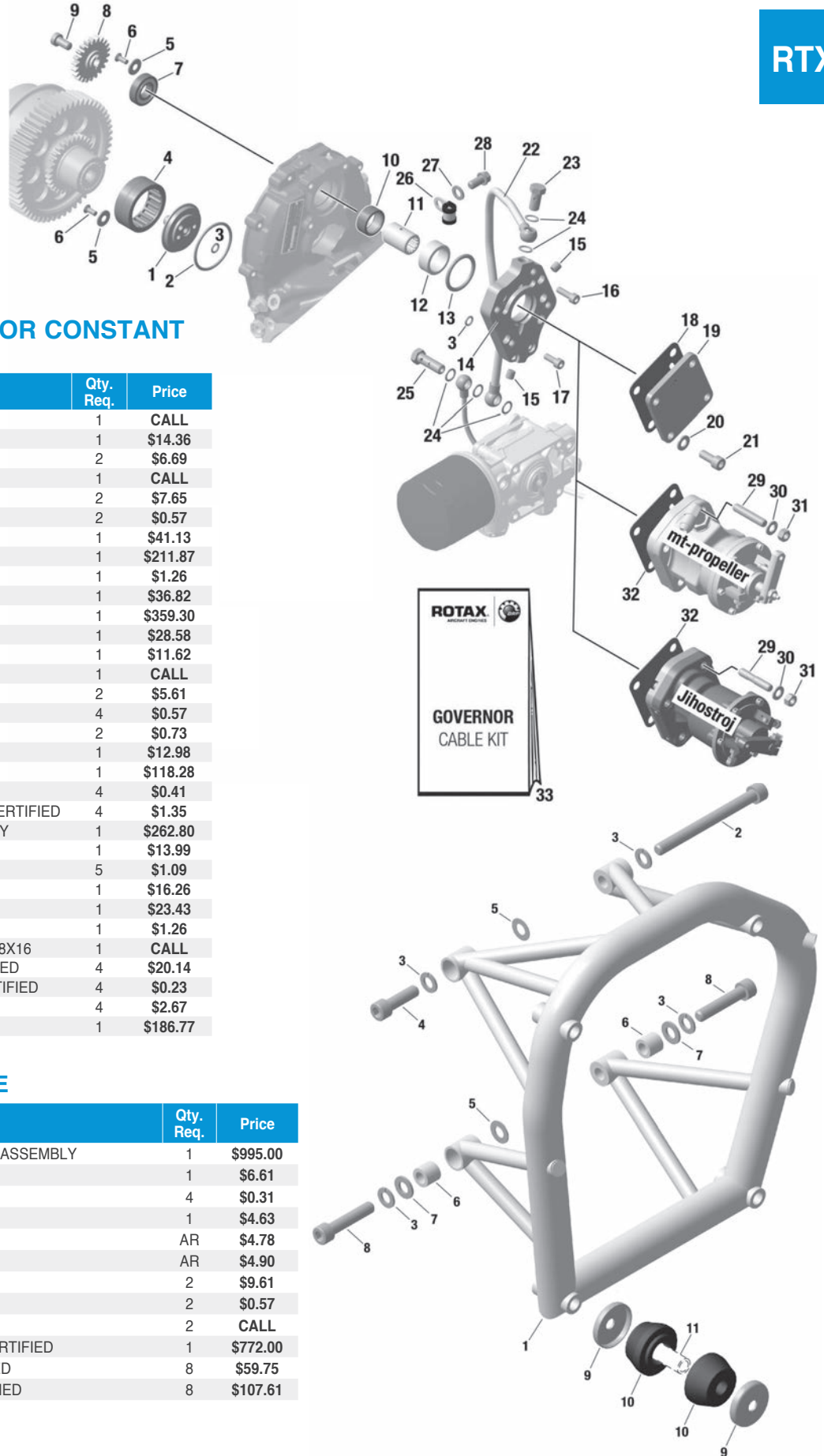
IGNITION HOUSING, STATOR, CRANKSHAFT POSITION SENSOR

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------|-----------|----------|
| 1 | 912-247 | IGNITION HOUSING ASSEMBLY | 1 | CALL |
| 2 | 827-220 | WASHER 32/38/1.5 | 1 | \$17.56 |
| 3 | 230-428 | OIL SEAL GPRE 28x38x7 FKM | 1 | CALL |
| 4-5 | 966-572 | CRANKSHAFT POSITION SENSOR | 2 | \$182.35 |
| 5 | 431-580 | O-RING 17.17x1.78 FPM 70 | 2 | \$7.30 |
| 6 | 945-751 | LOCK WASHER A6 | 3 | \$0.21 |
| 7 | 241-930 | ALLEN SCREW M6x20 | 2 | \$0.57 |
| 8 | 853-412 | CABLE CLAMP | 3 | \$5.69 |
| 9 | 685-063 | STATOR ASSEMBLY | 1 | CALL |
| 10 | 840-792 | STUD M5x44 | 1 | CALL |
| 11 | 947-510 | DISTANCE SLEEVE | 1 | \$34.01 |
| 12 | 938-080 | DISK SPRING 15x5.2x0.7 | 6 | \$1.78 |
| 13 | 827-240 | WASHER 5.1/15.5/2.5 | 1 | \$26.43 |
| 14 | 842-033 | LOCK NUT M5 | 1 | \$0.35 |
| 15 | 840-820 | ADJUSTMENT SCREW M4x8 | 1 | CALL |
| 16 | 685-072 | MAGNETO FLYWHEEL ASSEMBLY | 1 | CALL |
| 17 | 827-800 | WASHER A 5.5 | 6 | \$5.99 |
| 18 | 940-881 | ALLEN SCREW M5x30 | 6 | \$0.57 |
| 19 | 840-036 | ALLEN SCREW M6x12 | 6 | \$1.78 |
| 21 | 827-961 | WASHER 6.4 | 7 | \$0.31 |
| 22 | 840-880 | ALLEN SCREW M6x30 | 5 | \$0.57 |
| 23 | 241-761 | ALLEN SCREW M6x50 | 2 | \$0.85 |
| 24 | 941-791 | ALLEN SCREW M5x45 | 2 | \$1.08 |
| 25 | 942-311 | HEX. NUT M5 | 2 | \$20.67 |
| 26 | 866-714 | TIE WRAP 142x3.2 mm | 2 | \$0.35 |



EXTERNAL GENERATOR F3A (ALL PARTS OPTIONAL) (NON CERTIFIED)

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------|-----------|------------|
| 1 | 980-590 | V-BELT PULLEY | (1) | \$395.80 |
| 2 | 980-400 | V-BELT 9.5X675 | (1) | \$31.26 |
| 3 | 980-605 | PULLEY CARRIER | (2) | \$127.31 |
| 4 | 840-514 | ALLEN SCREW M5X16 | (8) | \$0.53 |
| 5 | 945-830 | LOCK WASHER A5 | (8) | \$0.21 |
| 6 | 953-223 | ALTERNATOR BRACKET ASSEMBLY | (1) | CALL |
| 7 | 240-072 | ALLEN SCREW M8X20 | (2) | \$1.35 |
| 8 | 845-310 | LOCK WASHER VHZ 8 | (2) | \$0.41 |
| 9 | 953-235 | ALTERNATOR SUPPORT ASSEMBLY | (1) | CALL |
| 10 | 241-762 | ALLEN SCREW M6X50 | (2) | \$0.94 |
| 11 | 945-831 | LOCK WASHER A6 | (2) | \$0.23 |
| 12 | 827-962 | WASHER 6.4 | (2) | \$0.31 |
| 13 | 887-251 | ALTERNATOR F3A | (1) | \$1,394.06 |
| 14 | 927-952 | THRUST WASHER 10.1/20/0.5 | (1) | \$4.78 |
| 15 | 941-636 | HEX. SCREW M10X45 | (1) | \$13.77 |
| 16 | 953-241 | TENSION BAR | (1) | \$83.34 |
| 17 | 940-596 | HEX. SCREW M8X2 | (2) | \$11.47 |
| 18 | 945-832 | LOCK WASHER A8 | (2) | \$0.23 |
| 19 | 227-935 | WASHER 8.4 | (2) | \$1.76 |
| 20 | 864-011 | FASTON CONNECTOR 6.3X0.8 | (2) | \$1.23 |
| 21 | 265-255 | CONNECTOR HOUSING 2-POLE | (1) | \$7.84 |



HYDRAULIC GOVERNOR FOR CONSTANT SPEED PROPELLER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------------|-----------|----------|
| 1 | 810-310 | OIL INLET FLANGE | 1 | CALL |
| 2 | 430-175 | O-RING 46x3-N, FPM 75 | 1 | \$14.36 |
| 3 | 830-415 | O-RING 7x2-N, FPM 75 | 2 | \$6.69 |
| 4 | 832-950 | NEEDLE BEARING RNA 49/32 | 1 | CALL |
| 5 | 227-280 | THRUST WASHER | 2 | \$7.65 |
| 6 | 940-315 | COUNTERSUNK SCREW M5x12 | 2 | \$0.57 |
| 7 | 832-362 | BALL BEARING 16002. 15-32-8 | 1 | \$41.13 |
| 8 | 834-245 | VACUUM PUMP GEAR 22 T | 1 | \$211.87 |
| 9 | 941-521 | ALLEN SCREW M8x16 | 1 | \$1.26 |
| 10 | 232-925 | NEEDLE SLEEVE 22x28x12 | 1 | \$36.82 |
| 11 | 847-773 | DRIVE SLEEVE | 1 | \$359.30 |
| 12 | 847-802 | SPACER 25/31.95/13 | 1 | \$28.58 |
| 13 | 950-380 | O-RING 32x4-N FPM 75 | 1 | \$11.62 |
| 14 | 810-070 | GOVERNOR FLANGE | 1 | CALL |
| 15 | 941-611 | PLUG SCREW M8x1 | 2 | \$5.61 |
| 16 | 241-930 | ALLEN SCREW M6x20 | 4 | \$0.57 |
| 17 | 241-237 | ALLEN SCREW M6x16 | 2 | \$0.73 |
| 18 | 931-770 | GASKET - NON-CERTIFIED | 1 | \$12.98 |
| 19 | 926-231 | COVER - NON-CERTIFIED | 1 | \$118.28 |
| 20 | 250-315 | WASHER 8.4 - NON-CERTIFIED | 4 | \$0.41 |
| 21 | 240-072 | ALLEN SCREW M8x20 - NON-CERTIFIED | 4 | \$1.35 |
| 22 | 956-460 | PRESSURE OIL LINE ASSEMBLY | 1 | \$262.80 |
| 23 | 940-874 | BANJO BOLT M10x1x23 | 1 | \$13.99 |
| 24 | 230-150 | SEALING RING A 10x14 | 5 | \$1.09 |
| 25 | 940-873 | BANJO BOLT M10x1x34 | 1 | \$16.26 |
| 26 | 853-418 | CABLE CLAMP | 1 | \$23.43 |
| 27 | 944-131 | LOCK WASHER A8 | 1 | \$1.26 |
| 28 | 440-854 | HEX./TORX-FLANGE SCREW M8X16 | 1 | CALL |
| 29 | 840-711 | STUD M8X21/20 - NON-CERTIFIED | 4 | \$20.14 |
| 30 | 945-832 | LOCK WASHER A8 - NON-CERTIFIED | 4 | \$0.23 |
| 31 | 942-671 | HEX NUT M8 - NON-CERTIFIED | 4 | \$2.67 |
| 32 | 931-372 | GASKET - NON-CERTIFIED | 1 | \$186.77 |

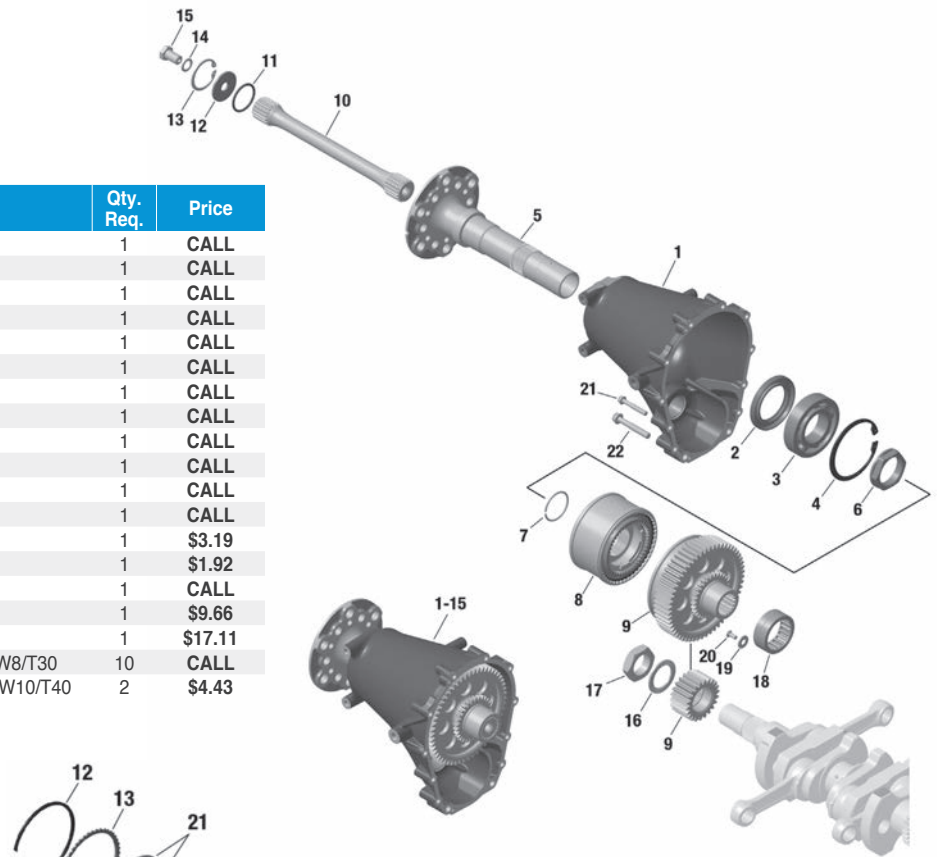
ENGINE SUSPENSION FRAME

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1 | 886-563 | ENGINE SUSPENSION FRAME ASSEMBLY | 1 | \$995.00 |
| 2 | 941-487 | ALLEN SCREW M10x110 | 1 | \$6.61 |
| 3 | 945-753 | LOCK WASHER A10 | 4 | \$0.31 |
| 4 | 840-948 | ALLEN SCREW M10x35 | 1 | \$4.63 |
| 5 | 927-952 | THRUST WASHER 10.1/20/0.5 | AR | \$4.78 |
| 5 | 927-953 | THRUST WASHER 10.1/20/1.0 | AR | \$4.90 |
| 6 | 847-841 | SPACER 10.5/17/15 | 2 | \$9.61 |
| 7 | 927-410 | WASHER 10.5 | 2 | \$0.57 |
| 8 | 650-572 | ALLEN SCREW M10x50 | 2 | CALL |
| 9-10 | 860-695 | SHOCK MOUNT SET - NON-CERTIFIED | 1 | \$772.00 |
| 9 | 944-240 | CUP WASHER - NON-CERTIFIED | 8 | \$59.75 |
| 10 | 860-690 | SHOCK-MOUNT - NON-CERTIFIED | 8 | \$107.61 |

RTX

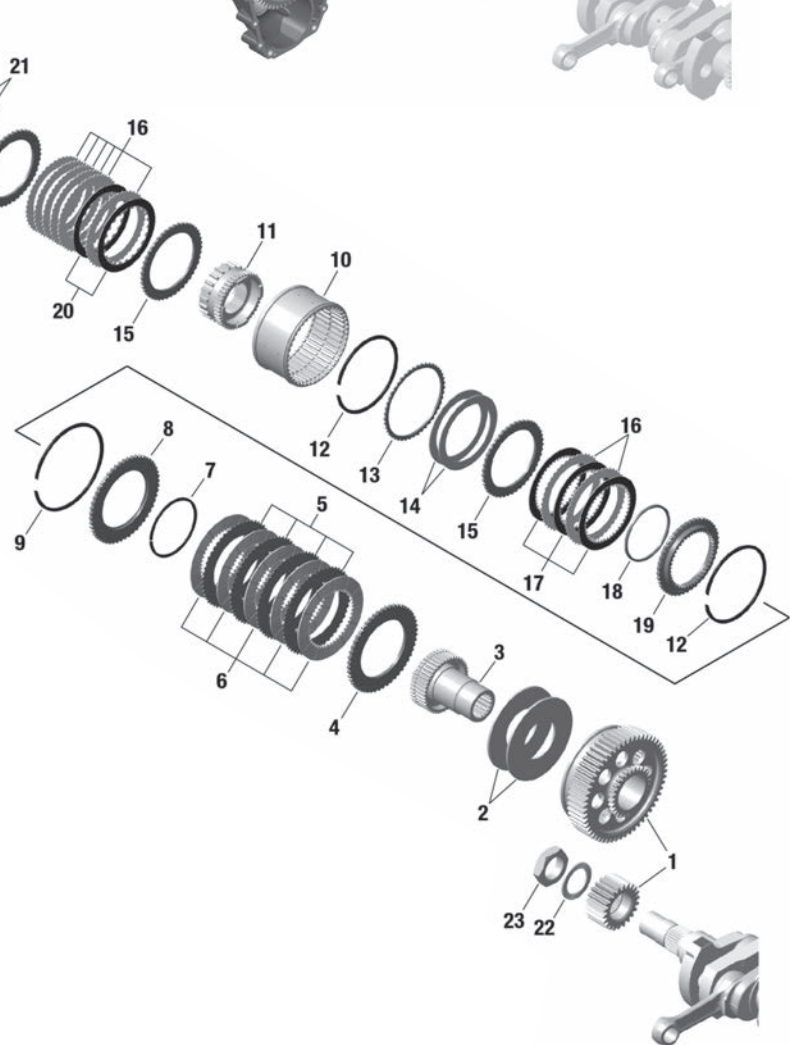
PROPELLER GEAR ASSEMBLY

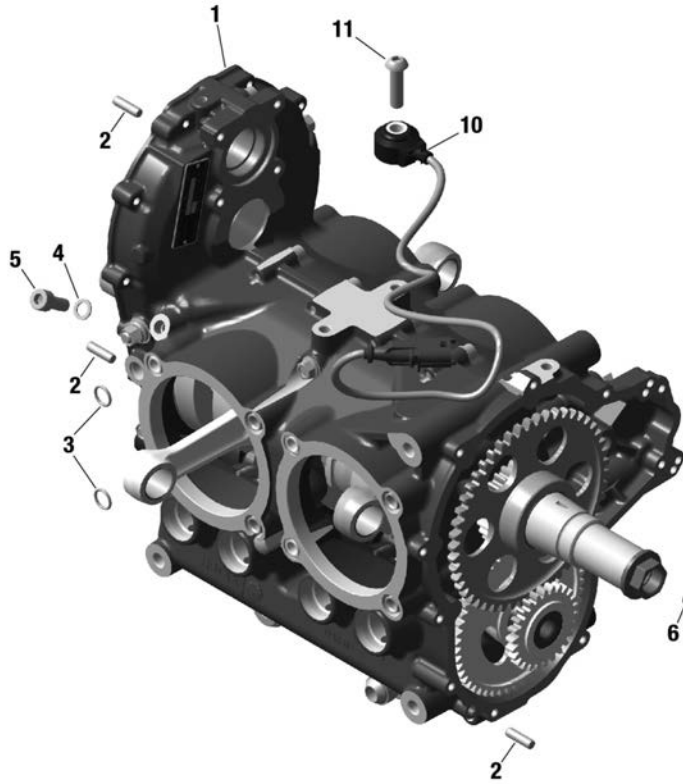
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---|-----------|---------|
| 1 | 911-985 | GEARBOX HOUSING ASSEMBLY | 1 | CALL |
| 2 | 950-091 | OIL SEAL AS 48x72x8 FKM | 1 | CALL |
| 3 | 832-060 | BALL BEARING 6208 TN9 C3 | 1 | CALL |
| 4 | 845-120 | RETAINING RING 80x2.85 | 1 | CALL |
| 5 | 837-221 | PROPELLER SHAFT | 1 | CALL |
| 6 | 942-320 | COLLAR NUT M40x1.5 LH | 1 | CALL |
| 7 | 245-935 | RETAINING RING A 38 | 1 | CALL |
| 8 | 958-418 | DAMPER CLUTCH ASSEMBLY | 1 | CALL |
| 9 | 958-412 | OVERLOAD CLUTCH ASSEMBLY 56 T | 1 | CALL |
| 10 | 837-200 | TORSION SHAFT | 1 | CALL |
| 11 | 230-915 | O-RING 33x3-N, FPM 75 | 1 | CALL |
| 12 | 827-470 | SEALING WASHER 40x12.1x2.5 | 1 | CALL |
| 13 | 945-880 | RETAINING RING 40x1.75 | 1 | \$3.19 |
| 14 | 250-640 | SEALING RING A12x18 | 1 | \$1.92 |
| 15 | 841-150 | HEX. SCREW M12x20 A2-70 | 1 | CALL |
| 16 | 845-431 | FRICTION WASHER VS30 | 1 | \$9.66 |
| 17 | 842-579 | HEX. NUT M30x1.5 12 MM, LH | 1 | \$17.11 |
| 21 | 440-282 | HEX. / TORX-FLANGE SCREW M6x40-SW8/T30 | 10 | CALL |
| 22 | 940-077 | HEX. / TORX-FLANGE SCREW M8x45-SW10/T40 | 2 | \$4.43 |



OVERLOAD CLUTCH

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|------------------------------|-----------|---------|
| 1-9 | 958-412 | OVERLOAD CLUTCH ASSEMBLY | 1 | CALL |
| 1 | 886-544 | GEAR SET | 1 | CALL |
| 2 | 938-092 | DISK SPRING 102x49x2.8 | 2 | CALL |
| 3 | 837-231 | INTERMEDIATE SHAFT | 1 | CALL |
| 4 | 958-400 | STEEL FRICTION PLATE 4.0 MM | 1 | CALL |
| 5 | 958-160 | STEEL FRICTION PLATE 1.0 MM | 4 | CALL |
| 6 | 958-174 | SINTER FRICTION PLATE 1.8 MM | 5 | CALL |
| 7 | 945-080 | CIRCLIP SW 68 | 1 | CALL |
| 8 | 958-402 | STEEL FRICTION PLATE 4.0 MM | 1 | CALL |
| 9 | 945-075 | CIRCLIP SB 105 | 1 | CALL |
| 10-21 | 958-418 | DAMPER CLUTCH ASSEMBLY | 1 | CALL |
| 10 | 958-042 | CLUTCH DRUM ASSEMBLY | 1 | CALL |
| 11 | 958-022 | CLUTCH HUB | 1 | CALL |
| 12 | 945-070 | CIRCLIP SB 93 | 3 | CALL |
| 13 | 927-021 | SUPPORT RING | 2 | CALL |
| 14 | 938-098 | DISK SPRING 91.5X71X1.5 | 2 | CALL |
| 15 | 959-420 | STEEL FRICTION PLATE 3.0 MM | 3 | CALL |
| 16 | 958-932 | STEEL FRICTION PLATE 1.0 MM | 8 | \$35.18 |
| 17 | 958-991 | FRICTION PLATE 1.54 MM | 3 | CALL |
| 18 | 847-895 | SPACER RING 69/64.1/3.0 | 1 | CALL |
| 19 | 958-103 | DRIVING COLLAR | 1 | CALL |
| 20 | 958-992 | FRICTION PLATE 1.54 MM | 2 | CALL |
| 21 | 938-099 | DISK SPRING 91.5X60X2.1 | 2 | CALL |
| 22 | 845-431 | FRICTION WASHER VS30 | 1 | \$9.66 |
| 23 | 842-579 | HEX. NUT M30x1.5 12 MM, LH | 1 | \$17.11 |

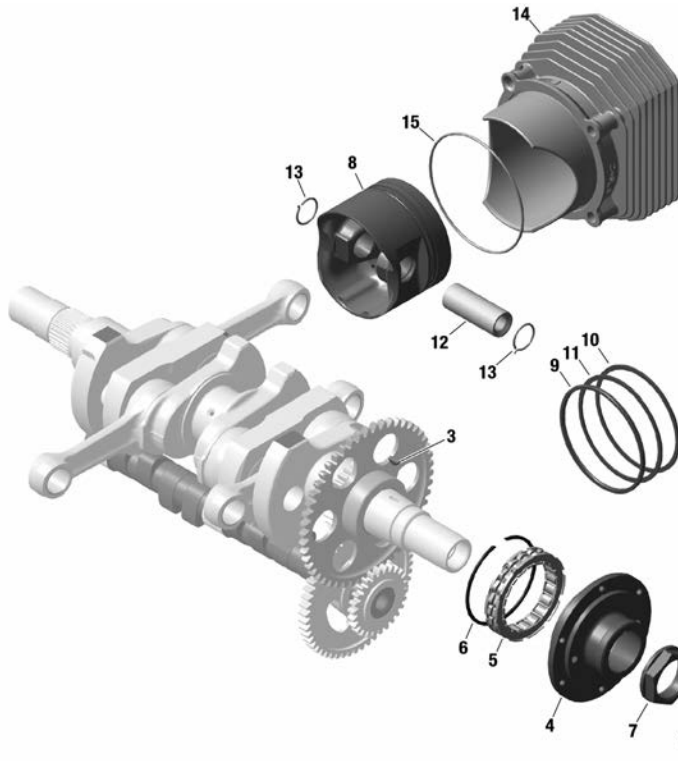




CRANKCASE

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|-----------|------------------------------|-----------|----------|
| 1 | 300091501 | ENGINE BLOCK | 1a | CALL |
| 2 | 429-230 | DOWEL 6x20 | 2 | \$2.50 |
| 3 | 431-570 | O-RING 10.82Xx1.78-N, FPM 70 | 8 | \$0.66 |
| 4 | 950-141 | SEALING RING A 8x13 | 1 | \$1.30 |
| 5 | 240-071 | ALLEN SCREW M8x20 | 1 | \$1.23 |
| 6 | 831-929 | O-RING 5x2 | 1 | \$4.54 |
| 10 | 866-270 | KNOCK SENSOR | 1 | \$259.90 |
| 11 | 570-661 | BINDING HEAD SCREW M8x30 | 1 | CALL |

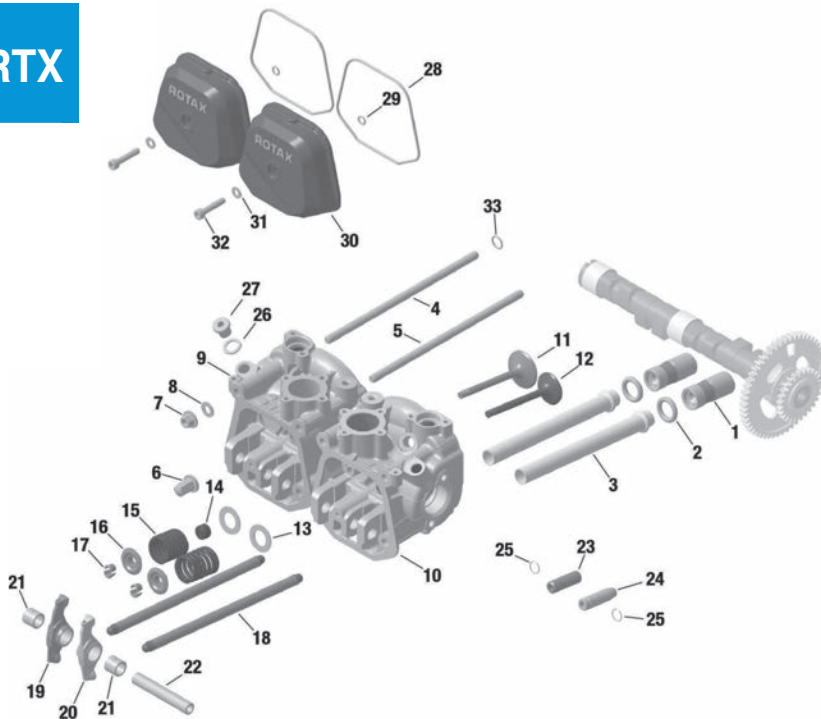
a with crankshaft, freewheel



CRANKSHAFT, PISTON, CYLINDER, SPRAG CLUTCH

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------|-----------|----------|
| 1 | 430-225 | O-RING 9X2,3-N, FPM 75 | 1 | \$8.71 |
| 2 | 940-526 | PLUG SCREW M20X1.5 | 1 | CALL |
| 3 | 246-055 | WOODRUFF KEY 3x3.7 | 1 | \$3.73 |
| 4 | 852-407 | SPRAG CLUTCH HOUSING | 1 | \$130.88 |
| 5 | 958-856 | SPRAG CLUTCH 51.710x68, 377x13 | 1 | \$312.00 |
| 6 | 845-425 | CIRCLIP 70 | 1 | \$7.60 |
| 7 | 942-250 | HEX. NUT M32x1.5 - LH | 1 | \$24.29 |
| 8 | 893-296 | PISTON ASSEMBLY 84/84.01 MM | 4 | CALL |
| 9 | 815-230 | OIL SCRAPER RING 84/76.5x3 | 4 | \$67.49 |
| 10 | 815-251 | RECTANGULAR RING 84/77x1.5 | 4 | \$82.75 |
| 11 | 815-280 | TAPERED COMPRESSION RING 84 | 4 | \$47.51 |
| 12 | 916-380 | PISTON PIN 20x12x51.3 | 4 | CALL |
| 13 | 845-106 | MONOHOOK CIRCLIP 20 | 8 | \$2.63 |
| 14 | 913-228 | CYLINDER | 4 | CALL |
| 15 | 250-510 | O-RING 87x2-N, FPM 75 | 4 | \$26.49 |

RTX



CAMSHAFT, VALVE TRAIN, CYLINDER HEAD, VALVE COVER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------------|-----------|----------|
| 1 | 881-832 | HYDRAULIC VALVE TAPPET SET | 8 | \$422.10 |
| 2 | 850-930 | O-RING 16x5 | 8 | \$8.79 |
| 3 | 924-440 | OIL RETURN TUBE | 8 | \$39.54 |
| 4 | 840-171 | STUD M8x200 | 8 | \$9.73 |
| 5 | 840-141 | STUD M8x186 | 8 | \$9.73 |
| 6 | 842-476 | COLLAR CAP NUT M8 | 8 | \$21.34 |
| 7 | 942-302 | COLLAR NUT M8 | 8 | \$3.70 |
| 8 | 250-311 | WASHER 8.4 | 8 | \$0.41 |
| 9 | 623-777 | CYLINDER HEAD 2/3 ASSEMBLY | 2 | CALL |
| 10 | 623-787 | CYLINDER HEAD 1/4 ASSEMBLY | 2 | CALL |
| 11 | 854-101 | INTAKE VALVE 38 MM | 4 | \$187.82 |
| 12 | 854-113 | EXHAUST VALVE 32 MM | 4 | CALL |
| 13 | 926-210 | SHIM 16/27.4/1 | 8 | \$3.73 |
| 14 | 230-810 | VALVE STEM SEAL | 4 | \$10.04 |
| 15 | 838-156 | VALVE SPRING | 8 | \$28.42 |
| 16 | 854-186 | VALVE SPRING RETAINER | 8 | \$24.57 |
| 17 | 253-092 | VALVE COTTER | 16 | \$3.74 |
| 18 | 854-861 | VALVE PUSH-ROD ASSEMBLY | 8 | \$171.80 |
| 19 | 854-383 | ROCKER ARM LEFT | 4 | \$301.40 |
| 20 | 854-393 | ROCKER ARM RIGHT | 4 | \$301.40 |
| 21 | 933-396 | BUSHING | 8 | \$52.06 |
| 22 | 854-193 | ROCKER ARM SHAFT | 4 | \$40.77 |
| 23 | 854-225 | VALVE GUIDE | 4 | CALL |
| 24 | 253-114 | INLET VALVE GUIDE | 4 | \$27.25 |
| 25 | 245-440 | RETAINING RING A12 | 8 | \$0.57 |
| 26 | 250-015 | SEALING RING A12x18 | 3 | \$0.35 |
| 27 | 841-923 | PLUG SCREW M12x1.5 | 3 | \$7.81 |
| 28 | 250-285 | O-RING 105x2.5 | 4 | \$29.31 |
| 29 | 430-205 | O-RING 6.4x1.8 | 4 | \$4.99 |
| 30 | 612-265 | VALVE COVER SKY BLUE | 4 | CALL |
| 31 | 927-941 | WASHER 6.0/12/1 | 4 | \$0.69 |
| 32 | 840-887 | ALLEN SCREW ISO 4762 M6x30 10.9 | 4 | \$0.69 |
| 33 | 431-570 | O-RING 10.82x1.78-N, FPM 70 | 8 | \$0.66 |

INTAKE MANIFOLD, AIRBOX, THROTTLE BODY SOCKET

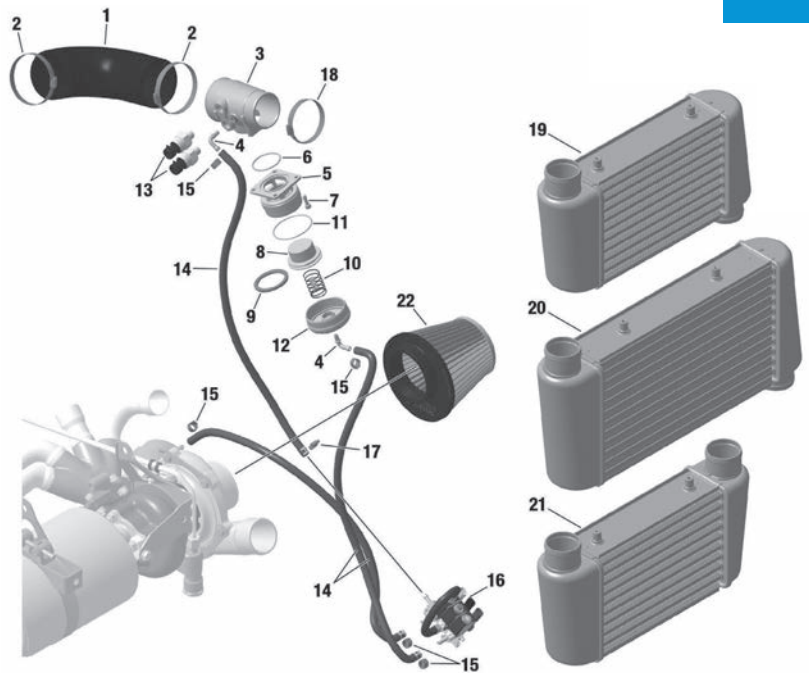
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------------|-----------|----------|
| 1 | 667-401 | INTAKE MANIFOLD 1/3 | 1 | CALL |
| 2 | 667-406 | INTAKE MANIFOLD 2/4 | 1 | CALL |
| 3 | 850-091 | ISOLATING FLANGE | 2 | \$6.53 |
| 4 | 440-207 | HEX./TORX-FLANGE SCREW M6x20-SW8/T30 | 8 | \$0.90 |
| 5 | 460-421 | CONNECTING SOCKET | 2 | CALL |
| 6 | 953-093 | 1-EAR-CLAMP 66.3-69.5 MM | 4 | CALL |
| 7 | 667-411 | AIRBOX | 1 | CALL |
| 8 | 440-164 | HEX./TORX-FLANGE SCREW M6x16-SW8/T30 | 5 | CALL |
| 9 | 840-672 | HOSE NIPPLE M6 | 1 | CALL |
| 10 | 860-700 | RUBBER 20x10xM6 | 1 | \$23.11 |
| 11 | 827-968 | WASHER 6.4 | 1 | \$0.35 |
| 12 | 842-042 | LOCK NUT M6 | 1 | \$2.66 |
| 13 | 850-020 | RUBBER RING | 1 | \$3.43 |
| 14 | 685-055 | THROTTLE BODY SOCKET ASSEMBLY | 1 | \$399.00 |
| 15 | 953-020 | SEPARATING PLATE | 3 | \$1.78 |
| 16 | 651-780 | CONNECTOR BRACKET | 1 | CALL |
| 17 | 250-015 | SEALING RING A12x18 | 2 | \$0.35 |
| 18 | 222-421 | TEMPERATURE SENSOR | 2 | \$33.15 |
| 19 | 664-364 | PRESSURE SENSOR 2.0 | 2 | \$309.41 |
| 20 | 638-140 | CLIP | 2 | CALL |
| 21 | 951-563 | CONNECTOR BRACKET | 1 | CALL |
| 22 | 874-654 | PRESSURE-/TEMP. SENSOR | 2a | \$286.10 |
| 23 | 850-610 | CONNECTOR GASKET | 2 | CALL |
| 24 | 481-485 | GOVERNOR CABLE KIT - NON-CERTIFIED | | CALL |

a Ambient pressure and temperature



INTERCOOLER, WASTEGATE

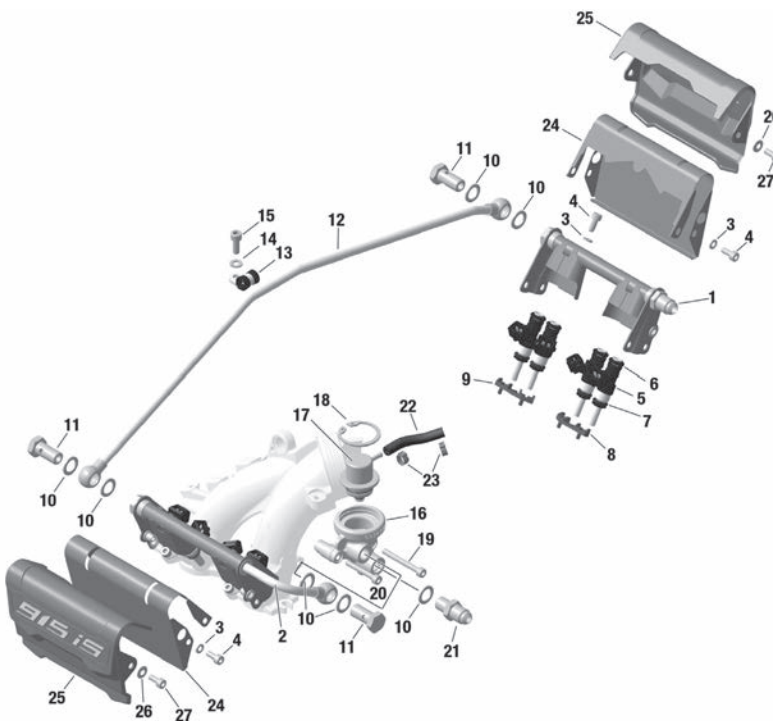
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1 | 201-017 | AIR INTAKE HOSE | 1 | CALL |
| 2 | 951-791 | CLAMP 50-70 | 2 | \$9.34 |
| 3 | 947-781 | REDUCTION SLEEVE | 1 | CALL |
| 4 | 924-623 | IMPULSE ELBOW | 2 | CALL |
| 5 | 812-382 | VALVE HOUSING | 1 | CALL |
| 6 | 431-740 | O-RING 38x2.4-N, VITON GLT 70 | 1 | CALL |
| 7 | 840-511 | ALLEN SCREW M5x16 | 4 | \$0.48 |
| 8 | 667-194 | VALVE PISTON | 1 | CALL |
| 9 | 950-932 | SEALING RING PTFE | 1 | CALL |
| 10 | 838-372 | COMPRESSION SPRING DM22 D1.5 L65 | 1 | CALL |
| 11 | 450-390 | O-RING 54x2-N, FPM | 1 | CALL |
| 12 | 812-391 | VALVE COVER | 1 | CALL |
| 13 | 664-364 | PRESSURE SENSOR 2.0 | 2 | \$309.41 |
| 14 | 874-333 | FUEL HOSE 6x11 | 3 | CALL |
| 15 | 851-468 | CLAMP 10.3 – 12.8 | 5 | CALL |
| 16 | 664-638 | SOLENOID VALVE | 1 | CALL |
| 17 | 951-898 | CLAMP 8 – 11 | 1 | \$8.64 |
| 18 | 853-381 | CLAMP 40-60 | 4 | CALL |
| 19 | 888-962 | INTERCOOLER | 1a | \$626.40 |
| 20 | 888-963 | INTERCOOLER - NON-CERTIFIED | 1 | \$696.14 |
| 21 | 888-965 | INTERCOOLER - NON-CERTIFIED | 1 | \$580.10 |
| 22 | 825-900 | AIRFILTER - NON-CERTIFIED | 1 | CALL |



a standard, see Installation Manual

FUEL INJECTOR, FUEL RAIL, PRESSURE REGULATOR, FUEL RAIL COVER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1 | 874-795 | FUEL RAIL 1/3 (RIGHT) | 1 | \$329.83 |
| 2 | 874-797 | FUEL RAIL 2/4 (LEFT) | 1 | CALL |
| 3 | 945-750 | LOCK WASHER A5 | 1 | \$0.14 |
| 4 | 640-541 | ALLEN SCREW M5x12 | 1 | \$0.35 |
| 5-7 | 874-780 | FUEL INJECTOR | 8 | \$181.29 |
| 6 | 831-060 | O-RING 7.52x3.51 | 8 | \$11.19 |
| 7 | 831-050 | O-RING 8.54x3.1 VITON B70 | 8 | \$6.50 |
| 8 | 860-042 | DAMPER LEFT | 2 | \$3.43 |
| 9 | 860-040 | DAMPER RIGHT | 2 | \$3.43 |
| 10 | 250-640 | SEALING RING A 12x18-CU | 7 | \$1.92 |
| 11 | 641-540 | BANJO BOLT | 3 | \$22.05 |
| 12 | 874-802 | FUEL LINE ASSEMBLY | 1 | CALL |
| 13 | 853-412 | CABLE CLAMP | 1 | \$5.69 |
| 14 | 945-751 | LOCK WASHER A6 | 1 | \$0.21 |
| 15 | 241-239 | ALLEN SCREW M6x16 | 1 | \$3.43 |
| 16 | 874-770 | PRESSURE REGULATOR HOUSING | 1 | \$98.27 |
| 17 | 889-262 | FUEL PRESSURE REGULATOR ASSEMBLY | 1 | \$337.45 |
| 18 | 845-650 | RETAINING RING 36x1.5 | 1 | \$1.78 |
| 19 | 941-791 | ALLEN SCREW M5x45 | 1 | \$1.08 |
| 20 | 841-501 | ALLEN SCREW M5x35 | 1 | \$0.81 |
| 21 | 840-700 | ADAPTER 9/16 UNF/M12x1.5 | 1 | \$65.99 |
| 22 | 960-631 | TUBE 60 +/-3 MM | 1 | \$6.90 |
| 23 | 853-653 | 1-EAR-CLAMP | 2 | CALL |
| 24 | 975-090 | HEAT SHIELD | 2 | \$7.92 |
| 25 | 975-065 | COVERING FUEL RAIL | 2 | CALL |
| 26 | 939-445 | SPRING WASHER 12x5.2x0.5 | 4 | CALL |
| 27 | 640-541 | ALLEN SCREW M5x12 | 4 | \$0.35 |

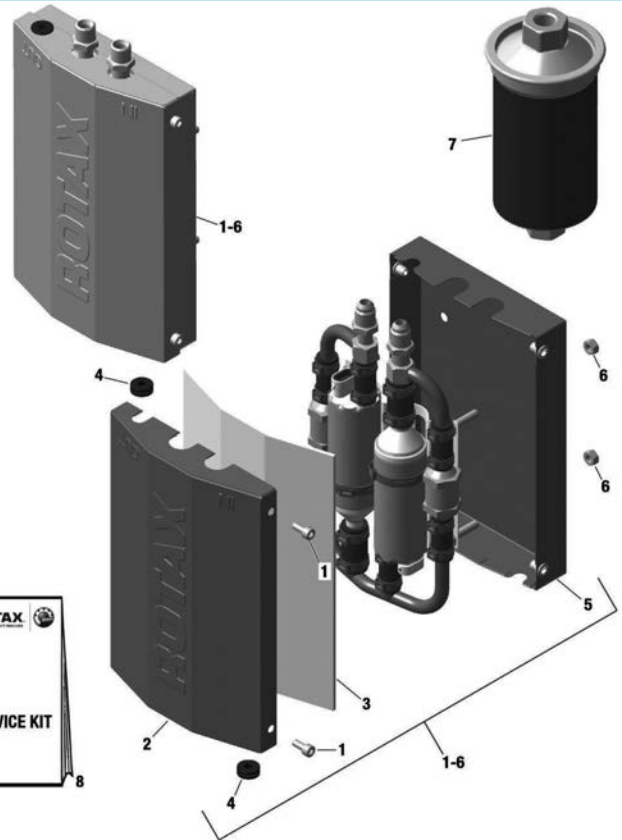
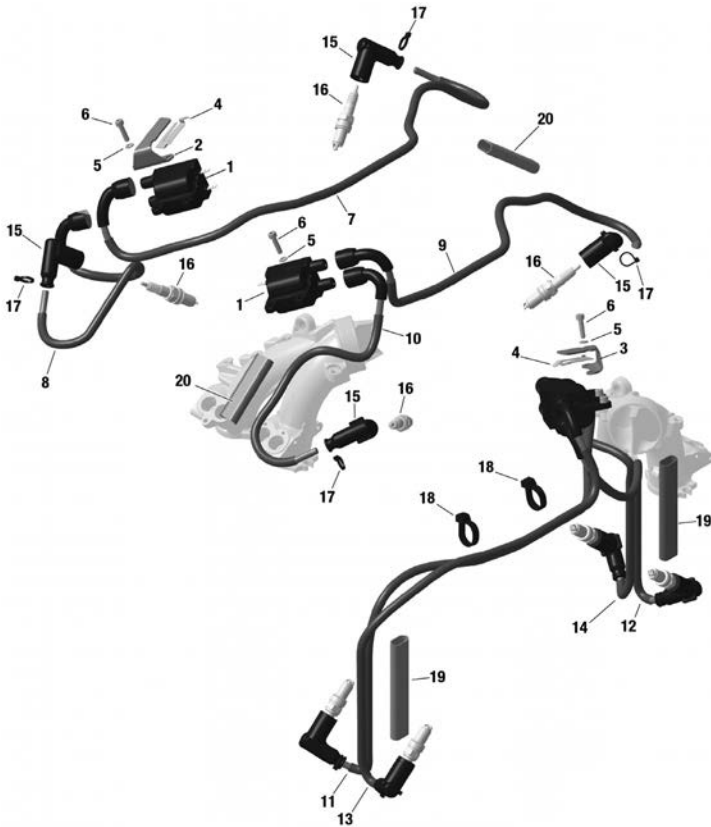


RTX

FUEL PUMP ASSEMBLY - NON-CERTIFIED

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------|-----------|------------|
| 1-6 | 889-696 | FUEL PUMP ASSEMBLY UNF | 1a | \$1,415.66 |
| 1-6 | 889-698 | FUEL PUMP ASSEMBLY METRIC | 1b | \$1,563.00 |
| 1 | 640-542 | ALLEN SCREW M5x12 | 4 | \$0.35 |
| 2 | 911-790 | COVER | 1 | \$65.67 |
| 3 | 975-055 | HEAT PROTECTION MAT | 1 | \$13.18 |
| 4 | 201-160 | RUBBER GROMMET | 2 | \$3.43 |
| 5 | 911-700 | HOUSING | 1 | \$69.49 |
| 6 | 242-213 | HEX. NUT M6 | 8 | \$1.58 |
| 7 | 874-060 | FUEL FILTER | 1 | \$53.42 |
| 8 | 889-537 | SERVICE KIT | 1 | CALL |

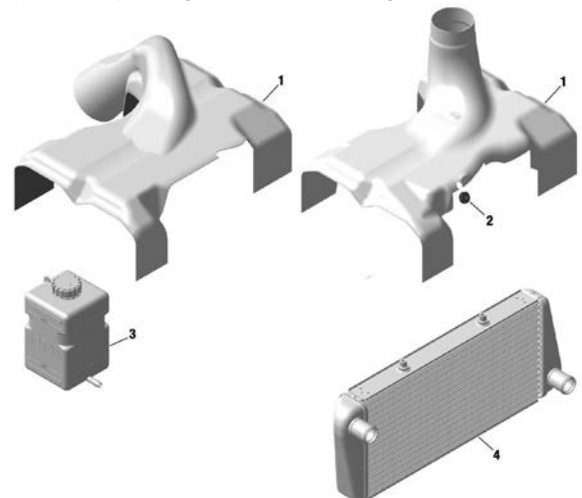
a Thread 9/16 18 UNF
b Thread M14x1.5



IGNITION COILS, IGNITION CABLE, SPARK PLUG CONNECTOR, SPARK PLUG

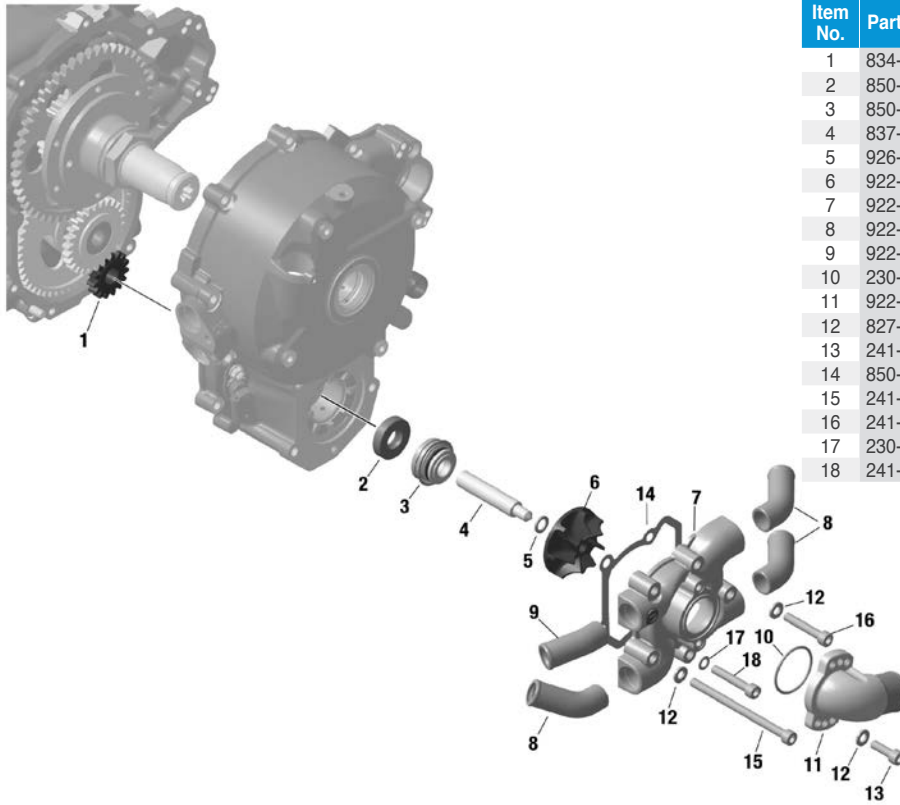
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------------|-----------|----------|
| 1 | 665-613 | DOUBLE IGNITION COIL | 4 | \$339.00 |
| 2 | 951-497 | CONNECTOR BRACKET | 1 | CALL |
| 3 | 951-496 | CONNECTOR BRACKET | 1 | CALL |
| 4 | 251-685 | SPRING HOOK | 2 | CALL |
| 5 | 945-750 | LOCK WASHER A5 | 8 | \$0.14 |
| 6 | 441-341 | ALLEN SCREW M5x20 | 8 | \$0.48 |
| 7-14 | 665-558 | IGNITION CABLE SET | 1a | \$230.08 |
| 15 | 265-249 | SPARK PLUG CONNECTOR | 8 | \$41.50 |
| 16 | 297-656 | SPARK PLUG | 8 | \$21.95 |
| 17 | 866-718 | TIE WRAP 94x2.5 MM | 8 | \$0.35 |
| 18 | 866-716 | TIE WRAP 203x7.6 MM | 2 | \$0.66 |
| 19 | 860-734 | GLASS FIBER-SILICON SHEATHING 120 | 2 | \$8.35 |
| 20 | 860-736 | GLASS FIBER-SILICON SHEATHING 75 | 2 | CALL |

a Set for double ignition coil with high tension connector rettich thread included: 8 ignition cable assy., 8 protective cap and 8 glass fiber-silicon sheathing.



COOLING AIR BAFFLE

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--|-----------|----------|
| 1 | 975-795 | COOLING AIR BAFFLE, TRACTOR WHITE | (1) | \$614.86 |
| 1 | 975-799 | COOLING AIR BAFFLE, TRACTOR BLACK | (1) | CALL |
| 1-2 | 975-792 | COOLING AIR BAFFLE, PUSHER WHITE - NON-CERTIFIED | (1) | CALL |
| 1-2 | 975-798 | COOLING AIR BAFFLE, PUSHER BLACK - NON-CERTIFIED | (1) | CALL |
| 2 | 201-160 | RUBBER GROMMET | (1) | \$3.43 |
| 3 | 922-327 | OVERFLOW BOTTLE WITH CAP | 1 | \$53.40 |
| 4 | 997-086 | RADIATOR - NON-CERTIFIED | 1 | CALL |



WATER PUMP WITH DRIVE

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------|-----------|----------|
| 1 | 834-135 | WATER PUMP GEAR 15 T | 1 | \$96.42 |
| 2 | 850-977 | OIL SEAL A 12x30x7 FPM | 1 | \$35.71 |
| 3 | 850-946 | ROTARY SEAL | 1 | \$93.32 |
| 4 | 837-111 | PUMP SHAFT | 1 | \$86.58 |
| 5 | 926-274 | WASHER 8.2/12.5/1.5 | 1 | \$12.03 |
| 6 | 922-224 | IMPELLER | 1 | \$91.45 |
| 7 | 922-202 | WATER PUMP HOUSING | 1 | \$399.90 |
| 8 | 922-233 | BENT SOCKET 45° | 3 | \$17.84 |
| 9 | 922-234 | BENT SOCKET 20° | 1 | \$11.50 |
| 10 | 230-020 | O-RING 32x2 | 10 | \$9.93 |
| 11 | 922-218 | WATER INLET ELBOW | 1 | \$350.57 |
| 12 | 827-961 | WASHER 6.4 DIN 125 | 6 | \$0.31 |
| 13 | 241-930 | ALLEN SCREW M6x20 DIN 912 | 2 | \$0.57 |
| 14 | 850-981 | GASKET | 1 | \$12.27 |
| 15 | 241-481 | ALLEN SCREW M6X90 | 2 | \$2.40 |
| 16 | 241-811 | ALLEN SCREW M6x35 ISO 4762-8.8 | 2 | \$0.57 |
| 17 | 230-415 | SEALING RING A 6x10 DIN 7603 | 1 | \$1.40 |
| 18 | 241-813 | ALLEN SCREW M6x35, STAINLESS | 1 | \$1.45 |

RTX

EXPANSION TANK WITH HOSES AND CONNECTIONS

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---|-----------|----------|
| 1 | 950-180 | O-RING 19-2 | 4 | \$13.46 |
| 2 | 922-303 | FLANGE | 4 | \$56.43 |
| 3 | 440-162 | HEX./TORX-FLANGE SCREW M6X16-SW8/T30 | 8 | CALL |
| 4 | 922-231 | BENT SOCKET 80° | 8 | \$17.84 |
| 5 | 851-645 | CLAMP 25 | 16 | \$7.14 |
| 6 | 822-422 | FORM HOSE 1 | (1a) | CALL |
| 6 | 822-420 | FORM HOSE 1 | 1b | \$23.39 |
| 7 | 822-432 | FORM HOSE 2 | (1a) | CALL |
| 7 | 822-430 | FORM HOSE 2 | 1b | \$5.23 |
| 8 | 822-442 | FORM HOSE 3 | (1a) | CALL |
| 8 | 822-440 | FORM HOSE 3 | 1b | \$22.65 |
| 9 | 822-447 | FORM HOSE 4 | (1a) | CALL |
| 9 | 822-445 | FORM HOSE 4 | 1b | \$11.19 |
| 10 | 822-450 | FORM HOSE | (1a) | \$69.95 |
| 10 | 822-452 | FORM HOSE | 1b | CALL |
| 11 | 951-350 | CLAMP 35 | 1 | \$4.83 |
| 12 | 922-366 | WATER TUBE 180 +/-3 MM | (2a) | CALL |
| 12 | 922-360 | WATER TUBE 180 +/-3 MM | 2b | CALL |
| 13 | 922-367 | WATER TUBE 280 +/-3 MM | (2a) | CALL |
| 13 | 922-362 | WATER TUBE 280 +/-3 MM | 2b | \$61.02 |
| 14 | 965-537 | TEMPERATURE SENSOR | 1 | \$182.07 |
| 15-18 | 922-664 | EXPANSION TANK ASSEMBLY | 1 | CALL |
| 16 | 922-072 | RADIATOR CAP WITH GASKET 1.2 BAR/17.4 PSI | 1 | \$82.46 |
| 17 | 860-827 | RUBBER PLATE | 1 | \$15.58 |
| 18 | 897-506 | WARNING LABEL | 2 | \$5.69 |
| 19 | 860-650 | PROTECTION TUBE | 2 | \$222.81 |

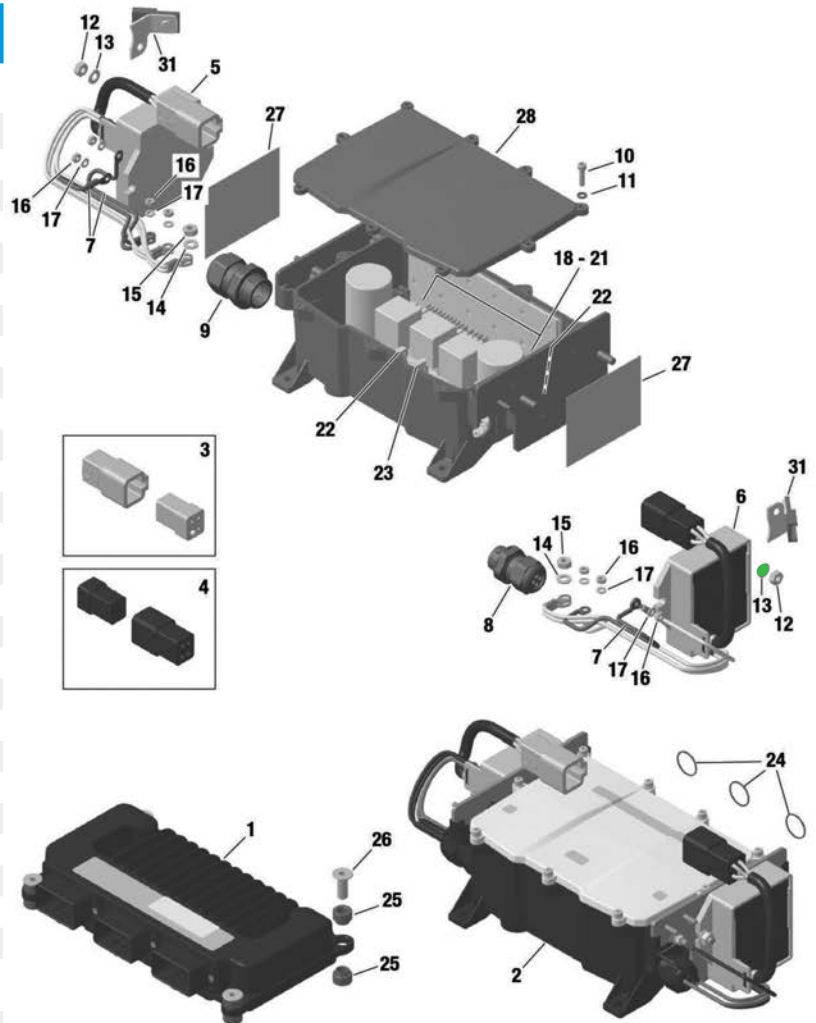
a Silicon
b Standard EPDM, change every 5 years



ENGINE CONTROL UNIT, FUSE BOX, REGULATOR

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--|-----------|------------|
| 1 | 881-254 | ENGINE CONTROL UNIT ASSEMBLY (864-352 + packaging) | 1 | CALL |
| 2 | 881-321 | FUSE BOX WRAPPED UP (665-646 inclusive) | 1 | \$2,936.13 |
| 3 | 866-422 | CONNECTOR SET GREY | 1a | \$105.26 |
| 4 | 866-420 | CONNECTOR SET BLACK | 1a | \$120.29 |
| 5 | 864-395 | REGULATOR B-CONNECTOR GREY | 1 | CALL |
| 6 | 864-392 | REGULATOR A-CONNECTOR BLACK | 1 | \$353.00 |
| 7 | 866-440 | MASS CABLE ASSEMBLY | 3 | \$11.64 |
| 8 | 201-370 | SKINTOP CLICK 20 | 1 | \$13.51 |
| 9 | 201-375 | SKINTOP CLICK 25 | 1 | \$13.51 |
| 10 | 840-763 | ALLEN SCREW M4x16 ISO 4762-A2-70 | 9 | \$44.30 |
| 11 | 827-230 | PLASTIC WASHER M4 | 9 | \$91.12 |
| 12 | 842-042 | LOCK NUT M6 | 4 | \$2.66 |
| 13 | 244-213 | WASHER 6.4 | 2 | \$1.00 |
| 14 | 927-573 | WASHER 5.3 | 2 | \$0.35 |
| 15 | 842-033 | LOCK NUT M5 | 2 | \$0.35 |
| 16 | 242-538 | LOCK NUT M4-A2 | 7 | \$0.35 |
| 17 | 244-078 | WASHER 4.3 | 7 | \$7.35 |
| 18 | 866-450 | MINI-FUSE 2A | 2 | \$3.43 |
| 19 | 866-452 | MINI-FUSE 5A | 1 | \$3.43 |
| 20 | 866-454 | MINI-FUSE 7.5A | 2 | \$3.43 |
| 21 | 866-456 | MINI-FUSE 10A | 7 | \$3.43 |
| 22 | 866-490 | ATO-FUSE 20A | 1 | \$3.43 |
| 23 | 866-492 | ATO-FUSE 35A | 1 | \$3.43 |
| 24 | 931-110 | SEALING RING | 3 | \$13.44 |
| 25 | 201-460 | RUBBER SLEEVE | 8 | CALL |
| 26 | 947-540 | SPACER | 4 | CALL |
| 27 | 282-870 | HEAT TRANSFER PAD 65x80x0.5 MM | 2 | \$22.84 |
| 28 | 201-690 | COVER, FUSE BOX | 1 | \$150.74 |
| 31 | 951-983 | CONNECTOR BRACKET ASSEMBLY - NON-CERTIFIED | 2 | CALL |
| 32-37 | 881-555 | NUT SET FUSE BOX | 1 | CALL |
| 33 | 242-538 | LOCK NUT M4 | 3 | \$0.35 |
| 34 | 244-078 | WASHER 4.3 | 6 | \$7.35 |
| 35 | 842-042 | LOCK NUT M6 | 3 | \$2.66 |
| 36 | 244-219 | WASHER 6.2/14/3 | 6 | CALL |
| 37 | 931-110 | SEALING RING | 3 | \$13.44 |

a Connector set consisting of all parts for regulator and stator side.

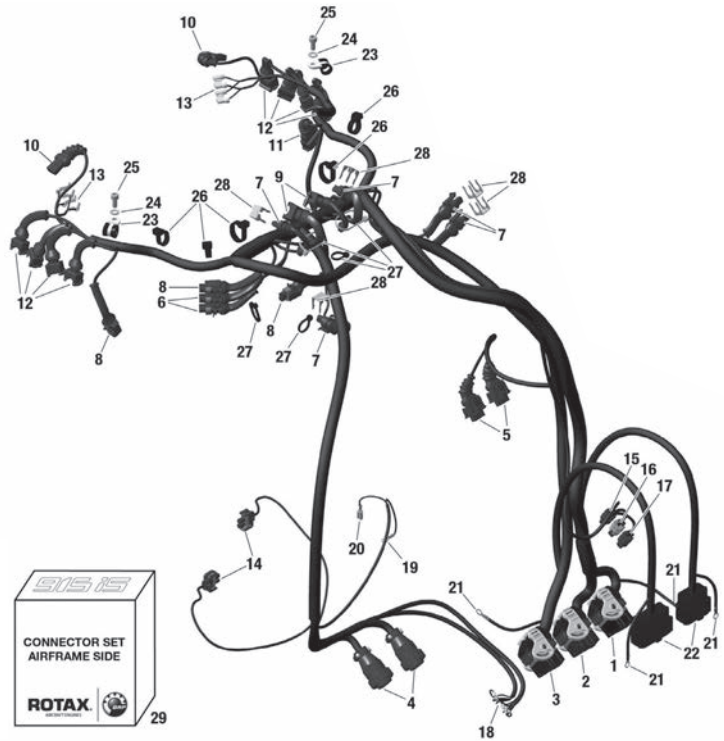


915 iS ENGINE

WIRING HARNESS

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------------|-----------|----------|
| 1-21 | 665-577 | WIRING HARNESS | 1 | CALL |
| 4 | 881-312 | FUSE BOX CONNECTOR | 2 | \$181.01 |
| 5 | 881-306 | AAPTS CONNECTOR | 2 | \$49.85 |
| 6 | 881-298 | CPS CONNECTOR | 2 | \$47.99 |
| 7 | 881-302 | OPS, BPS AND MAPS CONNECTOR | 3+2a | \$40.65 |
| 8 | 881-296 | CTS A OTS A KNOCK CONNECTOR | 3 | \$39.84 |
| 9 | 881-292 | MATS CONNECTOR | 2 | \$35.37 |
| 10 | 481-455 | EGT CONNECTOR | 2 | CALL |
| 11 | 881-308 | TPS CONNECTOR | 1 | \$33.60 |
| 12 | 881-300 | INJ CONNECTOR | 8 | \$35.37 |
| 13 | 881-310 | IGNITION COIL CONNECTOR | 1 | \$25.34 |
| 14 | 881-304 | FUEL PUMP CONNECTOR | 2 | \$135.49 |
| 15 | 481-452 | CONNECTOR PCV A | 1 | CALL |
| 16 | 481-453 | CONNECTOR PCV B | 1 | CALL |
| 17 | 481-454 | CONNECTOR PCV C | 1 | CALL |
| 19 | 964-059 | CABLE SHOE M6 | 1 | \$1.23 |
| 20 | 864-011 | FASTON CONNECTOR 6.3x0.8 | 1 | \$1.23 |
| 21 | 966-057 | RING TERMINAL | 4 | CALL |
| 22 | 881-294 | CONNECTOR SET HIC A + HIC B | 1 | \$191.16 |
| 23 | 251-691 | CABLE CLAMP 12/M6 | 2 | \$3.43 |
| 24 | 827-961 | WASHER 6.4 | 2 | \$0.31 |
| 25 | 840-391 | ALLEN SCREW M6x14 | 2 | \$1.00 |
| 26 | 866-716 | TIE WRAP 203x7.6 MM | 5 | \$0.66 |
| 27 | 866-714 | TIE WRAP 142x3.2 MM | 5 | \$0.35 |
| 28 | 638-140 | CLAMP | 5 | CALL |
| 29 | 881-240 | CONNECTOR SET HIC - NON-CERTIFIED | 1b | \$194.12 |

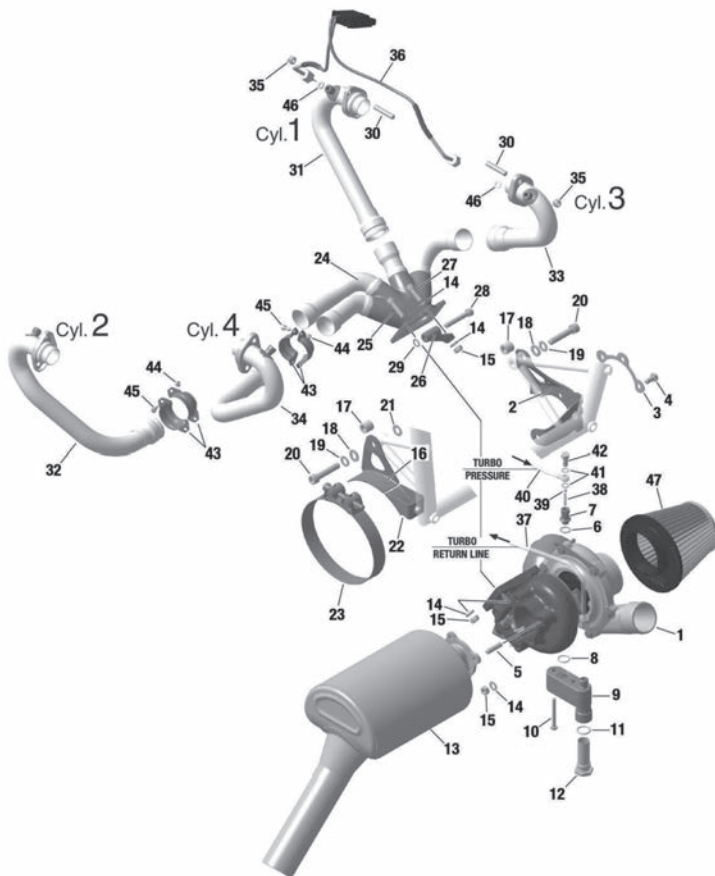
a for OPS, MAPS and BPS.
b HIC A, HIC B and FUSE BOX 3-pole.



RTX

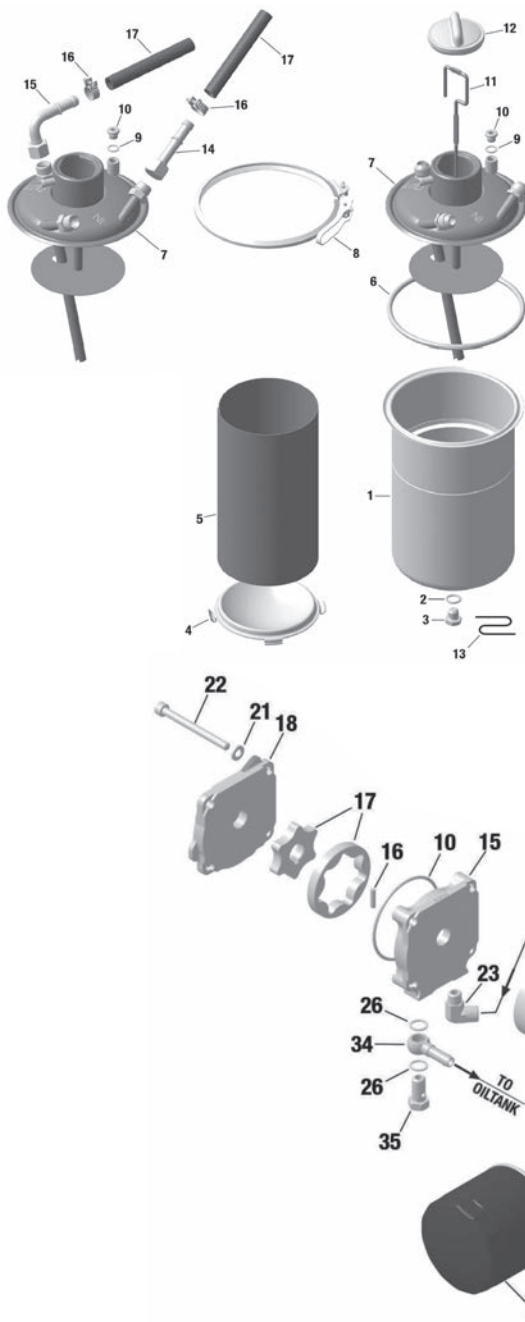
EXHAUST SYSTEM, EXHAUST TEMPERATURE SENSOR

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---|-----------|---------|
| 1 | 893-105 | TURBOCHARGER ASSEMBLY | 1 | CALL |
| 2 | 851-296 | TURBOCHARGER BRACKET | 1 | CALL |
| 3 | 851-305 | REINFORCEMENT SHEET | 1 | CALL |
| 4 | 940-583 | HEX. SCREW M8x16 STAINLESS STEEL | 3 | \$3.19 |
| 5 | 940-173 | STUD M8x19.5/13 | 5 | \$7.05 |
| 6 | 250-640 | SEALING RING A 12x18-CU | 1 | \$1.92 |
| 7 | 956-489 | VALVE HOUSING | 1 | CALL |
| 8 | 430-225 | O-RING 15.9-2.3 | 1 | \$8.71 |
| 9 | 656-770 | OIL SUMP ASSEMBLY | 1 | CALL |
| 10 | 640-601 | ALLEN SCREW M6x50 | 2 | \$6.92 |
| 11 | 250-055 | O-RING 18x2.5-N, FPM 75 | 1 | \$1.78 |
| 12 | 640-860 | PLUG SCREW ASSEMBLY M22x1.5 | 1 | CALL |
| 13 | 979-475 | MUFFLER ASSEMBLY | 1 | CALL |
| 14 | 250-313 | WASHER 8.4 STAINLESS STEEL | 11 | \$1.23 |
| 15 | 242-203 | HEX. NUT M8 STAINLESS STEEL | 9 | \$1.69 |
| 16 | 851-680 | EXHAUST BRACKET | 1 | CALL |
| 22 | 851-682 | EXHAUST BRACKET | 1 | CALL |
| 23 | 851-445 | CLAMP 74-79 | 1 | CALL |
| 24 | 979-561 | EXHAUST MANIFOLD ASSEMBLY | 1 | CALL |
| 25 | 840-993 | ALLEN SCREW M8x30 | 4 | CALL |
| 26 | 953-306 | MANIFOLD BRACKET ASSEMBLY | 1 | CALL |
| 27 | 240-073 | ALLEN SCREW M8x20 | 1 | \$1.61 |
| 28 | 440-107 | ALLEN SCREW M8x50 | 1 | \$1.99 |
| 29 | 926-400 | WASHER 8.4/15/0.5 | AR | \$3.17 |
| 29 | 926-401 | WASHER 8.4/15/1 | AR | \$3.37 |
| 29 | 926-402 | WASHER 8.4/15/1.5 | AR | \$3.61 |
| 30 | 940-366 | STUD M8x23/20 | 8 | \$6.50 |
| 31 | 979-501 | EXHAUST PIPE ASSEMBLY CYLINDER 1 | 1 | CALL |
| 32 | 979-511 | EXHAUST PIPE ASSEMBLY CYLINDER 2 | 1 | CALL |
| 33 | 979-521 | EXHAUST PIPE ASSEMBLY CYLINDER 3 | 1 | CALL |
| 34 | 979-531 | EXHAUST PIPE ASSEMBLY CYLINDER 4 | 1 | CALL |
| 35 | 842-951 | LOCK NUT M8-SW12 | 8 | CALL |
| 36 | 866-262 | TEMPERATURE SENSOR | 2 | CALL |
| 38 | 239-131 | COMPRESSION SPRING 22.0 | 1 | \$5.33 |
| 39 | 232-440 | BALL 5.556 MM | 1 | \$0.66 |
| 41 | 950-141 | SEALING RING A 8x13 | 2 | \$1.30 |
| 42 | 840-730 | BANJO BOLT M8x1x17 | 1 | \$53.95 |
| 43 | 979-570 | EXHAUST PIPE CLAMP (Cylinder 2 and 4) | 4 | CALL |
| 44 | 901-442 | HEX. NUT ISO 7042 - M5 - A2 (Cylinder 2 and 4) | 4 | CALL |
| 45 | 240-153 | ALLEN SCREW M5X10 ISO 4762-A2-70 (Cyl. 2 and 4) | 4 | CALL |
| 46 | 244-213 | WASHER 6.4 | 4 | \$1.00 |





RTX



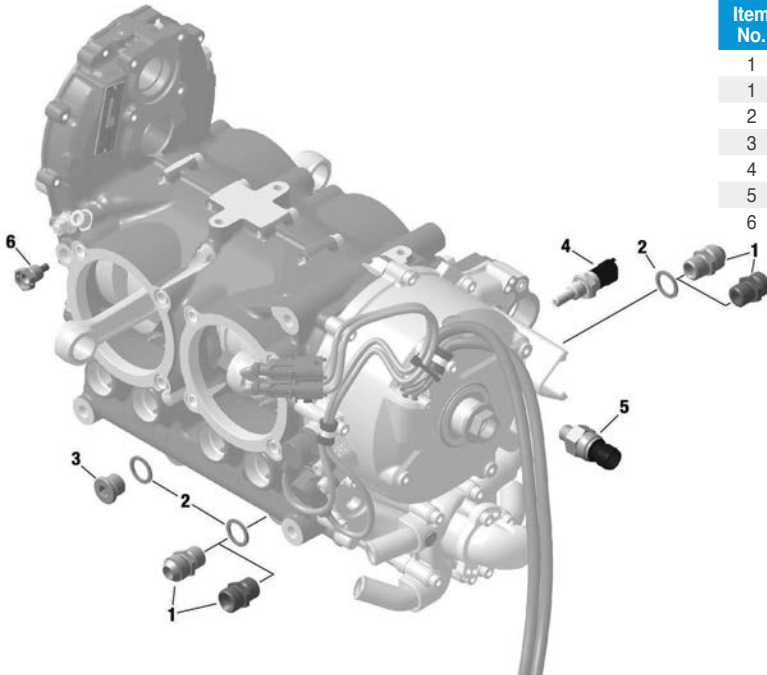
OIL TANK

| Item No. | Part No | Description | Qty. Req. | Part No |
|----------|---------|---|-----------|---------|
| 1-12 | 656-854 | OIL TANK ASSEMBLY UNF BIG | (1) | CALL |
| 1-12 | 656-852 | OIL TANK ASSEMBLY UNF standard | (1) | CALL |
| 1-12 | 656-880 | OIL TANK ASSEMBLY METRIC standard | 1 | CALL |
| 1-12 | 656-XXX | OIL TANK ASSEMBLY METRIC BIG | (1) | CALL |
| 1 | 956-426 | OIL TANK standard | (1) | CALL |
| 1 | 956-427 | OIL TANK BIG - NON-CERTIFIED | 1 | CALL |
| 2 | 250-010 | GASKET RING C 12x18 | 1 | \$1.71 |
| 3 | 241-408 | HEX. SCREW M12x12 | 1 | \$43.71 |
| 4 | 656-861 | PARTITION 2 | 1 | \$33.32 |
| 5 | 956-204 | BAFFLE INSERT standard | 1 | \$67.19 |
| 5 | 956-205 | BAFFLE INSERT BIG | 1 | CALL |
| 6 | 850-491 | O-RING 145x6-N, HNBR 70 | 1 | \$31.55 |
| 7 | 656-882 | OIL TANK COVER ASSEMBLY UNF standard | (1) | CALL |
| 7 | 656-887 | OIL TANK COVER ASSEMBLY METRIC standard | (1) | CALL |
| 7 | 656-858 | OIL TANK COVER ASSEMBLY UNF BIG | (1) | CALL |
| 8 | 951-817 | PROFILE CLAMP 163 | 1 | \$72.58 |
| 9 | 230-150 | SEALING RING A 10x14 | 1 | \$1.09 |
| 10 | 641-733 | PLUG SCREW M10x1 | 1 | \$10.70 |
| 11 | 956-154 | OIL DIPSTICK | 1 | CALL |
| 12 | 974-647 | OIL TANK COVER, WITHOUT VENTING standard tank | (1) | \$32.15 |
| 12 | 974-650 | OIL TANK COVER, WITHOUT VENTING BIG tank | (1) | CALL |
| 13 | 297-555 | SAFETY WIRE 0.8 | 1 | CALL |
| 14 | 956-610 | HOSE NIPPLE WITH UNION NUT - NON-CERTIFIED | AR | \$20.91 |
| 15 | 956-580 | BENT SOCKET - NON-CERTIFIED | AR | CALL |
| 16 | 853-725 | CLAMP SP 17/9 - NON-CERTIFIED | AR | CALL |
| 17 | 956-390 | OIL TUBE OLNS - NON-CERTIFIED | AR | \$85.86 |

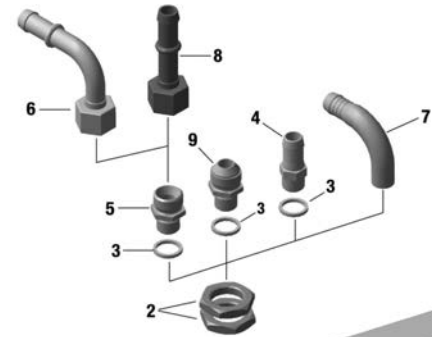
OIL PUMP ASSEMBLY, OIL FILTER, OIL TEMPERATURE SENSOR, OIL PRESSURE SENSOR

| Item No. | Part No | Description | Qty. Req. | Price | Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------------|-----------|----------|----------|---------|-------------------------|-----------|---------|
| 1 | 811-460 | OIL PUMP HOUSING | 1 | \$666.60 | 18 | 911-713 | OIL PUMP COVER | 1 | \$80.15 |
| 2 | 856-330 | REGULATING PISTON | 1 | \$18.42 | 19 | 250-460 | O-RING 11-2.7 | 2 | \$5.93 |
| 3 | 838-125 | COMPRESSION SPRING DM 8.85 D1.25 L52 | 1 | \$3.43 | 20 | 950-410 | O-RING 30x2.5 | 1 | \$12.98 |
| 4 | 640-850 | PLUG SCREW M22x1.5 | 1 | \$38.22 | 21 | 827-961 | WASHER 6.4 | 4 | \$0.31 |
| 5 | 430-622 | SEALING RING A 16x22 | 2 | \$2.50 | 22 | 241-261 | ALLEN SCREW M6x65 | 4 | \$1.45 |
| 6 | 240-234 | PLUG SCREW A M16x1.5 | 1 | \$10.79 | 23 | 824-020 | MALE STUD ELBOW M10x1 | 1 | CALL |
| 7 | 956-651 | ADAPTER 3/4-16 UNF/ M16x1.5 | (3) | \$90.35 | 24 | 656-760 | TURBO OIL SUCTION LINE | 1 | CALL |
| 7 | 956-655 | ADAPTER M18x1.5 / M16x1.5 | 1 | \$59.72 | 25 | 656-765 | TURBO PRESSURE OIL LINE | 1 | CALL |
| 8 | 924-430 | OIL FILTER NIPPLE | 1 | CALL | 26 | 230-150 | SEALING RING A 10x14 | 3 | \$1.09 |
| 9 | 825-016 | OIL FILTER | 1 | \$19.95 | 27 | 940-873 | BANJO BOLT M10x1x30 | 1 | \$16.26 |
| 10 | 830-372 | O-RING 63-2.5 | 2 | \$3.50 | 28 | 851-111 | CABLE CLAMP 8/M5 | 3 | \$12.46 |
| 11 | 430-102 | OIL SEAL A 14x22x4 FPM | 1 | \$10.36 | 29 | 851-116 | CABLE CLAMP 5/M5 | 2 | \$13.27 |
| 12 | 837-295 | OIL PUMP SHAFT | 1 | \$239.06 | 30 | 241-841 | ALLEN SCREW M5x12 | 2 | \$0.69 |
| 13 | 246-580 | KEY A 4x4x8 | 1 | \$1.78 | 31 | 942-020 | LOCK NUT M5 | 3 | \$1.17 |
| 14 | 888-821 | PRESSURE INNER AND OUTER ROTOR | 1 | \$78.82 | 32 | 847-664 | SPACER 5.2/11/6.0 | 1 | CALL |
| 15 | 812-192 | OIL PUMP HOUSING | 1 | CALL | 33 | 941-540 | ALLEN SCREW M5x20 | 1 | CALL |
| 16 | 232-731 | NEEDLE PIN 4x15.8 G3 | 1 | \$1.68 | 34 | 956-314 | HOSE NIPPLE 4/6 | 1 | \$23.81 |
| 17 | 656-850 | ROTOR SET | 1 | \$133.64 | 35 | 940-874 | BANJO BOLT M10x1x19 | 1 | \$13.99 |

OIL TEMPERATURE SENSOR, OIL PRESSURE SENSOR, OIL SPRAY NOZZLE ASSEMBLY

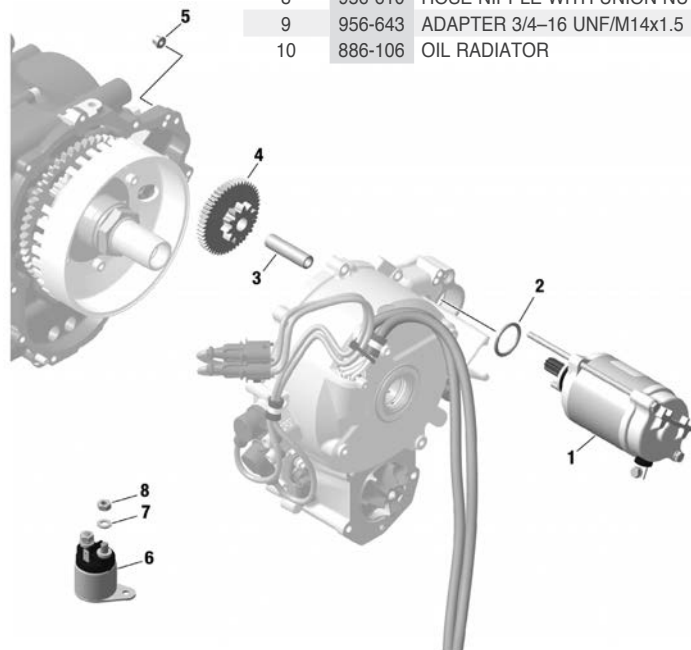
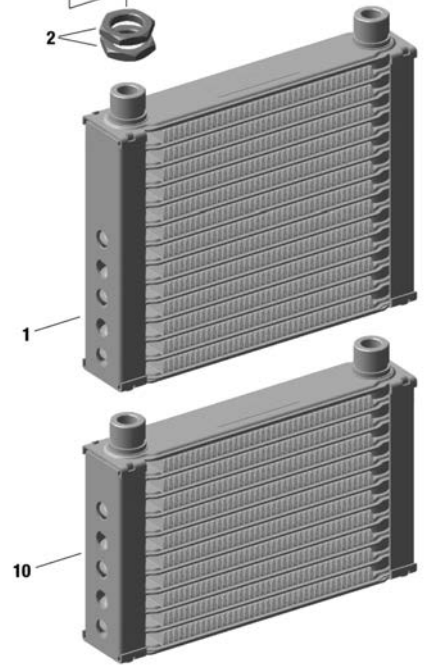


| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------|-----------|----------|
| 1 | 956-651 | ADAPTER 3/4-16 UNF/ M16x1.5 | (2) | \$90.35 |
| 1 | 956-655 | ADAPTER M18x1.5 / M16x1.5 | 2 | \$59.72 |
| 2 | 430-622 | SEALING RING A 16x22 | 3 | \$2.50 |
| 3 | 240-234 | PLUG SCREW A M16x1.5 | 2 | \$10.79 |
| 4 | 965-537 | TEMPERATURE SENSOR | 1 | \$182.07 |
| 5 | 664-365 | PRESSURE SENSOR 10 | 1 | \$301.82 |
| 6 | 241-785 | MAGNETIC DRAIN PLUG M12x1.5 | 1 | \$58.73 |



OIL RADIATOR - NON-CERTIFIED

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-------------------------------|-----------|----------|
| 1,2,3,-9 | 886-036 | OIL RADIATOR SET UNF | (1) | \$299.00 |
| 1,2,3,-4 | 886-034 | OIL RADIATOR SET METRIC | (1) | CALL |
| 1 | 886-004 | OIL RADIATOR | (1) | \$328.89 |
| 2 | 242-873 | HEX. NUT M22x1.5 | (4) | \$16.16 |
| 2,3,9 | 956-645 | SCREW CONNECTION SET UNF | (1) | \$115.70 |
| 3,5,8 | 956-615 | SCREW CONNECTION SET STRAIGHT | (1) | \$115.70 |
| 3,5,6 | 956-585 | SCREW CONNECTION SET BENT | (1) | \$101.43 |
| 3 | 230-387 | GASKET RING 14.2/18/2 | (2) | \$1.51 |
| 4 | 840-461 | NIPPLE 13.2/9.5-M14x1.5 | (2) | \$18.98 |
| 5 | 956-577 | ADAPTER 8x1.5/M14x1.5 | (2) | \$54.70 |
| 6 | 956-580 | BENT SOCKET ASSEMBLY | AR | CALL |
| 7 | 924-585 | ANGULAR TUBE 4x1.5 | AR | \$74.50 |
| 8 | 956-610 | HOSE NIPPLE WITH UNION NUT | AR | \$20.91 |
| 9 | 956-643 | ADAPTER 3/4-16 UNF/M14x1.5 | (2) | \$68.93 |
| 10 | 886-106 | OIL RADIATOR | (1) | CALL |

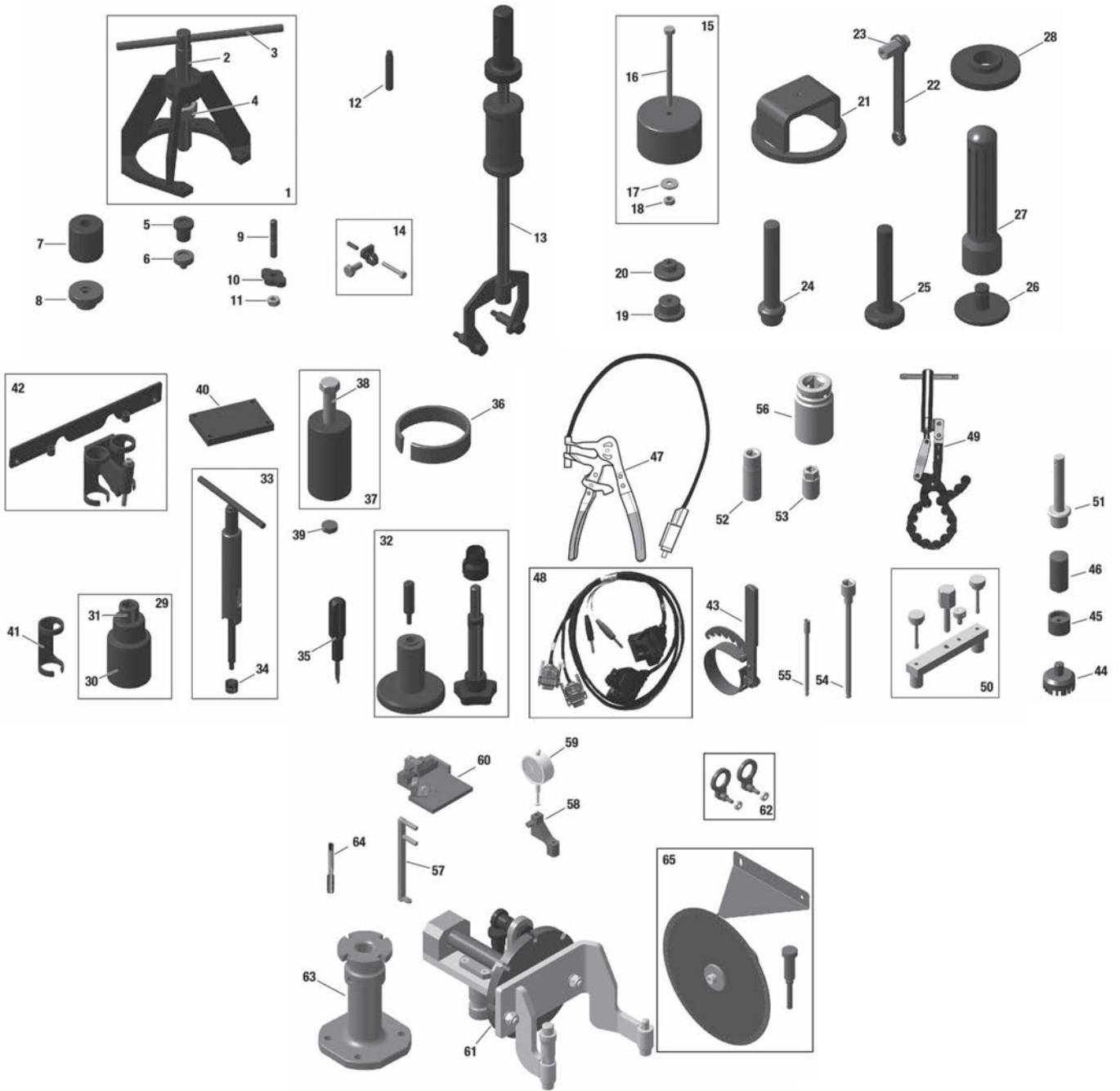


ELECTRIC STARTER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--|-----------|----------|
| 1-2 | 685-667 | ELECTRIC STARTER ASSEMBLY 12 V | 1 | \$699.00 |
| 1-2 | 685-671 | ELECTRIC STARTER ASSEMBLY 24 V - NON-CERTIFIED | (1) | CALL |
| 2 | 250-140 | O-RING DIN 3771-24.4x3.1-N NBR70 | 1 | \$7.14 |
| 3 | 837-102 | IDLE GEAR SHAFT | 1 | \$27.60 |
| 4 | 834-156 | IDLE GEAR 50/11 T | 1 | \$190.43 |
| 5 | 942-311 | HEX. NUT M5 | 2 | \$20.67 |
| 6-8 | 992-818 | STARTER RELAY ASSEMBLY | 1 | \$199.75 |
| 7 | 945-831 | LOCK WASHER A6 | 2 | \$0.23 |
| 8 | 242-211 | HEX. NUT M6 | 2 | \$0.41 |



RTX



REPAIR TOOLS (NON CERTIFIED)

| Item No. | Application | Item No. | Application | Item No. | Application |
|----------|--|----------|--|----------|---|
| 1-4 | Roller bearing 25x25x15, oil seal 30x52x7 | 26 | Oil seal 40x55x7 gear box cover | 48 | Engine Control Unit (ECU) |
| 5 | Prop shaft version 2 | 27 | Stamp | 49 | Oil filter |
| 6 | Prop shaft version 3 | 28 | Ball bearing 35-72-17, propeller shaft | 50 | Ignition housing |
| 7 | Roller bearing 25x52x15, oil seal 30x52x7, version 2 | 29-31 | Drive gear, gearbox, gear set | 51 | Oil Seal 28x38x7 Ignition housing |
| 8 | Roller bearing 25x52x15, oil inlet flange version 3 | 32 | Fitting of piston pin circlips | 52 | Pressure sensor Oil and Airbox |
| 9 | Roller bearing 25x52x15, oil seal 30x52x7 | 33-34 | Fitting and removal of piston pin | 53 | Temperature sensor Oil and Water |
| 10-11 | Roller bearing 25x52x15, oil seal 30x52x7, oil inlet cover | 35 | Monohook clips puller | 54 | Engine mount |
| 12 | Crankshaft locking screw M8x50 | 36 | Piston diameter 84 mm/33 in. | 55 | Intake manifold |
| 13-14 | Gearbox | 37-38 | Puller Magneto hub | 56 | Nut for sprag clutch housing |
| 15-18 | Ball bearing 15x32x8, Oil inlet flange, oil inlet cover | 39 | Crankshaft magneto side | 57 | Crankcase |
| 19 | Needle bearing 22x28x12-vacuum pump | 40 | To align cylinders | 58-59 | Dial gauge |
| 20 | Ball bearing 15x32x8-vacuum pump | 41-42 | Installation/Removal of valve spring | 60 | Dial gauge adapter for valve seat inspect |
| 21 | Mounting yoke, gearbox components | 43 | Oil filter removal | 61 | Crankcase |
| 22 | Ring wrench 10/13 | 44 | Waterpump impeller | 62 | Engine removal |
| 23 | Fixture for vacuum pump drive | 45 | Rotary seal ignition housing | 63 | Trestle support |
| 24 | Ball bearing 15x32x8, needle sleeve vacuum pump | 46 | Oil Seal 12x30x7 water pump shaft | 64 | Thread bent socket |
| 25 | Oil seal 22x32x7 vacuum pump | 47 | Spring type hose clip 28 | 65 | Twist of crankshaft |

912 iSERIES ENGINE

REPAIR TOOLS

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--|-----------|----------|
| 1-4 | 877-615 | EXTRACTOR ASSEMBLY | 1 | \$787.40 |
| 2 | 877-580 | PULL -IN SPINDLE M24x1.5 | 1 | \$126.12 |
| 3 | 276-155 | BOLT 12X250 | 1 | \$23.77 |
| 4 | 842-585 | HEX. SCREW M24X1.5 - 19MM | 1 | \$87.23 |
| 5 | 877-605 | PRESS-OUT MUSHROOM | 1 | \$63.71 |
| 6 | 877-600 | PRESS-OUT MUSHROOM | 1 | \$66.39 |
| 7 | 877-594 | PRESS-IN MUSHROOM | 1 | \$136.67 |
| 8 | 877-590 | PRESS-IN MUSHROOM | 1 | \$66.39 |
| 9 | 941-180 | STUD M10X45/20 | 1 | \$5.69 |
| 10 | 877-561 | PULL-OUT PLATE | 1 | \$150.12 |
| 11 | 242-092 | HEX. NUT M10 | 1 | \$1.38 |
| 12 | 240-880 | THREAD BOLT M8X50 | 1 | \$6.69 |
| 13 | 877-660 | PULLER ASSEMBLY | 1 | \$522.70 |
| 14 | 877-540 | PUSHING JIG ASSEMBLY | 1 | \$209.17 |
| 15-18 | 876-489 | PULLER ASSEMBLY | 1 | \$126.12 |
| 16 | 941-730 | HEX. SCREW M6X80 | 1 | \$2.45 |
| 17 | 827-305 | WASHER 6.2/18/2 | 1 | \$5.61 |
| 18 | 242-214 | HEX. NUT M6 | 1 | CALL |
| 19 | 877-597 | PRESS-IN MUSHROOM | 1 | \$63.71 |
| 20 | 877-595 | PRESS-IN MUSHROOM | 1 | \$63.71 |
| 21 | 876-885 | MOUNTING YOKE | 1 | \$207.88 |
| 22 | 876-470 | RING SPANNER 10/13 | 1 | \$14.77 |
| 23 | 242-661 | DISTANCE NUT M8X33 | 1 | \$54.77 |
| 24 | 276-332 | INSERTION JIG ASSEMBLY | 1 | \$87.44 |
| 25 | 877-276 | INSERTION JIG ASSEMBLY | 1 | \$94.16 |
| 26 | 876-518 | INSERTION JIG | 1 | \$144.15 |
| 27 | 877-650 | HANDLE FOR INSERTION JIG | 1 | \$132.11 |
| 28 | 877-320 | PRESS-IN RING | 1 | \$76.66 |
| 29 | 877-445 | SOCKET WRENCH ASSEMBLY 41X12.5 | 1 | \$355.59 |
| 30 | 877-440 | SOCKET WRENCH A/F 41X20 | 1 | \$23.99 |
| 31 | 877-460 | REDUCING SOCKET 3/4"-1/2" | 1 | \$9.50 |
| 32 | 877-802 | CIRCLIP INSTALLATION TOOL | 1 | \$614.92 |
| 33-34 | 877-091 | PISTON PIN EXTRACTOR ASSEMBLY | 1 | \$435.58 |
| 34 | 877-155 | EXTRACTING NUT ASSEMBLY | 1 | \$76.95 |
| 35 | 976-380 | MONOHOOK CIRCLIP REMOVER | 1 | \$192.52 |
| 36 | 876-967 | PISTON RING SPANNER 84 MM | 1 | \$141.11 |
| 37-38 | 877-375 | PULLER ASSEMBLY | 1 | CALL |
| 38 | 940-755 | HEX. SCREW M16X1.5X150 | 1 | \$37.91 |
| 39 | 876-557 | PROTECTION MUSHROOM | 1 | \$17.68 |
| 40 | 877-263 | CYLINDER ALIGNING TOOL | 1 | \$108.12 |
| 41 | 877-380 | VALVE SPRING MOUNTING DEVICE | 1 | \$146.51 |
| 42 | 877-387 | VALVE SPRING LOADING JIG ASSEMBLY | 1 | \$531.62 |
| 43 | 877-620 | OIL FILTER WRENCH | 1 | \$138.14 |
| 44 | 877-295 | IMPELLER WRENCH ASSEMBLY | 1 | \$191.53 |
| 45 | 877-258 | PRESS ON DEVICE ASSEMBLY | 1 | \$73.98 |
| 46 | 876-510 | INSERTION JIG | 1 | \$53.08 |
| 47 | 877-840 | SPRING CLAMP PLIERS | 1 | \$506.11 |
| 48 | 864-280 | SERVICE WIRING HARNESS ASSEMBLY | 1 | \$106.66 |
| 49 | 877-670 | CUTTING TOOL | 1 | \$625.19 |
| 50 | 876-010 | PULLER ASSEMBLY | 1 | \$338.64 |
| 51 | 876-020 | INSERTION JIG | 1 | \$148.40 |
| 52 | 876-075 | SOCKET WRENCH 21x12.5 | 1 | \$221.89 |
| 53 | 876-130 | SOCKET WRENCH 19x12.5 | 1 | \$177.18 |
| 54 | 876-240 | SOCKET DRIVER HEX. 8 BALL HEAD | 1 | \$142.75 |
| 55 | 876-180 | SOCKET DRIVER T30 BALL HEAD | 1 | \$139.80 |
| 56 | 876-070 | SOCKET WRENCH 38x20 | 1 | \$352.19 |
| 57 | 877-690 | CHECK LEVER | 1 | \$132.11 |
| 58 | 877-710 | DIAL GAUGE ADAPTER ASSEMBLY | 1 | \$224.31 |
| 59 | 876-950 | PRECISION DIAL GAUGE | 1 | \$262.58 |
| 60 | 976-140 | DIAL GAUGE ADAPTER ASSEMBLY | 1 | \$720.67 |
| 61 | 876-050 | TRESTLE ADAPTER ASSEMBLY | 1 | CALL |
| 62 | 876-040 | ENGINE LIFT SET ASSEMBLY | 1 | \$162.17 |
| 63 | 877-930 | TRESTLE SUPPORT | 1 | \$720.30 |
| 64 | 877-570 | TAPPING DRILL M18X1 | 1 | \$156.09 |
| 65 | 877-520 | PROTRACTOR CRANKSHAFT DISTORTION INSP. | 1 | \$217.43 |

- Items not illustrated

RTX



LUBRICANTS (NON CERTIFIED)

| Item No. | Application |
|----------|---|
| B | Medium strength bond 10 cc. |
| C | High strength bond 5 ml. |
| E | To prevent metal galling 50 cc. |
| H | Blister 14.8 ml. |
| I | To prevent leakage current; 250 gr. |
| M | Solid lubricant paste for the assembly and running-in of metal components |
| P | Regular body/high adhesion flexible flange sealant |
| R | For vibration damping; 310 cc. |
| V | For marking |
| Z | High strength bond 10 ml. |
| AG | For better heat transfer from the spark plugs |

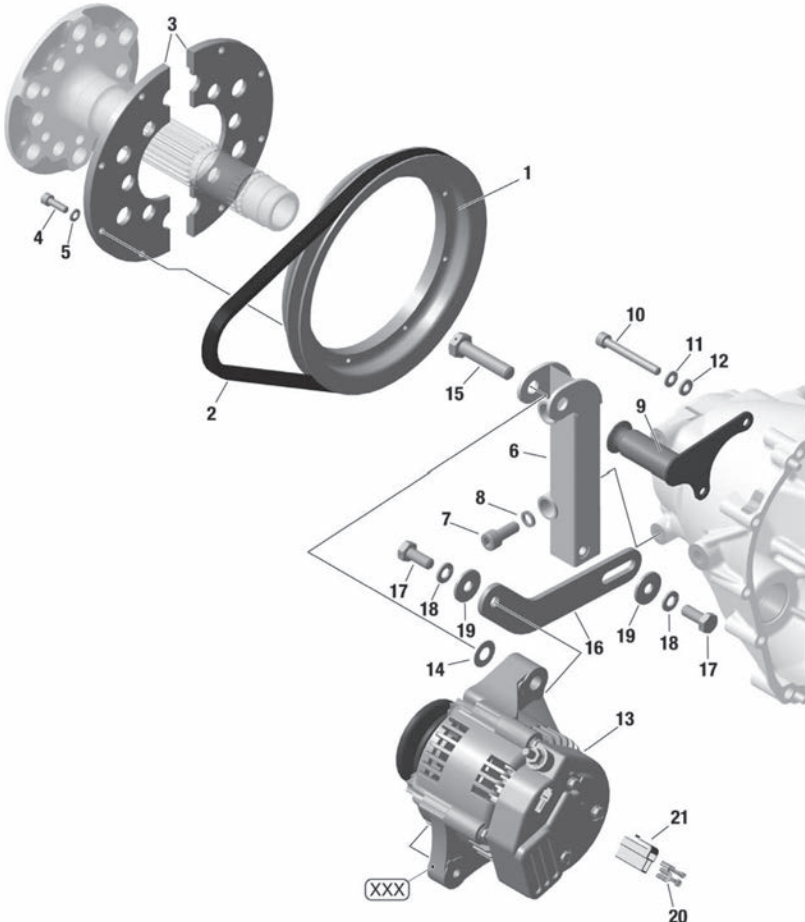
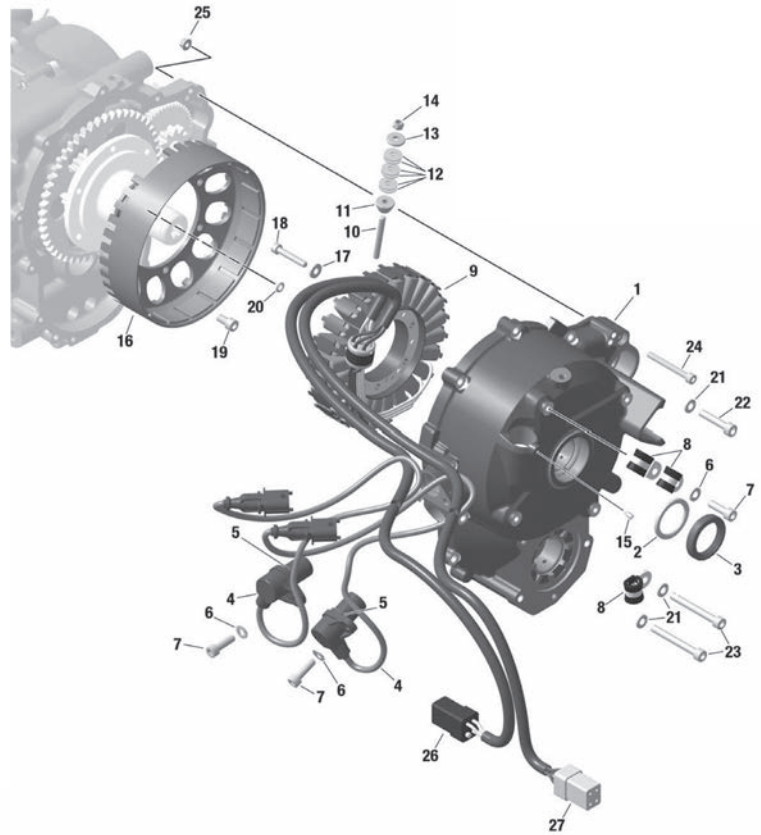
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---|-----------|----------|
| B | 897-651 | LOCTITE 243 BLUE, 10 CC. | AR | \$18.50 |
| C | 899-788 | LOCTITE 648 GREEN, 5 ML. (CC) | AR | \$21.50 |
| E | 297-434 | LOCTITE ANTI SEIZE 8151 50 ML. (CC) | AR | \$31.17 |
| H | 897-870 | K&N FILTER OIL 99-11312 | AR | \$25.86 |
| I | 897-330 | LITHIUM-BASE GREASE, 250 GR., | AR | \$63.89 |
| M | 297-433 | MOLYKOTE G-N, 100 GR. | AR | \$97.56 |
| P | 899-791 | LOCTITE 5910, 50 ML | AR | \$54.95 |
| R | 297-711 | PU-GLUE, SIKAFLEX 255 | AR | \$112.25 |
| V | 898-570 | LOCKING PAINT | AR | \$56.18 |
| Z | 899-789 | LOCTITE 603 GREEN, 10 CC. | AR | \$36.67 |
| AG | 897-186 | SILICONE HEAT COMPOUND WACKER P12, 150GR. | AR | \$164.50 |

RTX

IGNITION HOUSING, STATOR, RECTIFIER REGULATOR, CRANKSHAFT POSITION SENSOR ASSEMBLY

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-------------------------------|-----------|------------|
| 1 | 611-594 | IGNITION HOUSING ASSEMBLY | 1 | \$1,718.44 |
| 2 | 827-220 | WASHER 32/38/1.5 | 1 | \$17.56 |
| 3 | 230-427 | OIL SEAL GPRE 28x38x7 FKM | 1 | \$7.30 |
| 4-5 | 966-572 | CRANKSHAFT POSITION SENSOR | 2 | \$182.35 |
| 5 | 431-580 | O-RING 17.17x1.78 FPM 70 | 2 | \$7.30 |
| 6 | 945-831 | LOCK WASHER A6 | 3 | \$0.23 |
| 7 | 241-930 | ALLEN SCREW M6x20 | 2 | \$0.57 |
| 8 | 853-412 | CABLE CLAMP | 3 | \$5.69 |
| 9 | 685-065 | STATOR ASSEMBLY | 1 | CALL |
| 10 | 840-792 | STUD M5x44 | 1 | CALL |
| 11 | 947-510 | DISTANCE SLEEVE | 1 | \$34.01 |
| 12 | 938-080 | DISK SPRING 15x5.2x0.7 | 6 | \$1.78 |
| 13 | 827-240 | WASHER 5.1/15.5/2.5 | 1 | \$26.43 |
| 14 | 842-033 | LOCK NUT M5 | 1 | \$0.35 |
| 15 | 840-820 | ADJUSTMENT SCREW M4x8 | 1 | CALL |
| 16 | 685-070 | MAGNETO FLYWHEEL ASSEMBLY | 1 | \$645.21 |
| 17 | 827-800 | WASHER A 5.5 | 6 | \$5.99 |
| 18 | 940-881 | ALLEN SCREW M5x30 | 6 | \$0.57 |
| 19 | 840-036 | ALLEN SCREW M6x12 | 6 | \$1.78 |
| 20 | 831-929 | O-RING 5x2 See chap. 72-20-00 | 1 | \$4.54 |
| 21 | 827-962 | WASHER 6.4 | 7 | \$0.31 |
| 22 | 840-888 | ALLEN SCREW M6x30 | 5 | \$0.63 |
| 23 | 241-762 | ALLEN SCREW M6x50 | 2 | \$0.94 |
| 24 | 941-791 | ALLEN SCREW M5x45 | 2 | \$1.08 |
| 25 | 942-311 | HEX. NUT M5 | 2 | \$20.67 |

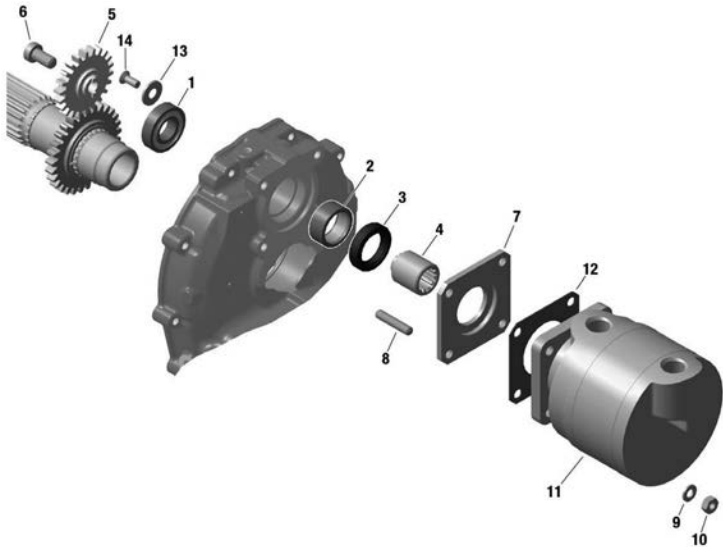
- Items not illustrated



EXTERNAL GENERATOR F3A (ALL PARTS OPTIONAL)

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------|-----------|------------|
| 1-21 | 887-254 | ALTERNATOR SET | 1 | \$1,644.50 |
| 1 | 980-590 | V-BELT PULLEY | 1 | \$395.80 |
| 2 | 980-400 | V-BELT 9.5X675 | 1 | \$31.26 |
| 3 | 980-605 | PULLEY CARRIER | 2 | \$127.31 |
| 4 | 840-511 | ALLEN SCREW M5X16 | 8 | \$0.48 |
| 5 | 945-750 | LOCK WASHER A5 | 8 | CALL |
| 6 | 953-222 | ALTERNATOR BRACKET ASSEMBLY | 1 | \$438.86 |
| 7 | 240-071 | ALLEN SCREW M8X20 | 2 | \$1.23 |
| 8 | 845-310 | LOCK WASHER 8 | 2 | \$0.41 |
| 9 | 953-232 | ALTERNATOR SUPPORT ASSEMBLY | 1 | \$243.30 |
| 10 | 241-761 | ALLEN SCREW M6X50 | 2 | \$0.85 |
| 11 | 945-751 | LOCK WASHER A6 | 2 | \$0.21 |
| 12 | 827-961 | WASHER 6,4 | 2 | \$0.31 |
| 13 | 887-251 | ALTERNATOR F3A | 1 | \$1,394.06 |
| 14 | 927-952 | THRUST WASHER 10,1/20/0,5 | 1 | \$4.78 |
| 15 | 941-636 | HEX. SCREW M10X45 | 1 | \$13.77 |
| 16 | 953-241 | TENSION BAR | 1 | \$83.34 |
| 17 | 940-596 | HEX. SCREW M8X2 | 2 | \$11.47 |
| 18 | 945-752 | LOCK WASHER A8 | 2 | \$0.21 |
| 19 | 227-935 | WASHER 8,4 | 2 | \$1.76 |
| 20 | 864-011 | FASTON CONNECTOR 6,3X0,8 | 2 | \$1.23 |
| 21 | 265-255 | CONNECTOR HOUSING 2-POLE | 1 | \$7.84 |

- Items not illustrated



VACUUM PUMP WITH DRIVE (ALL PARTS OPTIONAL)

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------|-----------|----------|
| 1-10 | 881-690 | VACUUM PUMP DRIVE RETROFIT KIT | AR | \$638.09 |
| 1 | 832-362 | BALL BEARING 16002 15-32-8 | 1 | \$41.13 |
| 2 | 232-925 | NEEDLE SLEEVE 22x28x12 | 1 | \$36.82 |
| 3 | 831-265 | OIL SEAL AS 22x32x7 | 1 | \$49.50 |
| 4 | 847-771 | DRIVE SLEEVE | 1 | \$324.97 |
| 5 | 834-245 | VACUUM PUMP GEAR 22T | 1 | \$211.87 |
| 6 | 941-527 | ALLEN SCREW M8x14 | 1 | \$25.86 |
| 7 | 810-170 | ATTACHMENT FLANGE | 1 | \$163.29 |
| 8 | 941-080 | STUD M6X20/10 | 4 | \$5.61 |
| 9 | 945-831 | LOCK WASHER A6 | 4 | \$0.23 |
| 10 | 242-214 | HEX.NUT M6 | 4 | CALL |

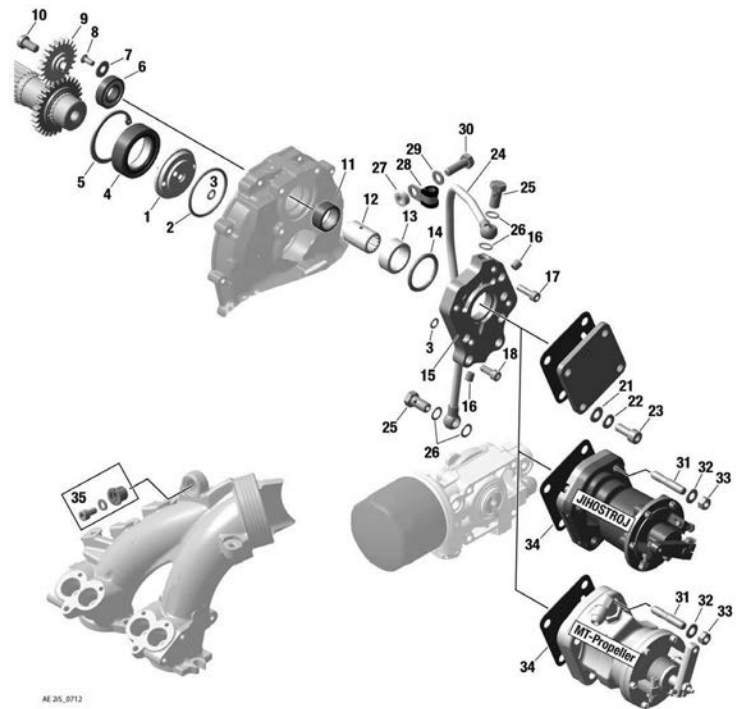
- Items not illustrated / AR: as required / NLA: not available

HYDRAULIC GOVERNOR ARRANGEMENT FOR CONSTANT SPEED PROPELLER (OPTIONAL)

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------------|-----------|------------|
| 3 | 830-415 | O-RING 7x2-N | 2 | \$6.69 |
| 6 | 832-362 | BALL BEARING 16002. 15-32-8 | 1 | \$41.13 |
| 9 | 834-245 | DRIVE GEAR 22 T | 1 | \$211.87 |
| 10 | 941-522 | ALLEN SCREW M8x16 | 1 | \$1.39 |
| 11 | 232-925 | NEEDLE SLEEVE 22x28x12 | 1 | \$36.82 |
| 12 | 847-773 | DRIVE SLEEVE | 1 | \$359.30 |
| 13 | 847-802 | SPACER 25/31.95/13 | 1 | \$28.58 |
| 14 | 950-380 | O-RING 32x4-N FPM 75 | 1 | \$11.62 |
| 15 | 810-294 | GOVERNOR FLANGE | 1 | \$833.41 |
| 16 | 941-611 | PLUG SCREW M8x1 | 2 | \$5.61 |
| 17 | 241-930 | ALLEN SCREW M6x20 | 4 | \$0.57 |
| 18 | 241-237 | ALLEN SCREW M6x16 | 2 | \$0.73 |
| 21 | 250-315 | WASHER 8.4 | 4 | \$0.41 |
| 22 | 945-832 | LOCKWASHER A8 | 4 | \$0.23 |
| 23 | 240-072 | ALLEN SCREW M8x20 | 4 | \$1.35 |
| 24 | 956-460 | PRESSURE OIL LINE ASSEMBLY | 1 | \$262.80 |
| 25 | 940-876 | BANJO BOLT M10x1x19 | 2 | CALL |
| 26 | 230-150 | SEALING RING A 10x14 | 4 | \$1.09 |
| 27 | 847-224 | DISTANCE SLEEVE 8.4/15/6 | 1 | \$23.34 |
| 28 | 853-418 | CABLE CLAMP | 1 | \$23.43 |
| 29 | 945-832 | LOCK WASHER A8 | 1 | \$0.23 |
| 30 | 240-276 | HEX. SCREW M8x25 | 1 | \$1.26 |
| 31 | 840-711 | STUD M8x21/20 | 4 | \$20.14 |
| 32 | 945-752 | LOCK WASHER A8 | 4 | \$0.21 |
| 33 | 942-671 | HEX. NUT M8 (WS 11 MM) | 4 | \$2.67 |
| 34 | 931-372 | GASKET | 1 | \$186.77 |
| 35 | 481-485 | GOVERNOR CABLE KIT | 1 | CALL |
| 36 | 881-702 | PROP SHAFT RETROFIT KIT TO CONFIG. 3 | 1 | \$1,611.49 |
| 37 | 881-700 | GOVERNOR DRIVE RETROFIT KIT | 1a | \$1,613.87 |

- Items not illustrated

a same as 881-702 but without propeller shaft



RTX



PROPELLER GEAR ASSEMBLY WITH OVERLOAD CLUTCH

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--|-----------|------------|
| 1-28 | 893-340 | GEARBOX WITH CLUTCH I 2.43-2 version 2 | 1b | \$3,953.90 |
| 1-28 | 893-345 | GEARBOX WITH CLUTCH I 2.43-3 version 3 | 1b | \$3,751.88 |
| 1 | 926-035 | RING HALF | 2 | \$43.94 |
| 2 | 834-232 | DRIVE GEAR 29 T | 1 | \$207.22 |
| 3 | 827-992 | THRUST WASHER 33.2/51/1.2 | 1 | \$69.26 |
| 4 | 886-518 | GEAR SET I 2.43 | 1 | \$987.46 |
| 5 | 933-362 | BUSHING 31x33x29.8 | 1 | \$61.61 |
| 6 | 845-431 | FRICITION WASHER VS30 | 1 | \$9.66 |
| 7 | 842-579 | HEX. NUT M30x1.5 12 MM LH | 1 | \$17.11 |
| 8 | 996-915 | OVERLOAD CLUTCH ASSEMBLY | 1b | CALL |
| 9 | 847-787 | STEP COLLAR | 1 | \$51.75 |
| 10 | 838-216 | DISK SPRING B80 80x41x3 | 3 | \$23.58 |
| 11 | 927-401 | SHIM 35.4/43/0.2 | AR | \$2.66 |
| 11 | 927-402 | SHIM 35.4/43/0.5 | AR | \$2.66 |
| 11 | 927-403 | SHIM 35.4/43/1.0 | AR | \$3.02 |
| 12 | 847-687 | SPACER 35.2/42/8 | 2 | \$44.24 |
| 13 | 832-578 | BALL BEARING 6207E TN9 35-72-17 | 1 | \$127.13 |
| 14 | 944-320 | WASHER 7.2/18.8/3 | 4 | \$3.12 |
| 15 | 941-760 | HEX. SCREW M7x16 | 4 | \$1.40 |
| 16 | 926-022 | SPACER RING 36/50/5.5 | 1 | \$34.86 |
| 17 | 950-470 | OIL SEAL AS 40x55x7 FPM | 1 | \$67.44 |
| 18 | 937-036 | PROPELLER SHAFT | 1 | \$894.02 |
| 18 | 937-035 | PROPELLER SHAFT | 1 | \$58.74 |
| 19,29 | 610-362 | GEAR COVER ASSEMBLY PACKED | 1c | CALL |
| 20 | 827-962 | WASHER 6.4 | 8 | \$0.31 |
| 21 | 241-823 | ALLEN SCREW M6x45 | 8 | \$0.72 |
| 22,23 | 940-077 | HEX./TORX-FLANGE SCREW M8X45 | 2 | \$4.43 |
| 22 | 944-131 | WASHER 8 ISO 7092-300 HV | 2d | \$1.26 |
| 23 | 841-562 | ALLEN SCREW M8x45 | 2d | \$4.43 |
| 24 | 926-151 | COVER | 1 | \$26.10 |
| 25 | 945-832 | LOCK WASHER A8 | 2 | \$0.23 |
| 26 | 940-592 | ALLEN SCREW M8x20 | 2 | CALL |
| 27 | 232-241 | ROLLER BEARING 205 E C3 25-52-15 | 1 | \$102.00 |
| 28 | 945-820 | RETAINING RING 52x2 | 1 | \$4.54 |
| 29 | 950-200 | OIL SEAL AS 30x52x7 FPM | 1 | \$100.47 |
| 30 | 810-301 | OIL INLET FLANGE | 1 | \$189.14 |
| 31 | 430-175 | O-RING 46x3 | 1 | \$14.36 |
| 32 | 456-520 | OIL SPRAY NOZZLE ASSEMBLY | 1 | CALL |

- Items not illustrated / AR: as required

a break away torque 700-900 Nm (516-663 ft lb.)

b break away torque 600-800 Nm (442-590 ft lb.)

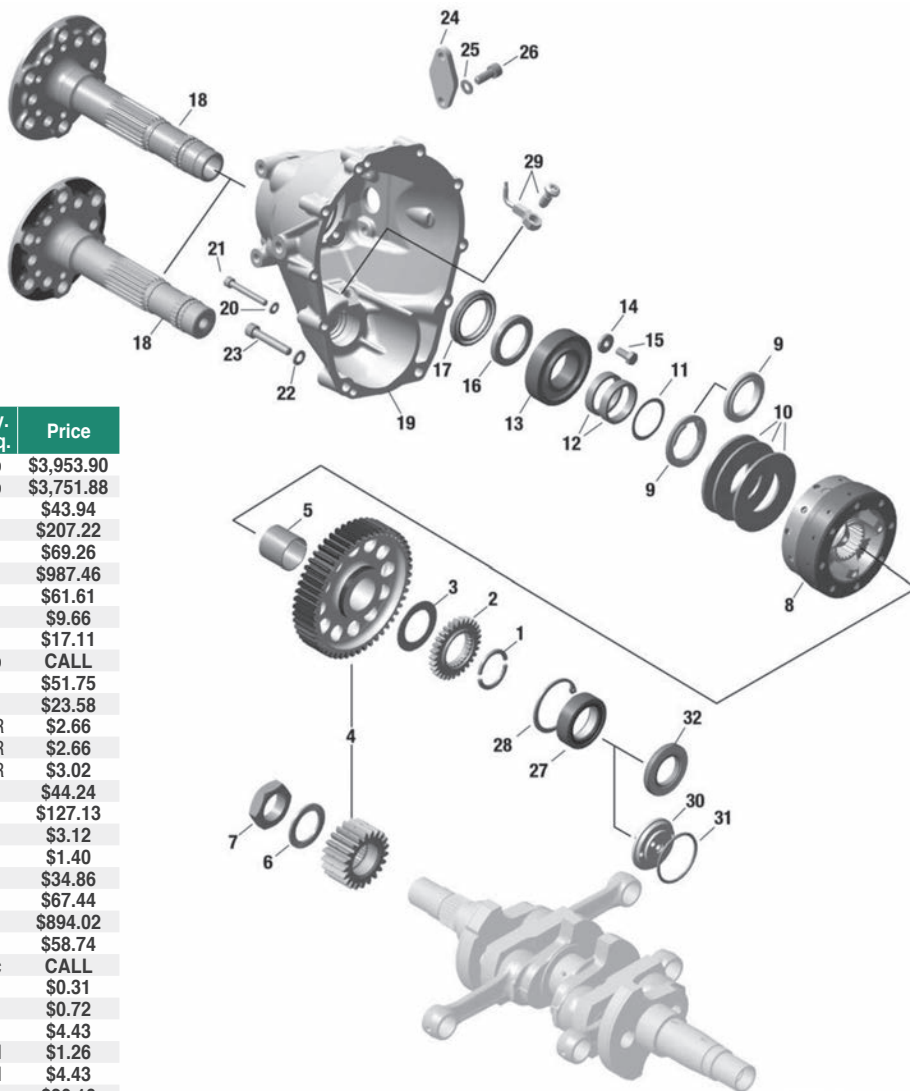
c Gearbox with oil spray nozzle, starting with gearbox S/N 74000

d replaced by 940-077 (pos. 22,23)

ENGINE SUSPENSION FRAME

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1 | 886-563 | ENGINE SUSPENSION FRAME ASSEMBLY | 1 | \$995.00 |
| 2 | 941-487 | ALLEN SCREW M10X110 | 1 | \$6.61 |
| 3 | 945-833 | LOCK WASHER A10 | 4 | \$0.34 |
| 4 | 840-948 | ALLEN SCREW M10X35 | 3 | \$4.63 |
| 5 | 927-952 | THRUST WASHER 10.1/20/0.5 | AR | \$4.78 |
| 5 | 927-953 | THRUST WASHER 10.1/20/1.0 | AR | \$4.90 |
| 6-7 | 860-695 | SHOCK MOUNT SET | 1 | \$4.90 |
| 6 | 944-240 | CUP WASHER | 8 | \$59.75 |
| 7 | 860-690 | SHOCK-MOUNT | 8 | \$107.61 |

- Items not illustrated / AR: as required / NLA: not available

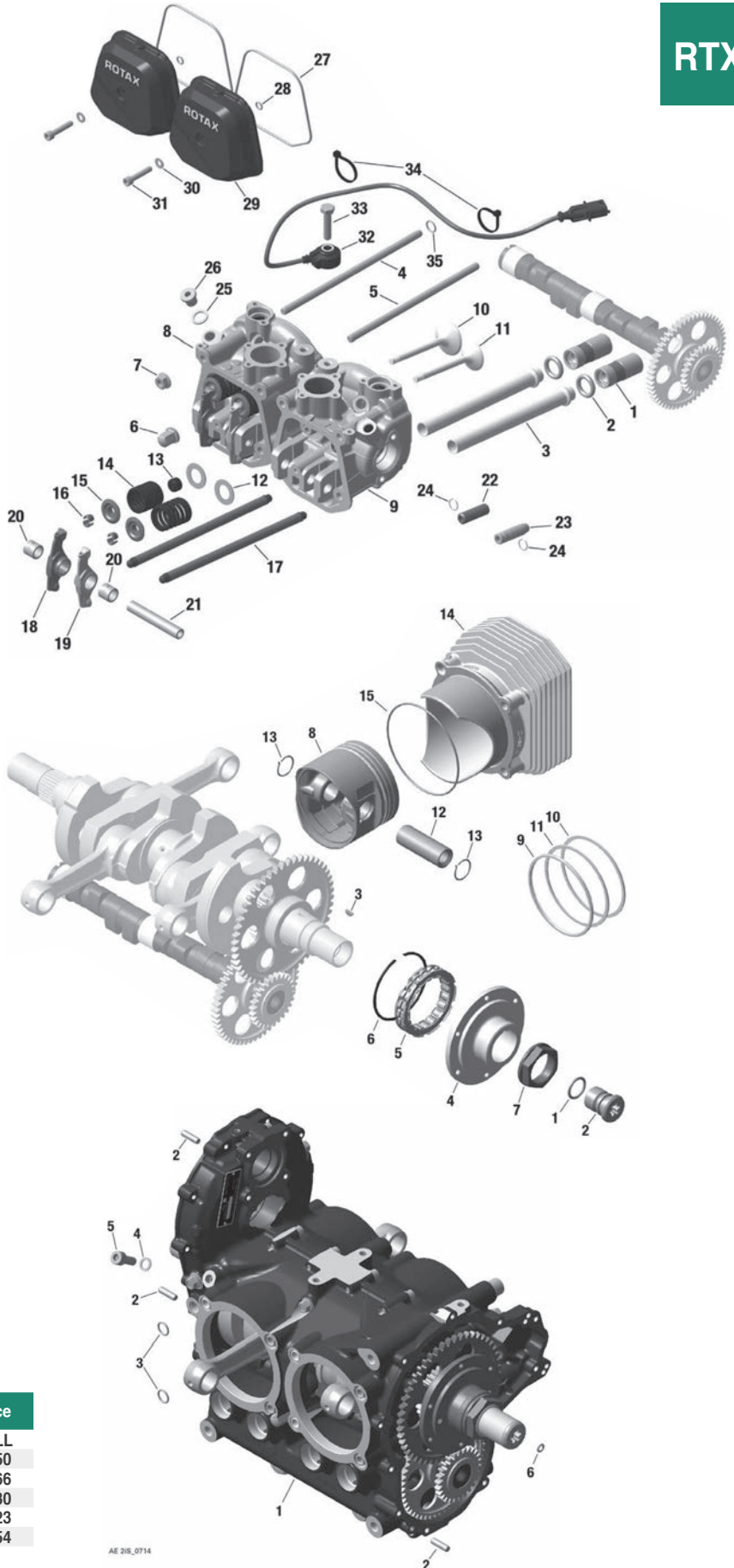


912 iSERIES ENGINE

RTX

CAMSHAFT, VALVE TRAIN, CYLINDERHEAD, VALVE COVER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------|-----------|------------|
| 1 | 881-832 | HYDRAULIC VALVE TAPPET | 8 | \$422.10 |
| 2 | 850-930 | O-RING 16x5 | 8 | \$8.79 |
| 3 | 924-440 | OIL RETURN TUBE | 8 | \$39.54 |
| 4 | 840-171 | STUD M8x200 | 8 | \$9.73 |
| 5 | 840-141 | STUD M8x186 | 8 | \$9.73 |
| 6 | 842-471 | COLLAR CAP NUT M8 | 8c | \$21.34 |
| 6 | 842-476 | COLLAR CAP NUT M8 | 8a | \$21.34 |
| 7 | 942-302 | COLLAR NUT M8 | 8a | \$3.70 |
| 7 | 842-610 | HEX. NUT M8 | 8c | \$4.37 |
| 8 | 623-775 | CYLINDERHEAD 2/3 ASSEMBLY | 2 | \$1,557.32 |
| 9 | 623-785 | CYLINDERHEAD 1/4 ASSEMBLY | 2 | \$1,598.23 |
| 10 | 854-101 | INTAKE VALVE 38 MM | 4 | \$187.82 |
| 11 | 854-111 | EXHAUST VALVE 32 MM | 4 | \$304.00 |
| 12 | 926-210 | SHIM 16/27.9/1 | 8 | \$3.73 |
| 13 | 230-810 | VALVE STEM SEAL | 4 | \$10.04 |
| 14 | 838-156 | VALVE SPRING | 8 | \$28.42 |
| 15 | 854-186 | VALVE SPRING RETAINER | 8 | \$24.57 |
| 16 | 253-092 | VALVE COTTER | 16 | \$3.74 |
| 17 | 854-861 | VALVE PUSH-ROD ASSEMBLY | 8 | \$171.80 |
| 18 | 854-383 | ROCKER ARM LEFT | 4 | \$301.40 |
| 19 | 854-393 | ROCKER ARM RIGHT | 4 | \$301.40 |
| 20 | 933-396 | BUSHING | 8 | \$52.06 |
| 21 | 854-193 | ROCKER ARM SHAFT | 4 | \$40.77 |
| 22 | 854-225 | VALVE GUIDE | 4 | CALL |
| 23 | 253-114 | INLET VALVE GUIDE | 4 | \$27.25 |
| 24 | 245-440 | RETAINING RING A12 | 8 | \$0.57 |
| 25 | 250-015 | SEALING RING A12x18 | 3 | \$0.35 |
| 26 | 841-923 | PLUG SCREW M12x1.5 | 3 | \$7.81 |
| 27 | 250-285 | O-RING 105x2.5 | 4 | \$29.31 |
| 28 | 430-205 | O-RING 6.4x1.8 | 4 | \$4.99 |
| 29 | 612-260 | VALVE COVER | 4 | \$196.63 |
| 30 | 927-941 | WASHER 6.0/12/1 | 4 | \$0.69 |
| 31 | 840-887 | ALLEN SCREW M6x30 | 4 | \$0.69 |
| 32 | 866-270 | KNOCK SENSOR | 1 | \$259.90 |
| 33 | 940-481 | HEX. SCREW M8x30 | 1 | \$1.40 |
| 34 | 866-714 | TIE WRAP 142x3.2 MM | 2 | \$0.35 |
| 35 | 431-570 | O-RING 10.82x1.78 | 8b | \$0.66 |



- Items not illustrated / AR: as required

- a Width A/F 11
- b From engine S/N up to engine S/N 9 12 iS: 4417001 up to 4417400
- c Width A/F 13

CRANKSHAFT, PISTON, CYLINDER, SPRAG CLUTCH

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-------------------------------|-----------|----------|
| 1 | 250-055 | O-RING 18x2.5-N FPM 75 | 1 | \$1.78 |
| 2 | 940-520 | PLUG SCREW M22x1.5 | 1 | \$27.18 |
| 3 | 246-055 | WOODRUFF KEY 3x3.7 | 1 | \$3.73 |
| 4 | 852-407 | SPRAG CLUTCH HOUSING | 1 | \$130.88 |
| 5 | 958-856 | SPRAG CLUTCH 51.710x68.377x13 | 1 | \$312.00 |
| 6 | 845-425 | CIRCLIP 70 | 1 | \$7.60 |
| 7 | 942-250 | HEX. NUT M32x1.5-LH | 1 | \$24.29 |
| 8-10 | 888-382 | PISTON ASSEMBLY 84/84.01 MM | 4a | \$356.78 |
| 9 | 815-230 | OIL SCRAPER RING | 4 | \$67.49 |
| 10 | 815-280 | TAPERED COMPRESSION RING 84 | 4 | \$47.51 |
| 11 | 815-251 | RECTANGULAR RING 84/77x1.5 | 4 | \$82.75 |
| 12 | 916-356 | PISTON PIN 20x12x55.3 | 4 | \$81.25 |
| 13 | 845-106 | MONOHOOK CIRCLIP 20 | 8 | \$2.63 |
| 14 | 913-226 | CYLINDER | 4b | \$690.11 |
| 15 | 250-510 | O-RING 87x2 | 4 | \$26.49 |

- a red 84 mm, green 84.01 mm
- b A: 84.000 - 84.012 mm
B: 84.012 - 84.024 mm

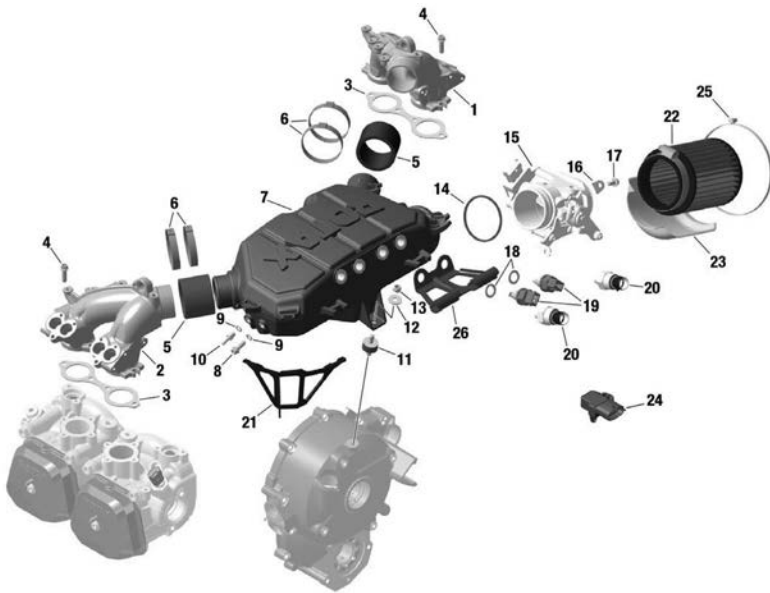
CRANKCASE

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|-----------|--------------------------------------|-----------|--------|
| 1 | 300091210 | ENGINE BLOCK | 1 | CALL |
| 2 | 429-230 | DOWEL 6x20 | 2 | \$2.50 |
| 3 | 431-570 | O-RING DIN 3771-10,82x1,78-N, FPM 70 | 8 | \$0.66 |
| 4 | 950-141 | SEALING RING A 8x13 | 1 | \$1.30 |
| 5 | 240-071 | ALLEN SCREW M8x20 | 1 | \$1.23 |
| 6 | 831-929 | O-RING 5x2 | 1 | \$4.54 |

- Items not illustrated



RTX



INTAKE MANIFOLD, AIRBOX, THROTTLE BODY SOCKET

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------------|-----------|------------|
| 1 | 667-400 | INTAKE MANIFOLD 1/3 | 1 | \$452.60 |
| 2 | 667-405 | INTAKE MANIFOLD 2/4 | 1 | \$452.60 |
| 3 | 850-091 | ISOLATING FLANGE 2b | 2b | \$6.53 |
| 4 | 440-207 | HEX./TORX-FLANGE SCREW M6x20-SW8/T30 | 8 | \$0.90 |
| 5 | 460-420 | CONNECTING SOCKET | 2 | \$6.47 |
| 6 | 853-028 | 1-EAR-CLAMP 48.3-51.5 MM | 4 | \$1.93 |
| 7 | 667-410 | AIRBOX | 1 | \$1,509.17 |
| 8 | 440-164 | HEX. TORX-FLANGE SCREW M6x16 | 1 | CALL |
| 9 | 230-415 | SEALING RING A 6x10 | 2 | \$1.40 |
| 10 | 840-670 | HOSE NIPPLE M6 | 1 | \$9.19 |
| 11 | 860-700 | RUBBER 20x10xM6 | 1 | \$23.11 |
| 12 | 827-968 | WASHER 6.4 | 1 | \$0.35 |
| 13 | 842-044 | LOCK NUT M6 | 1 | \$2.66 |
| 14 | 850-020 | RUBBER RING | 1 | \$3.43 |
| 15 | 685-055 | THROTTLE BODY SOCKET ASSEMBLY | 1 | \$399.00 |
| 16 | 953-020 | SEPARATING PLATE | 3 | \$1.78 |
| 17 | 440-147 | HEX./TORX-FLANGE SCREW M6x12-SW8T30 | 3 | \$1.78 |
| 18 | 250-015 | SEALING RING A12x18 | 2 | \$0.35 |
| 19 | 222-421 | TEMPERATURE SENSOR | 2 | \$33.15 |
| 20 | 664-364 | PRESSURE SENSOR 2.0 | 2 | \$309.41 |
| 21 | 951-560 | CONNECTOR BRACKET | 1 | \$48.10 |
| 22 | 825-750 | AIR FILTER | (1a) | \$68.88 |
| 23 | 975-100 | HEATSHIELD | (1) | \$16.66 |
| 24 | 874-654 | PRESSURE-/TEMP. SENSOR | 1c | \$286.10 |
| 25 | 951-500 | CLAMP 381x4.8 MM | (1) | \$5.27 |
| 26 | 651-780 | CONNECTOR BRACKET | 1 | CALL |

- Items not illustrated

a Air filter incl. hose clamp

b Double flange

c Ambient pressure and temperature

INTAKE MANIFOLD, AIRBOX, THROTTLE BODY SOCKET 912 IS SPORT

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------------|-----------|----------|
| 1 | 667-401 | INTAKE MANIFOLD 2/4 | 1 | CALL |
| 2 | 667-406 | INTAKE MANIFOLD 2/4 | 1 | CALL |
| 3 | 850-091 | ISOLATING FLANGE | 2 | \$6.53 |
| 4 | 440-207 | HEX./TORX-FLANGE SCREW M6x20-SW8/T30 | 8 | \$0.90 |
| 5 | 460-421 | CONNECTING SOCKET | 2 | CALL |
| 6 | 953-093 | 1-EAR-CLAMP 66.3-69.5 MM | 4 | CALL |
| 7 | 667-411 | AIRBOX | 1 | CALL |
| 8 | 440-164 | HEX. TORX-FLANGE SCREW M6x16 | 4 | CALL |
| 9 | 230-415 | SEALING RING A 6x10 | 1d | \$1.40 |
| 10 | 840-672 | HOSE NIPPLE M6 | 1d | CALL |
| 11 | 860-700 | RUBBER 20x10xM6 | 1 | \$23.11 |
| 12 | 827-968 | WASHER 6.4 | 1 | \$0.35 |
| 13 | 842-042 | LOCK NUT M6 | 1 | \$2.66 |
| 14 | 850-020 | RUBBER RING | 1 | \$3.43 |
| 15 | 685-055 | THROTTLE BODY SOCKET ASSEMBLY | 1 | \$399.00 |
| 16 | 953-020 | SEPARATING PLATE | 3 | \$1.78 |
| 17 | 440-147 | HEX./TORX-FLANGE SCREW M6x12-SW8T30 | 3 | \$1.78 |
| 18 | 250-015 | SEALING RING A12x18 | 2 | \$0.35 |
| 19 | 222-423 | TEMPERATURE SENSOR | 2 | \$33.15 |
| 20 | 664-362 | PRESSURE SENSOR 2.0 | 2 | \$309.41 |
| 21 | 951-562 | CONNECTOR BRACKET | 1 | CALL |
| 22 | 825-750 | AIR FILTER | (1b) | \$68.88 |
| 23 | 975-100 | HEATSHIELD | (1) | \$16.66 |
| 24 | 874-654 | PRESSURE/TEMPERATURE SENSOR | 1c | \$286.10 |
| 25 | 951-500 | CLAMP 381x4.8 MM | (1) | \$5.27 |
| 26 | 651-780 | CONNECTOR BRACKET | 1 | CALL |
| 27 | 638-140 | CLAMP | 2 | CALL |
| 28 | 440-000 | FIXING SCREW ASSEMBLY | 1a | CALL |

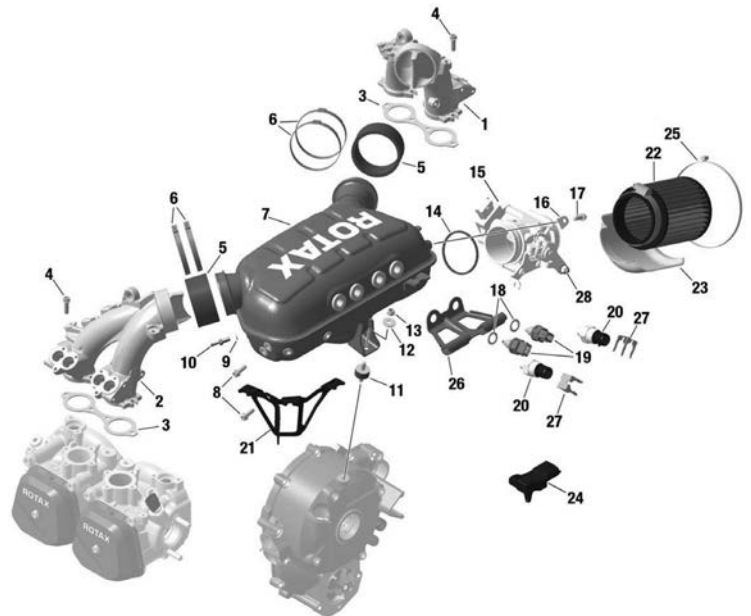
- Items not illustrated

a Screw, nut and washers

b Air filter including hose clamp

c Ambient pressure and temperature

d 840-671 + 230-415 is replaced by 840-672



912 iSERIES ENGINE

FUEL INJECTOR, FUEL RAIL, PRESSURE REGULATOR, FUEL RAIL COVER

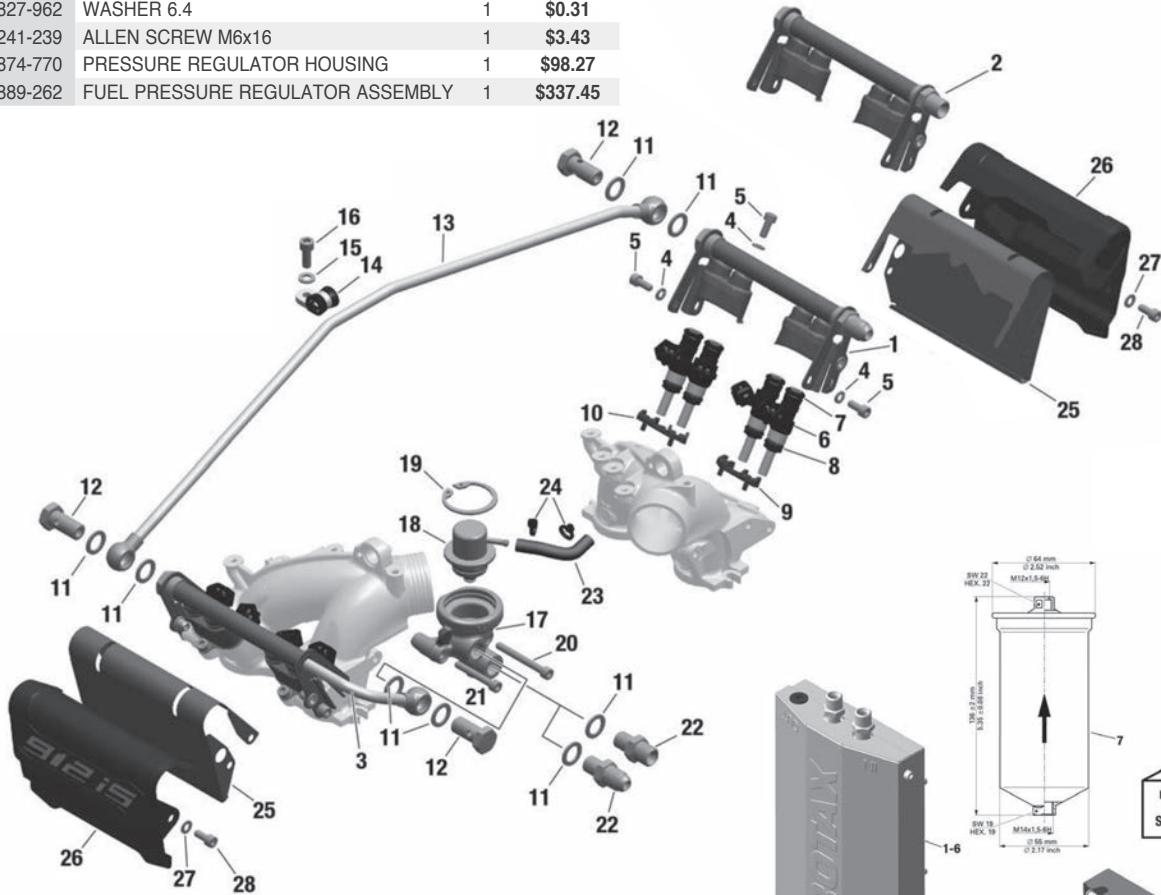
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1 | 874-795 | FUELRAIL RIGHT UNF | 1a | \$329.83 |
| 2 | 874-799 | FUELRAIL RIGHT METRIC | 1b | CALL |
| 3 | 874-797 | FUELRAIL LEFT | 1 | CALL |
| 4 | 945-830 | LOCK WASHER A5 | 11 | CALL |
| 5 | 640-542 | ALLEN SCREW M5x12 | 11 | \$0.35 |
| 6-8 | 874-780 | FUEL INJECTOR | 8 | \$181.29 |
| 7 | 831-060 | O-RING 7.52x3.51 | 8 | \$11.19 |
| 8 | 831-050 | O-RING 8.54x3.1 VITON B70 | 8 | \$6.50 |
| 9 | 860-042 | DAMPER LEFT | 2 | \$3.43 |
| 10 | 860-040 | DAMPER RIGHT | 2 | \$3.43 |
| 11 | 250-640 | SEALING RING A12x18-CU | 7 | \$1.92 |
| 12 | 641-542 | BANJO BOLT | 3 | CALL |
| 13 | 874-802 | FUEL LINE ASSEMBLY | 1 | CALL |
| 14 | 853-412 | CABLE CLAMP | 1 | \$5.69 |
| 15 | 827-962 | WASHER 6.4 | 1 | \$0.31 |
| 16 | 241-239 | ALLEN SCREW M6x16 | 1 | \$3.43 |
| 17 | 874-770 | PRESSURE REGULATOR HOUSING | 1 | \$98.27 |
| 18 | 889-262 | FUEL PRESSURE REGULATOR ASSEMBLY | 1 | \$337.45 |

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------------|-----------|---------|
| 19 | 845-650 | RETAINING RING 36x1.5 | 1 | \$1.78 |
| 20 | 941-791 | ALLENSCREW M5x45 | 1 | \$1.08 |
| 21 | 841-502 | ALLEN SCREW M5x35 | 1 | CALL |
| 22 | 840-700 | ADAPTER 9/16 UNF/M12x1.5 | 1 | \$65.99 |
| 22 | 856-821 | ADAPTER M 14x1.5/M12x1.5 METRIC | 1 | \$22.51 |
| 23 | 960-631 | TUBE 60 +/-3 MM | 1 | \$6.90 |
| 24 | 866-718 | TIE WRAP 94x2.5 MM | 2 | \$0.35 |
| 25 | 975-090 | HEAT SHIELD | 2 | \$7.92 |
| 26 | 975-060 | COVERING FUELRAIL | 2 | \$12.57 |
| 27 | 939-445 | SPRING WASHER 12x5.2x0.5 | 4 | CALL |
| 28 | 640-542 | ALLEN SCREW M5x12 | 4 | \$0.35 |

- Items not illustrated

a Thread 9/16 18 UNF

b Thread M14x1.5



FUEL PUMP ASSEMBLY COVER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------|-----------|------------|
| 1-6 | 889-697 | FUEL PUMP ASSEMBLY UNF | 1ad | \$1,316.51 |
| 1-6 | 889-699 | FUEL PUMP ASSEMBLY METRIC | 1bd | \$1,563.00 |
| 1 | 640-542 | ALLEN SCREW M5X12 | 4 | \$0.35 |
| 2 | 911-790 | COVER | 1 | \$65.67 |
| 3 | 975-055 | HEAT PROTECTION MAT | 1 | \$13.18 |
| 4 | 201-160 | RUBBER GROMMET | 2 | \$3.43 |
| 5 | 911-700 | HOUSING | 1 | \$69.49 |
| 6 | 242-213 | HEX. NUT M6 | 8 | \$1.58 |
| 7 | 874-060 | FUEL FILTER | 1c | \$53.42 |
| 8 | 889-537 | SERVICE KIT | 1 | CALL |
| 9 | 850-620 | CONNECTOR GASKET | 2 | CALL |

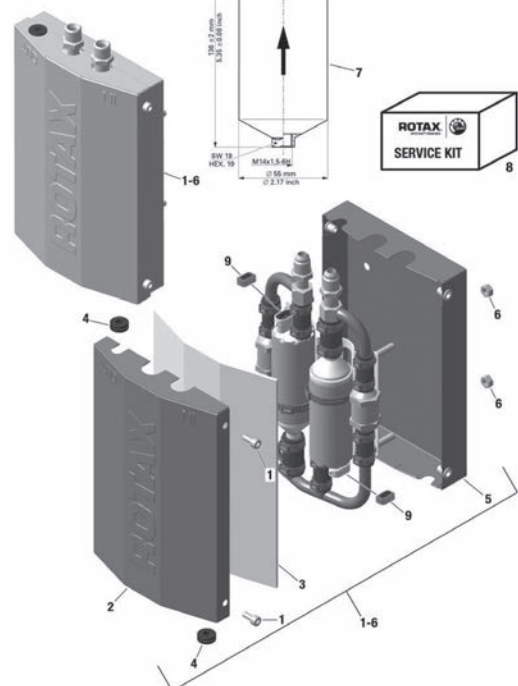
- Items not illustrated

a Thread 9/16 18 UNF

b Thread M14x1.5

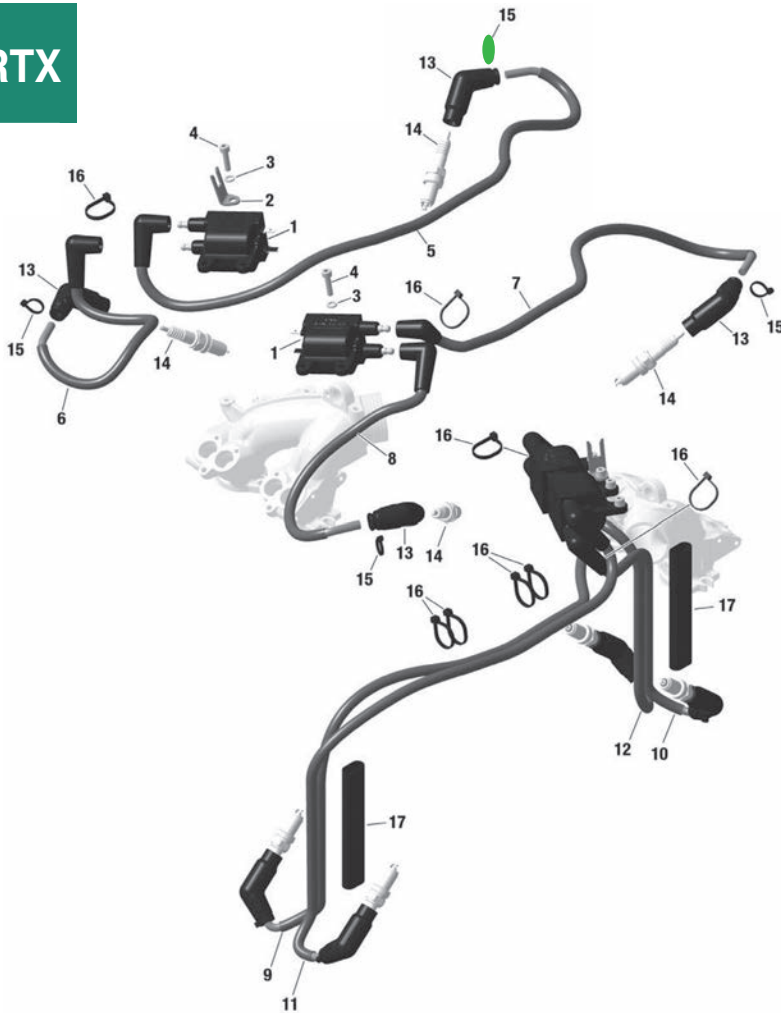
c Fine filter (see Installation Manual)

d with gaskets for connectors





RTX



IGNITION COILS, IGNITION CABLE, SPARK PLUG CONNECTOR, SPARK PLUG - STANDARD

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|---------|
| 2 | 951-490 | CONNECTOR BRACKET | 2 | \$3.71 |
| 3 | 945-830 | LOCK WASHER A5 | 8 | \$0.21 |
| 4 | 441-341 | ALLEN SCREW M5x20 | 8 | \$0.48 |
| 13 | 265-249 | SPARK PLUG CONNECTOR | 8 | \$41.50 |
| 14 | 297-656 | SPARK PLUG 12 | 8 | \$21.95 |
| 15 | 866-718 | TIE WRAP 94x2.5 MM | 8 | \$0.35 |
| 16 | 866-714 | TIE WRAP 142x3.2 MM | 4 | \$0.35 |
| 17 | 860-734 | GLASS FIBER-SILICON SHEETING 120 | 2 | \$8.35 |

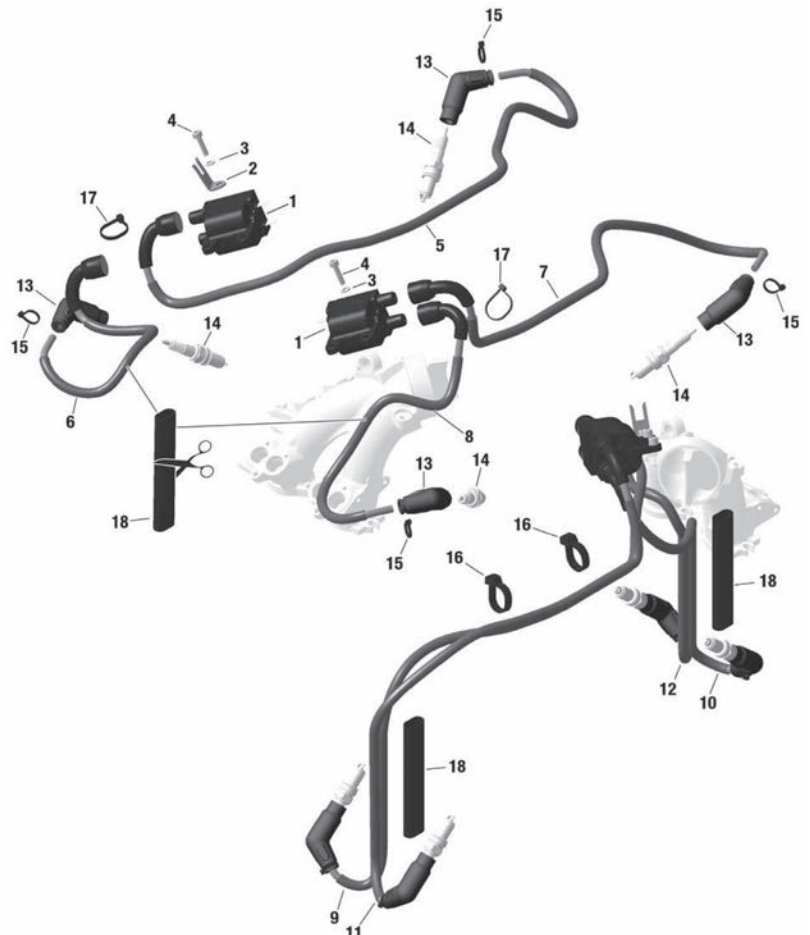
- Items not illustrated

IGNITION COILS, IGNITION CABLE, SPARK PLUG CONNECTOR, SPARK PLUG - iS SPORT

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1 | 665-613 | DOUBLE IGNITION COIL | 4b | \$339.00 |
| 2 | 951-490 | CONNECTOR BRACKET | 2 | \$3.71 |
| 3 | 945-830 | LOCK WASHER A5 | 8 | CALL |
| 4 | 441-341 | ALLEN SCREW M5x20 | 8 | \$0.48 |
| 5-12 | 665-558 | IGNITION CABLE SET | 1a | \$230.08 |
| 13 | 265-249 | SPARK PLUG CONNECTOR | 8 | \$41.50 |
| 14 | 297-656 | SPARK PLUG 12 NGK DCPR8E | 8 | \$21.95 |
| 15 | 866-718 | TIE WRAP 94x2.5 MM | 8 | \$0.35 |
| 16 | 866-716 | TIE WRAP 203x7.6 MM | 2 | \$0.66 |
| 17 | 866-714 | TIE WRAP 142x3.2 MM | 4 | \$0.35 |
| 18 | 860-734 | GLASS FIBER-SILICON SHEETING 120 | 3 | \$8.35 |

- Items not illustrated

- a Set for double ignition coil with high tension connector wood screw included:
- 8 ignition cable assy., 8 protective cap and 8 glass fiber-silicon sheating.
- b Double ignition coil with high tension connector wood screw use with part no. 665-558.
- c Double ignition coil and cable with plug connection



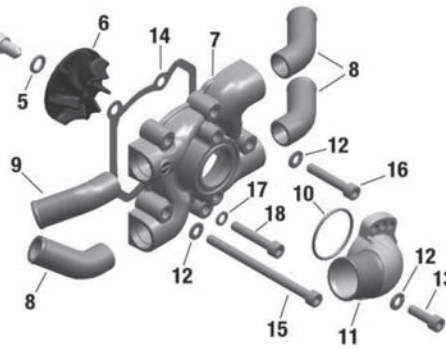


FUEL PUMP ASSEMBLY COVER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------|-----------|----------|
| 1 | 834-135 | WATER PUMP GEAR 15 T | 1 | \$96.42 |
| 2 | 850-977 | OIL SEAL A 12x30x7 FPM | 1 | \$35.71 |
| 3 | 850-946 | ROTARY SEAL | 1 | \$93.32 |
| 4 | 837-111 | PUMP SHAFT | 1 | \$86.58 |
| 5 | 926-274 | WASHER 8.2/12.5/1.5 | 1 | \$12.03 |
| 6 | 922-224 | IMPELLER | 1 | \$91.45 |
| 7 | 922-202 | WATER PUMP HOUSING | 1 | \$399.90 |
| 8 | 922-233 | BENT SOCKET 45° | 3 | \$17.84 |
| 9 | 922-234 | BENT SOCKET 20° | 1 | \$11.50 |
| 10 | 230-020 | O-RING 32x2 | 1 | \$9.93 |
| 11 | 922-218 | WATER INLET ELBOW | 1 | \$350.57 |
| 12 | 827-962 | WASHER 6.4 | 6 | \$0.31 |
| 13 | 241-930 | ALLEN SCREW M6x20 | 2 | \$0.57 |
| 14 | 850-981 | GASKET | 1 | \$12.27 |
| 15 | 241-482 | ALLEN SCREW M6x90 | 2 | \$2.64 |
| 16 | 241-814 | ALLEN SCREW M6x35 | 2 | \$0.63 |
| 17 | 230-415 | SEALING RING A 6x10 | 1 | \$1.40 |
| 18 | 241-813 | ALLEN SCREW M6x35 STAINLESS | 1 | \$1.45 |

RTX

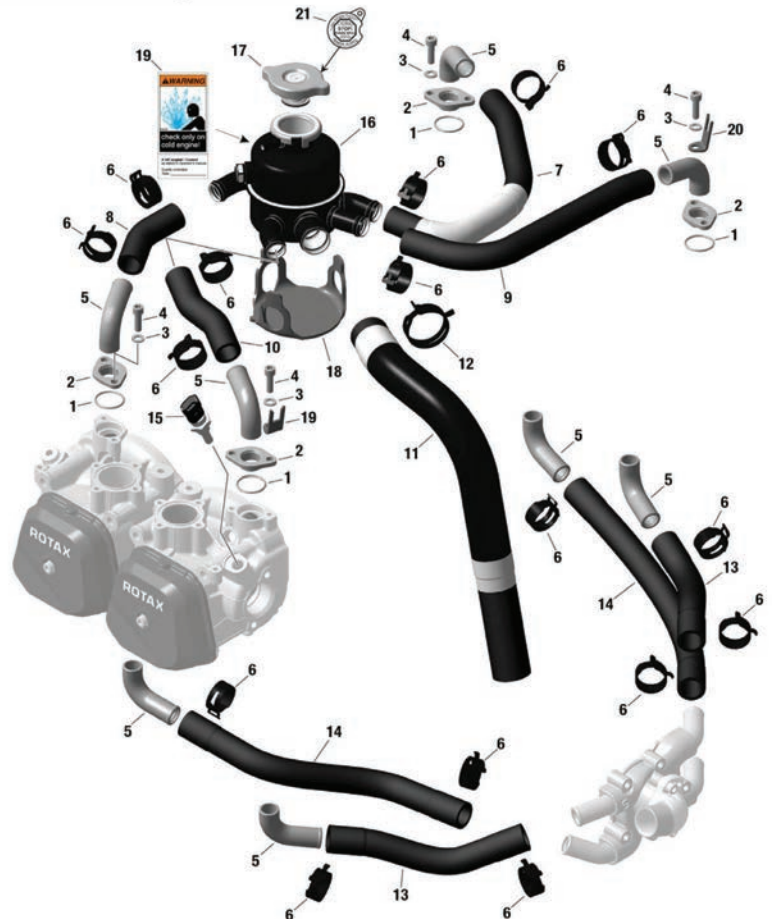
- Items not illustrated



EXPANSION TANK WITH HOSES AND CONNECTIONS

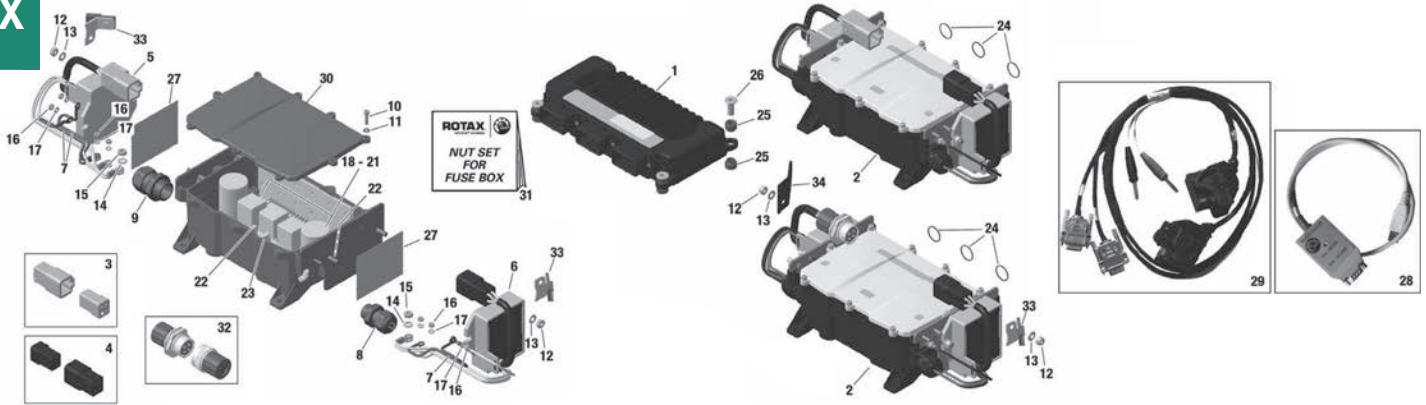
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---|-----------|----------|
| 1 | 950-180 | O-RING 19-2 | 4 | \$13.46 |
| 2 | 922-303 | FLANGE | 4 | \$56.43 |
| 3 | 827-962 | WASHER 6.4 | 8 | \$0.31 |
| 4 | 241-231 | ALLEN SCREW M6x20 | 8 | \$1.40 |
| 5 | 922-230 | BENT SOCKET 80° | 8 | \$17.84 |
| 6 | 851-645 | SELF COMPENSATING CLAMP 25 | 16 | \$7.14 |
| 7 | 822-420 | FORM HOSE 1 | 1 | \$23.39 |
| 8 | 822-430 | FORM HOSE 2 | 1 | \$5.23 |
| 9 | 822-440 | FORM HOSE 3 | 1 | \$22.65 |
| 10 | 822-445 | FORM HOSE 4 | 1 | \$11.19 |
| 11 | 822-450 | FORM HOSE | 1 | \$69.95 |
| 12 | 951-350 | SELF COMPENSATING CLAMP 35 | 1 | \$4.83 |
| 13 | 922-360 | WATER TUBE 180 +/-3 MM | 2 | \$41.40 |
| 14 | 922-362 | WATER TUBE 280 +/-3 MM | 2 | \$61.02 |
| 15 | 965-537 | TEMPERATURE SENSOR | 1 | \$182.07 |
| 16-19 | 922-668 | EXPANSION TANK ASSEMBLY | 1 | CALL |
| 17 | 922-072 | RADIATOR CAP WITH GASKET 1.2 bar / 17.4 psi | 1 | \$82.46 |
| 18 | 860-827 | RUBBER PLATE | 1 | \$15.58 |
| 19 | 897-506 | WARNING LABEL | 2 | \$5.69 |
| 20 | 951-490 | CONNECTOR BRACKET | 2 | \$3.71 |
| 21 | 898-490 | WARNING LABEL EVENS COOLANT | 1 | \$0.31 |

- Items not illustrated



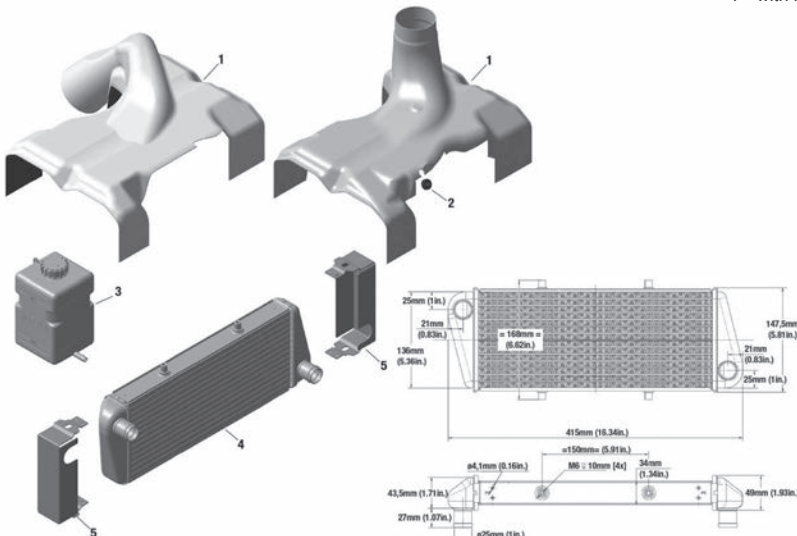


RTX



ENGINE CONTROL UNIT, FUSE BOX REGULATOR

| Item No. | Part No | Description | Qty. Req. | Sport | Price | Item No. | Part No | Description | Qty. Req. | Sport | Price |
|----------|---------|---|-----------|-------|------------|---|---------|---|-----------|-------|------------|
| 1 | 881-251 | ENGINE CONTROL UNIT ASSEMBLY PACKAGED | 1b | | \$4,700.08 | 24 | 931-110 | SEALING RING | 3 | | \$13.44 |
| 1 | 881-252 | ENGINE CONTROL UNIT ASSEMBLY PACKAGED | 1c | | \$7,192.00 | 25 | 201-460 | RUBBER SLEEVE | 8 | 8 | CALL |
| 2 | 881-321 | FUSE BOX PACKAGED | 1e | 1e | \$2,936.13 | 26 | 947-540 | SPACER | 4 | 4 | CALL |
| 2 | 881-325 | FUSE BOX PACKAGED (PAC part, available as accessory) | 1i | 1i | CALL | 27 | 282-870 | HEAT TRANSFER PAD | 2 | 2 | \$22.84 |
| 3 | 866-422 | CONNECTOR SET GREY | 1d | 1d | \$105.26 | 28 | 864-021 | B.U.D.S SET LEVEL 1 Aircraft Viewer for pilots/user | 1 | 1 | \$1,350.70 |
| 4 | 866-420 | CONNECTOR SET BLACK | 1d | 1d | \$120.29 | 28 | 864-022 | B.U.D.S SET LEVEL 2 Aircraft Service for maintenance personnel | 1 | 1 | \$1,240.00 |
| 5 | 864-395 | REGULATOR B | 1g | 1g | CALL | 28 | 864-023 | B.U.D.S SET LEVEL 3 Aircraft Maintenance for distributors/OEM | 1 | 1 | \$1,350.70 |
| 6 | 864-392 | REGULATOR A | 1h | 1h | \$353.00 | 29 | 864-280 | SERVICE WIRING HARNESS ASSEMBLY | 1 | 1 | \$106.66 |
| 7 | 866-440 | MASS CABLE ASSEMBLY | 3 | 3 | \$11.64 | 30 | 201-690 | COVER | 1 | 1 | \$150.74 |
| 8 | 201-370 | SKINTOP CLICK 20 | 1 | 1 | \$13.51 | 31 | 881-555 | NUT SET FOR FUSE BOX | 1f | 1f | CALL |
| 9 | 201-375 | SKINTOP CLICK 25 | 1 | 1 | \$13.51 | 32 | 481-510 | CONNECTOR SET GEN. B (PAC part, available as accessory) | 1 | 1 | CALL |
| 10 | 840-763 | ALLEN SCREW M4x16 | 9 | 9 | \$44.30 | 33 | 951-983 | CONNECTOR BRACKET | 1 | 1 | CALL |
| 11 | 827-230 | PLASTIC WASHER M4 | 9 | 9 | \$91.12 | 34 | 951-981 | CONNECTOR BRACKET | 1i | 1i | CALL |
| 12 | 842-044 | LOCK NUT M6 | 4 | 4 | \$2.66 | - Items not illustrated a Engine control unit with software SW 25. See SB-912 i-002iS. Only for model 912 iS. b Engine control unit with software SW 29. See SB-912 i-002iS. Only for model 912 iS. c Engine control unit with software SW 130. Only for model 912 iS Sport. d Connector set consisting of all parts for regulator and stator side e With M6 thread at regulator B f Consists of: 6x 242539 (lock nut M4), 6x 244078 (washer 4.3), 3x 244214 (washer 6.4), 3x 842044 (lock nut M6) g Connector gray h Connector black i with Amphenol connector | | | | | |
| 13 | 244-214 | WASHER 6.4 | 4 | 4 | \$1.00 | | | | | | |
| 14 | 927-573 | WASHER 5.3 | 2 | 2 | \$0.35 | | | | | | |
| 15 | 842-033 | LOCK NUT M5 | 2 | 2 | \$0.35 | | | | | | |
| 16 | 242-539 | LOCK NUT M4 | 6 | 6 | CALL | | | | | | |
| 17 | 244-078 | WASHER 4.3 | 6 | 6 | \$7.35 | | | | | | |
| 18 | 866-450 | MINI FUSE 2A | 2 | 2 | \$3.43 | | | | | | |
| 19 | 866-452 | MINI FUSE 5A | 10 | 10 | \$3.43 | | | | | | |
| 20 | 866-454 | MINI FUSE 7.5A | 2 | 2 | \$3.43 | | | | | | |
| 21 | 866-456 | MINI FUSE 10A | 5 | 5 | \$3.43 | | | | | | |
| 22 | 866-490 | ATO-FUSE 20A | 1 | 1 | \$3.43 | | | | | | |
| 23 | 866-492 | ATO-FUSE 35A | 1 | 1 | \$3.43 | | | | | | |



COOLING AIR BAFFLE, OVERFLOW BOTTLE WITH CAP, RADIATOR

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1 | 975-793 | COOLING AIR BAFFLE TRACTOR WHITE | (1a) | CALL |
| 1 | 975-794 | COOLING AIR BAFFLE TRACTOR BLACK | (1) | CALL |
| 1-2 | 975-792 | COOLING AIR BAFFLE PUSHER WHITE | (1) | CALL |
| 1-2 | 975-798 | COOLING AIR BAFFLE PUSHER BLACK | (1) | CALL |
| 2 | 201-160 | RUBBER GROMMET | (1) | \$3.43 |
| 3 | 922-327 | OVERFLOW BOTTLE WITH CAP | 1 | \$53.40 |
| 4 | 997-084 | RADIATOR | 1 | \$487.00 |
| 5 | 881-530 | RADIATOR RETROFIT KIT | 1 | CALL |

- Items not illustrated
a not applicable with vacuum pump

912 iSERIES ENGINE

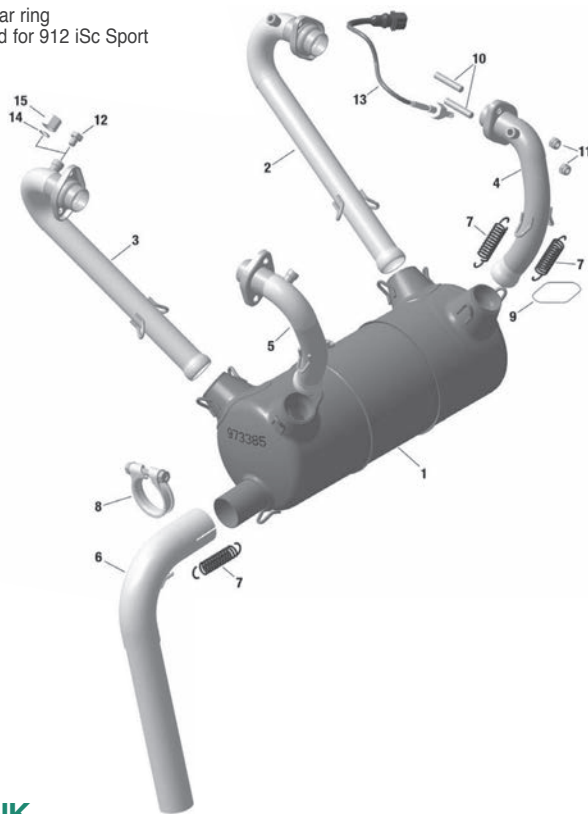
EXHAUST SYSTEM, EXHAUST TEMPERATURE SENSOR

| Item No. | Part No. | Description | Qty. Req. | Price |
|----------|----------|---------------------------------------|-----------|----------|
| 1-7 | 973-676 | EXHAUST SYSTEM | (1) | \$970.31 |
| 1 | 973-674 | MUFFLER ASSEMBLY | (1) | \$919.72 |
| 2 | 978-605 | EXHAUST ELBOW, STAINLESS | (1) | \$86.75 |
| 3 | 978-521 | BALL JOINT, MALE STAINLESS | (4) | \$25.82 |
| 4 | 978-998 | EXHAUST TUBE 800 MM, STAINLESS | (4) | \$87.51 |
| 5 | 978-500 | EXHAUST ELBOW ASSEMBLY 360° STAINLESS | (2a) | CALL |
| 6 | 853-356 | HOOK | (16) | \$2.13 |
| 7 | 938-796 | SPRING 66 MM | (8) | CALL |
| 8 | 951-360 | SENSOR HOLDER | (4) | \$18.88 |
| 9 | 978-246 | EXHAUST FLANGE | (4) | \$32.61 |
| 10 | 978-252 | EXHAUST SOCKET | (4) | \$31.70 |

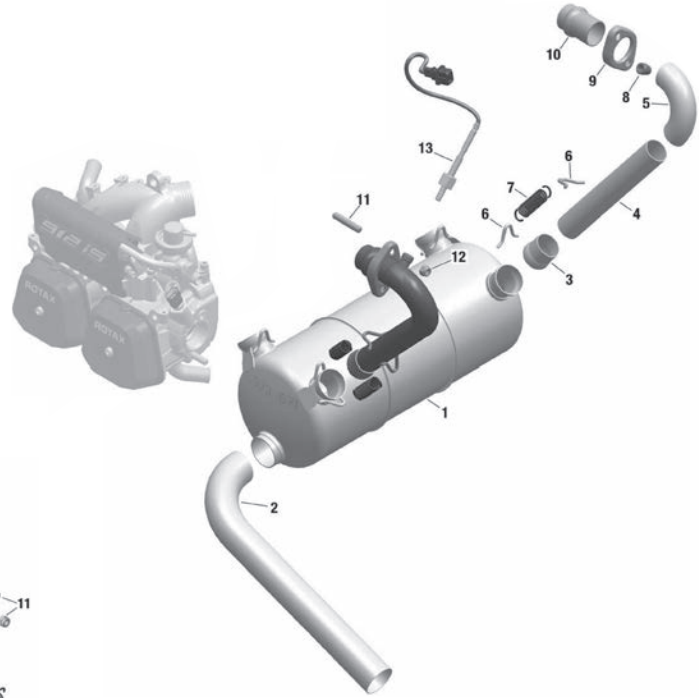
- Items not illustrated

a 360° circular ring

b not certified for 912 iSc Sport



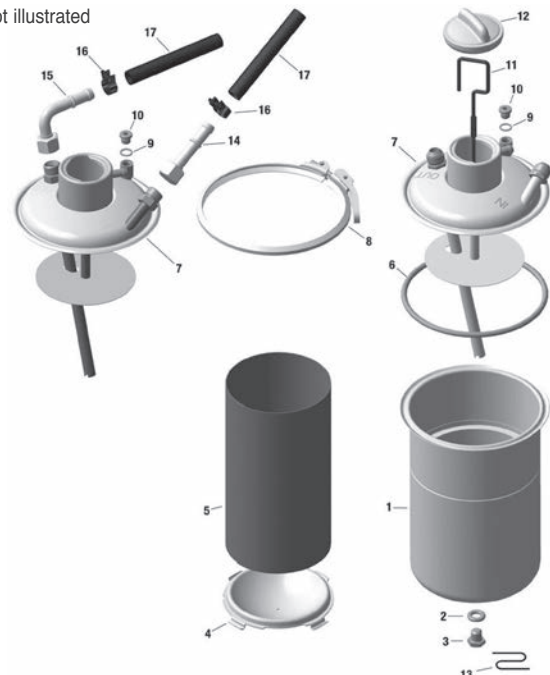
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EXHAUST SYSTEM (STANDARD)

| Item No. | Part No. | Description | Qty. Req. | Price |
|----------|----------|----------------------------------|-----------|------------|
| 1-8,12 | 973-380 | EXHAUST ASSORTMENT STAINLESS | (1) | \$1,450.00 |
| 1 | 973-388 | MUFFLER ASSEMBLY | (1) | \$1,011.00 |
| 2 | 973-010 | EXHAUST PIPE ASSEMBLY CYLINDER 1 | (1) | CALL |
| 3 | 973-020 | EXHAUST PIPE ASSEMBLY CYLINDER 2 | (1) | \$653.98 |
| 4 | 973-030 | EXHAUST PIPE ASSEMBLY CYLINDER 3 | (1) | \$581.42 |
| 5 | 973-040 | EXHAUST PIPE ASSEMBLY CYLINDER 4 | (1) | \$653.98 |
| 6 | 973-390 | EXHAUST BELOW, STAINLESS | (1) | \$249.95 |
| 7 | 938-796 | SPRING 66 MM | (9) | CALL |
| 8 | 951-550 | EXHAUST PIPE CLAMP ASSEMBLY | (1) | \$22.30 |
| 9 | 297-555 | SAFETY WIRE 0.8 | AR | CALL |
| 10 | 940-368 | STUD M8x23/20 | (8) | \$6.50 |
| 11 | 842-950 | LOCK NUT M8-WS12 | (8) | \$2.66 |
| 12 | 841-115 | HEX. SCREW M8X1X10 | (4) | CALL |
| 13 | 866-261 | TEMPERATURE SENSOR | (4) | \$193.00 |
| 14 | 230-150 | SEALING RING A 10x14 | (4) | \$1.09 |
| 15 | 942-273 | CAP NUT M14x1.5 | (4) | \$18.52 |

- Items not illustrated



OIL TANK

| Item No. | Part No. | Description | Qty. Req. | Price |
|----------|----------|--------------------------------------|-----------|----------|
| 1-12 | 656-860 | OIL TANK ASSEMBLY UNF | 1a | \$827.13 |
| 1-12 | 656-865 | OIL TANK ASSEMBLY METRIC | 1b | \$811.91 |
| 1 | 956-426 | OIL TANK ASSEMBLY WITH BAFFLE INSERT | 1 | CALL |
| 2 | 250-010 | GASKET RING C 12x18 | 1 | \$1.71 |
| 3 | 241-408 | HEX. SCREW M12x12 | 1 | \$43.71 |
| 5 | 956-204 | BAFFLE INSERT | 1 | \$67.19 |
| 6 | 850-491 | O-RING 145x6-N, HNBR 70 | 1 | \$31.55 |
| 8 | 951-817 | PROFILE CLAMP 163 | 1 | \$72.58 |
| 9 | 230-150 | SEALING RING A 10x14 | 1 | \$1.09 |
| 10 | 641-733 | PLUG SCREW M10x1 | 1 | \$10.70 |
| 11 | 956-151 | OIL DIPSTICK | 1 | \$18.68 |
| 12 | 974-647 | OIL TANK COVER, WITHOUT VENTING | 1 | \$32.15 |
| 13 | 297-555 | SAFETY WIRE 0.8 | 1 | CALL |
| 14 | 956-610 | HOSE NIPPLE WITH UNION NUT | ARb | \$20.91 |
| 15 | 956-580 | BENT SOCKET | ARb | CALL |
| 16 | 853-725 | CLAMP SP 17/9 | 4 | CALL |
| 17 | 956-394 | OIL TUBE OLNLS 1 12x19 | AR | CALL |

- Items not illustrated / AR: as required / NLA: not available

a UNF thread size 3/4" - 16 UNF

b metric thread M18 x 1.5 mm

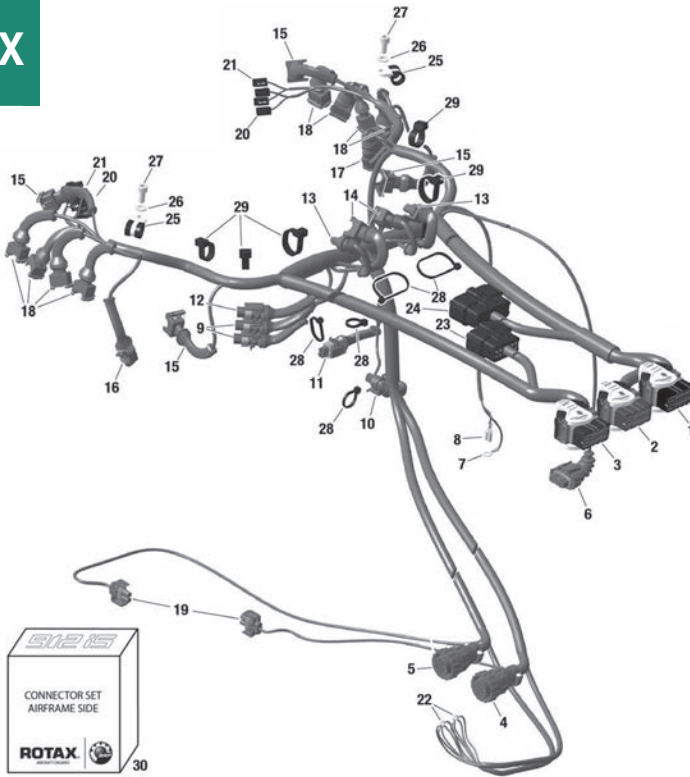


RTX

WIRING HARNESS

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------------|-----------|------------|
| 1-24 | 665-571 | WIRING HARNESS STANDARD | 1 | \$1,545.55 |
| 1-24 | 665-580 | WIRING HARNESS STANDARD | 1 | CALL |
| 1-24 | 665-584 | WIRING HARNESS SPECIAL | 1 | CALL |
| 1-24 | 665-582 | WIRING HARNESS SHORT | 1 | CALL |
| 4-5 | 881-312 | CONNECTOR SET FUSE BOX | 1 | \$181.01 |
| 6 | 881-306 | CONNECTOR SET AAPTS | 1 | \$49.85 |
| 7 | 964-059 | CABLE SHOE M6 | 1 | \$1.23 |
| 8 | 864-011 | FASTON CONNECTOR 6.3X0.8 | 1 | \$1.23 |
| 9 | 881-298 | CONNECTOR SET CPS | 2 | \$47.99 |
| 10 | 881-302 | CONNECTOR SET OPS AND MAPS | 1 | \$40.65 |
| 11 | 881-296 | CONNECTOR SET CTS A OTS A KNOCK | 1 | \$39.84 |
| 14 | 881-292 | CONNECTOR SET MATS | 2 | \$35.37 |
| 15 | 881-290 | CONNECTOR SET EGT | 4 | \$40.88 |
| 17 | 881-308 | CONNECTOR SET TPS | 1 | \$33.60 |
| 18 | 881-300 | CONNECTOR SET INJ | 8 | \$35.37 |
| 19 | 881-304 | CONNECTOR SET FUEL PUMP | 2 | \$135.49 |
| 20-21 | 881-310 | CONNECTOR SET IGNITION COIL | 4 | \$25.34 |
| 23-24 | 881-294 | CONNECTOR SET HIC A AND HIC B | 1 | \$191.16 |
| 25 | 251-692 | CABLE CLAMP 12/M6 | 2 | \$3.43 |
| 26 | 827-962 | WASHER 6.4 DIN 125 | 2 | \$0.31 |
| 27 | 840-392 | ALLEN SCREW M6X14 | 2 | \$1.10 |
| 28 | 866-716 | TIE WRAP 203x7.6 MM | 6 | \$0.66 |
| 29 | 866-714 | TIE WRAP 142x3.2 MM | 6 | \$0.35 |
| 30 | 881-240 | PARTS KIT 912 IS | 1 | \$194.12 |

- Items not illustrated

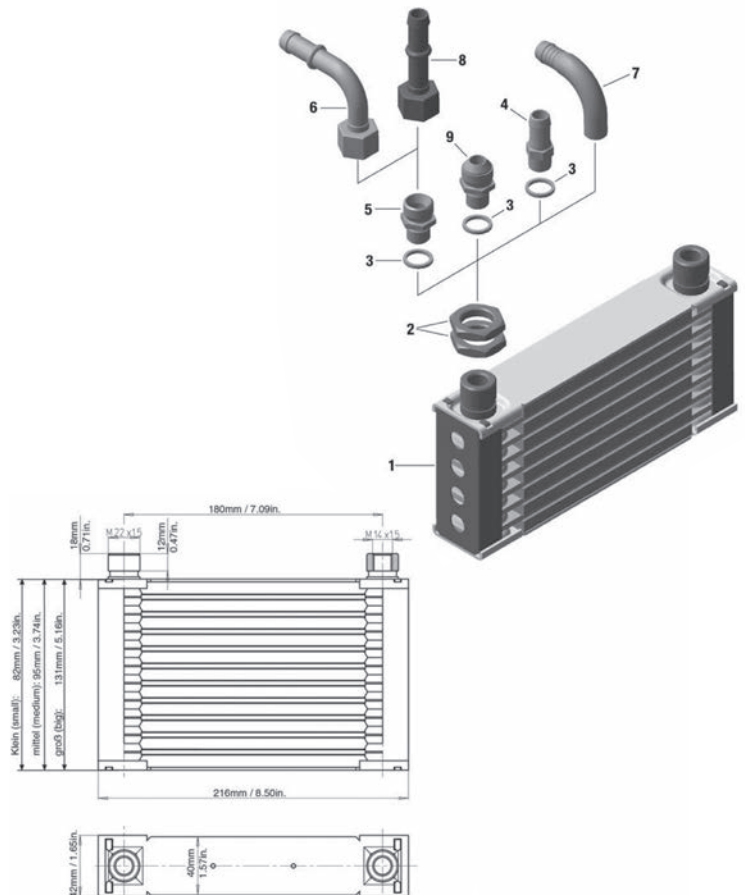


OIL RADIATOR

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-------------------------------|-----------|----------|
| 1-4 | 886-032 | OIL RADIATOR SET | (1a) | \$302.09 |
| 1-4 | 886-033 | OIL RADIATOR SET | (1b) | \$264.01 |
| 1-4 | 886-034 | OIL RADIATOR SET | (1c) | CALL |
| 1-3,9 | 886-036 | OIL RADIATOR SET UNF | (1cd) | \$299.00 |
| 1 | 886-000 | OIL RADIATOR | (1a) | \$290.64 |
| 1 | 886-002 | OIL RADIATOR | (1b) | \$309.80 |
| 1 | 886-004 | OIL RADIATOR | (1c) | \$328.89 |
| 2 | 242-873 | HEX NUT M22x1.5 | (4) | \$16.16 |
| 2,3,9 | 956-645 | SCREW CONNECTION SET UNF | (1) | \$115.70 |
| 3,5,8 | 956-615 | SCREW CONNECTION SET STRAIGHT | (1) | \$115.70 |
| 3,5,6 | 956-585 | SCREW CONNECTION SET BENT | (1) | \$101.43 |
| 3 | 230-387 | GASKET RING 14.2/18/2 | (2) | \$1.51 |
| 4 | 840-461 | NIPPLE 13.2/9.5-M14x1.5 | (2) | \$18.98 |
| 5 | 956-577 | ADAPTER M18x1.5/M14x1.5 | (2) | \$54.70 |
| 6 | 956-580 | BENT SOCKET ASSEMBLY | (2) | \$30.80 |
| 7 | 924-585 | ANGULAR TUBE M14x1.5 | (2) | \$74.50 |
| 8 | 956-610 | HOSE NIPPLE WITH UNION NUT | (2) | \$20.91 |
| 9 | 956-643 | ADAPTER 3/4-16 UNF/M14x1.5 | (2) | \$68.93 |

- Items not illustrated / AR: as required / NLA: not available

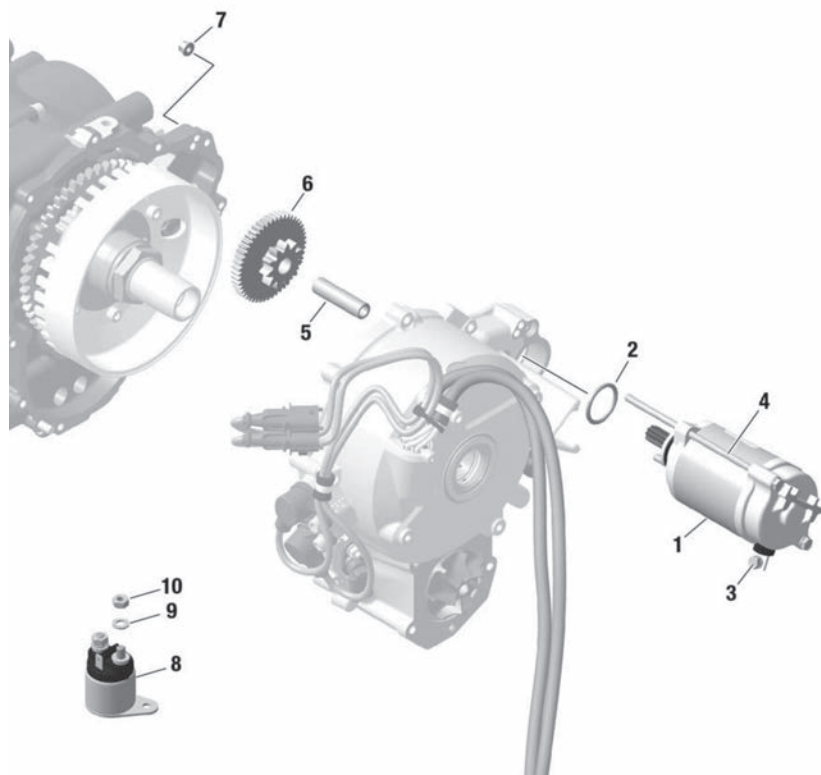
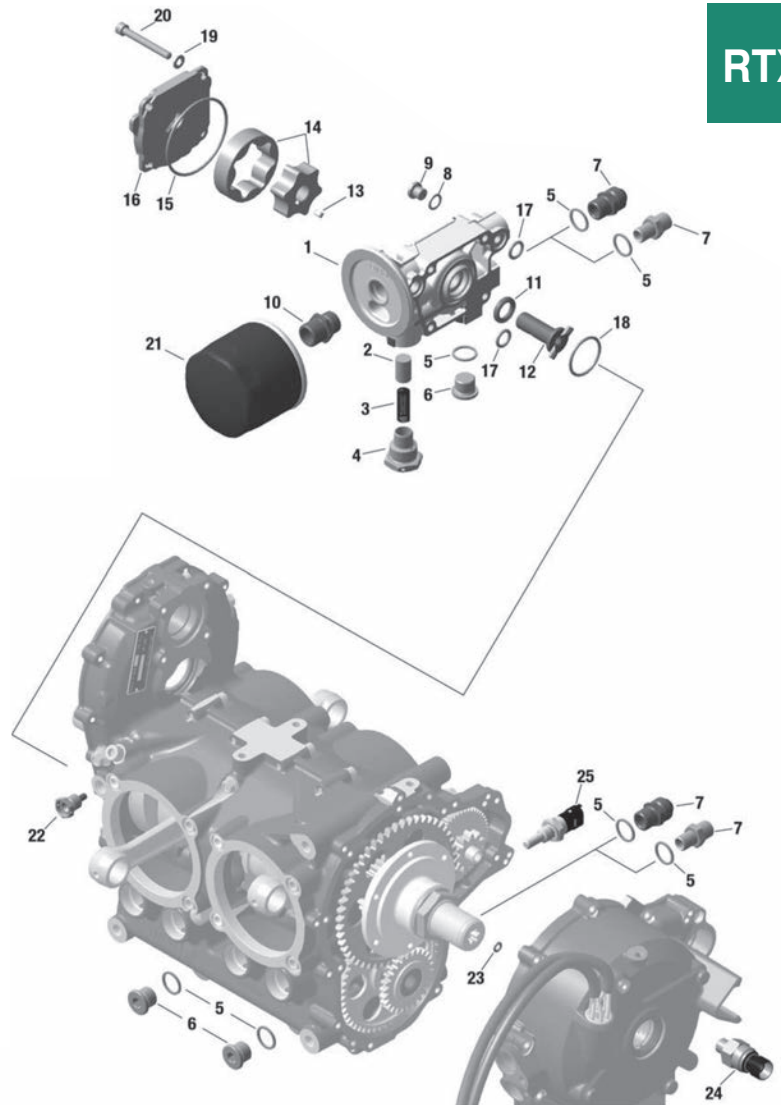
- a Small. Cooling area 125 cm²/19.38 sq in
- b Middle. Cooling area 142 cm²/22 sq in
- c Big. Cooling area 234 cm²/36.27 sq in
- d Connection UNF



OIL PUMP ASSEMBLY, OIL FILTER, OIL TEMPERATURE SENSOR, OIL PRESSURE SENSOR

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------|-----------|----------|
| 1 | 811-460 | OIL PUMP HOUSING | 1 | \$666.60 |
| 2 | 856-330 | REGULATING PISTON | 1 | \$18.42 |
| 3 | 838-125 | COMPRESSION SPRING L65.6 | 1 | \$3.43 |
| 4 | 640-850 | PLUG SCREW M 22x1.5 | 1 | \$38.22 |
| 5 | 430-622 | SEALING RING A16x22 | 5 | \$2.50 |
| 6 | 240-234 | PLUG SCREW M16x1.5 | 3 | \$10.79 |
| 7 | 956-655 | ADAPTER M18x1.5 / M16x1.5 | 2 | \$59.72 |
| 7 | 956-651 | ADAPTER 3/4-16 UNF / M16x1.5 | 2 | \$90.35 |
| 8 | 230-150 | SEALING RING A 10x14 | 1 | \$1.09 |
| 9 | 641-733 | PLUG SCREW M10x1 | 1 | \$10.70 |
| 10 | 924-424 | OIL FILTER NIPPLE | 1 | \$51.79 |
| 11 | 430-102 | OIL SEAL A 14x22x4 FPM | 1 | \$10.36 |
| 12 | 837-292 | OIL PUMP SHAFT | 1 | \$66.11 |
| 13 | 246-580 | KEY A 4x4x8 | 1 | \$1.78 |
| 14 | 888-821 | PRESSURE INNER AND OUTER ROTOR | 1 | \$78.82 |
| 15 | 830-372 | O-RING 63-2.5 | 1 | \$3.50 |
| 16 | 911-713 | OIL PUMP COVER | 1 | \$80.15 |
| 17 | 250-460 | O-RING 11-2.7 | 2 | \$5.93 |
| 18 | 950-410 | O-RING 30-2.5 | 1 | \$12.98 |
| 19 | 827-962 | WASHER 6.4 | 4 | \$0.31 |
| 20 | 241-762 | ALLEN SCREW M6x50 | 4 | \$0.94 |
| 21 | 825-016 | OIL FILTER | 1 | \$19.95 |
| 22 | 241-785 | MAGNETIC DRAIN PLUG M12x1.5 | 1 | \$58.73 |
| 24 | 664-365 | PRESSURE SENSOR 10 | 1 | \$301.82 |
| 25 | 965-537 | TEMPERATURE SENSOR | 1 | \$182.07 |

- Items not illustrated

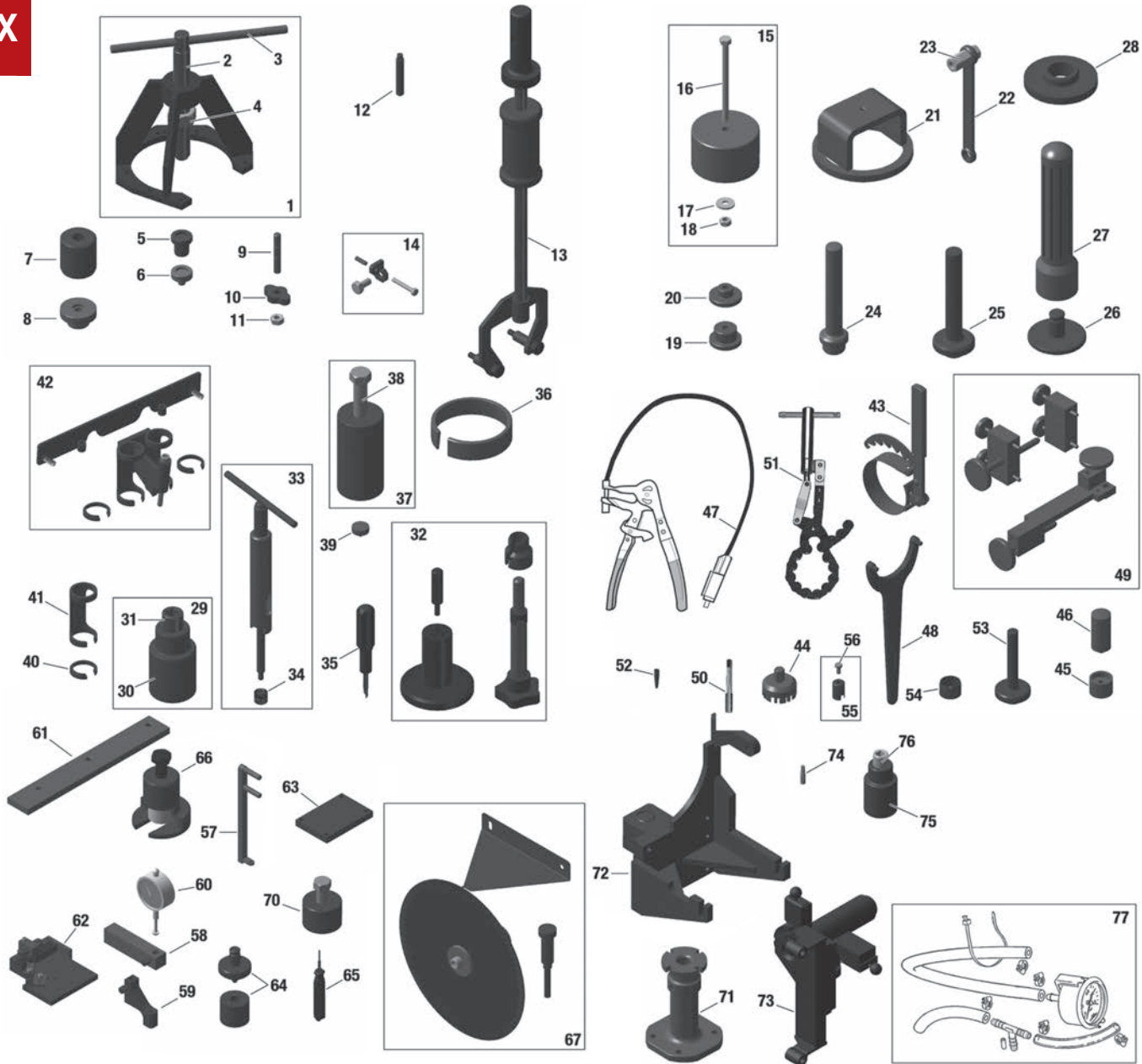


ELECTRIC STARTER, STARTER RELAY

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------|-----------|----------|
| 1-4 | 685-667 | ELECTRIC STARTER ASSEMBLY | 1 | \$699.00 |
| 2 | 250-140 | O-RING 24.4x3.1 | 1 | \$7.14 |
| 3 | 240-457 | TERMINAL SCREW M5x8 | 1 | CALL |
| 4 | 241-132 | SET BOLT M5x143 | 2 | CALL |
| 5 | 837-102 | IDLE GEAR SHAFT | 1 | \$27.60 |
| 6 | 834-156 | IDLE GEAR 50/11 T | 2 | \$190.43 |
| 7 | 942-311 | HEX. NUT M5 | 2 | \$20.67 |
| 8 | 992-818 | STARTER RELAY ASSEMBLY | 1 | \$199.75 |
| 9 | 945-831 | LOCK WASHER A6 | 2 | \$0.23 |
| 10 | 242-214 | HEX. NUT M6 | 2 | CALL |

- Items not illustrated

RTX



REPAIR TOOLS (NON CERTIFIED)

| Item No. | Application | Item No. | Application | Item No. | Application |
|----------|--|----------|---|----------|---|
| 1-4 | Roller bearing 25x25x15, oil seal 30x52x7 | 32 | Fitting of piston pin circlips | 55 | For check of float chamber |
| 5 | Prop shaft version 2 | 33-34 | Fitting and removal of piston pin | 56 | For float level gauge |
| 6 | Prop shaft version 3 | 35 | Mono hook clips puller | 57 | Checking of hydraulic valve tappet and valve spring force |
| 7 | Roller bearing 25x52x15, oil seal 30x52x7, version 2 | 36 | Piston diameter 84 mm/3.3 in. | 58 | Checking plain bearing protrusion |
| 8 | Roller bearing 25x52x15, oil inlet flange version 3 | 36 | Piston diameter 79.5 mm/3.13 in. | 59-60 | Dial gauge |
| 9 | Roller bearing 25x52x15, oil seal 30x52x7 | 37-38 | Puller Magneto hub | 61 | Checking plain bearing position |
| 10-11 | Roller bearing 25x52x15, oil seal 30x52x7, oil inlet cover | 39 | Crankshaft magneto side | 62 | Dial gauge adapter for valve seat inspect |
| 12 | Crankshaft locking screw M8x50 | 40 | Adapter ring assy. for valve spring mounting device | 63 | For aligning cylinders |
| 13-14 | Gearbox | 40-42 | Installation/Removal of valve spring | 64 | Oil seal 6x11x3/ 4.5 of rev counter housing |
| 15-18 | Ball bearing 15x32x8, Oil inlet flange, oil inlet cover | 43 | Oil filter removal | 65 | To release the cable on electr. connectors |
| 19 | Needle bearing 22x28x12-vacuum pump | 44 | Waterpump impeller | 66 | For press in of worm gear, mech. rev counter |
| 20 | Ball bearing 15x32x8-vacuum pump | 45 | Rotary seal crankcase | 67 | See MM Line chapt. 05-50-00 |
| 21 | To compress dog gear | 46 | Oil Seal 12x30x7 water pump shaft | 70 | Slim edition for magneto hub |
| 22 | Ring wrench 10/13 | 47 | Spring type hose clip 28 | 71 | Engine support |
| 23 | Fixture for vacuum pump drive | 48 | Overload clutch | 72 | For engine fixation (912 with engine suspension frame on the gearbox/914) |
| 24 | Ball bearing 15x32x8, needle sleeve vacuum pump | 49 | Crankcase | 73 | For engine fixation (912/914) without engine suspension frame |
| 25 | Oil seal 22x32x7 vacuum pump | 50 | Thread bent socket | 74 | For magnetic drain plug (old version) |
| 26 | Oil seal 40x55x7 gear box cover | 51 | Oil filter | 75 | Hex. nut (WS 46), crankshaft magneto side |
| 27 | Stamp | 52 | For O-ring 3.2x1.8 idle mixture screw and idle jet 35 | 76 | 1" to 3/4", for socket wrench |
| 28 | Ball bearing 35-72-17, prop. shaft handle with part no. 876518 | 53 | Oil Seal 32x52x7 crankshaft magneto side (ms) | 77 | Measuring fuel pressure |
| 29-31 | Hex nut A/F 41 | 54 | Oil Seal 32x52x7 crankshaft ms | | |

REPAIR TOOLS (NON CERTIFIED) CONT'D

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------|-----------|----------|
| 1-4 | 877-615 | EXTRACTOR ASSEMBLY | 1 | \$787.40 |
| 2 | 877-580 | PULL -IN SPINDLE M24x1.5 | 1 | \$126.12 |
| 3 | 276-155 | BOLT 12X250 | 1 | \$23.77 |
| 4 | 842-585 | HEX. SCREW M24X1.5 - 19MM | 1 | \$87.23 |
| 5 | 877-605 | PRESS-OUT MUSHROOM | 1 | \$63.71 |
| 6 | 877-600 | PRESS-OUT MUSHROOM | 1 | \$66.39 |
| 7 | 877-594 | PRESS-IN JIG | 1 | \$136.67 |
| 8 | 877-590 | PRESS-IN MUSHROOM | 1 | \$66.39 |
| 9 | 941-180 | STUD M10X45/20 | 1 | \$5.69 |
| 10 | 877-561 | PULL-OUT PLATE | 1 | \$150.12 |
| 11 | 242-092 | HEX. NUT M10 | 1 | \$1.38 |
| 12 | 240-880 | THREAD BOLT M8X50 | 1 | \$6.69 |
| 13 | 877-660 | PULLER ASSEMBLY | 1 | \$522.70 |
| 14 | 877-540 | PUSHING JIG ASSEMBLY | 1 | \$209.17 |
| 15-18 | 876-489 | PULLER ASSEMBLY | 1 | \$126.12 |
| 16 | 941-730 | HEX. SCREW M6X80 | 1 | \$2.45 |
| 17 | 827-305 | WASHER 6.2/18/2 | 1 | \$5.61 |
| 18 | 242-211 | HEX. NUT M6 | 1 | \$0.41 |
| 19 | 877-597 | PRESS-IN MUSHROOM | 1 | \$63.71 |
| 20 | 877-595 | PRESS-IN MUSHROOM | 1 | \$63.71 |
| 21 | 876-885 | MOUNTING YOKE | 1 | \$207.88 |
| 22 | 876-470 | RING SPANNER 10/13 | 1 | \$14.77 |
| 23 | 242-661 | DISTANCE NUT M8X33 | 1 | \$54.77 |
| 24 | 276-332 | INSERTION JIG ASSEMBLY | 1 | \$87.44 |
| 25 | 877-276 | INSERTION JIG ASSEMBLY | 1 | \$94.16 |
| 26 | 876-518 | INSERTION JIG | 1 | \$144.15 |
| 27 | 877-650 | HANDLE FOR INSERTION JIG | 1 | \$132.11 |
| 28 | 877-320 | PRESS-IN RING | 1 | \$76.66 |
| 29 | 877-445 | SOCKET WRENCH ASSEMBLY 41X12.5 | 1 | \$355.59 |
| 30 | 877-440 | SOCKET WRENCH A/F 41X20 | 1 | \$23.99 |
| 31 | 877-460 | REDUCING SOCKET 3/4"-1/2" | 1 | \$87.44 |
| 32 | 877-802 | CIRCLIP INSTALLATION TOOL | 1 | \$614.92 |
| 33-34 | 877-091 | PISTON PIN EXTRACTOR ASSEMBLY | 1 | \$435.58 |
| 34 | 877-155 | EXTRACTING NUT ASSEMBLY | 1 | \$76.95 |
| 35 | 976-380 | MONOHOOK CIRCLIP REMOVER | 1 | \$192.52 |
| 36 | 876-967 | PISTON RING SPANNER 84 MM | 1 | \$141.11 |
| 36 | 876-978 | PISTON RING SPANNER 79.5 MM | 1 | \$135.98 |
| 37-38 | 877-379 | PULLER ASSEMBLY | 1 | \$144.15 |
| 38 | 940-755 | HEX. SCREW M16X1.5X150 | 1 | \$37.91 |
| 39 | 877-417 | PROTECTION MUSHROOM | 1 | \$38.21 |
| 40 | 877-790 | ADAPTER RING ASSEMBLY | 1 | \$73.98 |

LUBRICANTS (NON CERTIFIED)

| Item No. | Application |
|----------|---|
| B | Medium strength bond 10 cc. |
| C | High strength bond 5 cc. |
| E | To prevent metal galling 50 cc. |
| F | Purpose cleaner and degreaser for residue-free surface preparation prior to adhesive application. |
| H | Filter oil spray can |
| Q | Ideal for sealing wire entries and connectors, for vibration damping of exhaust springs |
| I | To prevent leakage current; 250 gr. |
| L | Synthetic long-term grease with excellent low temperature behavior |
| M | Solid lubricant paste for the assembly and running-in of metal components |
| P | Regular body/high adhesion flexible flange sealant |
| V | Special lacquer which is applied to a screw to prevent an independent loosening of the screw |
| Z | High strength bond 10 cc. |
| AG | For better heat transfer from the spark plugs |

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---|-----------|----------|
| B | 897-651 | LOCTITE 243 BLUE, 10cc. | AR | \$18.50 |
| C | 899-788 | LOCTITE 648 GREEN, 5 cc. | AR | \$21.50 |
| E | 297-434 | LOCTITE ANTI SEIZE 8151 50 cc. | AR | \$31.17 |
| H | 897-870 | FILTER OIL 14.8 cc. | AR | \$25.86 |
| I | 897-330 | LITHIUM-BASE GREASE, 250 GR., | AR | \$63.89 |
| L | 898-351 | KLUEBER ISOFLEX TOPAS NB5051 0.5KG | AR | \$332.01 |
| M | 297-433 | MOLYKOTE G-N 100GR. | AR | \$97.56 |
| P | 899-791 | LOCTITE 5910, 50 cc. | AR | \$54.95 |
| Q | 297-386 | SILASTIC 732 RTV, 100GR. | AR | \$53.19 |
| V | 898-570 | LOCKING PAINT RED | AR | \$56.18 |
| Z | 899-789 | LOCTITE 603 GREEN, 10 cc. | AR | \$36.67 |
| AG | 897-186 | SILICONE HEAT COMPOUND WACKER P12, 150GR. | AR | \$164.50 |

RTX

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--|-----------|------------|
| 41 | 877-380 | VALVE SPRING MOUNTING DEVICE | 1 | \$146.51 |
| 42 | 877-387 | VALVE SPRING LOADING JIG | 1 | \$531.62 |
| 43 | 877-620 | OIL FILTER WRENCH 80-110 | 1 | \$138.14 |
| 44 | 877-295 | IMPELLER WRENCH ASSEMBLY | 1 | \$191.53 |
| 45 | 877-258 | INSERTION JIG | 1 | \$73.98 |
| 46 | 876-510 | INSERTION JIG | 1 | \$53.08 |
| 47 | 877-840 | SPRING CLAMP PLIERS | 1 | \$506.11 |
| 48 | 877-390 | NUT SPANNER A90 | 1 | \$94.16 |
| 49 | 877-766 | CRANKCASE SPLITTING TOOL ASSEMBLY | 1a | CALL |
| 50 | 877-570 | TAPPING DRILL M18X1 | 1 | \$156.09 |
| 51 | 877-670 | CUTTING TOOL | 1 | \$625.19 |
| 52 | 877-110 | GUIDE SLEEVE | 1 | \$79.57 |
| 53 | 877-270 | INSERTION JIG ASSEMBLY | 1 | \$87.44 |
| 54 | 877-360 | GUIDE SLEEVE | 1 | \$36.78 |
| 55-56 | 877-730 | FLOAT LEVEL GAUGE ASSEMBLY | 1 | \$80.76 |
| 56 | 240-381 | HEX. SCREW M6x12 | 1 | \$0.57 |
| 57 | 877-690 | CHECK LEVER | 1 | \$132.11 |
| 59 | 877-710 | DIAL GAUGE ADAPTER ASSY | 1 | \$224.31 |
| 60 | 876-950 | PRECISION DIAL GAUGE | 1 | \$262.58 |
| 61 | 877-300 | ALIGNING PLATE | 1 | \$84.98 |
| 62 | 976-140 | DIAL GAUGE ADAPTER ASSEMBLY | 1 | \$720.67 |
| 63 | 877-263 | CYLINDER ALIGNING TOOL | 1 | \$108.12 |
| 64 | 877-680 | INSERTION JIG WITH SLEEVE | 1 | \$108.12 |
| 65 | 877-500 | PIN RELEASE TOOL | 1 | \$164.04 |
| 66 | 877-190 | PRESS-IN TOOL | 1 | \$174.56 |
| 67 | 877-520 | PROTRACTOR CRANKSHAFT DISTORTION INSP. | 1 | \$217.43 |
| 70 | 877-377 | PULLER ASSEMBLY | 1 | \$127.25 |
| 71 | 877-930 | TRESTLE SUPPORT | 1 | \$720.30 |
| 72 | 877-245 | TRESTLE ADAPTER ASSEMBLY | 1 | \$3,101.05 |
| 73 | 877-240 | TRESTLE ADAPTER ASSEMBLY | 1 | \$2,332.72 |
| 74 | 877-890 | TORX-BIT T40 | 1 | \$33.28 |
| 75 | 877-450 | SOCKET WRENCH 46x20 | 1 | \$339.12 |
| 76 | 877-465 | REDUCING SOCKET 1"-3/4" | 1 | \$162.12 |
| 77 | 874-234 | FUEL PRESSURE GAUGE | 1 | \$233.55 |

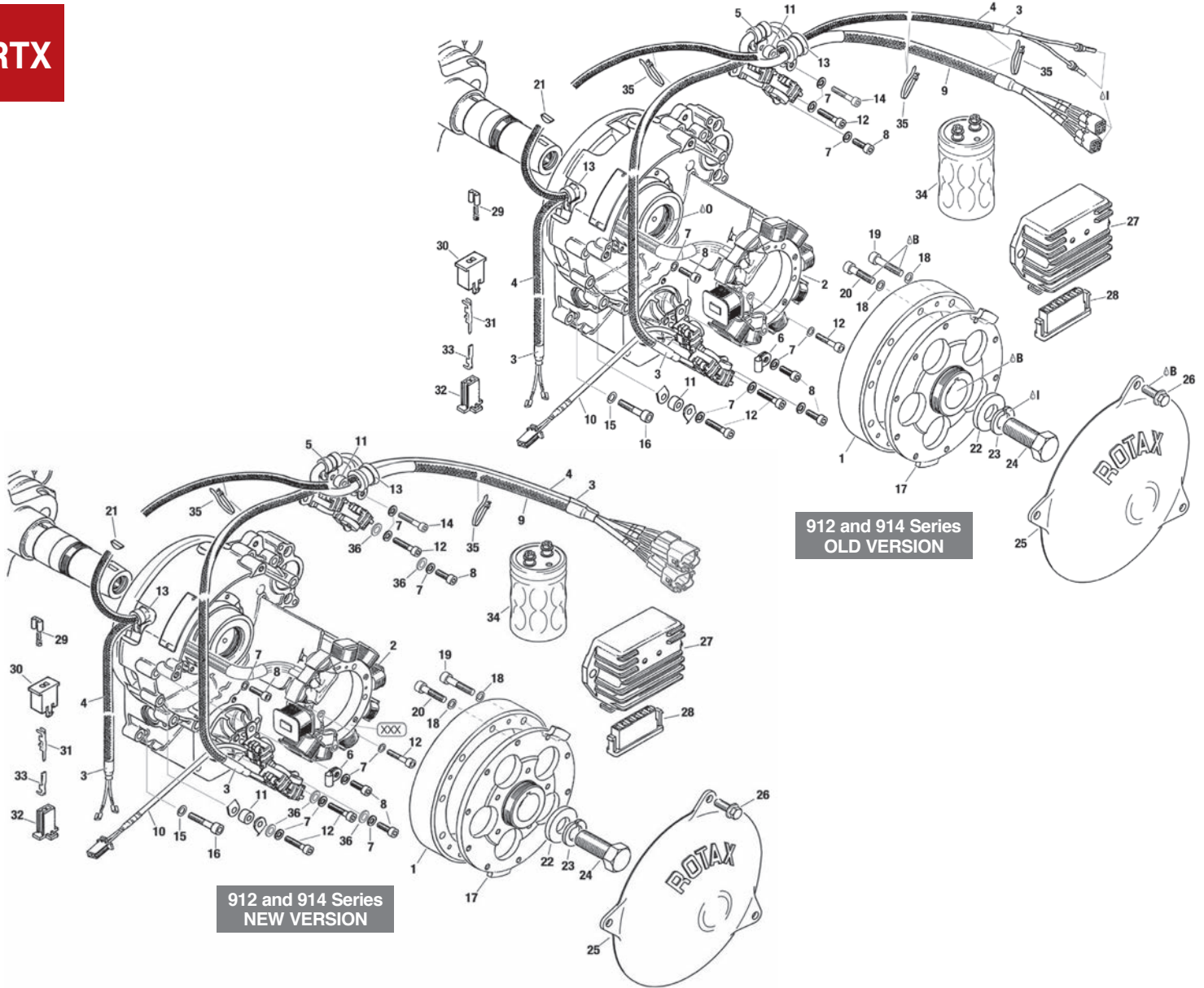
- Items not illustrated

a for all 912 and 914 Series





RTX



MAGNETO-GENERATOR, PICK UP, RECTIFIER REGULATOR

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|-------------------------|-----------|---------|--------|------------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 2-6 | 891-095 | STATOR ASSEMBLY | 1b | 1b | 1b | \$1,160.36 |
| 3 | 860-530 | SHRINK HOSE | AR | AR | AR | \$52.19 |
| 5 | 851-111 | CABLE CLAMP 8/M5 | 1 | 1 | 1 | \$12.46 |
| 6 | 851-566 | CABLE CLAMP 7/M5 | 1 | 1 | 1 | \$6.26 |
| 7 | 945-830 | LOCK WASHER A5. | 12 | 12 | 12 | \$0.14 |
| 8 | 840-514 | ALLEN SCREW M5x16 | 4 | 4 | 4 | \$0.53 |
| 9, 36 | 965-176 | TRIGGER COIL KIT 4-POLE | 1d | 1d | 1d | \$923.12 |
| 9, 36 | 965-179 | TRIGGER COIL KIT 6-POLE | 1c | 1c | 1c | \$931.97 |
| 10 | 264-087 | TRIGGER COIL ASSEMBLY | 1e | 1e | 1e | \$213.06 |
| 11 | 847-660 | SPACER 5.2/12/7. | 4 | 4 | 4 | \$10.01 |
| 13 | 851-250 | CABLE CLAMP 15/M5 | 2 | 2 | 2 | \$6.80 |
| 14 | 940-881 | ALLEN SCREW M5x30 | 1 | 1 | 1 | \$0.57 |
| 15 | 827-962 | WASHER 6.4 | 7 | 7 | 7 | \$0.31 |
| 15 | 945-831 | LOCK WASHER A6 | 7 | 7 | 7 | \$0.23 |
| 17 | 966-871 | FLY WHEEL HUB | 1 | 1 | | \$367.76 |
| 17 | 966-872 | FLY WHEEL HUB | 1a | 1a | | \$367.76 |
| 17 | 966-877 | FLY WHEEL HUB | | | 1 | \$505.00 |
| 18 | 845-381 | LOCK WASHER A6 | 10 | 10 | 10 | \$0.57 |
| 19 | 840-883 | ALLEN SCREW M6x30 | 5 | 5 | 5 | \$1.45 |
| 20 | 840-863 | ALLEN SCREW M6x25 | 5 | 5 | 5 | \$1.43 |
| 21 | 246-571 | WOODRUFF KEY 4x5 | 1 | 1 | 1 | \$2.66 |
| 22 | 944-073 | WASHER 17/36/5 | 1 | 1 | 1 | \$39.46 |
| 24 | 841-602 | HEX. SCREW M16x1.5x40 | 1 | 1 | 1 | \$13.61 |

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|----------------------------|-----------|---------|--------|----------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 25 | 810-980 | IGNITION COVER | (1) | 1 | 1 | \$90.88 |
| 26 | 640-172 | HEX. SCHRAUBE M6x16 | (3) | 3 | 3 | \$0.72 |
| 27-28 | 965-349 | RECTIFIER REGULATOR | 1 | 1 | 1 | \$147.50 |
| 28 | 965-335 | CONNECTOR HOUSING | 1 | 1 | 1 | \$23.29 |
| 29 | 864-011 | FASTON CONNECTOR 6.3x0.8 | AR | AR | AR | \$1.23 |
| 30 | 265-252 | CONNECTOR HOUSING, TWOPOLE | AR | AR | AR | \$6.51 |
| 31 | 265-272 | FASTON CONNECTOR | AR | AR | AR | \$2.45 |
| 32 | 265-250 | CONNECTOR HOUSING, TWOPOLE | AR | AR | AR | \$8.71 |
| 33 | 265-270 | FASTON CONNECTOR | AR | AR | AR | \$3.85 |
| 34 | 966-590 | CAPACITOR, 22000 MYF 25 V | 1 | 1 | 1 | \$145.80 |
| 35 | 866-710 | CLAMP 142x2.5 MM | 3 | 3 | 3 | \$1.26 |
| 36 | 827-800 | WASHER A 5.5 | 7f | 7f | 7f | \$5.99 |

- Items not illustrated

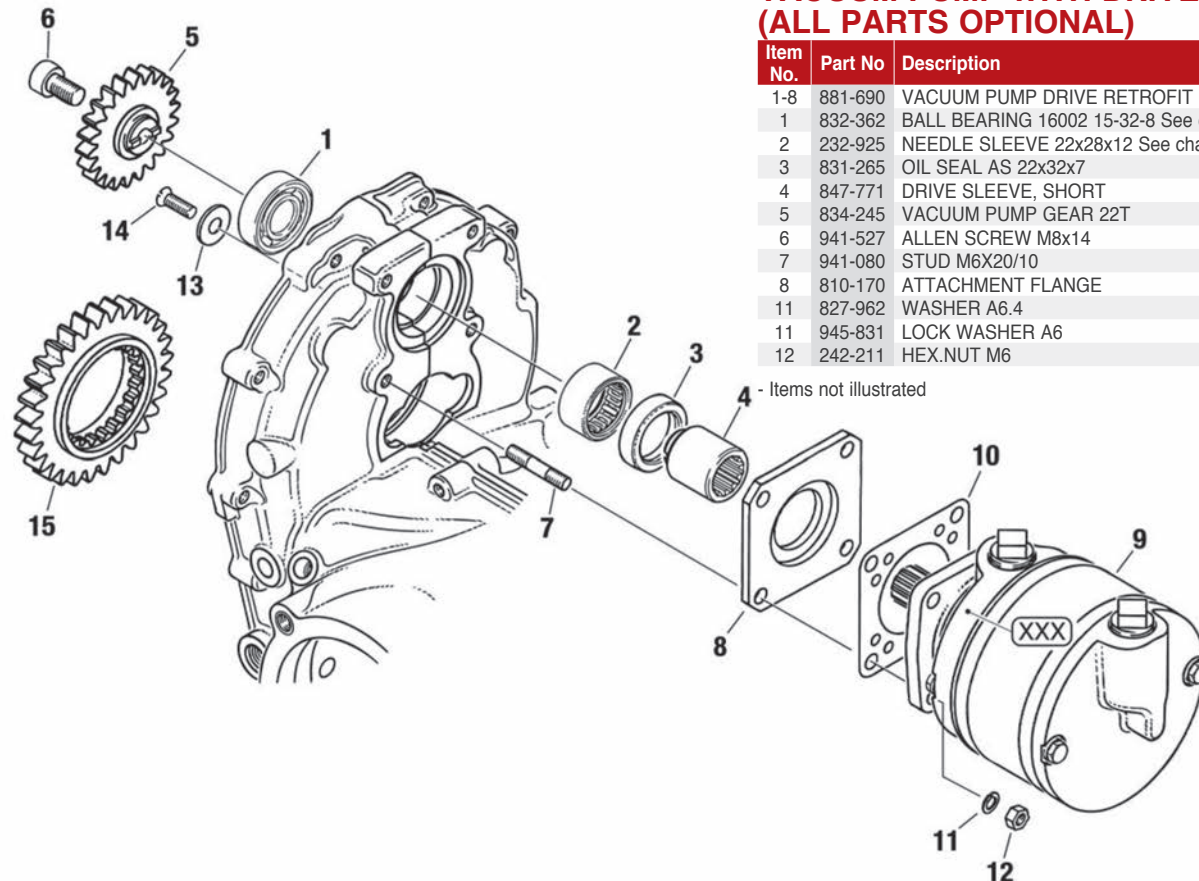
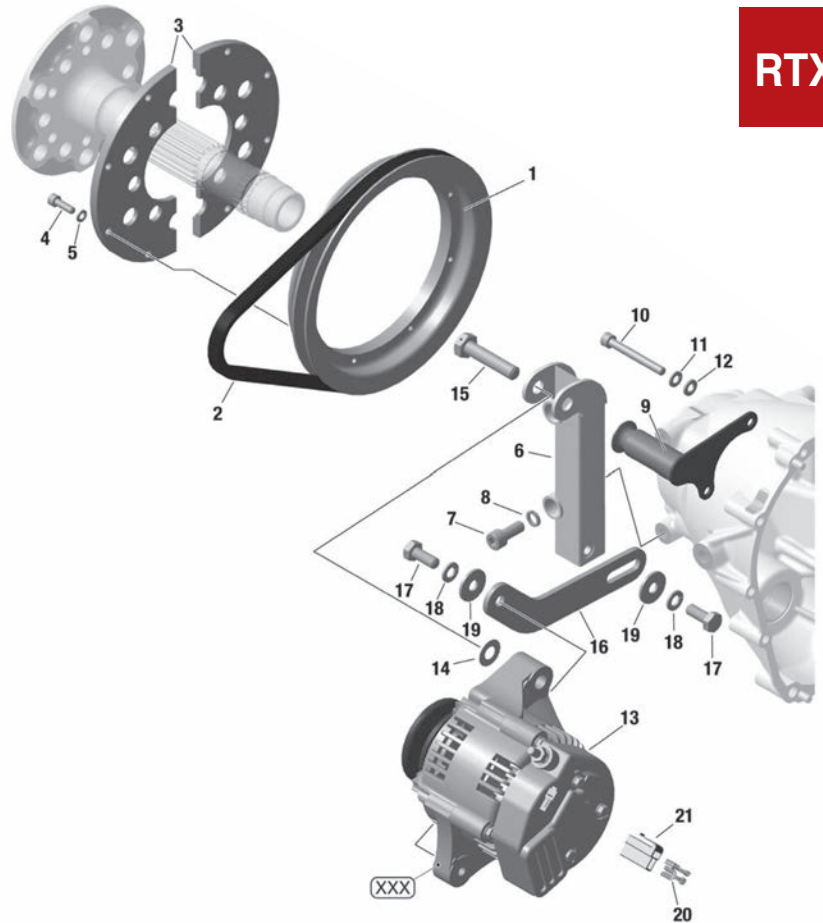
- a With modified trigger, instead of 4° before top dead center --> -3° after top dead center
- b SI-912-013 / SI-914-016 standardization of the ignition unit
- c Trigger coil kit with elongated hole for adjustment and 6-pole connector incl. 7 pcs. part no. 827800
- d 4-pole connector and trigger coil without alignment incl. 7 pcs. part no. 827800. Replaced trigger coil kit part no. 965177. See Maintenance Manual Heavy of the respective engine type, current issue.
- e Trigger coil for rev. counter to part no. 965176 and part no. 965179
- f At all trigger coils with longhole

EXTERNAL GENERATOR F3A (ALL PARTS OPTIONAL)

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------|-----------|------------|
| 1-21 | 887-254 | ALTERNATOR SET | 1 | \$1,644.50 |
| 1 | 980-590 | V-BELT PULLEY | 1 | \$395.80 |
| 2 | 980-400 | V-BELT 9.5X675 | 1 | \$31.26 |
| 3 | 980-605 | PULLEY CARRIER | 2 | \$127.31 |
| 4 | 840-514 | ALLEN SCREW M5X16 | 8 | \$0.53 |
| 5 | 945-750 | LOCK WASHER A5 | 8 | \$2.40 |
| 6 | 953-222 | ALTERNATOR BRACKET ASSEMBLY | 1 | \$438.86 |
| 7 | 240-072 | ALLEN SCREW M8X20 | 2 | \$1.35 |
| 8 | 845-310 | LOCK WASHER VHZ 8 | 2 | \$0.41 |
| 9 | 953-232 | ALTERNATOR SUPPORT ASSEMBLY | 1 | \$243.30 |
| 10 | 241-762 | ALLEN SCREW M6X50 | 2 | \$0.94 |
| 11 | 827-962 | WASHER 6.4 | 2 | \$0.31 |
| 11 | 945-831 | LOCK WASHER A6 | 2 | \$0.23 |
| 12 | 827-962 | WASHER 6.4 | 2 | \$0.31 |
| 13 | 887-251 | ALTERNATOR F3A | 1a | \$1,394.06 |
| 14 | 927-952 | THRUST WASHER 10.1/20/0.5 | 1 | \$4.78 |
| 15 | 941-636 | HEX. SCREW M10X45 | 1 | \$13.77 |
| 16 | 953-241 | TENSION BAR | 1 | \$83.34 |
| 17 | 940-596 | HEX. SCREW M8X2 | 2 | \$11.47 |
| 18 | 945-832 | LOCK WASHER A8 | 2 | \$0.23 |
| 19 | 227-935 | WASHER 8.4 | 2 | \$1.76 |
| 20 | 864-011 | FASTON CONNECTOR 6.3X0.8 | 2 | \$1.23 |
| 21 | 265-255 | CONNECTOR HOUSING 2-POLE | 1 | \$7.84 |

- Items not illustrated

a Marked with S/N



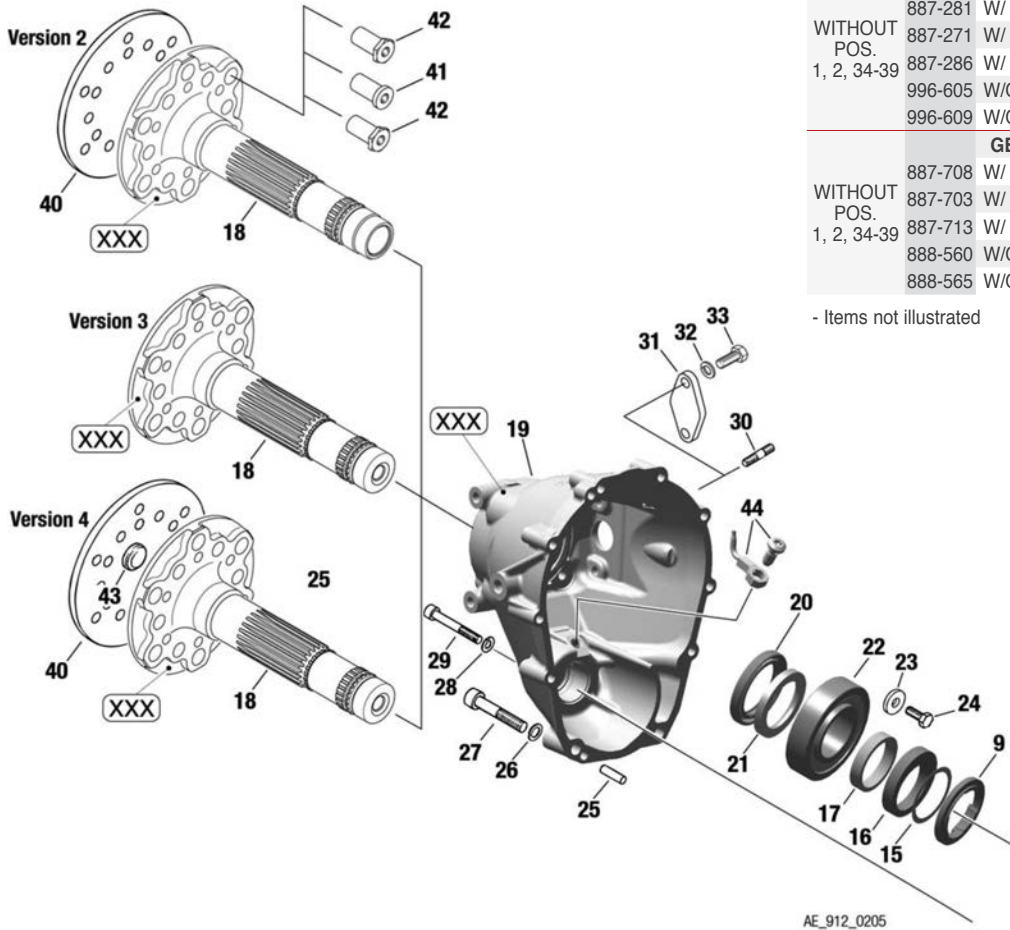
VACUUM PUMP WITH DRIVE (ALL PARTS OPTIONAL)

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--|-----------|----------|
| 1-8 | 881-690 | VACUUM PUMP DRIVE RETROFIT KIT | AR | \$638.09 |
| 1 | 832-362 | BALL BEARING 16002 15-32-8 See chapt. 61-20-00 | 1 | \$41.13 |
| 2 | 232-925 | NEEDLE SLEEVE 22x28x12 See chapt. 61-20-00 | 1 | \$36.82 |
| 3 | 831-265 | OIL SEAL AS 22x32x7 | 1 | \$49.50 |
| 4 | 847-771 | DRIVE SLEEVE, SHORT | 1 | \$324.97 |
| 5 | 834-245 | VACUUM PUMP GEAR 22T | 1 | \$211.87 |
| 6 | 941-527 | ALLEN SCREW M8x14 | 1 | \$25.86 |
| 7 | 941-080 | STUD M6X20/10 | 4 | \$5.61 |
| 8 | 810-170 | ATTACHMENT FLANGE | 1 | \$163.29 |
| 11 | 827-962 | WASHER A6.4 | 4 | \$0.31 |
| 11 | 945-831 | LOCK WASHER A6 | 4 | \$0.23 |
| 12 | 242-211 | HEX.NUT M6 | 4 | \$0.41 |

- Items not illustrated



RTX



PROPELLER GEAR ASSEMBLY

| Figure & Item No. | Part No | Description | Qty. Req. | | | Price |
|--------------------------|---------|-------------------|-----------|---------|--------|------------|
| | | | 912 UL | 912 ULS | 914 UL | |
| GEARBOX I = 2,27 | | | | | | |
| WITHOUT POS. 1, 2, 34-39 | 887-281 | W/ CLUTCH 2.27-2 | 1Ap | | | \$4,111.05 |
| | 887-271 | W/ CLUTCH 2.27-3 | 1Bp | | | \$4,034.45 |
| | 887-286 | W/ CLUTCH 2.27-4 | 1Cp | | | \$4,111.05 |
| | 996-605 | W/O CLUTCH 2.27-2 | 1Ap | | | \$2,933.58 |
| | 996-609 | W/O CLUTCH 2.27-4 | 1Cp | | | \$2,933.58 |
| GEARBOX I = 2,43 | | | | | | |
| WITHOUT POS. 1, 2, 34-39 | 887-708 | W/ CLUTCH 2.43-3 | 1p | 1Ep | 1Ep | \$4,111.05 |
| | 887-703 | W/ CLUTCH 2.43-2 | 1p | 1Dp | 1Dp | \$4,111.05 |
| | 887-713 | W/ CLUTCH 2.43-4 | 1p | 1Fp | 1Fp | \$4,111.05 |
| | 888-560 | W/O CLUTCH 2.43-2 | 1Dp | 1Dp | 1Dp | \$2,933.58 |
| | 888-565 | W/O CLUTCH 2.43-4 | 1Fp | 1Fp | 1Fp | \$2,933.58 |

- Items not illustrated

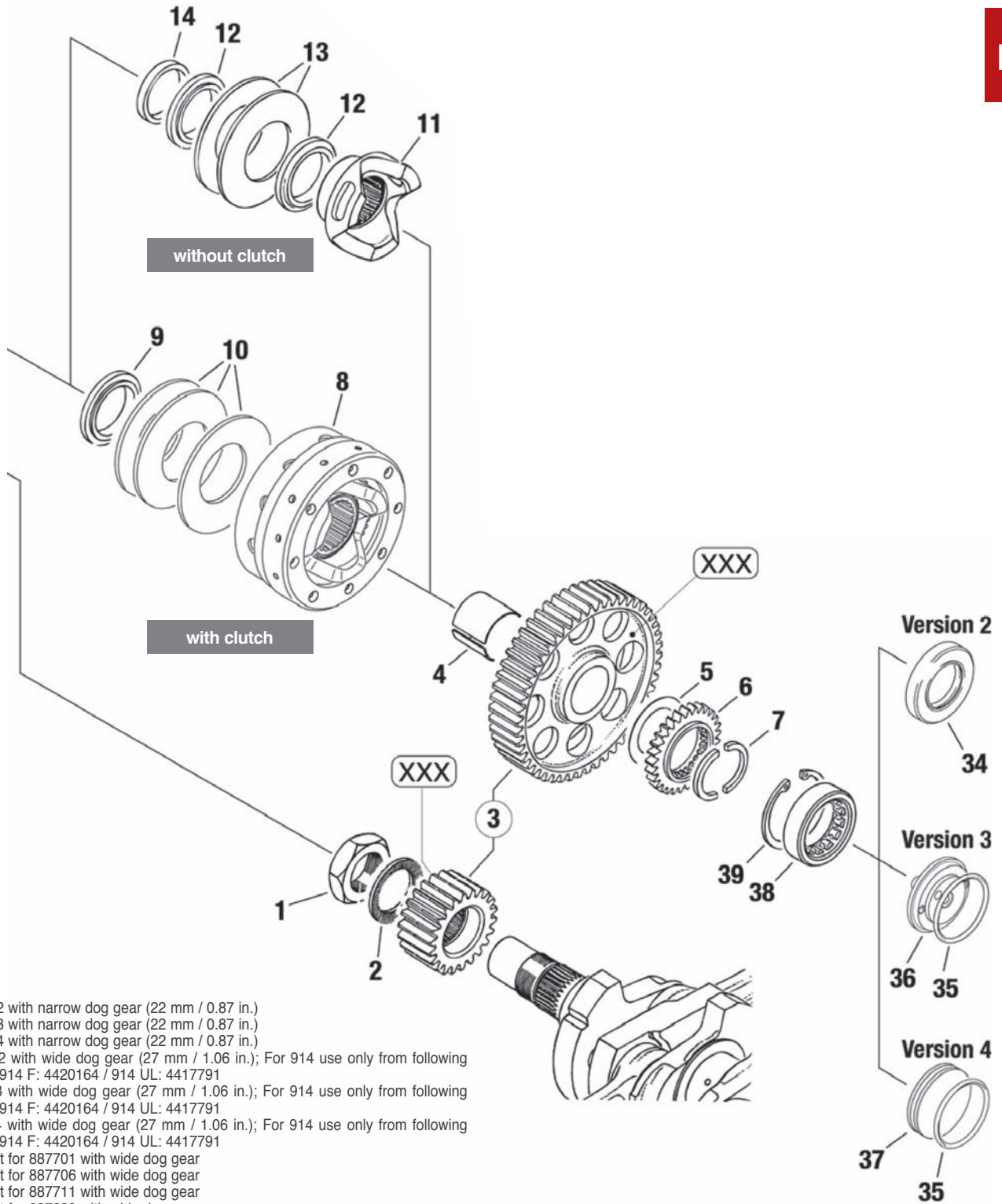
PROPELLER GEAR ASSEMBLY

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|------------------------------------|-----------|---------|--------|------------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 842-579 | HEX. NUT M30x1.5 12MM, LH | 1 | 1 | 1 | \$17.11 |
| 2 | 845-431 | FRICTION WASHER VS30 | 1 | 1 | 1 | \$9.66 |
| 2 | 845-430 | FRICTION WASHER VS30 | 1 | 1 | 1 | \$9.66 |
| 3 | 886-517 | GEAR SET I 2.43 narrow | (1)h | | 1h | \$987.46 |
| 3 | 886-518 | GEAR SET I 2.43 wide, 7° | 1b | 1b | 1b | \$987.46 |
| 4 | 933-362 | BUSHING 31x33x29.8 | 1 | 1 | 1 | \$61.61 |
| 5 | 827-992 | THRUST WASHER 33.2/51/1.2 | 1 | 1 | 1 | \$69.26 |
| 6 | 834-232 | DRIVE GEAR 29 T. | 1 | 1 | 1 | \$207.22 |
| 7-10 | 996-888 | CLUTCH ASSY. RETROFIT KIT narrow | 1f | | 1fh | \$1,021.49 |
| 7-10 | 996-889 | CLUTCH ASSY. RETROFIT KIT wide, 7° | | 1g | 1gb | \$1,298.71 |
| 7 | 926-035 | RING HALF | 2 | 2 | 2 | \$43.94 |
| 8 | 996-885 | OVERLOAD CLUTCH ASSY. narrow | (1)m | 1fhm | 1fhm | \$1,021.49 |
| 8 | 996-910 | OVERLOAD CLUTCH ASSY. wide, 7° | 1gm | (1)gm | (1)gm | \$1,527.08 |
| 9 | 847-787 | STEP COLLAR | 1p | 1p | 1p | \$51.75 |
| 10 | 838-216 | DISK SPRING B80, 80x41x3 | 3 | 3 | 3 | \$23.58 |
| 11 | 958-891 | DOG HUB narrow | 1fl | | 1fl | \$393.71 |
| 11 | 958-893 | DOG HUB wide, 7° | 1gl | 1gl | 1gl | \$393.71 |
| 12 | 847-786 | STEP COLLAR | 2 | 2 | 2 | \$51.75 |
| 13 | 838-216 | DISK SPRING B80, 80x41x3 | 2 | 2 | 2 | \$23.58 |
| 14 | 847-689 | SPACER 35.2/42/6 | 1 | 1 | 1 | \$45.27 |
| 15 | 927-401 | SHIM 35.4/43/0.2 | AR | AR | AR | \$2.66 |
| 15 | 927-402 | SHIM 35.4/43/0.5 | AR | AR | AR | \$2.66 |
| 15 | 927-403 | SHIM 35.4/43/1.0 | AR | AR | AR | \$3.02 |
| 16 | 848-225 | ECCENTER | 1 | 1 | 1 | \$95.88 |
| 17 | 847-687 | SPACER 35.2/42/8 | 1 | 1 | 1 | \$44.24 |
| 18 | 837-037 | PROPELLER SHAFT SEALED | 1e | 1e | 1e | CALL |
| 18 | 837-035 | PROPELLER SHAFT | 1d | 1d | 1d | CALL |
| 18 | 937-036 | PROPELLER SHAFT | 1c | 1c | 1c | \$894.02 |
| 19 | 811-957 | GEAR COVER ASSEMBLY | 1np | 1np | 1np | CALL |

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|----------------------------------|-----------|---------|--------|----------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 20 | 950-470 | OIL SEAL AS 40x55x7 | 1 | 1 | 1 | \$67.44 |
| 21 | 926-022 | SPACER RING 36/50/5.5 | 1 | 1 | 1 | \$34.86 |
| 22 | 832-578 | BALL BEARING 6207E TN6, 35-72-17 | 1 | 1 | 1 | \$127.13 |
| 23 | 944-320 | WASHER 7.2/18.8/3 | 4 | 4 | 4 | \$3.12 |
| 24 | 941-760 | HEX. SCREW M7x16 | 4 | 4 | 4 | \$1.40 |
| 25 | 429-230 | DOWEL 6x20 | 2 | 2 | 2 | \$2.50 |
| 26 | 944-131 | WASHER 8 | 2q | 2q | 2q | \$1.26 |
| 27 | 841-562 | ALLEN SCREW M8x45 | 2q | 2q | 2q | \$4.43 |
| 27 | 841-561 | ALLEN SCREW M8x45 | 2q | 2q | 2q | \$0.92 |
| 27 | 940-077 | HEX./TORX SCREW M8x45 | 2 | 2 | 2 | \$4.43 |
| 28 | 827-962 | WASHER A6.4 | 8 | 8 | 8 | \$0.31 |
| 28 | 945-751 | LOCK WASHER A6 | 8 | 8 | 8 | \$0.21 |
| 29 | 241-823 | ALLEN SCREW M6x45 | 8 | 8 | 8 | \$0.72 |
| 30 | 940-361 | STUD M8x23/14 | 2 | 2 | | \$4.06 |
| 31 | 926-151 | COVER | | | 1 | \$26.10 |
| 32 | 945-832 | LOCK WASHER A8 | 2 | 2 | 2 | \$0.23 |
| 33 | 940-592 | HEX. SCREW M8x20 | | | 2k | \$1.35 |
| 34 | 950-200 | OIL SEAL 30x52x7 | 1 | 1 | 1 | \$100.47 |
| 35 | 430-175 | O-RING 46x3 | 1 | 1 | 1 | \$14.36 |
| 36 | 810-301 | OIL INLET FLANGE | 1 | 1 | 1 | \$189.14 |
| 37 | 810-306 | OIL INLET COVER | 1 | 1 | 1 | \$68.66 |
| 38 | 232-241 | ROLLER BEARING NJ 205 ECP C3 | 1 | 1 | 1 | \$102.00 |
| 39 | 945-820 | RETAINING RING 52x2 | 1 | 1 | 1 | \$4.54 |
| 40 | 827-837 | COVER DISK | AR | AR | AR | \$104.11 |
| 41 | 842-634 | ROUND-NECK NUT SET M8 | 1i | 1i | 1i | \$56.74 |
| 42 | 842-638 | ROUND-NECK NUT SET 5/16-24 UNF | 1i | 1i | 1i | \$196.28 |
| 42 | 842-639 | ROUND-NECK NUT SET 5/16-20 UNF | 1i | 1i | 1i | \$64.34 |
| 43 | 244-980 | SEALING COVER | 1 | 1 | 1 | \$4.99 |
| 44 | 456-520 | OIL SPRAY NOZZLE ASSEMBLY | 1p | 1p | 1p | CALL |

912 | 914 ENGINE

RTX



- A For version 2 with narrow dog gear (22 mm / 0.87 in.)
- B For version 3 with narrow dog gear (22 mm / 0.87 in.)
- C For version 4 with narrow dog gear (22 mm / 0.87 in.)
- D For version 2 with wide dog gear (27 mm / 1.06 in.); For 914 use only from following engine S/N: 914 F: 4420164 / 914 UL: 4417791
- E For version 3 with wide dog gear (27 mm / 1.06 in.); For 914 use only from following engine S/N: 914 F: 4420164 / 914 UL: 4417791
- F For version 4 with wide dog gear (27 mm / 1.06 in.); For 914 use only from following engine S/N: 914 F: 4420164 / 914 UL: 4417791
- G Replacement for 887701 with wide dog gear
- H Replacement for 887706 with wide dog gear
- I Replacement for 887711 with wide dog gear
- J Replacement for 887680 with wide dog gear
- K Replacement for 888565 with wide dog gear

- a Drive gear 22 T. and reduction gear 50 T. are paired and must be replaced together and marked with S/N. See SL-912-002 resp. SL-914-002.
- b Drive gear 21 T. and reduction gear 51 T. are paired and must be replaced together and marked with S/N. With wide dog gear (27 mm / 1.06 in.); See SL-912-002 resp. SL-914-002; For 914 use only from following engine S/N: 912 S: starting with serial production / 912 ULS: starting with serial production / 914 F: 4420164 / 914 UL: 4417791
- c For model 2 marked with S/N
- d For model 3 marked with S/N
- e For model 4 marked with S/N
- f For gear sets part no. 886125 and 886517; (narrow versions)
- g For gear set part no. 886518; (wide version)

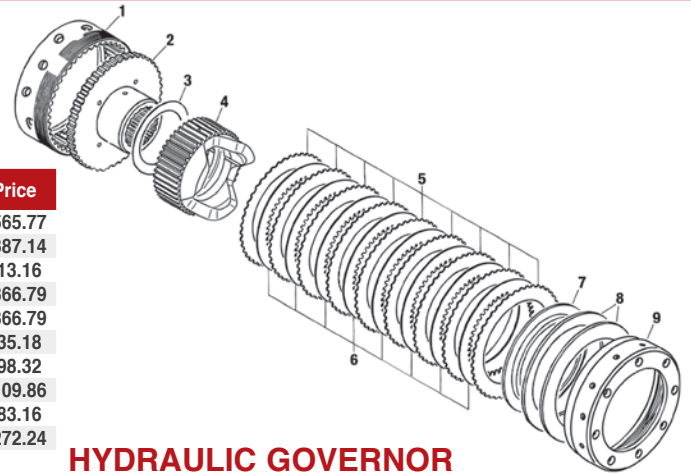
- h Drive gear 21 T. and reduction gear 51 T. are paired and must be replaced together and marked with S/N. With thin dog gear (22 mm / 0.87 in.); See SL-912-002 resp. SL-014-002; For 914 use only up to S/N: 914 F: 4420163 / 914 UL: 4417790
- i Do not use at version with auxiliary alternator; only available as a set (includes 6 pieces).
- j Only when a governor is used; Version without governor: 2x940.591; with governor: see chapt. 61-20-00
- l Dog hub with extended hub
- m With additional bores to drain lead
- n Increased support bearing diameter
- o See SL-912-002 current issue
- p Gearbox with oil spray nozzle. Starting with Gearbox SN 74000.
- q Replaced by hex. torx screw part no. 940077.

RTX

OVERLOAD CLUTCH

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|------------------------------|-----------|---------|--------|----------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 958-912 | CLUTCH DRUM | 1c | 1c | 1c | \$565.77 |
| 2 | 958-905 | CLUTCH HUB | 1 | 1 | 1 | \$387.14 |
| 3 | 944-080 | THRUST WASHER 45.2/60/1 | 1 | 1 | 1 | \$13.16 |
| 4 | 958-920 | DOG HUB NARROW | 1a | | 1a | \$366.79 |
| 4 | 958-924 | DOG HUB WIDE, 7° | (1d) | 1b | 1b | \$366.79 |
| 5 | 958-932 | STEEL FRICTION PLATE 1.0 MM | 9 | 9 | 9 | \$35.18 |
| 6 | 958-945 | SINTER FRICTION PLATE 1.8 MM | 8 | 8 | 8 | \$98.32 |
| 7 | 958-951 | SUPPORT RING | 1 | 1 | 1 | \$109.86 |
| 8 | 838-161 | DISK SPRING 100X76X2.7 | 2 | 2 | 2 | \$83.16 |
| 9 | 842-644 | COLLAR NUT M102X1.5 | 1ce | 1ce | 1ce | \$272.24 |

- a For gear sets part no. 886125, 886517; thin dog gear (22 mm / 0.87 in.)
 b For gear set part no. 886518; wide dog gear (27 mm / 1.06 in.)
 c With additional bores to drain lead
 d Option for 912 A,F, UL fitted with 2,43 gear set
 e Improved centering of disc springs.

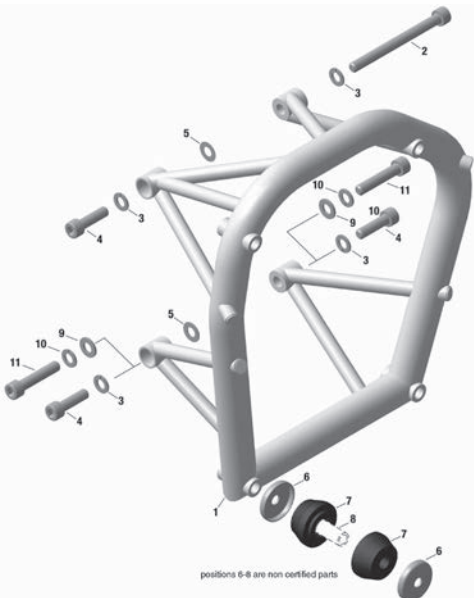
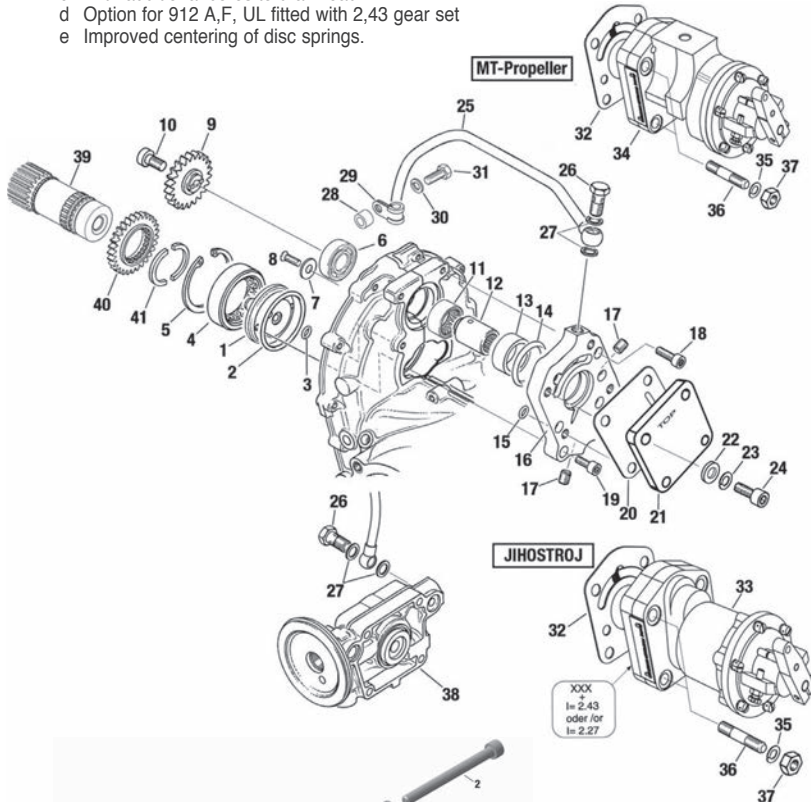


HYDRAULIC GOVERNOR ARRANGEMENT FOR CONSTANT SPEED PROPELLER (OPTIONAL)

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|-----------------------------|-----------|--|----------|
| | | | | | |
| 3 | 830-415 | O-RING 7x2-N | 2 | | \$6.69 |
| 6 | 832-362 | BALL BEARING 16002. 15-32-8 | 1 | | \$41.13 |
| 9 | 834-245 | VACUUM PUMP GEAR 22 T | 1 | | \$211.87 |
| 10 | 941-522 | ALLEN SCREW M8x16 | 1 | | \$1.39 |
| 11 | 232-925 | NEEDLE SLEEVE 22x28x12 | 1 | | \$36.82 |
| 12 | 847-773 | DRIVE SLEEVE, LONG | 1 | | \$359.30 |
| 13 | 847-802 | SPACER 25/31.95/13 | 1 | | \$28.58 |
| 14 | 950-380 | O-RING 32x4-N FPM 75 | 1 | | \$11.62 |
| 15 | 830-415 | O-RING 7x2-N FPM 75 | 2 | | \$6.69 |
| 16 | 810-294 | GOVERNOR FLANGE | 1 | | \$833.41 |
| 17 | 941-611 | PLUG SCREW M8x1 | 2 | | \$5.61 |
| 18 | 241-935 | ALLEN SCREW M6x20 | 4 | | \$0.63 |
| 19 | 241-237 | ALLEN SCREW M6x16 | 2 | | \$0.73 |
| 20 | 931-770 | GASKET | 1 | | \$12.98 |
| 21 | 926-231 | COVER | 1 | | \$118.28 |
| 22 | 250-311 | WASHER 8.4 | 4 | | \$0.41 |
| 22 | 250-315 | WASHER 8.4 | 4 | | \$0.41 |
| 23 | 945-832 | LOCKWASHER A8 | 4 | | \$0.23 |
| 24 | 240-072 | ALLEN SCREW M8x20 | 4 | | \$1.35 |
| 25 | 956-460 | PRESSURE OIL LINE ASSEMBLY | 1 | | \$262.80 |
| 26 | 940-874 | BANJO BOLT M10x1x19 | 2 | | \$13.99 |
| 27 | 230-150 | SEALING RING A 10x14 | 4 | | \$1.09 |
| 28 | 847-224 | DISTANCE SLEEVE 8.4/15/6 | 1 | | \$23.34 |
| 29 | 853-418 | CABLE CLAMP | 1 | | \$23.43 |
| 30 | 945-832 | LOCK WASHER A8 | 1 | | \$0.23 |
| 31 | 240-276 | HEX. SCREW M8x25 | 1 | | \$1.26 |
| 32 | 931-372 | GASKET | 1 | | \$186.77 |
| 35 | 945-832 | LOCK WASHER A8 | 4 | | \$0.23 |
| 36 | 840-711 | STUD M8x21/20 | 4 | | \$20.14 |
| 37 | 942-674 | HEX. NUT M8 (WS 11mm) | 4 | | \$1.99 |

- Items not illustrated

- a For retrofitting from version 2 to version 3.
 b For retrofitting, same as 881702 but without propeller shaft.

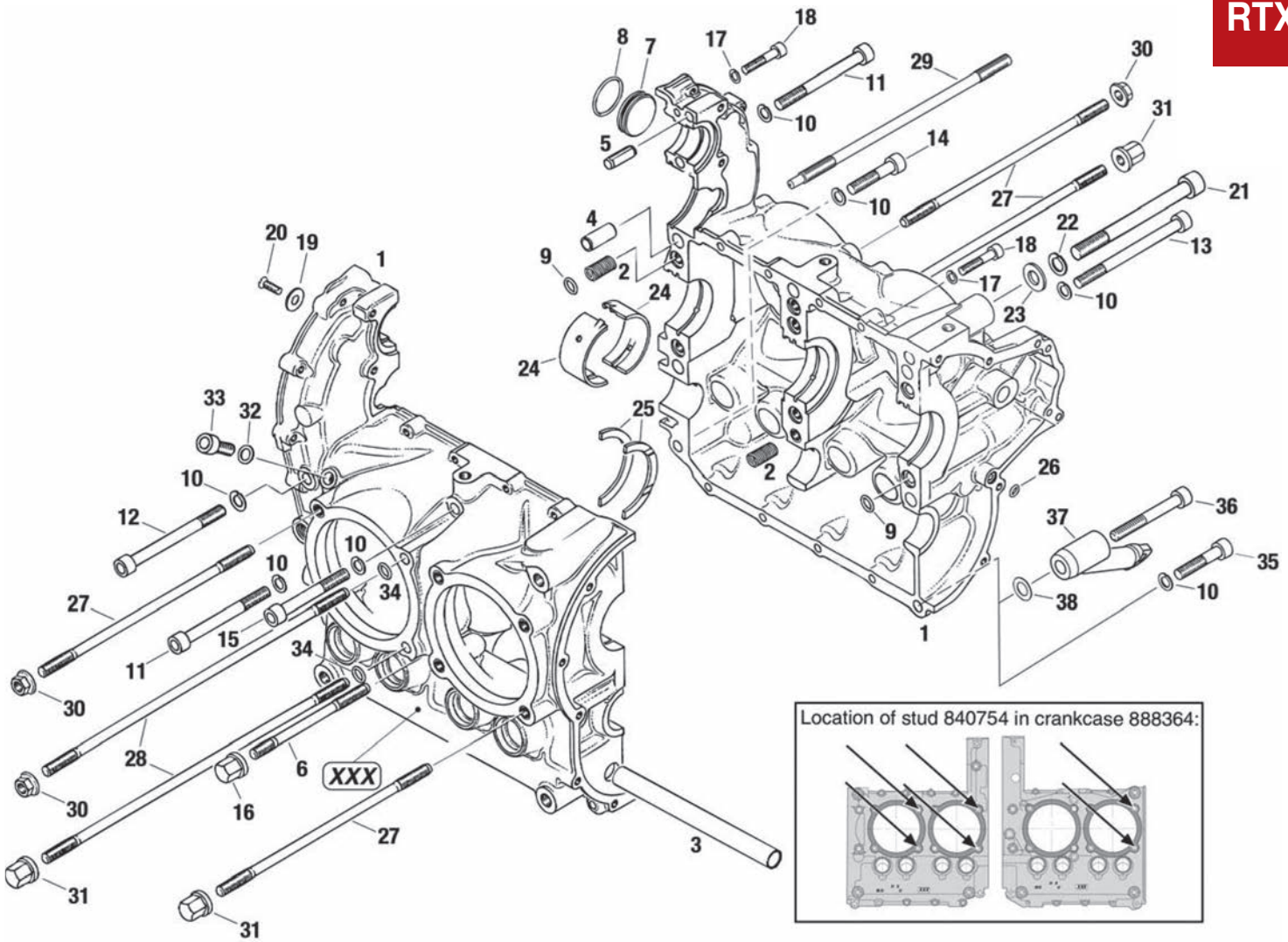


ENGINE SUSPENSION FRAME

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|---------------------------|-----------|---------|--------|----------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 2 | 941-487 | ALLEN SCREW M10X110 | (1) | (1) | 1 | \$6.61 |
| 3 | 945-833 | LOCK WASHER A10 | (4) | (4) | 4 | \$0.34 |
| 4 | 840-948 | ALLEN SCREW M10X35 | (3) | (3) | 1 | \$4.63 |
| 5 | 927-952 | THRUST WASHER 10.1/20/0.5 | (AR) | (AR) | AR | \$4.78 |
| 5 | 927-953 | THRUST WASHER 10.1/20/1.0 | (AR) | (AR) | AR | \$4.90 |
| 6-7 | 860-695 | SHOCK MOUNT SET | (1) | (1) | (1) | \$772.00 |
| 6 | 944-240 | CUP WASHER | (8) | (8) | (8) | \$59.75 |
| 7 | 860-690 | SHOCK-MOUNT | (8) | (8) | (8) | \$107.61 |

- Items not illustrated

- a See also Service Bulletin SB-912-028 / SB-914-016 current issue



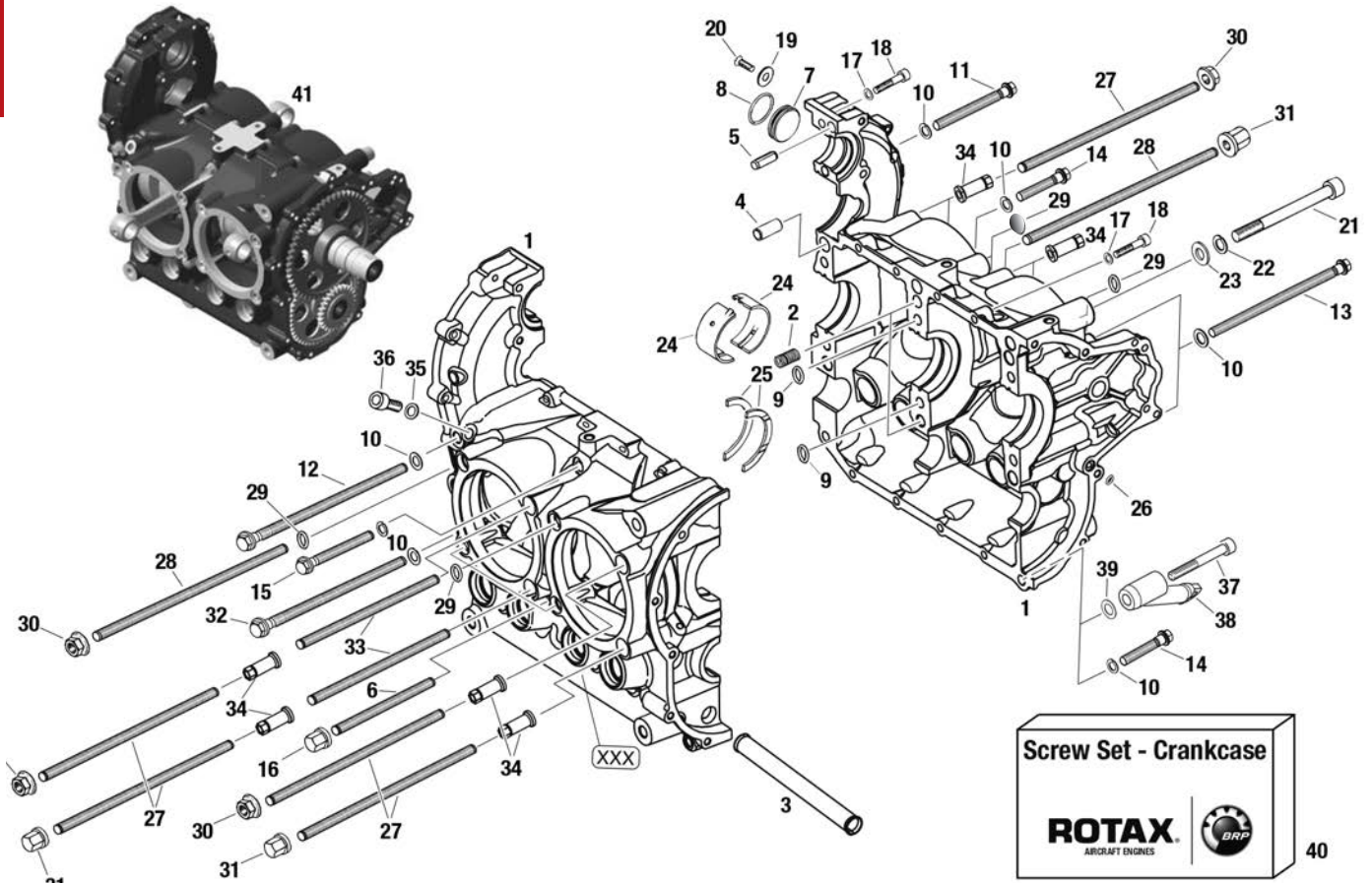
CRANKCASE - UP TO S/N 27811

| Item No. | Part No | Description | Qty. Req. | | | Price | Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|-------------------------|-----------|---------|--------|---------|----------|---------|--------------------|-----------|---------|--------|---------|
| | | | 912 UL | 912 ULS | 914 UL | | | | | 912 UL | 912 ULS | 914 UL | |
| 3 | 924-451 | OIL TUBE | 1 | 1 | 1 | \$15.28 | 23 | 927-411 | WASHER 10.5 | 1 | 1 | 1 | \$0.63 |
| 4 | 929-951 | DOWEL 10.8x25 | 5 | 5 | 5 | \$9.52 | 24 | 933-870 | PLAIN BEARING "C" | 6c | 6c | 6c | \$90.76 |
| 5 | 929-845 | PIN D8x2 | 1 | 1 | 1 | \$7.73 | 24 | 933-871 | PLAIN BEARING "D" | 6d | 6d | 6d | \$88.98 |
| 6 | 840-191 | STUD M8x105 | 1f | 1f | 1f | \$12.83 | 25 | 933-335 | RING HALF | 2 | 2 | 2 | \$58.75 |
| 7 | 944-222 | BLINDING SHIM | 1b | 1b | 1b | \$13.78 | 26 | 831-929 | O-RING 5x2 | 1 | 1 | 1 | \$4.54 |
| 8 | 430-061 | O-RING 26.7x1.8 | 1b | 1b | 1b | \$5.57 | 27 | 840-752 | STUD M8x201 | 14e | 14e | 14e | \$14.65 |
| 9 | 850-902 | O-RING 9x2 | 7 | 7 | 7 | \$10.00 | 28 | 840-757 | STUD M8x291 | 2 | 2 | 2 | \$17.96 |
| 10 | 945-832 | LOCK WASHER A8 | 8 | 8 | 7 | \$0.23 | 29 | 840-754 | STUD M8x210 | 6e | 6e | 6e | \$21.78 |
| 11 | 440-217 | ALLEN SCREW M8x80 | 2 | 2 | 2 | \$3.81 | 30 | 842-610 | HEX. NUT M8 | 8 | 8 | 8 | \$4.37 |
| 12 | 640-932 | ALLEN SCREW M8x90 | 1 | 1 | 1 | \$3.07 | 30 | 942-301 | COLLAR NUT M8 | 8j | 8j | 8j | \$4.37 |
| 13 | 440-427 | ALLEN SCREW M8x100 | 2 | 2 | 2 | \$3.30 | 31 | 842-471 | COLLAR CAP NUT M8 | 8 | 8 | 8 | \$21.34 |
| 14 | 640-942 | ALLEN SCREW M8x45 | 1f | 1f | 1f | \$5.24 | 31 | 842-476 | COLLAR CAP NUT M8 | 8j | 8j | 8j | \$21.34 |
| 16 | 842-471 | COLLAR CAP NUT M8 | 1 | 1 | 1 | \$21.34 | 32 | 950-141 | GASKET RING A 8x13 | 1 | 1 | 1 | \$1.30 |
| 17 | 827-962 | WASHER A6.4 | 9 | 9 | 9 | \$0.31 | 33 | 240-072 | ALLEN SCREW M8x20 | 1 | 1 | 1 | \$1.35 |
| 17 | 945-831 | LOCK WASHER A6 | 9 | 9 | 9 | \$0.23 | 34 | 830-415 | O-RING 7x2 | 2g | 2 | 2g | \$6.69 |
| 18 | 840-887 | ALLEN SCREW M6x30 | 9 | 9 | 9 | \$0.69 | 35 | 640-942 | ALLEN SCREW M8x45 | 1 | 1 | | \$5.24 |
| 19 | 227-280 | THRUST WASHER | 1 | 1 | 1 | \$7.65 | 36 | 440-107 | ALLEN SCREW M8x50 | | | 1 | \$1.99 |
| 20 | 940-315 | COUNTERSUNK SCREW M5x12 | 1 | 1 | 1 | \$0.57 | 38 | 926-400 | WASHER 8.4/15/0.5 | | | AR | \$3.17 |
| 21 | 941-487 | ALLEN SCREW M10x110 | 1 | 1 | 1 | \$6.61 | 38 | 926-401 | WASHER 8.4/15/1 | | | AR | \$3.37 |
| 21 | 941-557 | ALLEN SCREW M10x150 | (1) | (1) | | \$10.31 | 38 | 926-402 | WASHER 8.4/15/1.5 | | | AR | \$3.61 |
| 22 | 945-833 | LOCK WASHER A10 | 1 | 1 | 1 | \$0.34 | | | | | | | |

- Items not illustrated

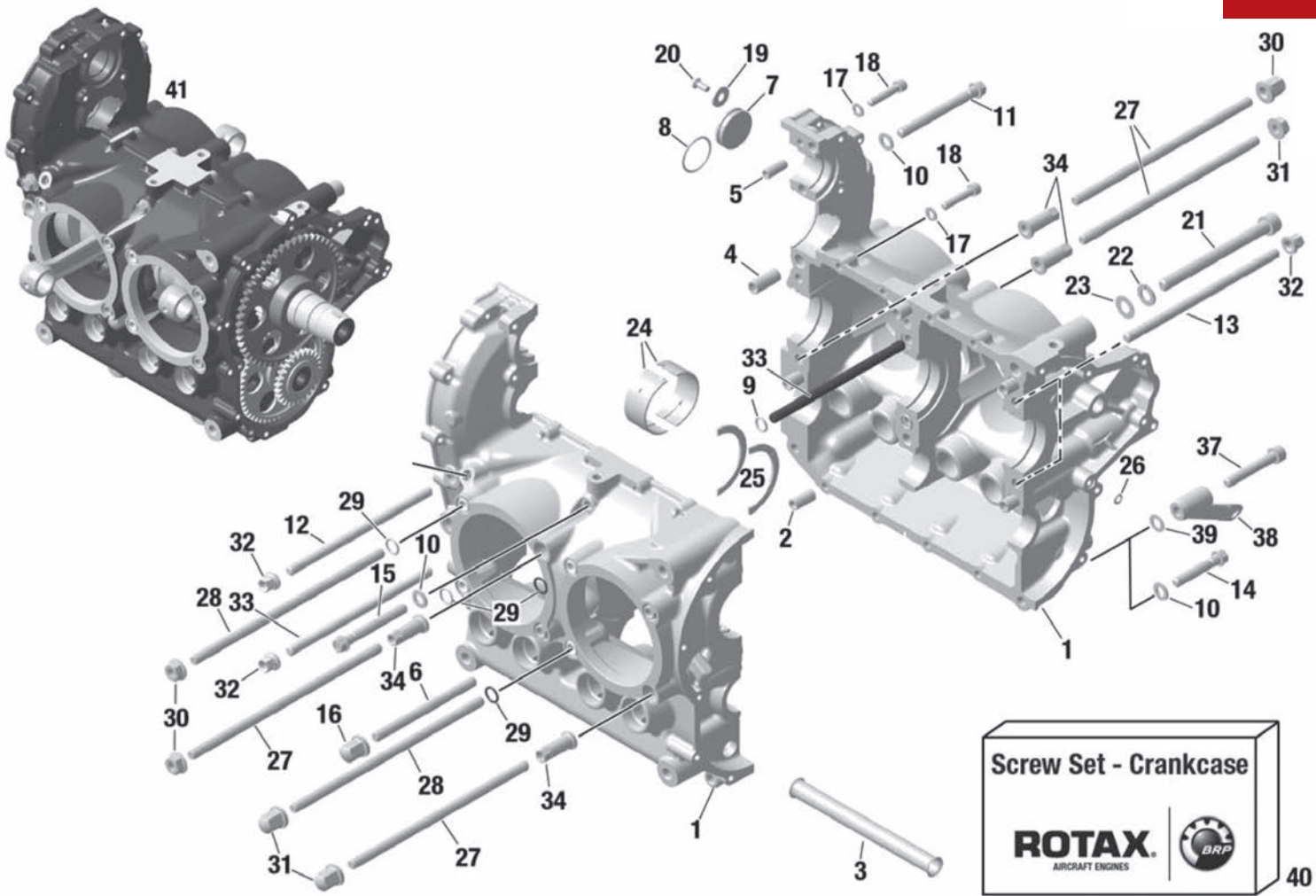


RTX



CRANKCASE - FROM S/N 06.0010 UP TO 14.2384

| Item No. | Part No | Description | Qty. Req. | | | Price | Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|------------------------------|-----------|---------|--------|---------|-------------------------|--|--------------------------|-----------|---------|--------|-------------|
| | | | 912 UL | 912 ULS | 914 UL | | | | | 912 UL | 912 ULS | 914 UL | |
| 3 | 924-451 | OIL TUBE | 1 | 1 | 1 | \$15.28 | 32 | 440-686 | HEX. COLLAR SCREW M8x130 | 1 | 1 | 1 | \$12.74 |
| 4 | 929-951 | DOWEL 10.8x25 | 5 | 5 | 5 | \$9.52 | 33 | 840-131 | STUD M8x138 | 2 | 2 | 2 | \$6.93 |
| 5 | 929-845 | PIN D8x20 | 1 | 1 | 1 | \$7.73 | 34 | 929-116 | THREAD SLEEVE M8 | 8 | 8 | 8 | \$36.80 |
| 6 | 840-191 | STUD M8x105 | 1 | 1 | 1 | \$12.83 | 35 | 950-141 | GASKET RING A 8x13 | 1 | 1 | 1 | \$1.30 |
| 7 | 944-222 | BLINDING SHIM | 1b | 1b | 1b | \$13.78 | 36 | 240-072 | ALLEN SCREW M8x20 | 1 | 1 | 1 | \$1.23 |
| 8 | 430-061 | O-RING 26.7x1.8 | 1b | 1b | 1b | \$5.57 | 37 | 440-107 | ALLEN SCREW M8x50 | 1f | | | \$1.99 |
| 9 | 850-902 | O-RING 9x2 | 2 | 2 | 2 | \$10.00 | 39 | 926-400 | WASHER 8.4/15/0.5 | | | AR | \$3.17 |
| 10 | 944-131 | WASHER 8 | 8f | 8f | 8f | \$1.26 | 39 | 926-401 | WASHER 8.4/15/1 | | | AR | \$3.37 |
| 11 | 840-061 | ALLEN SCREW M8x80 | 1 | 1 | 1 | \$10.90 | 39 | 926-402 | WASHER 8.4/15/1.5 | | | AR | \$3.61 |
| 12 | 840-091 | HEX.COLLAR SCREW M8x140-SW10 | 1 | 1 | 1 | \$13.14 | 40 | 881-120 | SCREW SETCRANKCASE | 1f | 1f | 1f | \$283.17 |
| 13 | 840-101 | HEX.COLLAR SCREW M8x150-SW10 | 2 | 2 | 2 | \$8.37 | 41 | 300091401 | ENGINE BLOCK | 1 | | 1 | \$15,242.34 |
| 14 | 940-071 | HEX.COLLAR SCREW M8x45-SW10 | 2 | 2 | 2 | \$5.24 | - Items not illustrated | | | | | | |
| 15 | 440-406 | HEX.COLLAR SCREW M8x65-SW10 | 1 | 1 | 1 | \$10.69 | a | marked with S/N | | | | | |
| 16 | 842-476 | COLLAR CAP NUT M8 | 1 | 1 | 1 | \$21.34 | b | Only for model 2 and 4 | | | | | |
| 17 | 827-962 | WASHER 6.4 | 9 | 9 | 9 | \$0.31 | c | Tolerance group „C“ 1.820 - 1.829 mm | | | | | |
| 17 | 945-751 | LOCK WASHER A6 | 9 | 9 | 9 | \$0.21 | d | Tolerance group „D“ 1.830 - 1.839 mm | | | | | |
| 18 | 840-887 | ALLEN SCREW M6x30 | 9 | 9 | 9 | \$0.69 | e | depending on configuration use 14 studs part no. 840752 M8x201 or 8 studs M8x201 and 6 studs part no. 840754 M8x210. | | | | | |
| 19 | 227-280 | THRUST WASHER | 1 | 1 | 1 | \$7.65 | f | see Overhaul Manual of the respective engine type, current issue. | | | | | |
| 20 | 940-315 | COUNTERSUNK SCREW M5x12 | 1 | 1 | 1 | \$0.57 | g | only for use with new cylinders 913221 with countersunk. With the cylinder 913225 the countersunk was already introduced starting from beginning of the production. | | | | | |
| 21 | 941-487 | ALLEN SCREW M10x110 | 1 | 1 | 1 | \$6.61 | h | following Service Instruction has to be noticed: SI-912-019 current issue SI-914-021 | | | | | |
| 21 | 941-557 | ALLEN SCREW M10x150 | (1) | (1) | | \$10.31 | i | 431570 introduced as per engine S/N as follows: 912 UL: S/N 06,770.893 914 UL: S/N 07,682.596 912 A: S/N 04,410.977 912 S: S/N 04,924.497 912 F: S/N 04,413.018 912 ULS: S/N 06,781.191 914 F: S/N 04,421.110 | | | | | |
| 22 | 945-833 | LOCK WASHER A10 | 1 | 1 | 1 | \$0.34 | j | Wrench size A/F 11 | | | | | |
| 23 | 927-411 | WASHER 10.5 | 1 | 1 | 1 | \$0.63 | | | | | | | |
| 24 | 933-870 | PLAIN BEARING "C" | 6cf | 6cf | 6cf | \$90.76 | | | | | | | |
| 24 | 933-871 | PLAIN BEARING "D" | 6df | 6df | 6df | \$88.98 | | | | | | | |
| 25 | 933-335 | RING HALF | 2 | 2 | 2 | \$58.75 | | | | | | | |
| 26 | 831-929 | O-RING 5x2 | 1 | 1 | 1 | \$4.54 | | | | | | | |
| 27 | 840-141 | STUD M8x186 | 8 | 8 | 8 | \$9.73 | | | | | | | |
| 28 | 840-171 | STUD M8x200 | 8 | 8 | 8 | \$9.73 | | | | | | | |
| 29 | 431-570 | O-RING 10.82x1.78 | 8i | 8i | 8i | \$0.66 | | | | | | | |
| 29 | 431-411 | GASKET | ARh | ARh | ARh | \$9.52 | | | | | | | |
| 30 | 842-610 | HEX. NUT M8 | 8 | 8 | 8 | \$4.37 | | | | | | | |
| 30 | 942-301 | COLLAR NUT M8 | 8j | 8j | 8j | \$4.37 | | | | | | | |
| 31 | 842-471 | COLLAR CAP NUT M8 | 8 | 8 | 8 | \$21.34 | | | | | | | |
| 31 | 842-476 | COLLAR CAP NUT M8 | 8j | 8j | 8j | \$21.34 | | | | | | | |



CRANKCASE - FROM S/N: 14.0000

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|------------------------------|-----------|---------|--------|------------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 893-862 | CRANKCASE SET | 1d | 1d | 1d | \$4,271.31 |
| 3 | 924-451 | OIL TUBE | 1 | 1 | 1 | \$15.28 |
| 4 | 929-951 | DOWEL 10.8X25 | 5 | 5 | 5 | \$9.52 |
| 5 | 929-845 | PIN D8X20 | 1 | 1 | 1 | \$7.73 |
| 6 | 840-191 | STUD M8X105 | 1 | 1 | 1 | \$12.83 |
| 7 | 944-222 | BLINDING SHIM | 1a | 1a | 1a | \$13.78 |
| 8 | 430-061 | O-RING 26.7X1.8 | 1a | 1a | 1a | \$5.57 |
| 9 | 850-902 | O-RING 9X2 | 2 | 2 | 2 | \$10.00 |
| 10 | 944-131 | WASHER 8 | 4d | 4d | 4d | \$1.26 |
| 11 | 840-061 | ALLEN SCREW M8X80 | 1 | 1 | 1 | \$10.90 |
| 14 | 940-071 | HEX.COLLAR SCREW M8X45-A/F10 | 2 | 2 | 2 | \$5.24 |
| 15 | 440-406 | HEX.COLLAR SCREW M8X65-A/F10 | 1 | 1 | 1 | \$10.69 |
| 16 | 842-471 | COLLAR CAP NUT M8 | 1 | 1 | 1 | \$21.34 |
| 17 | 827-962 | WASHER 6.4 | 9 | 9 | 9 | \$0.31 |
| 17 | 945-751 | LOCK WASHER A6 | 9 | 9 | 9 | \$0.21 |
| 18 | 840-887 | ALLEN SCREW M6X30 | 9 | 9 | 9 | \$0.69 |
| 19 | 227-280 | THRUST WASHER | 1 | 1 | 1 | \$7.65 |
| 20 | 940-315 | COUNTERSUNK SCREW M5X12 | 1 | 1 | 1 | \$0.57 |
| 21 | 941-487 | ALLEN SCREW M10X110 | 1 | 1 | 1 | \$6.61 |
| 21 | 941-557 | ALLEN SCREW M10X150 | (1) | (1) | | \$10.31 |
| 23 | 927-411 | WASHER 10.5 | 1 | 1 | 1 | \$0.63 |

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|-----------|---------------------|-----------|---------|--------|-------------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 24 | 933-870 | PLAIN BEARING "C" | 6bd | 6bd | 6bd | \$90.76 |
| 24 | 933-871 | PLAIN BEARING "D" | 6cd | 6cd | 6cd | \$88.98 |
| 25 | 933-335 | RING HALF | 2 | 2 | 2 | \$58.75 |
| 26 | 831-929 | O-RING 5X2 | 1 | 1 | 1 | \$4.54 |
| 27 | 840-141 | STUD M8X186 | 8 | 8 | 8 | \$9.73 |
| 28 | 840-171 | STUD M8X200 | 8 | 8 | 8 | \$9.73 |
| 29 | 431-570 | O-RING 10,82X1,78 | 8 | 8 | 8 | \$0.66 |
| 30 | 842-610 | HEX. NUT M8 | 8 | 8 | 8 | \$4.37 |
| 31 | 842-471 | COLLAR CAP NUT M8 | 8 | 8 | 8 | \$21.34 |
| 35 | 950-141 | GASKET RING A 8X13 | 1 | 1 | 1 | \$1.30 |
| 36 | 240-072 | ALLEN SCREW M8X20 | 1 | 1 | 1 | \$1.23 |
| 37 | 440-107 | ALLEN SCREW M8X50 | | | 1d | \$1.99 |
| 39 | 926-400 | WASHER 8.4/15/0.5 | | | AR | \$3.17 |
| 39 | 926-401 | WASHER 8.4/15/1 | | | AR | \$3.37 |
| 39 | 926-402 | WASHER 8.4/15/1.5 | | | AR | \$3.61 |
| 40 | 881-121 | SCREW SET CRANKCASE | 1d | 1d | 1d | \$415.66 |
| 41 | 300091401 | ENGINE BLOCK | 1 | | 1 | \$15,242.34 |

- Items not illustrated

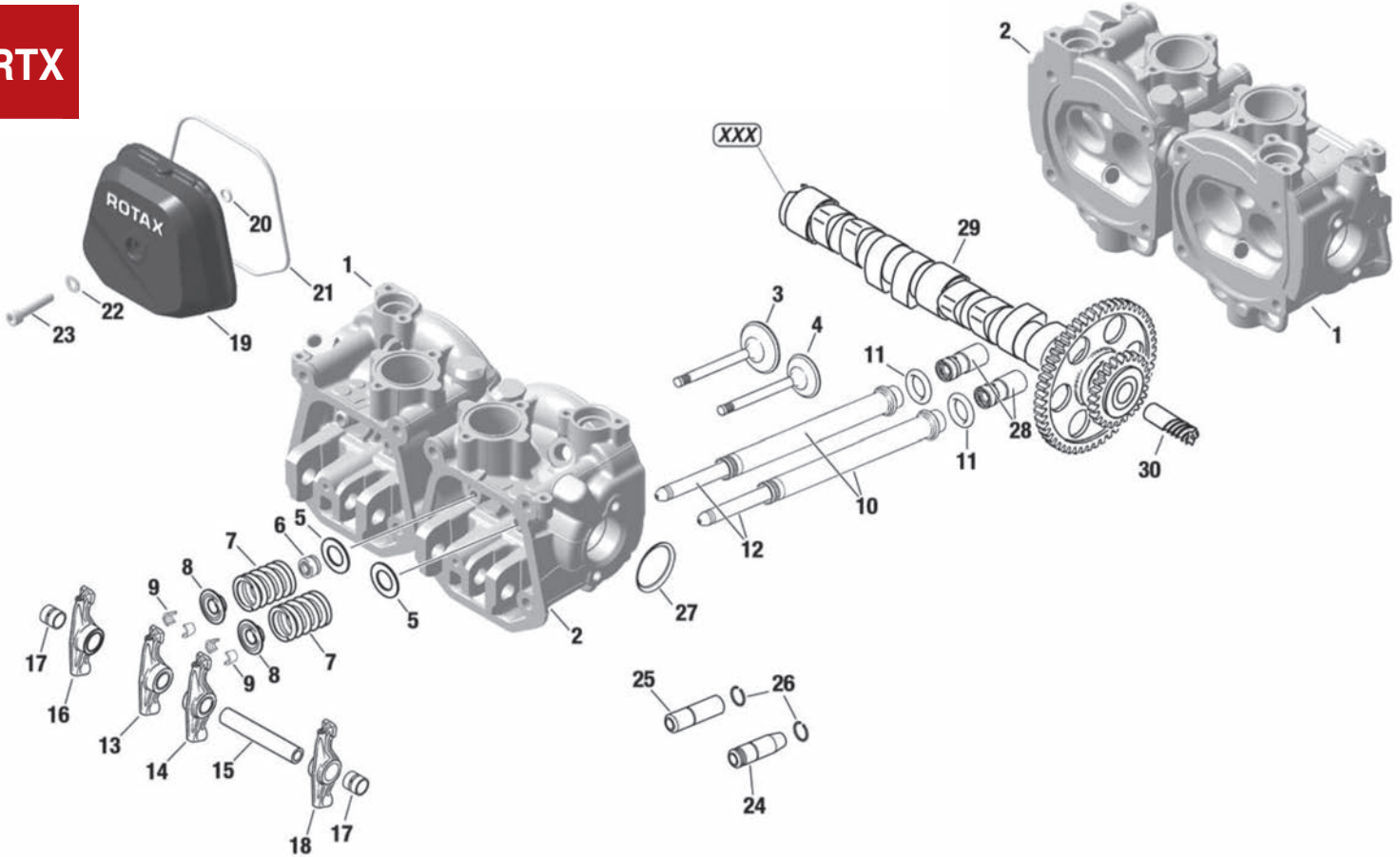
a Only for model 2 and 4

b Tolerance group "C" 1.820 -1.829 mm

c Tolerance group "D" 1.830 -1.839 mm

d See Overhaul Manual of the respective engine type, current issue.

RTX



CYLINDERHEAD, VALVE TRAIN, VALVE COVER

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|----------------------------|-----------|---------|--------|------------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 413-236 | CYLINDER HEAD 2/3 ASSEMBLY | | 2ao | 2ao | \$1,513.74 |
| 1 | 413-185 | CYLINDER HEAD 2/3 ASSEMBLY | | | 2ao | \$1,548.94 |
| 2 | 413-195 | CYLINDER HEAD 1/4 ASSEMBLY | | | 2b | \$1,549.45 |
| 2 | 413-246 | CYLINDER HEAD 1/4 ASSEMBLY | 2b | | 2b | \$1,513.74 |
| 3 | 854-101 | INTAKE VALVE 38 MM | 4 | 4 | 4 | \$187.82 |
| 4 | 854-113 | EXHAUST VALVE 32 MM | | | 4p | \$304.00 |
| 4 | 854-111 | EXHAUST VALVE 32 MM | 4 | 4 | 4 | \$304.00 |
| 5 | 926-210 | SHIM 16/27.9/1 | 8d | 8 | 8d | \$3.73 |
| 6 | 230-810 | VALVE STEM SEAL | 4 | 4 | 4 | \$10.04 |
| 7 | 838-156 | VALVE SPRING | 8d | 8 | 8d | \$28.42 |
| 8 | 854-186 | OIL RETURN TUBE | 8 | 8 | 8 | \$24.57 |
| 9 | 253-092 | VALVE COTTER | 16 | 16 | 16 | \$3.74 |
| 10 | 924-440 | OIL RETURN TUBE | 8 | 8 | 8 | \$39.54 |
| 11 | 850-930 | O-RING 16x5 | 8 | 8 | 8 | \$8.79 |
| 12 | 854-862 | VALVE PUSH-ROD ASSEMBLY | 8 | 8 | 8 | \$191.77 |
| 15 | 854-193 | ROCKER ARM SHAFT | 4 | 4 | 4 | \$40.77 |
| 15 | 854-197 | ROCKER ARM SHAFT | (4)f | (4)f | (4)f | \$74.40 |
| 16 | 854-383 | ROCKER ARM LEFT ASSEMBLY | 4g | 4g | 4g | \$301.40 |
| 17 | 933-396 | VESPEL BUSHING VESPEL | 8g | 8g | 8g | \$52.06 |
| 18 | 854-393 | ROCKER ARM RIGHT ASSEMBLY | 4g | 4g | 4g | \$301.40 |
| 19 | 612-263 | VALVE COVER BLACK | 4 | | | \$199.88 |
| 19 | 612-262 | VALVE COVER RED | | | 4 | \$199.88 |
| 19 | 612-260 | VALVE COVER GREEN | | 4 | | \$196.63 |
| 19 | 612-180 | VALVE COVER BLUE | | 4 | | \$181.36 |
| 20-21 | 881-920 | O-RING SET | 1 | 1 | 1 | \$65.71 |
| 20 | 430-205 | O-RING 6.4x1.8 | 4 | 4 | 4 | \$4.99 |
| 21 | 250-285 | O-RING 105x2.5 | 4 | 4 | 4 | \$29.31 |
| 22 | 927-942 | WASHER 6.0/12/1 | 4 | 4 | 4 | \$0.76 |
| 23 | 840-887 | ALLEN SCREW M6x30 | 4 | 4 | 4 | \$0.69 |
| 24 | 253-114 | INLET VALVE GUIDE | 4h | 4h | 4h | \$27.25 |
| 25 | 854-224 | INLET VALVE GUIDE | 4i | 4i | 4i | \$89.62 |
| 26 | 245-440 | RETAINING RING | 8j | 8j | 8j | \$0.57 |
| 27 | 931-920 | GASKET RING | ARk | ARk | ARk | \$67.32 |
| 28 | 881-832 | HYDRAULIC VALVE TAPPET SET | 1n | 1n | 1n | \$422.10 |
| 29 | 837-196 | CAMSHAFT 227° ASSEMBLY | 1lm | | 1lm | \$1,595.81 |
| 29 | 837-418 | CAMSHAFT 230° ASSEMBLY | | 1lm | | \$1,595.81 |

- Items not illustrated

a for cylinder 2 and 3

b for cylinder 1 and 4

c Up to engine S/N

912 A: 4,410.203

912 F: 4,412.756

912 UL: 4,401.879

914 F: 4,420.038

914 UL: 4,417.597

Single valve springs and double valve springs if required are allowed to be mounted in one engine.

d From engine S/N

912 A: 4,410.204

912 F: 4,412.757

912 UL: 4,401.880

914 F: 4,420.039

914 UL: 4,417.598

e With sintered bronze bushing

f Oversize +0.2 mm (0.008 in.)

g Rocker arm version with vespel bushing

From engine S/N

912 A: 4,410.472

912 F: 4,412.817

912 S: 4,922.768

912 UL: 4,404.621

912 ULS: 4,427.487

914 F: 4,420.314

914 UL: 4,418.104

h for inlet valve, chafe up to new measurement

i for outlet valve, chafe up to new measurement

j **NOTICE:** Use only once!

k for rework of exhaust port

See Overhaul Manual of the respective engine type, current issue.

l Marked with S/N

m Without worm gear

n pre-filled, 8 parts per set

o Cylinder heads where the coolant temperature is measured.

p see SI-914-30

912 | 914 ENGINE

CRANKSHAFT, PISTON, CYLINDER, SPRAG CLUTCH

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|--------------------------------|-----------|---------|--------|------------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 996-583 | CRANKSHAFT SET | 1g | | 1g | \$4,479.57 |
| 1 | 888-164 | CRANKSHAFT SET | 1g | 1g | 1g | \$4,956.00 |
| 2 | 834-122 | FREE WHEEL GEAR 50 T | 1 | 1 | 1 | \$358.93 |
| 3 | 933-311 | BEARING BUSHING | 1 | 1 | 1 | \$81.84 |
| 4 | 852-406 | SPRAG CLUTCH HOUSING | 1hj | 1hj | 1hj | \$298.65 |
| 5 | 958-856 | SPRAG CLUTCH 51.70x68.377x13 | 1 | 1 | 1 | \$312.00 |
| 6 | 845-425 | CIRCLIP 70 | 1 | 1 | 1 | \$7.60 |
| 7 | 842-574 | HEX. NUT M34x1.5 LH | 1 | 1 | 1 | \$68.04 |
| 8-11 | 996-542 | PISTON ASSEMBLY 79.50/79.51 MM | 4a | | 4a | \$346.72 |
| 8-11 | 888-382 | PISTON ASSEMBLY 84/84.01 MM | | 4b | | \$356.78 |
| 9 | 215-400 | OIL SCRAPER RING 79.5 MM | 4 | | 4 | \$50.39 |
| 9 | 815-230 | OIL SCRAPER RING 84 MM | | 4g | | \$67.49 |
| 10 | 215-420 | TAPERED COMPRESSION RING | 4 | | 4 | \$31.17 |
| 10 | 815-280 | TAPERED COMPRESSION RING | | 4e | | \$47.51 |
| 11 | 215-590 | RECTANGULAR RING 79.5/ | 4 | | 4 | \$59.44 |
| 11 | 815-251 | RECTANGULAR RING 84/77x1.5 | | 4e | | \$82.75 |
| 12 | 916-420 | PISTON PIN 20x12x56 | | | 4g | \$138.85 |
| 12 | 916-356 | PISTON PIN 20x12x55.3 | 4g | 4g | 4g | \$81.25 |
| 13 | 845-106 | MONOHOOK CIRCLIP 20 | 8 | 8 | 8 | \$2.63 |
| 14 | 250-510 | O-RING 87x2 | 4 | 4 | 4 | \$26.49 |
| 15 | 913-222 | CYLINDER | 4cf | | 4cf | \$541.52 |
| 15 | 913-226 | CYLINDER | | 4df | | \$690.11 |
| 16 | 881-540 | PISTON SET | 1i | | 1i | \$1,458.48 |
| 17 | 881-542 | PISTON SET | | 1i | | \$1,531.36 |

- Items not illustrated

a red 79.50 mm, green 79.51 mm

b red 84 mm, green 84.01 mm

c A 79.50 - 79.512, B 79.513 - 79.524

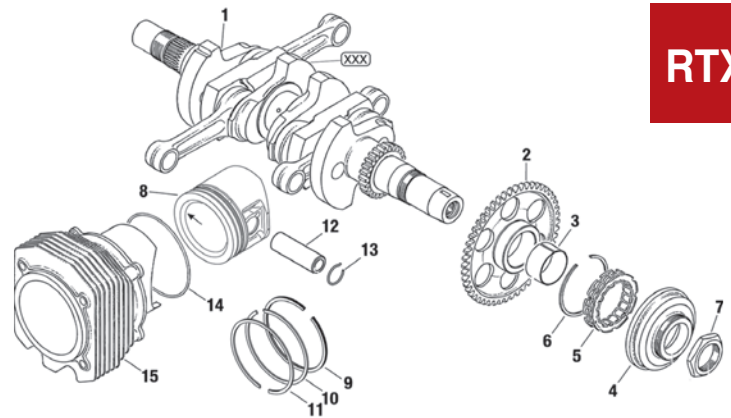
d A 84.00 - 84.012, B 84.012 - 84.024

e at 912 ULS the complete piston with rings has to be exchanged up to S/N 4,425.123

f with countersunk for O-ring 830415.

Introduced as per following engine S/N:

912 A: 4,410.393



RTX

912 F: 4,412.799

912 S: starting with serial production

912 UL: 4,403.679

912 ULS: starting with serial production

914 F: 4,420.207

914 UL: 4,417.868

g following Service Letter has to be noticed

SL-912-002 current issue

SL-914-002 current issue

h with expanded space of sprag clutch Introduced as per following engine S/N:

912 A: 4,410.807

912 F: 4,412.949

912 S: 4,923.671

912 UL: 4,409.089

912 ULS: 5,650.835

914 F: 4,420.805

914 UL: 6,772.727

i Balanced piston set: max. difference 3 g

j with drain holes

BING CONSTANT SPEED DEPRESSION CARBURETOR - SINGLE PARTS

| Item No. | Part No | Description | Qty. Req. | | | Price |
|---------------------|---------|--------------|-----------|---------|--------|------------|
| | | | 912 UL | 912 ULS | 914 UL | |
| AIRLIFTER | 892-500 | ASSEMBLY 1/3 | 1 | | | \$1,129.23 |
| | 892-505 | ASSEMBLY 2/4 | 1 | | | \$965.00 |
| AIRBOX | 892-500 | ASSEMBLY 1/3 | (1)a | | | \$1,129.23 |
| | 892-505 | ASSEMBLY 2/4 | (1)a | | | \$965.00 |
| AIRLIFTER OR AIRBOX | 892-530 | ASSEMBLY 1/3 | 1 | | | \$1,129.23 |
| | 892-535 | ASSEMBLY 2/4 | 1 | | | \$1,129.23 |
| AIRBOX | 887-093 | ASSEMBLY 1/3 | | 1b | | \$1,147.39 |
| | 887-098 | ASSEMBLY 2/4 | | 1c | | \$1,233.00 |
| | 892-520 | ASSEMBLY 1/3 | | 1b | | \$1,133.25 |
| | 892-525 | ASSEMBLY 2/4 | | 1c | | \$1,690.53 |

a For airbox / See SB-912-044

b 64/32/398F/06, for cylinder 1/3; See SI-914-015 current issue

c 64/32/399F/06, for cylinder 2/4 incl. throttle potentiometer - see chapter 73-00-00/fig. 3; See SI-914-015 current issue

1 See Service Instruction SI-03-1998

2 Replace part no. 887-262 (64/32/394F/04) / 887-264 (64/32/394/08) / 888-802 (64/32/416/01) / 888-803 (64/32/416A/00)

3 Replace part no. 887-267 (64/32/395F/04) / 887-269 (64/32/395/08) / 888-807 (64/32/417/01) / 888-808 (64/32/417A/00)

4 Replace part no. 888-370 (64/32/409F/01) / 888-372 (64/32/412/00) / 888-373 (64/32/421/01) / 888374 (64/32/421A/00)

5 Replace part no. 888-375 (64/32/410F701) / 888-377 (64/32/411/00) / 888-378 (64/32/422/01) / 888-379 (64/32/422A700)

6 Replace part no. 887-092 (64/32/398F-06)

7 Replace part no. 887-097 (64/32/399F-07)

8 Replace part no. 887-094 (64/32/418A-00)

9 Replace part no. 887-099 (64/32/419A-00)

10 Depends on airbox version;

See SI-914-013 and SI-914-015 current issue

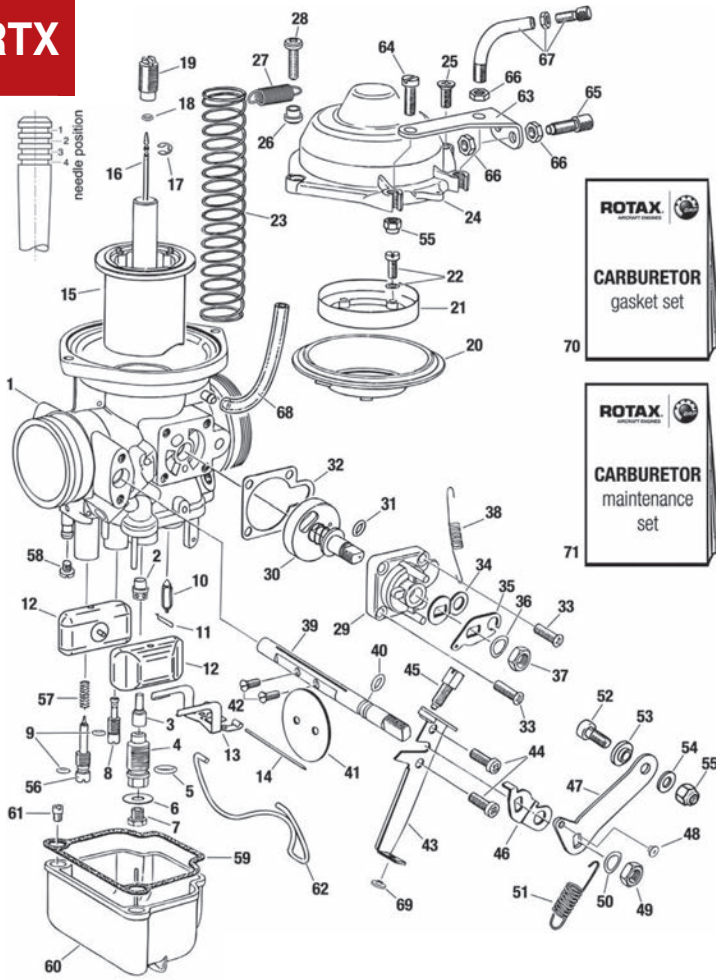
11 Depends on airbox version;

See SB-914-044 current issue

| Version | 912 UL/A/F | | 912 ULS/ULSFR/S | | 914 UL/F | |
|---|---|---|--|--|---|--|
| | 59,6 kW (81 hp) | | 73.5 kW (100 hp) | | 84.5 kW (115 hp) | |
| Carburetor part no. | | | | | | |
| Location | 1/3 | 2/4 | 1/3 | 2/4 | 1/3 | 2/4 |
| Airbox part no. 667355 BING no. Main jet Needle position | 892-500 64/32/416A-02 HD 158 ¹¹⁾ NP 3 | 892-505 64/32/417A-02 HD 158 ¹¹⁾ NP 3 | 892-530 ⁴⁾ 64/32/421A-02 HD 155 NP 3 | 892-535 ⁵⁾ 64/32/422A-02 HD 155 NP 3 | | |
| Airbox part BING no. Main jet Needle position | 892-500 ²⁾ 64/32/416A-02 HD 158 NP 3 | 892-505 ³⁾ 64/32/417A-02 HD 158 NP 3 | | | | |
| Airbox part no. 867-753 BING no. Main jet Needle position | | | | | 887-093 ⁶⁾ 64/32/418/01 HD 160 ¹⁰⁾ NP 2 | 887-098 ⁷⁾ 64/32/419/01 HD 164 ¹⁰⁾ NP 2 |
| Airbox part no. 667-162 BING no. Main jet Needle position | | | | | 887-093 64/32/418/01 HD 160 ¹⁰⁾ NP 2 | 887-098 64/32/419/01 HD 164 ¹⁰⁾ NP 2 |
| Airbox part no. 667-167 BING no. Main jet Needle position | | | | | 892-520 ⁸⁾ 64/32/418A-05 HD 156 ¹⁰⁾ NP 2 | 892-525 ⁹⁾ 64/32/419/01 HD 158 ¹⁰⁾ NP 3 |
| Airbox part no. 667-574 BING no. Main jet Needle position | | | | | 892-520 64/32/418A-05 HD 156 ¹⁰⁾ NP 2 | 892-525 64/32/419/01 HD 158 ¹⁰⁾ NP 3 |
| Needle position | ND 2,72 | | ND 2,720 | | ND 2,72 | |
| Diffusor | 961-200 | | 961-202 | | 961-200 | |
| Jet needle | | | 961-215 | | | |
| Idle jet | | | LD 35 | | | |
| Cold start jet | | | SD 85 1) | | | |
| Float needle / viton tipped | | | 961-708 | | | |
| Idle mixture screw | | | LS 1,5 | | | |



RTX



CARBURETOR - SINGLE PARTS 912 SERIES

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|---------------------------------|-----------|---------|----------|
| | | | 912 UL | 912 ULS | |
| 2 | 961-200 | DIFFUSER | 1 | | \$19.50 |
| 2 | 961-202 | DIFFUSER | | 1 | \$24.95 |
| 3 | 261-607 | NEEDLE JET 2.72 | 1 | | \$22.10 |
| 3 | 261-608 | NEEDLE JET 2.70 | | 1 | \$22.10 |
| 4 | 963-130 | MIXING TUBE | 1 | 1 | \$22.60 |
| 5 | 430-800 | O-RING 8x2 | 1 | 1 | \$3.35 |
| 6 | 827-160 | SHIM | 1 | 1 | \$1.75 |
| 7 | 268-985 | MAIN JET 160 | | 1i | \$11.50 |
| 7 | 268-984 | MAIN JET 155 | (1)f | 1 | \$11.50 |
| 7 | 268-996 | MAIN JET 158 | 1 | | \$11.50 |
| 8 | 963-141 | IDLE JET 30 | 1 | 1 | \$30.70 |
| 8 | 963-143 | IDLE JET 35 | 1 | 1 | \$44.60 |
| 9 | 831-713 | O-RING 3.2x1.8 | 2g | 2g | \$3.85 |
| 10 | 261-708 | FLOAT NEEDLE VALVE W. VITON TIP | 1g | 1g | \$43.65 |
| 11 | 261-710 | FLOAT NEEDLE CLIP | 1 | 1 | \$1.95 |
| 12 | 861-188 | FLOATS PAIR | 1h | 1h | \$131.75 |
| 13 | 861-192 | FLOAT BRACKET | 1 | 1 | \$19.75 |
| 14 | 929-702 | PIN | 1 | 1 | \$2.55 |
| 15 | 961-230 | CARBURETOR PISTON | 1 | 1 | \$148.75 |
| 16 | 961-215 | JET NEEDLE | 1 | 1 | \$11.55 |
| 17 | 945-785 | CIRCLIP | 1 | 1 | \$1.85 |
| 18 | 950-430 | O-RING 2.5x1.5-N | 1 | 1 | \$1.85 |
| 19 | 961-293 | FIXATION SCREW | 1e | 1e | \$20.50 |
| 20 | 861-116 | DIAPHRAGM | 1 | 1 | \$95.19 |
| 21 | 961-240 | RETAINING RING | 1 | 1 | \$49.50 |
| 22 | 841-210 | COMBINED SCREW M4x12 | 4 | 4 | \$2.95 |
| 23 | 938-365 | THROTTLE VALVE SPRING | 1 | 1 | \$17.60 |
| 24 | 961-250 | CHAMBER TOP | 1 | 1 | \$132.75 |

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|-----------------------------|-----------|---------|----------|
| | | | 912 UL | 912 ULS | |
| 25 | 841-341 | COUNTERSUNK SCREW M5x12 | 1 | 1 | \$1.15 |
| 26 | 847-910 | DISTANCE SLEEVE | 1 | 1 | \$11.95 |
| 27 | 838-242 | SPRING | 1 | 1 | \$13.50 |
| 28 | 640-251 | OVAL HEAD SCREW M5x20 | 1 | 1 | \$1.02 |
| 29 | 961-280 | CHOKE HOUSING | 1 | 1 | \$37.99 |
| 30 | 961-273 | CHOKE VALVE ASSEMBLY 1/3 | 1a,g | 1a,g | \$282.63 |
| 30 | 961-278 | CHOKE VALVE ASSEMBLY 2/4 | 1b,g | 1b,g | \$282.63 |
| 31 | 950-420 | O-RING 5x1.5 | 1 | 1 | \$6.65 |
| 32 | 950-030 | GASKET | 1 | 1 | \$4.60 |
| 33 | 841-360 | PHILLIPS HEAD SCREW M4x14 | 4 | 4 | \$1.90 |
| 34 | 848-241 | CHOKE LEVER INSIDE | 1 | 1 | \$6.20 |
| 35 | 848-245 | CHOKE LEVER OUTSIDE | 1 | 1 | \$7.95 |
| 36 | 845-035 | SPRING WASHER 8.3/13.6/0.4 | 2 | 2 | \$6.55 |
| 37 | 942-290 | HEX. NUT M8x1 | 2 | 2 | \$3.65 |
| 38 | 938-287 | RETURN SPRING | 1 | 1 | \$10.50 |
| 39 | 963-992 | THROTTLE SHAFT | 1 | 1 | \$32.80 |
| 40 | 950-020 | O-RING 6x1.9 | 1 | 1 | \$7.50 |
| 41 | 963-666 | THROTTLE VALVE | 1 | 1 | \$15.50 |
| 42 | 941-200 | SLOTTED HEAD SCREW M3x6 | 2 | 2 | \$1.95 |
| 43 | 961-262 | CABLE SUPPORT 1/3 | 1a,g | 1a,g | \$22.50 |
| 43 | 961-267 | CABLE SUPPORT 2/4 | 1b,g | 1b,g | \$22.50 |
| 44 | 240-357 | OVAL HEAD SCREW M4x10 | 2 | 2 | \$0.62 |
| 45 | 963-162 | THROTTLE VALVE STOP SCREW | 1 | 1 | \$10.95 |
| 46 | 848-232 | STOP LEVER 2/4 | 1b | 1b | \$8.99 |
| 46 | 848-230 | STOP LEVER 1/3 | 1a | 1a | \$8.95 |
| 47-48 | 963-026 | THROTTLE VALVE LEVER 1/3 | 1a,g | 1a,g | \$41.55 |
| 47-48 | 963-021 | THROTTLE VALVE LEVER 2/4 | 1b,g | 1b,g | \$47.70 |
| 48 | 963-015 | SLEEVE | 1 | 1 | \$4.35 |
| 49 | 942-290 | HEX. NUT M8x1 | 2 | 2 | \$3.65 |
| 50 | 845-035 | SPRING WASHER 8.3/13.6/0.4 | 2 | 2 | \$6.55 |
| 51 | 938-289 | RETURN SPRING | 1 | 1 | \$11.60 |
| 52 | 241-847 | ALLEN SCREW M5x12 | 1 | 1 | \$14.55 |
| 53 | 847-740 | GRADUATED SLEEVE | 1 | 1 | \$14.95 |
| 54 | 827-800 | WASHER A5.5 | 1 | 1 | \$5.99 |
| 55 | 842-030 | LOCK NUT M5 | 2 | 2 | \$2.05 |
| 56 | 961-222 | IDLE MIXTURE SCREW | 1 | 1 | \$32.95 |
| 57 | 239-463 | COMPRESSION SPRING | 1g | 1g | \$1.82 |
| 58 | 941-740 | SLOTTED HEAD SCREW M3.5x5 | 1 | 1 | \$1.53 |
| 59 | 830-721 | GASKET (rubber) | 1 | 1 | \$21.76 |
| 60-61 | 963-230 | FLOAT CHAMBER ASSEMBLY 1/3 | 1 | 1 | \$109.90 |
| 60-61 | 963-232 | FLOAT CHAMBER ASSEMBLY 2/4 | 1 | 1 | \$109.90 |
| 61 | 268-758 | JET 85 | 1 | 1 | \$21.99 |
| 61 | 268-762 | JET 105 | (1)d | (1)d | \$24.50 |
| 61 | 268-857 | JET 120 | (1)d | (1)d | \$15.81 |
| 61 | 268-763 | JET 130 | (1)d | (1)d | \$14.37 |
| 61 | 268-765 | JET 140 | (1)d | (1)d | \$14.50 |
| 62 | 963-180 | SPRING CLIP | 1 | 1 | \$10.50 |
| 63 | 851-071 | SUPPORT 1/3 | 1a | 1a | \$68.53 |
| 63 | 851-073 | SUPPORT 2/4 | 1b | 1b | \$68.53 |
| 64 | 240-761 | SLOTTED HEAD SCREW M5x16 | 1 | 1 | \$1.75 |
| 65 | 241-440 | ADJUSTMENT SCREW M6x0.75 | 1 | 1 | \$4.95 |
| 66 | 942-541 | HEX. NUT M6x0.75 HEIGHT 3MM | 3 | 3 | \$0.99 |
| 67 | 861-640 | BENT TUBE ASSEMBLY | 1 | 1 | \$39.95 |
| 68 | 256-035 | AIR VENT LINE 120MM | 1 | 1 | \$12.95 |
| 69 | 963-010 | SLEEVE | 1 | 1 | \$3.95 |
| 70 | 996-946 | GASKET SET CARBURETOR | 1j | 1j | \$103.46 |
| 71 | 889-534 | MAINTENANCE SET CARBURETOR | 2kl | 2kl | \$249.69 |

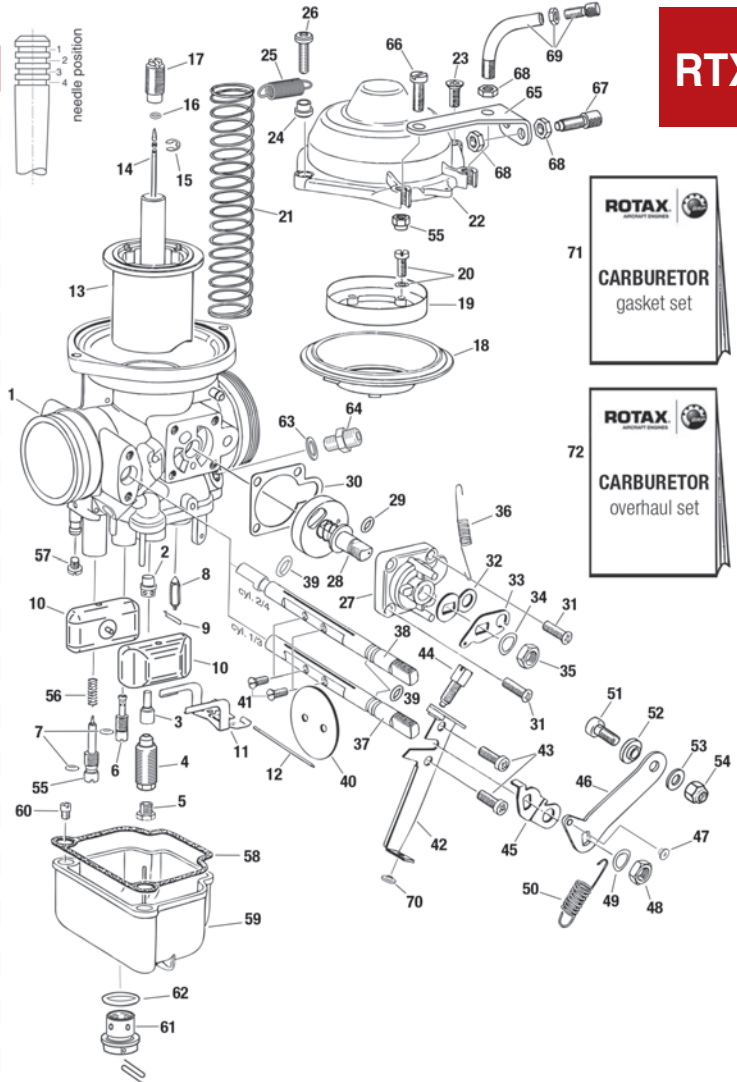
- Items not illustrated

- a For cylinder 1/3
- b For cylinder 2/4
- c Carburetor housing not available as spare part. use carburetor assy.;
- d Refer to service instruction SI-03-1998 current issue
- e With clearance for O-Ring (use only together with O-Ring Pos. 18 (part no. 950430));
- f For airbox part no. 867-758 / part no. 867-756
See therefore SB-912-044
- g See therefore SI-912-012 / SI-914-014
- h Package including two floats
- i Special jetting according to instructions of the manufacturer
- j Contain parts requirement for 2 carburetors
- k Maintenance set for 1 carburetor
- l with rubber gasket

912 | 914 ENGINE

CARBURETOR - SINGLE PARTS 914 SERIES

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------------|-----------|----------|
| 2 | 961-200 | DIFFUSER | 1 | \$19.50 |
| 3 | 261-607 | NEEDLE JET 2.72 | 1 | \$22.10 |
| 4 | 963-135 | MIXING TUBE | 1 | \$89.95 |
| 5 | 268-997 | MAIN JET 156 | 1g | \$11.99 |
| 5 | 268-996 | MAIN JET 158 | 1b,g | \$11.50 |
| 5 | 268-985 | MAIN JET 160 | 1h | \$11.50 |
| 5 | 268-993 | MAIN JET 164 | 1b,h | \$11.50 |
| 6 | 963-141 | IDLE JET 30 | 1 | \$30.70 |
| 6 | 963-143 | IDLE JET 35 | 1 | \$44.60 |
| 7 | 831-713 | O-RING 3.2x0.8 | 2f | \$3.85 |
| 8 | 261-708 | FLOAT NEEDLE VALVE W. VITON TIP | 1f | \$43.65 |
| 9 | 261-710 | FLOAT NEEDLE CLIP | 1 | \$1.95 |
| 10 | 861-188 | FLOATS PAIR | 1i | \$131.75 |
| 11 | 861-192 | FLOAT BRACKET | 1 | \$19.75 |
| 12 | 929-702 | PIN | 1 | \$2.55 |
| 13 | 961-230 | CARBURETOR PISTON | 1 | \$148.75 |
| 14 | 961-215 | JET NEEDLE | 1 | \$11.55 |
| 15 | 945-785 | CIRCLIP | 1 | \$1.85 |
| 16 | 950-430 | O-RING 2.5x1.5-N | 1 | \$1.85 |
| 17 | 961-293 | FIXATION SCREW | 1e | \$20.50 |
| 18 | 861-116 | DIAPHRAGM | 1 | \$95.19 |
| 19 | 961-240 | RETAINING RING | 1 | \$49.50 |
| 20 | 841-210 | COMBINED SCREW M4x12 | 4 | \$2.95 |
| 21 | 938-365 | THROTTLE VALVE SPRING | 1 | \$17.60 |
| 22 | 961-250 | CHAMBER TOP | 1 | \$132.75 |
| 23 | 841-341 | COUNTERSUNK SCREW M5x12 | 1 | \$1.15 |
| 24 | 847-910 | DISTANCE SLEEVE | 1 | \$11.95 |
| 25 | 838-242 | SPRING | 1 | \$13.50 |
| 26 | 640-251 | OVAL HEAD SCREW M5x20 | 1 | \$1.02 |
| 27 | 961-280 | CHOKE HOUSING | 1 | \$37.99 |
| 28 | 961-273 | CHOKE VALVE ASSEMBLY 1/3 | 1a,f | \$282.63 |
| 28 | 961-278 | CHOKE VALVE ASSEMBLY 2/4 | 1b,f | \$282.63 |
| 29 | 950-420 | O-RING 5x1.5 | 1 | \$6.65 |
| 30 | 950-030 | GASKET | 1 | \$4.60 |
| 31 | 841-360 | SLOTTED HEAD SCREW M4x14 | 4 | \$1.90 |
| 32 | 848-241 | CHOKE LEVER INSIDE | 1 | \$6.20 |
| 33 | 848-245 | CHOKE LEVER OUTSIDE | 1 | \$7.95 |
| 34 | 845-035 | SPRING WASHER 8.3/13.6/0.4 | 2 | \$6.55 |
| 35 | 942-290 | HEX. NUT M8x1 | 2 | \$3.65 |
| 36 | 938-287 | RETURN SPRING | 1 | \$10.50 |
| 37 | 963-992 | THROTTLE SHAFT | 1a | \$32.80 |
| 38 | 963-994 | THROTTLE SHAFT (long) | 1b | \$128.75 |
| 39 | 950-020 | O-RING 6x1.9 | 2j | \$7.50 |
| 40 | 963-666 | THROTTLE VALVE | 1 | \$15.50 |
| 41 | 941-200 | SLOTTED HEAD SCREW M3x6 | 2 | \$1.95 |
| 42 | 961-262 | CABLE SUPPORT 1/3 | 1a,f | \$22.50 |
| 42 | 961-267 | CABLE SUPPORT 2/4 | 1b,f | \$22.50 |
| 43 | 240-357 | OVAL HEAD SCREW M4x10 | 2 | \$0.62 |
| 44 | 963-162 | THROTTLE VALVE STOP SCREW | 1 | \$10.95 |
| 45 | 848-232 | STOP LEVER 2/4 | 1b | \$8.99 |
| 45 | 848-230 | STOP LEVER 1/3 | 1a | \$8.95 |
| 46-47 | 963-026 | THROTTLE VALVE LEVER 1/3 | 1a,f | \$41.55 |
| 46-47 | 963-021 | THROTTLE VALVE LEVER 2/4 | 1b,f | \$47.70 |
| 47 | 963-015 | SLEEVE | 1 | \$4.35 |
| 48 | 942-290 | HEX. NUT M8x1 | 2 | \$3.65 |
| 49 | 845-035 | SPRING WASHER 8.3/13.6/0.4 | 2 | \$6.55 |
| 50 | 938-289 | RETURN SPRING | 1 | \$11.60 |
| 51 | 241-847 | ALLEN SCREW M5x12 | 1 | \$14.55 |
| 52 | 847-740 | GRADUATED SLEEVE | 1 | \$14.95 |
| 53 | 827-800 | WASHER A5.5 | 1 | \$5.99 |
| 54 | 842-030 | LOCK NUT M5 2 2 | 1 | \$2.05 |
| 55 | 961-222 | IDLE MIXTURE SCREW | 1 | \$32.95 |
| 56 | 239-463 | COMPRESSION SPRING | 1f | \$1.82 |
| 57 | 941-740 | SLOTTED HEAD SCREW M3.5x5 | 1 | \$1.53 |
| 58 | 830-721 | GASKET (rubber) | 1 n | \$21.76 |
| 58 | 830-728 | GASKET (paper) | 1m | \$21.76 |
| 59-60 | 963-235 | FLOAT CHAMBER ASSEMBLY 1/3 | 1 | \$107.91 |
| 59-60 | 963-237 | FLOAT CHAMBER ASSEMBLY 2/4 | 1 | \$105.99 |
| 60 | 268-758 | JET 85 | 1 | \$21.99 |
| 60 | 268-762 | JET 105 | (1)d | \$24.50 |



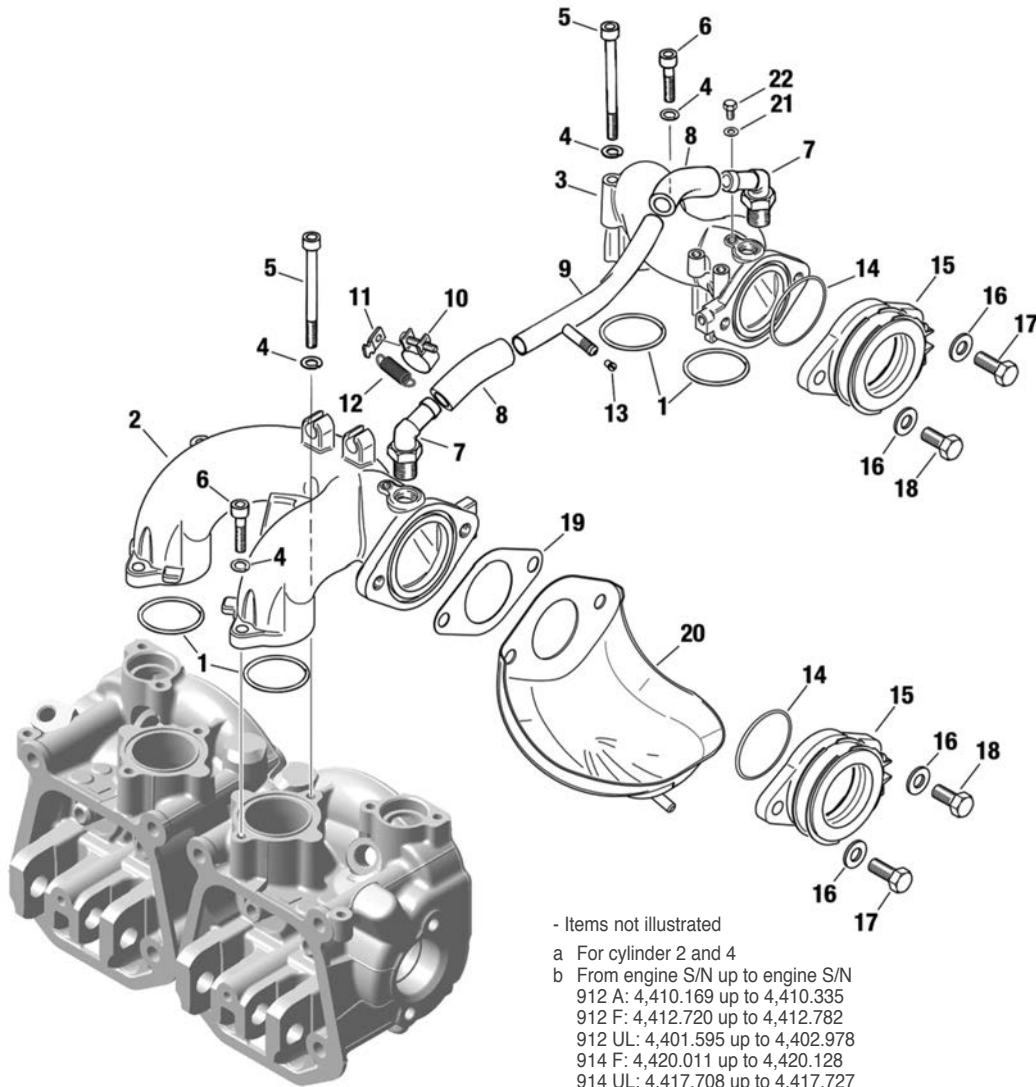
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| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------|-----------|----------|
| 60 | 268-857 | JET 120 | (1)d | \$15.81 |
| 60 | 268-763 | JET 130 | (1)d | \$14.37 |
| 60 | 268-765 | JET 140 | (1)d | \$14.50 |
| 61-62 | 963-281 | ATTACHMENT SCREW ASSEMBLY | 1f | \$101.69 |
| 62 | 631-771 | O-RING 15.6x1.78 | 1f | \$12.95 |
| 63 | 950-141 | GASKET RING A 8x13 | 1 | \$1.30 |
| 64 | 941-853 | FUEL LINE CONNECTOR | 1 | \$18.24 |
| 65 | 851-071 | SUPPORT 1/3 | 1a | \$68.53 |
| 65 | 851-073 | SUPPORT 2/4 | 1b | \$68.53 |
| 66 | 240-761 | SLOTTED HEAD SCREW M5x16 | 1 | \$1.75 |
| 67 | 241-440 | ADJUSTMENT SCREW M6x0.75 | 1 | \$4.95 |
| 68 | 942-541 | HEX. NUT M6x0.75 HIGHT 3 MM | 3 | \$0.99 |
| 69 | 861-640 | BENT TUBE ASSEMBLY | 1 | \$39.95 |
| 70 | 963-010 | SLEEVE | 1 | \$3.95 |
| 71 | 996-946 | GASKET SET CARBURETOR 914 | 1kn | \$103.46 |
| 72 | 889-534 | OVERHAUL-KIT CARBURETOR 914 | 2 ln | \$249.69 |

- Items not illustrated
- a For cylinder 1/3
- b For cylinder 2/4
- c Carburetor housing not available as spare part. use carburetor ASSEMBLY;
- d Refer to service instruction SI-03-1998 current issue
- e With clearance for O-Ring (use only together with O-Ring Pos. 18 (part no. 950-430);
- f For airbox part no. 867-758 / part no. 867-756
See therefore SB-912-044
- g See therefore SI-912-012 / SI-914-014
- h Package including two floats
- i Special jetting according to instructions of the manufacturer
- j Contain parts requirement for 2 carburetors
- k Maintenance set for 1 carburetor
- l with rubber gasket



RTX

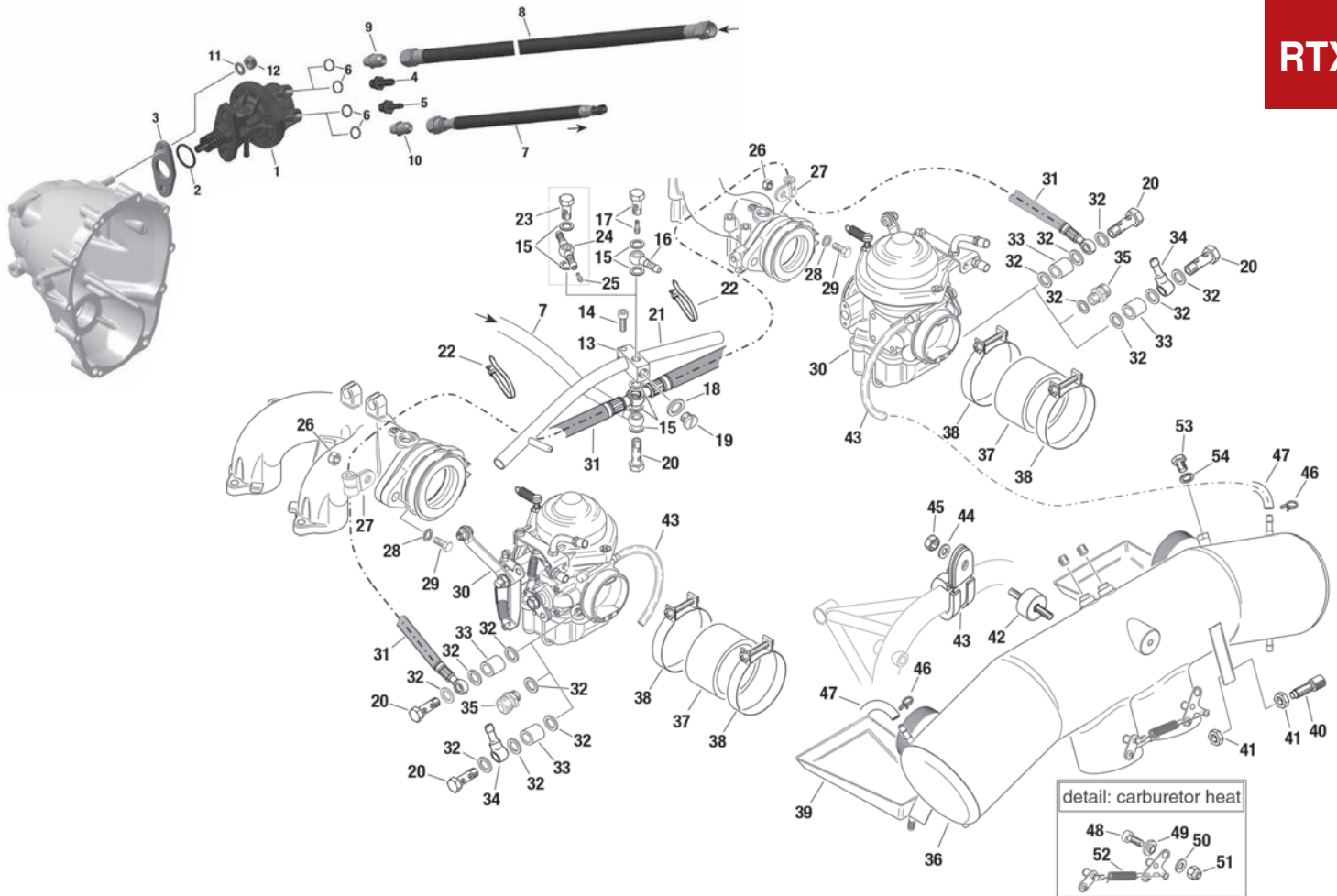


INTAKE MANIFOLD, COMPENSATING TUBE ASSEMBLY, RUBBER FLANGE ASSEMBLY

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|----------------------------|-----------|---------|--------|----------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 230-910 | O-RING 34x2 | 4 | 4 | 4 | \$11.91 |
| 2 | 867-932 | INTAKE MANIFOLD | 1a | 1a | 1a | \$443.87 |
| 4 | 827-962 | WASHER 6.4 | 8 | 8 | 8 | \$0.31 |
| 4 | 945-831 | LOCK WASHER A6 | 8 | 8 | 8 | \$0.23 |
| 5 | 241-871 | ALLEN SCREW M6x70 | 4d | | 4d | \$1.92 |
| 5 | 240-531 | ALLEN SCREW M6x75 | 4c | 4 | 4c | \$1.92 |
| 6 | 840-866 | ALLEN SCREW M6x25 | 4 | 4 | 4 | \$1.14 |
| 7 | 922-242 | ANGULAR TUBE 1/4-18NPT | 2 | 2 | 2 | \$18.14 |
| 8 | 956-143 | TUBE 66 MM | 2j | 2j | 2j | \$6.50 |
| 8 | 956-141 | TUBE 81 MM | 1j | 1j | 1j | \$8.25 |
| 8 | 956-142 | TUBE | 2i | 2i | 2i | \$69.43 |
| 9 | 924-541 | COMPENSATING TUBE ASSEMBLY | 1j | 1j | 1j | \$105.93 |
| 10 | 853-515 | CLAMP 16/9 | 2 | 2 | 2 | \$5.06 |
| 11 | 953-400 | BRACKET | 2 | 2 | 2 | \$4.54 |
| 13 | 940-980 | SCREW M3.5 | 1j | 1j | 1j | \$3.92 |
| 14 | 230-290 | O-RING 44x2 | 2b | | 2b | \$8.25 |
| 14 | 230-300 | O-RING 47x2 | 2c | 2 | 2c | \$6.61 |
| 15 | 267-789 | RUBBER FLANGE ASSEMBLY | 2f | 2f | 2f | \$105.40 |
| 16 | 250-315 | WASHER 8.4 | 4 | 4 | 4 | \$0.41 |
| 17 | 940-481 | HEX. SCREW M8x30 | 2j | 2j | | \$1.40 |
| 18 | 240-276 | HEX. SCREW M8x25 | 2j | 2j | 4 | \$1.26 |
| 19 | 931-640 | GASKET | 2e | | 2e | \$13.95 |
| 20 | 874-300 | DRIP TRAY | (2g) | (2g) | 2 | \$102.21 |
| 21 | 230-415 | GASKET A 6x10 | 2 | 2 | 2 | \$1.40 |
| 22 | 641-071 | HEX. SCREW M6x6 | 2 | 2 | 2 | \$1.43 |

- Items not illustrated

- a For cylinder 2 and 4
- b From engine S/N up to engine S/N
912 A: 4,410.169 up to 4,410.335
912 F: 4,412.720 up to 4,412.782
912 UL: 4,401.595 up to 4,402.978
914 F: 4,420.011 up to 4,420.128
914 UL: 4,417.708 up to 4,417.727
- c From engine S/N
912 A: 4,410.336
912 F: 4,412.783
912 UL: 4,402.979
914 F: 4,420.129
914 UL: 4,417.728
- d up to engine S/N (only if the engine was not refitted with intake manifolds 867-683 and 867-688)
912 A: 4,410.336
912 F: 4,412.783
912 UL: 4,402.978
914 F: 4,420.128
914 UL: 4,417.727
- e Only at intake manifold without O-ring
- f Following Service Bulletin has to be noticed:
SB-912-030 letztgültige Ausgabe/current issue
SB-914-019
- g Intended for airboxes without drip tray.
- h For rework of exhaust port
See Maintenance Manual Heavy of the respective engine type, current issue.
- i in a roll
- j Following Service Instruction has to be noticed:
SI-912-020 current issue
SI-914-022
- k For cylinder 1 and 3
- l Intake manifold with connection boss for pneumatic carburetor-synchronisation.
From engine S/N
912 A: 4,410.420
912 F: 4,412.808
912 S: 4,922.624
912 UL: 4,404.045
912 ULS: 4,426.475
912 ULSFR: 4,429.593
914 F: 4,420.239
914 UL: 4,417.956



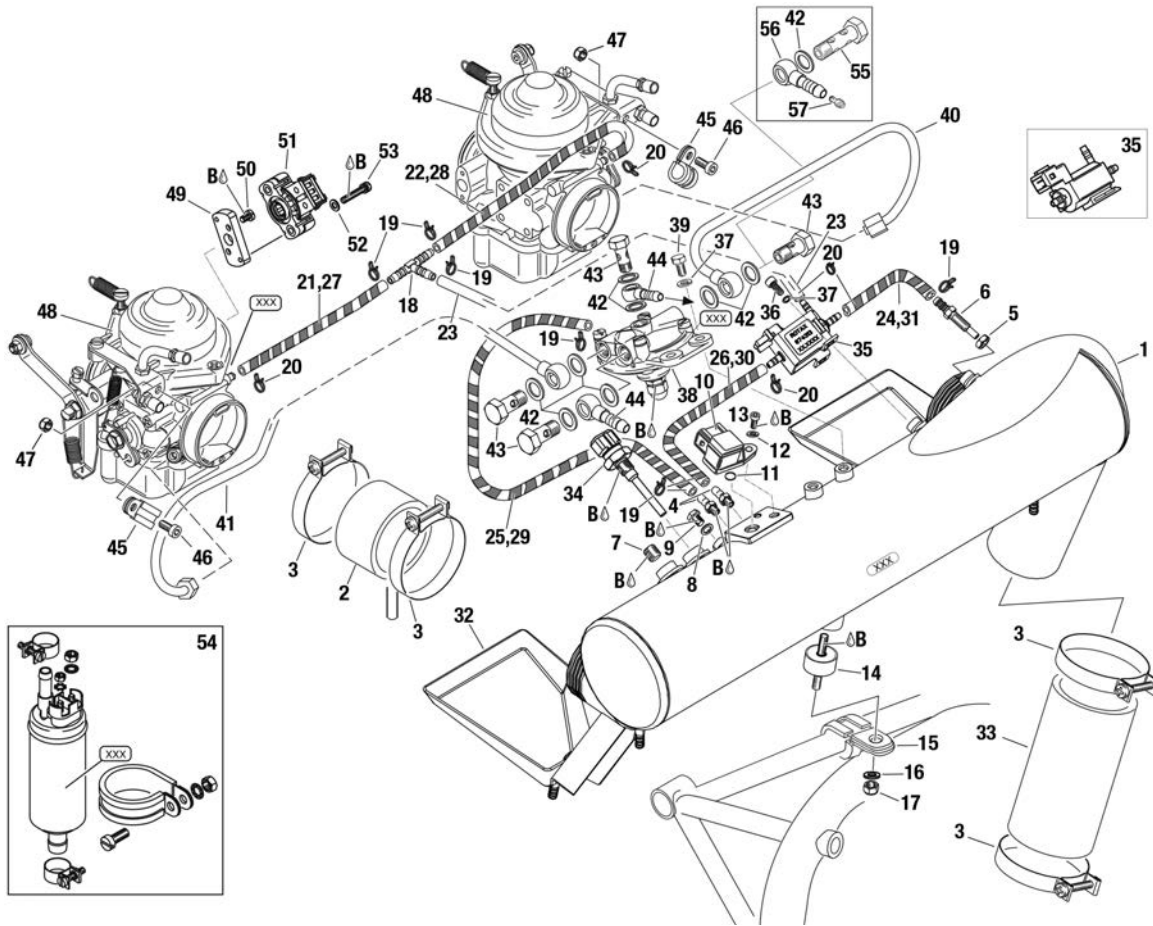
FUEL PUMP ASSEMBLY, FUEL HOSE ASSEMBLY, AIRBOX ASSEMBLY

| Item No. | Part No | Description | Qty. Req. | | Price | Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|-----------------------------|-----------|---------|----------|----------|---------|-----------------------------|-----------|---------|----------|
| | | | 912 UL | 912 ULS | | | | | 912 UL | 912 ULS | |
| 1-3 | 893-115 | FUEL PUMP ASSEMBLY | 1bi | 1bi | \$173.00 | 37 | 860-985 | CONNECTING HOSE 35 MM | (2) | (2) | \$11.38 |
| 2 | 631-870 | O-RING 23.47x2.62 | 1 | 1 | \$8.01 | 38 | 853-595 | CLAMP 59 | (4) | (4) | \$10.70 |
| 3 | 950-227 | ISOLATING FLANGE | 1 | 1 | \$40.07 | 39 | 874-308 | DRIP TRAY SET | (1f) | (1f) | CALL |
| 4 | 840-745 | NIPPLE 9/5.7 | 1i | 1i | \$14.96 | 39 | 874-680 | DRIP TRAY SET | (1e) | (1e) | \$188.42 |
| 5 | 840-740 | NIPPLE 7/3.8 | 1i | 1i | \$14.96 | 40 | 241-440 | ADJUSTMENT SCREW M6x0.75 | (1) | (1) | \$4.95 |
| 6 | 250-425 | GASKET RING 10.2x15x1.5 | 2i | 2i | \$1.29 | 41 | 942-541 | HEX. NUT M6x0.75 HIGHT 3 MM | (2) | (2) | \$0.99 |
| 7 | 874-337 | FUEL HOSE ASSEMBLY | 1i | 1i | \$184.93 | 42 | 960-151 | RUBBER PUFFER 20x15xM6 | (1) | (1) | \$59.95 |
| 8 | 874-347 | FUEL HOSE ASSEMBLY | 1i | 1i | \$478.00 | 43 | 853-010 | CABLE CLAMP 32/M6 | (1) | (1) | \$11.38 |
| 9 | 840-770 | ADAPTER 9/16-18 UNF/ M10x1 | 1i | 1i | \$69.54 | 44 | 927-941 | WASHER 6.0/12/1 | (1) | (1) | \$0.69 |
| 10 | 840-775 | ADAPTER 1/2-20 UNF/ M10x1 | 1i | 1i | \$69.54 | 45 | 842-041 | LOCK NUT M6 | (1) | (1) | \$2.43 |
| 11 | 945-832 | LOCK WASHER A8 | 2 | 2 | \$0.23 | 46 | 851-370 | CLAMP 8 | (4) | (4) | \$4.90 |
| 12 | 942-674 | HEX. NUT M8 SW11 | 2 | 2 | \$1.99 | 47 | 860-660 | HOSE 4x7, IN A ROLL, 200 MM | (2) | (2) | \$88.17 |
| 13 | 851-328 | FUEL DISTRIBUTION BLOCK | (1) | (1) | \$97.72 | 48 | 241-847 | ALLEN SCREW M5x12 | (1) | (1) | \$14.55 |
| 14 | 840-518 | ALLEN SCREW M5x16 | (1) | (1) | \$1.00 | 49 | 847-741 | GRADUATED SLEEVE | (1) | (1) | \$28.17 |
| 15 | 950-143 | SEALING RING A 8x13 | (5) | (5) | \$4.72 | 50 | 827-800 | WASHER A 5.5 | (1) | (1) | \$5.99 |
| 16 | 956-312 | HOSE NIPPLE 3/4 | (1) | (1) | \$23.81 | 51 | 842-030 | LOCK NUT M5 | (1) | (1) | \$2.05 |
| 17 | 840-737 | BANJO BOLT ASSEMBLY | (1)d | (1)d | \$66.38 | 52 | 938-030 | SPRING | (1) | (1) | \$38.58 |
| 18 | 230-150 | SEALING RING 10x14 | (1) | (1) | \$1.09 | 53 | 240-771 | HEX. SCREW M6x10 | (1) | (1) | \$0.57 |
| 19 | 641-733 | SLOTTED HEAD SCREW M10x1x8 | (1) | (1) | \$10.70 | 54 | 230-415 | SEALING RING A 6x10 | (1) | (1) | \$1.40 |
| 20 | 940-872 | BANJO BOLT M8x1x27 | (3) | (3) | \$19.76 | | | | | | |
| 22 | 866-716 | CABLE TIE 203x7.6 | (2) | (2) | \$0.66 | | | | | | |
| 23 | 941-780 | BANJO BOLT M8x1x17 | (1) | (1) | \$10.45 | | | | | | |
| 24-25 | 956-602 | DOUBLE HOSE NIPPLE ASSEMBLY | (1)c | (1)c | \$66.74 | | | | | | |
| 25 | 963-820 | PILOT JET 35 | (1) | (1) | \$15.78 | | | | | | |
| 26 | 942-671 | HEX. NUT M8 | 2 | 2 | \$2.67 | | | | | | |
| 27 | 651-430 | CABLE CLAMP 12/M8 | (2) | (2) | \$22.73 | | | | | | |
| 31 | 874-911 | FUEL HOSE ASSEMBLY | (1) | (1) | \$431.52 | | | | | | |
| 32 | 950-141 | GASKET RING A 8x13 | (6) | (6) | \$1.30 | | | | | | |
| 33 | 847-796 | DISTANCE SLEEVE 8.4/12/7.5 | (2) | (2) | \$10.84 | | | | | | |
| 34 | 956-312 | HOSE NIPPLE 3/4 | 2h | 2h | \$23.81 | | | | | | |
| 35 | 941-853 | FUEL LINE CONNECTOR | 1j | 1j | \$18.24 | | | | | | |
| 36-52 | 667-355 | AIRBOX ASSEMBLY | (1)b g | (1)b g | \$870.00 | | | | | | |

- a Marked with S/N. Inclusive suction- and pressure line;
- b Marked with S/N.
- c With fuel pressure gauge connection; At conversion from 956-312 to 956-602 remove jet 963-820 from banjo bolt.
- d Marked with yellow dot, with orifice;
- e Drip tray for airbox part no. 867-758, 667-162 and 667-167
- f Drip tray for airbox part no. 867-758
- g For retrofitting following Service Bulletin has to be noticed SB-912-044 current issue
- h Optional with connection flexible fuel lines;
- i See SI 912-020 current issue
- j For steel pipe



RTX



AIRBOX ASSEMBLY, 3-WAY SOLENOID VALVE ASSEMBLY, FUEL PRESSURE REGULATOR ASSEMBLY

| Item No. | Part No | Description | Qty. Req. 914 UL | Price |
|----------|---------|-----------------------------------|------------------|------------|
| 1-33 | 667-574 | AIRBOX ASSEMBLY | 1ai | \$1,831.91 |
| 2 | 860-985 | CONNECTING HOSE 35 MM | (2) | \$11.38 |
| 3 | 853-595 | CLAMP 59 | 6 | \$10.70 |
| 4 | 940-551 | HOSE NIPPLE M6 | 2 | \$17.20 |
| 5 | 242-032 | HEX NUT BM6 | 1 | \$0.93 |
| 6 | 940-555 | HOSE NIPPLE M6 | 1 | \$65.48 |
| 7 | 240-481 | PLUG SCREW 1/8-27NPT | 1 | \$5.47 |
| 8 | 230-415 | SEALING RING A 6x10 | 1 | \$1.40 |
| 9 | 641-071 | HEX. SCREW M6x6-8.8 | 1 | \$1.43 |
| 11 | 430-205 | O-RING 6.4x1.8 | 1 | \$4.99 |
| 12 | 244-216 | WASHER 6.2/14/1 | 1 | \$2.38 |
| 13 | 840-392 | ALLEN SCREW M6x14 | 1 | \$1.10 |
| 13 | 840-391 | ALLEN SCREW M6x14 | 1 | \$1.00 |
| 14 | 960-151 | RUBBER PUFFER 20x15xM6 | 1 | \$59.95 |
| 15 | 853-010 | CABLE CLAMP 32/M6 | 1 | \$11.38 |
| 16 | 927-941 | WASHER 6.0/12/1 | 3 | \$0.69 |
| 17 | 842-041 | LOCK NUT M6 | 1 | \$2.43 |
| 18 | 874-270 | T-PEACE 6-6-6 | 2 | \$9.70 |
| 19 | 851-370 | CLAMP 8 | 7 | \$4.90 |
| 20 | 951-595 | CLAMP 7.3 | 5 | \$4.99 |
| 21-26 | 860-660 | HOSE 4x7 | AR | \$88.17 |
| 27-31 | 966-060 | SPIRAL HOSE 6.5x8.5x0.6 | AR | \$11.09 |
| 32 | 874-680 | DRIP TRAY SET | (1g) | \$188.42 |
| 33 | 860-984 | AIR INTAKE HOSE 250 MM ± 3 | 1 | \$56.53 |
| 34 | 966-435 | RESISTANCE THERMOMETER | 1n | \$266.41 |
| 34 | 966-430 | RESISTANCE THERMOMETER | 1b | \$221.57 |
| 35 | 874-310 | 3-WAY SOLENOID VALVE ASSEMBLY | 1l | \$422.44 |
| 35 | 874-313 | 3-WAY SOLENOID VALVE ASSEMBLY | 1l | \$141.90 |
| 35 | 881-040 | 3-WAY SOLENOID VALVE RETROFIT KIT | 1l | \$253.15 |
| 36 | 840-392 | ALLEN SCREW M6x14 | 2 | \$1.10 |
| 37 | 945-831 | LOCK WASHER A6 | 4 | \$0.23 |
| 38 | 887-130 | FUEL PRESSURE REGULATOR ASSEMBLY | 1 | \$166.47 |
| 39 | 241-187 | HEX. SCREW M6x16 | 2 | \$0.53 |
| 40 | 874-290 | FUEL HOSE ASSEMBLY 1/3 | 1d | \$172.84 |
| 41 | 874-280 | FUEL HOSE ASSEMBLY 2/4 | 1c | \$165.39 |

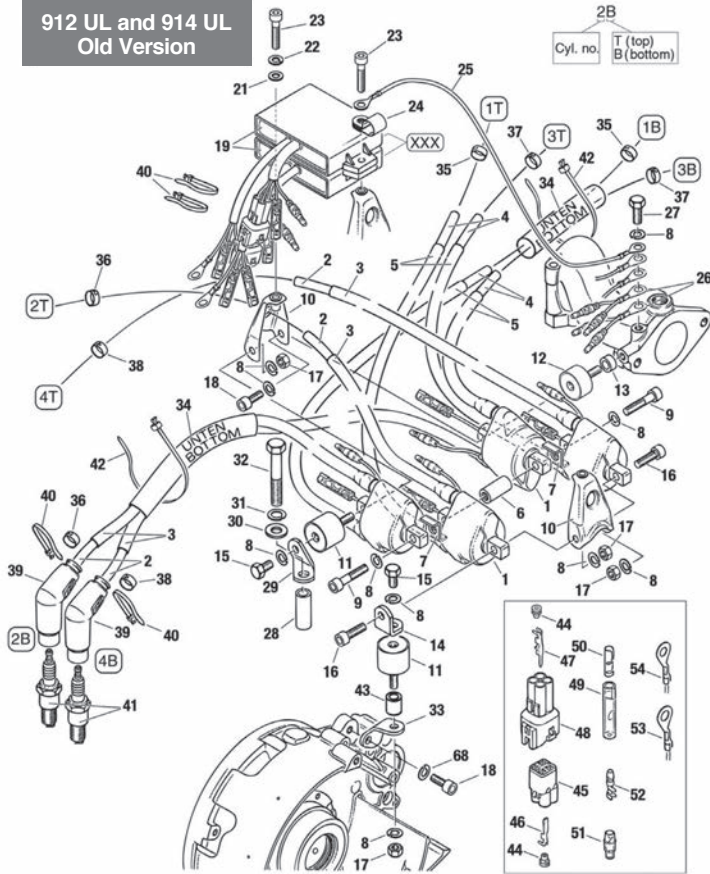
| Item No. | Part No | Description | Qty. Req. 914 UL | Price |
|----------|---------|--------------------------------|------------------|----------|
| 42 | 230-150 | GASKET RING 10x14 | 9 | \$1.09 |
| 43 | 940-874 | BANJO BOLT M10x1x19 | 4 | \$13.99 |
| 44 | 956-314 | HOSE NIPPLE 4/6 | 2 | \$23.81 |
| 45 | 851-115 | CABLE CLAMP 5/M5 | 2 | \$5.69 |
| 46 | 241-842 | ALLEN SCREW M5x12 | 2 | \$0.76 |
| 47 | 842-030 | LOCK NUT M5 | 2 | \$2.05 |
| 49 | 861-931 | ADAPTOR | 1k | \$207.97 |
| 50 | 640-181 | SLOTTED HEAD SCREW M4x7 | 2f | \$3.03 |
| 51 | 966-482 | THROTTLE VALVE POSITION SENSOR | 1k | \$306.10 |
| 52 | 244-073 | WASHER 4.3 | 2f | \$0.21 |
| 53 | 841-030 | COMBINED SCREW M4x22 | 2f | \$2.07 |
| 54 | 996-738 | FUEL PUMP | 2 | \$356.23 |
| 55 | 940-873 | BANJO BOLT M10x1x30 | (1m) o | \$16.26 |
| 56 | 956-314 | HOSE NIPPLE 4/6 | (1m) | \$23.81 |
| 57 | 963-143 | IDLE JET 35 | 1 (mo) | \$44.60 |

- Items not illustrated

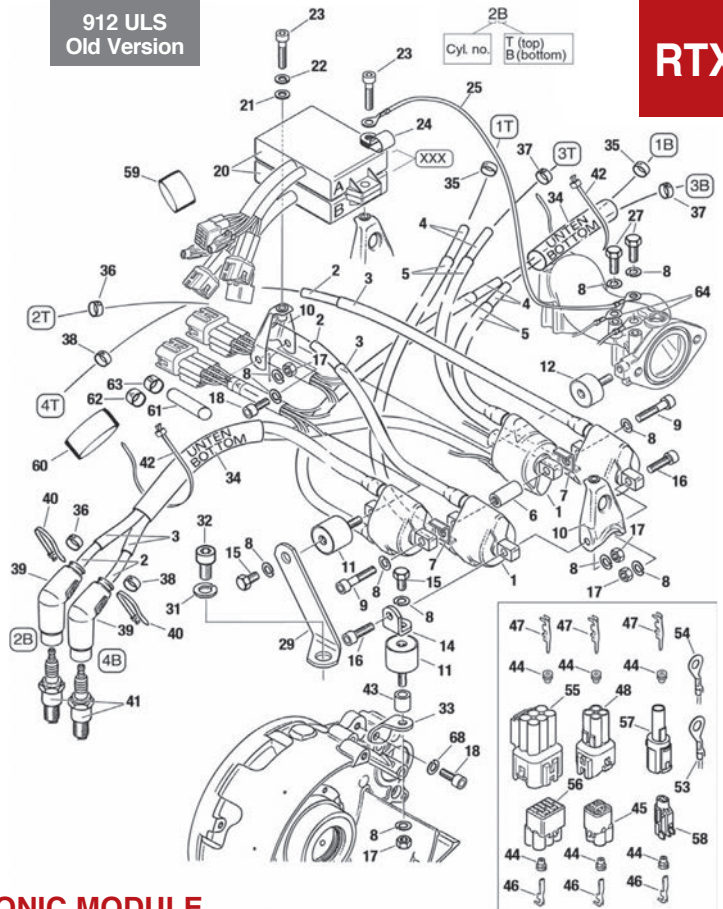
- a Marked with S/N.
- b Only for TCU part no. 966-470;
- c For cylinder 2/4
- d For cylinder 1/3
- e Used as water trap
- f Also included in carburetor for 914 CYLINDER 2/4.
- g Drip tray for airbox part no. 867-758, 667-162 and 667-167
- h For use of airbox part no. 667-162
- i See therefore SI-914-013 current issue
- j For use of airbox part no. 867-753
- k New adapter flange use only together with throttle valve position sensor. See therefore SI-25-1997
- l See Service Instruction SI-914-022 current issue
- m Optional for fuel pressure gauge connection
- n Not for TCU - part no. 966-470
- o Press into part at pos. 56.

912 | 914 ENGINE

912 UL and 914 UL
Old Version



912 ULS
Old Version

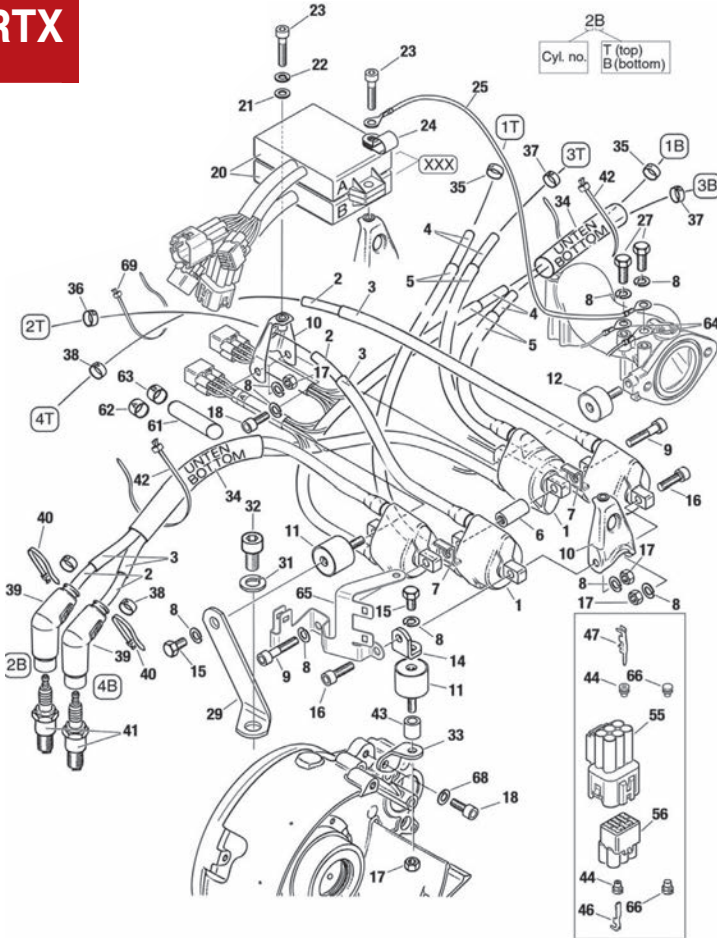


RTX

DOUBLE IGNITION COIL ASSEMBLY, SMD- ELECTRONIC MODULE

| Item No. | Part No | Description | Qty. Req. | | | Price | Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|---|-----------|---------|--------|------------|----------|---------|----------------------------------|-----------|---------|--------|---------|
| | | | 912 UL | 912 ULS | 914 UL | | | | | 912 UL | 912 ULS | 914 UL | |
| 1-5 | 966-219 | DOUBLE IGNITION COIL | 4s | | 4s | \$427.96 | 28 | 847-792 | SPACER 8.4/12/30 | 1g | 1g | 1g | \$15.25 |
| 1-5 | 966-218 | DOUBLE IGNITION COIL ASSEMBLY | 4m | 4m | 4m | \$371.39 | 29 | 851-266 | BRACKET | 1g | 1g | 1g | \$11.26 |
| 2 | 865-710 | IGNITION CABLE 7 MM | ARa | ARa | ARa | \$45.80 | 29 | 851-481 | BRACKET | 1h | 1h | 1h | \$11.47 |
| 3 | 860-990 | PROTECTION HOSE 8x1 | ARb | ARb | ARb | \$17.11 | 30 | 250-311 | WASHER 8.4 | 1g | 1g | 1g | \$0.41 |
| 4 | 865-710 | IGNITION CABLE 7 MM | ARc | ARc | ARc | \$45.80 | 31 | 945-832 | LOCK WASHER A8 | 1g | 1g | 1g | \$0.23 |
| 5 | 860-990 | PROTECTION HOSE 8x1 | ARd | ARd | ARd | \$17.11 | 32 | 240-281 | HEX. SCREW M8x50 | 1g | 1g | 1g | \$1.92 |
| 6 | 842-740 | DISTANCE NUT M6x24 | 1 | | | \$14.66 | 32 | 440-192 | ALLEN SCREW M8x16 | 1h | 1h | 1h | \$1.21 |
| 6 | 842-742 | DISTANCE NUT M6x22.5 | (1)l | 1 | 1 | \$12.12 | 33 | 851-267 | BRACKET | 1 | 1 | 1 | \$11.26 |
| 7 | 953-390 | SEPARATING PLATE | (2)l | 2 | 2 | \$5.35 | 34 | 860-734 | GLASS FIBER-SILICON SHEATING 120 | 2 | 2 | 2 | \$8.35 |
| 8 | 945-831 | LOCK WASHER A6 | 9p | 10p | 9p | \$0.23 | 35 | 860-741 | MARKING SLEEVE 1 | 2 | 2 | 2 | \$1.09 |
| 9 | 840-883 | ALLEN SCREW M6x30 | 2 | 2 | 2 | \$1.45 | 36 | 860-742 | MARKING SLEEVE 2 | 2 | 2 | 2 | \$1.09 |
| 10 | 953-127 | IGNITION COIL BRACKET ASSEMBLY | 2 | 2 | 2 | \$75.27 | 37 | 860-743 | MARKING SLEEVE 3 | 2 | 2 | 2 | \$1.09 |
| 11 | 860-710 | RUBBER BUFFER 25x19xM6 | 2 | 2 | 2 | \$34.41 | 38 | 860-744 | MARKING SLEEVE 4 | 2 | 2 | 2 | \$1.09 |
| 12 | 960-060 | RUBBER BUFFER 25x15xM6 | 1 | 1 | 1 | \$28.81 | 39 | 265-249 | SPARK PLUG SOCKET | 8 | 8 | 8 | \$41.50 |
| 12 | 860-710 | RUBBER BUFFER 25x19xM6 | 1i | | 1i | \$34.41 | 40 | 866-710 | CLAMP 142x2.5MM | 8 | 8 | 8 | \$1.26 |
| 13 | 247-700 | SPACER 6.4/10/5 | ARe | ARe | ARe | \$3.32 | 41 | 897-255 | SPARK PLUG 12 MM | 8 | | | \$3.65 |
| 14 | 851-260 | IGNITION COIL BRACKET | 1 | 1 | 1 | \$11.26 | 41 | 297-940 | SPARK PLUG 12 MM | | 8 | | \$9.42 |
| 15 | 240-772 | HEX. SCREW M6x10 | 2 | 2 | 2 | \$0.63 | 41 | 881-330 | SPARK PLUG 12 MM | | | 8 | \$21.57 |
| 16 | 241-935 | ALLEN SCREW M6x20 | 2 | 2 | 2 | \$0.63 | 41 | 297-656 | SPARK PLUG 12 MM | 8 | 8 | 8 | \$21.95 |
| 17 | 242-211 | HEX. NUT M6 | 4 | 4 | 4 | \$0.41 | 42 | 251-920 | CLAMP 279x3.6MM | 2 | 2 | 2 | \$1.97 |
| 18 | 241-237 | ALLEN SCREW M6x16 | 3 | 3 | 3 | \$0.73 | 43 | 847-701 | SPACER 6.5/10/11 | (1)j | (1)j | 1 | \$8.92 |
| 19 | 965-446 | SMD-ELECTRONIC MODULE (4p+single con.) | 2 | | 2 | \$1,016.66 | 44 | 260-130 | CABLE GROMMET | AR | AR | AR | \$2.28 |
| 20 | 965-440 | SMD-ELECTRONIC MODULE (6p+4p+single con.) | 2f | | | \$1,016.66 | 45 | 265-260 | CONNECTOR HOUSING 4-POLE | AR | AR | AR | \$6.51 |
| 20 | 965-442 | SMD-ELECTRONIC MODULE (6p+6p+single con.) | | | 2m | \$1,311.40 | 46 | 265-275 | FASTON CONNECTOR | AR | AR | AR | \$2.45 |
| 20 | 965-444 | SMD-ELECTRONIC MODULE (6p+6p+single con.) | 2o | 2o | | \$1,016.66 | 47 | 265-210 | FLAT PIN TERMINAL | AR | AR | AR | \$1.92 |
| 21 | 827-800 | WASHER A 5.5 | 1 | 1 | 1 | \$5.99 | 48 | 265-262 | CONNECTOR HOUSING 4-POLE | AR | AR | AR | \$14.11 |
| 22 | 945-830 | LOCK WASHER A5 | 1 | 1 | 1 | \$0.14 | 49 | 964-072 | INSULATION SHEATH | AR | | AR | \$2.28 |
| 22 | 945-750 | LOCK WASHER A5 | 1 | 1 | 1 | \$0.14 | 50 | 964-067 | FASTON CONNECTOR 3.96 | AR | | AR | \$2.28 |
| 23 | 240-186 | ALLEN SCREW M5x25 | 2 | 2 | 2 | \$0.54 | 51 | 964-077 | INSULATION SHEAT | AR | | AR | \$2.50 |
| 24 | 851-118 | CABLE CLAMP 11.3/M5 | 1 | 1 | 1 | \$6.58 | 52 | 964-062 | FASTON CONNECTOR 3.96 | AR | | AR | \$2.28 |
| 25 | 965-788 | MASS CABLE ASSEMBLY | 1 | 1 | 1 | \$13.32 | 53 | 964-059 | CABLE SHOE M6 | AR | AR | AR | \$1.23 |
| 26 | 965-781 | MASS CABLE ASSEMBLY | 2 | | 2 | \$47.90 | 54 | 964-055 | CABLE SHOE M5 | AR | AR | AR | \$0.85 |
| 27 | 241-187 | HEX. SCREW M6x16 | 1 | 2 | 1 | \$0.53 | 55 | 265-269 | CONNECTOR HOUSING 6-POLE | AR | AR | AR | \$17.11 |
| 27 | 241-186 | HEX. SCREW M6x16 | 1 | 2 | 1 | \$0.48 | 56 | 265-265 | CONNECTOR HOUSING 6-POLE | AR | AR | AR | \$9.47 |

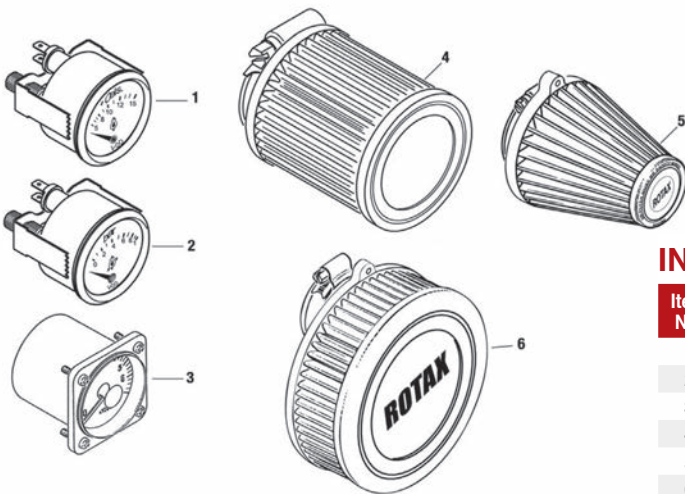
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| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|-----------------------------|-----------|---------|--------|------------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 57 | 265-204 | CONNECTOR HOUSING 1-POLE | AR | AR | AR | \$13.27 |
| 58 | 265-207 | CONNECTOR HOUSING 1-POLE | AR | AR | AR | \$10.04 |
| 59 | 960-260 | SHRINK TUBE COATED | | ARI | | \$106.02 |
| 60 | 960-300 | SHRINK TUBE COATED 48/16 | | ARk | | \$108.48 |
| 62 | 960-010 | SHRINKABLE HOSE IMPRINTED A | 1 | 1 | 1 | \$8.93 |
| 63 | 960-015 | SHRINKABLE HOSE IMPRINTED B | 1 | 1 | 1 | \$8.93 |
| 64 | 965-782 | MASS CABLE ASSEMBLY | 2 | 2 | 2 | \$71.20 |
| 64 | 965-784 | MASS CABLE ASSEMBLY | 2m | 2m | 2m | \$22.70 |
| 65 | 853-125 | CONNECTOR BRACKET | 1m | 1m | 1m | \$66.24 |
| 66 | 260-135 | DUMMY PLUG | 1m | 1m | 1m | \$1.84 |
| 67 | 881-280 | SOFT START SET | 1q | 1q | 1q | \$1,865.16 |
| 68 | 827-962 | WASHER 6.4 | 1 | 1 | 1 | \$0.31 |
| 68 | 945-831 | LOCK WASHER A6 | 1 | 1 | 1 | \$0.23 |
| 69 | 866-714 | TIE WRAP 142x3,2MM | 2r | 2r | 2r | \$0.35 |
| - | 964-081 | EASY START UNLOCK | 1 | 1 | | \$89.95 |

- Items not illustrated
- a In a roll, Ignition cable 620 mm;
- b In a roll, Protection hose 560 mm
- c In a roll, Protection hose 500 mm
- d In a roll, Protection hose 450 mm
- e Not necessary at intake manifold part no. 867688;
- f Marked with S/N;
Introduced as per S/N as follows: 04.0388 with altered insulation only for spare parts
- g for crankcase part no. 886354, part no. 886358 and older;
- h At crankcase part no. 888364 or newer crankcase;
- i Not suitable for intake manifold part no. 867688;
- j Necessary at version with ring mount;
- k In a roll
- l Use part no. 842742 and 953390 only together;
- m SI-912-013 / SI-914-016 current issue
See Maintenance Manual Heavy of the respective engine type, current issue.
- n In a roll, silicone hose 120 mm
- o SI-912-020 / SI-914-022 current issue
- p 1x lock washer A6 part no. 945751 is not needed after production-year 2010 on position between the bracket 2 part no. 851267 and the hex. nut M6.
- q Without magneto wheel consisting of 20, 21, 22, 23, 44, 46
- r Required for the following cylinders: 413235 / 413236 / 413245 / 413246 / 413185 / 413195. Danger of abrasion!
- s Short lines connected with 965-359 and 965-446. Length = 85 mm (instead of 70 mm).

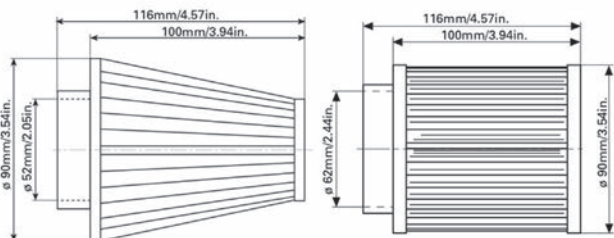
Chapter Includes Only
Not Certified Parts

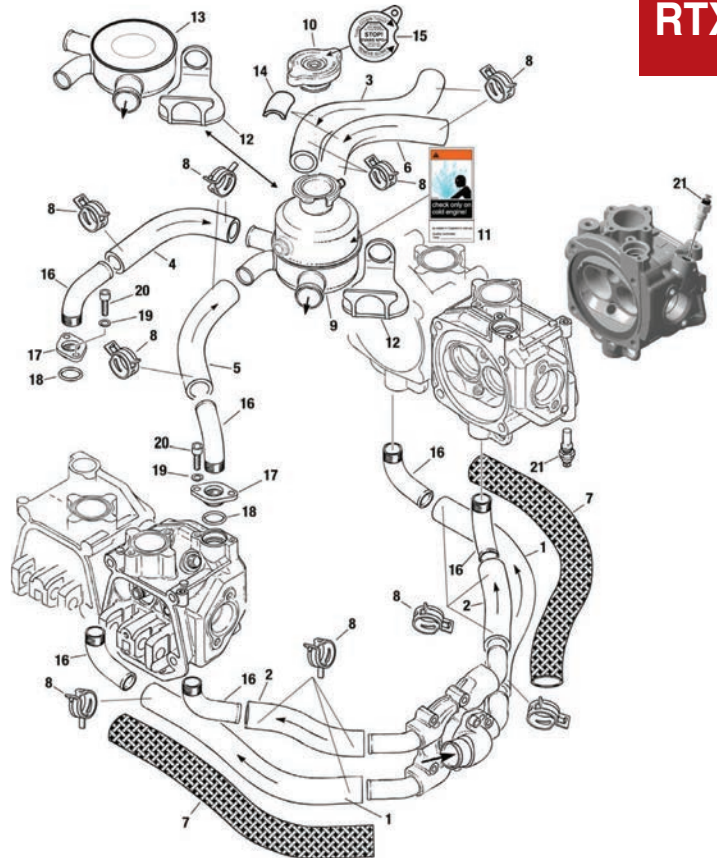
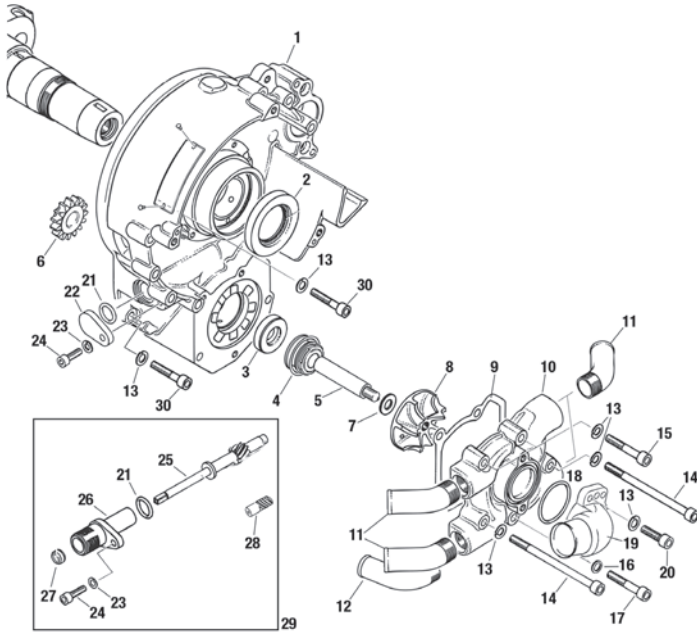


INSTRUMENTS, AIR FILTER

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|---------------------------------|-----------|---------|--------|----------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 956-525 | TEMPERATURE GAUGE 50 - 150 DEG. | (1a) | (1a) | (1a) | \$366.69 |
| 2 | 956-520 | PRESSURE GAUGE 0-146 PSI | (1b) | (1b) | (1b) | \$366.69 |
| 3 | 966-408 | REV COUNTER 0-7000 1/MIN | (1c) | (1c) | (1c) | \$276.57 |
| 4 | 825-750 | AIR FILTER | | | (1) | \$68.88 |
| 5 | 825-551 | AIR FILTER | (2) | (2) | | \$33.96 |
| 6 | 825-711 | AIR FILTER | (2d) | (2d) | | \$45.36 |

- Items not illustrated
- a For oil temperature and / or cylinder head temperature
- b For oil pressure; for old VDO sensor, not usable with part no. 456-180
- c For engine speed;
- d Following Service Instruction has to be noticed
SI-912-017 current issue





WATER PUMP WITH DRIVE

| Item No. | Part No | Description | Qty. Req. | | | Price |
|--------------|---------|---------------------------|-----------|---------|--------|------------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 612-047 | IGNITION HOUSING ASSEMBLY | 1d | 1d | 1d | \$1,718.44 |
| 1 | 612-046 | IGNITION HOUSING ASSEMBLY | 1g | 1g | 1g | \$1,717.93 |
| 2 | 850-965 | OIL SEAL 32x52x7 | 1 | 1 | 1 | \$108.12 |
| 3 | 850-977 | OIL SEAL A 12x30x7 FPM | 1 | 1 | 1 | \$35.71 |
| 4 | 850-946 | ROTARY SEAL | 1c | 1c | 1c | \$93.32 |
| 5 | 837-111 | PUMP SHAFT | 1 | 1 | 1 | \$86.58 |
| 6 | 834-135 | WATER PUMP GEAR 15 T | 1 | 1 | 1 | \$96.42 |
| 7 | 926-274 | WASHER 8.2/12.5/1.5 | 1ac | 1ac | 1ac | \$12.03 |
| 8 | 922-224 | IMPELLER | 1 | 1 | 1 | \$91.45 |
| 9 | 850-981 | GASKET | 1 | 1 | 1 | \$12.27 |
| 10 | 922-202 | WATER PUMP HOUSING | 1 | 1 | 1 | \$399.90 |
| 11 | 922-233 | BENT SOCKET 45 DEGREES | 3 | 3 | 3 | \$17.84 |
| 12 | 922-231 | BENT SOCKET 80 DEGREES | 1b | 1b | 1b | \$17.84 |
| 13 | 827-962 | WASHER 6.4 | 13 | 13 | 13 | \$0.31 |
| 13 | 945-751 | LOCK WASHER A6 | 13 | 13 | 13 | \$0.21 |
| 14 | 241-482 | ALLEN SCREW M6x90 | 2 | 2 | 2 | \$2.64 |
| 15 | 241-814 | ALLEN SCREW M6x35 | 2 | 2 | 2 | \$0.63 |
| 16 | 230-415 | GASKET RING A6x10 | 1 | 1 | 1 | \$1.40 |
| 17 | 241-813 | ALLEN SCREW M6x35 | 1a | 1a | 1a | \$1.45 |
| 18 | 230-020 | O-RING 32x2 | 1 | 1 | 1 | \$9.93 |
| 19 | 922-218 | WATER INLET ELBOW | 1 | 1 | 1 | \$350.57 |
| 20 | 241-935 | ALLEN SCREW M6x20 | 2 | 2 | 2 | \$0.63 |
| 21 | 230-880 | O-RING 13.3-2.4 | 1 | 1 | 1 | \$6.97 |
| 22 | 810-620 | COVER PLATE | 1 | 1 | 1 | \$8.71 |
| 23 | 945-830 | LOCK WASHER A5 | 1 | 1 | 1 | CALL |
| 24 | 840-514 | ALLEN SCREW M5x16 | 1 | 1 | 1 | \$0.53 |
| 25 | 837-150 | REV COUNTER SHAFT | 1 | 1 | 1 | \$178.70 |
| 26 | 912-191 | REV COUNTER HOUSING | 1h | 1h | 1h | \$166.08 |
| 27 | 930-500 | OIL SEAL 6x11x3/4.5 | 1 | 1 | 1 | \$19.10 |
| 28 | 834-182 | WORM GEAR 5 T. | 1f | 1f | 1f | CALL |
| 29+1-8,13,30 | 881-692 | MECH. REV COUNTER DRIVE | (1f) | (1f) | (1f) | \$1,353.91 |
| 30 | 840-888 | ALLEN SCREW M6x30 | 7 | 7 | 7 | \$0.63 |

- Items not illustrated

- a Stainless
- b Optional for engine suspension frame
- c The rotary seal has been introduced as from following S/N. Up to this S/N the rotary seal has to be exchanged together with part no. 926-274 / 922-224:
912 A: 4,410.366 / 912 F: 4,412.791 / 912 S: starting with serial production / 912 UL: 4,403.283 / 912 ULS: starting with serial production / 914 F: 4,420.157 / 914 UL: 4,417.783
- d For mech. rev counter drive without centering bore for pick up.
For engines without mech. rev. counter drive part no. 230-880, 945-830 and part no. 840-514 has to be mounted additional.
- e See therefore: SB-912-037 current issue / SB-914-023
- f See Maintenance Manual Heavy of the respective engine type, current issue
- g Without processing for mech. rev counter drive
- h Will be delivered in circle shape

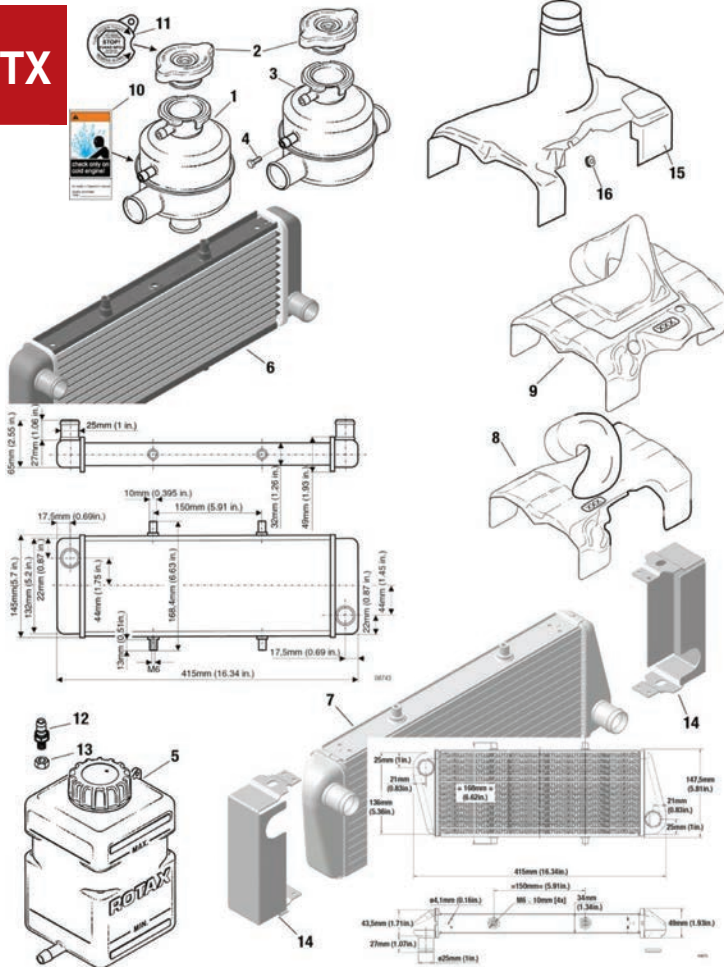
EXPANSION TANK WITH HOSES & CONNECTIONS

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|----------------------------------|-----------|---------|--------|----------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 922-362 | WATER TUBE 280 MM | 2a | 2a | 2a | \$61.02 |
| 2 | 922-360 | WATER TUBE 180 MM | 2b | 2b | 2b | \$41.40 |
| 3 | 922-361 | WATER TUBE 285 MM | 1c | 1c | 1c | \$61.02 |
| 4 | 922-363 | WATER TUBE 200 MM | 1f | 1f | 1f | \$41.40 |
| 5 | 922-364 | WATER TUBE 85 MM | 1g | 1g | 1g | \$12.93 |
| 6 | 922-192 | FORM HOSE 90 | 1e | 1e | 1e | \$52.93 |
| 7 | 860-650 | PROTECTION TUBE (HEAT | | | AR h | \$222.81 |
| 8 | 851-645 | SELF COMPENSATING | 16j | 16j | 16j | \$7.14 |
| 9-12 | 922-666 | EXPANSION TANK ASSEMBLY | 1j | 1j | 1j | \$351.21 |
| 10 | 922-072 | RADIATOR CAP WITH GASKET 1.2 BAR | 1j | 1j | 1j | \$82.46 |
| 11 | 897-506 | WARNING LABEL | 1 | 1 | 1 | \$5.69 |
| 12 | 860-826 | RUBBER PLATE | 1 | 1 | 1 | \$11.91 |
| 13 | 922-263 | WATER DISTRIBUTOR ASSEMBLY | (1i) | (1i) | (1i) | \$299.00 |
| 15 | 898-490 | WARNING LABEL EVANS | AR k | AR k | AR k | \$0.31 |
| 16 | 922-231 | BENT SOCKET 80° | 8 | 8 | 8 | \$17.84 |
| 16 | 922-233 | BENT SOCKET 45° | (8) | (8) | (8) | \$17.84 |
| 17 | 922-303 | FLANGE | 4 | 4 | 4 | \$56.43 |
| 18 | 950-180 | O-RING 19x2 | 4 | 4 | 4 | \$13.46 |
| 19 | 827-962 | WASHER 6.4 | 8 | 8 | 8 | \$0.31 |
| 19 | 945-831 | LOCK WASHER A6 | 8 | 8 | 8 | \$0.23 |
| 20 | 241-935 | ALLEN SCREW M6x20 | 8 | 8 | 8 | \$0.63 |
| 21 | 965-531 | TEMPERATURE SENSOR | 2j | 2j | 2j | \$147.75 |

- Items not illustrated

- a Supply to cylinder 1 and 2
- b Supply to cylinder 3 and 4
- c Discharge Cylinder 1
- d As scrub-protector for version 3
- e Discharge Cylinder 3
- f Discharge Cylinder 2
- g Discharge Cylinder 4
- h In a roll use
- i Expansion tank for radiator installation above engine;
- j See SI-912-020 + SI-914-022 current issue
- k See SB-914-043 current issue

RTX



COOLING AIR BAFFLE, OVERFLOW BOTTLE WITH CAP, RADIATOR

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|------------------------------|-----------|----------|
| 1-2 | 922-312 | EXPANSION TANK ASSEMBLY 90° | (1) | \$148.00 |
| 1-2 | 922-313 | EXPANSION TANK ASSEMBLY 90° | (1) | \$148.00 |
| 2-3 | 922-317 | EXPANSION TANK ASSEMBLY 180° | (1) | \$148.20 |
| 2-3 | 922-318 | EXPANSION TANK ASSEMBLY 180° | (1) | \$148.20 |
| 2 | 922-072 | RADIATOR CAP WITH GASKET | 1c | \$82.46 |
| 4 | 641-071 | HEX. SCREW ISO M6x6 | AR | \$1.43 |
| 5 | 922-327 | OVERFLOW BOTTLE WITH CAP | (1)d | \$53.40 |
| 6 | 995-698 | RADIATOR - STANDARD 12 FINS | (1) | \$487.00 |
| 7 | 997-084 | RADIATOR - ADVANCED 13 FINS | (1)f | \$487.00 |
| 8 | 975-795 | COOLING AIR BAFFLE | (1)a | \$614.86 |
| 8 | 975-799 | COOLING AIR BAFFLE | (1)j | CALL |
| 10 | 897-506 | WARNING LABEL | 1 | \$5.69 |
| 11 | 898-490 | WARNING LABEL EVANS COOLANT | (NB) | \$0.31 |
| 12 | 940-558 | HOSE NIPPLE M6 | 1d | \$26.39 |
| 13 | 242-213 | HEX. NUT M6 | 1d | \$1.58 |
| 14 | 881-530 | RADIATOR RETROFIT KIT | 1g | CALL |
| 15-16 | 975-792 | COOLING AIR BAFFLE | (1)h | CALL |
| 15-16 | 975-798 | COOLING AIR BAFFLE | (1)i | CALL |
| 16 | 975-799 | RUBBER GUMMET | (1) | CALL |

- Items not illustrated

a Short version; marked with S/N; tractor, white

b Edition Diamond

Marked with S/N;

c See Service Instruction SI-912-020 / SI-914-022 current issue

d See Service Bulletin SB-912-039 / SB-914-029 current issue

e See Service Bulletin SB-912-043 / SB-914-029 current issue

f Same outline dimensions and brackets as TNR. 995-698, but with improved cooling performance (18 % bigger cooling surface)

g Use together with part no. 997-083

For retrofitting instead of radiator part no. 997-082

h Cooling air baffle for pusher, color white

i Cooling air baffle for pusher, color black

j Cooling air baffle for tractor, color black

TURBOCHARGER CONTROL UNIT

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-------------------------|-----------|------------|
| 1 | 966-494 | WIRING HARNESS | 1d | \$573.14 |
| 2 | 966-741 | TURBOCHARGER CONTROL | 1a | \$2,620.66 |
| 3 | 295-410 | SERVO MOTOR | 1b | \$477.51 |
| 4 | 280-088 | ROPE SHEAVE | 1 | \$108.93 |
| 5 | 926-180 | WASHER A 5.2x14.8x1.5 | 1 | \$0.59 |
| 6 | 945-830 | LOCK WASHER A5 | 1 | \$0.21 |
| 7 | 441-341 | ALLEN SCREW M5x20 | 1 | \$0.48 |
| 8 | 847-882 | CABLE RETAINER | 1 | \$27.65 |
| 9 | 239-015 | COMPRESSION SPRING 16.9 | 1 | \$4.26 |
| 10 | 853-845 | CLAMP 5-7 MM | 1 | \$4.95 |
| 11 | 897-941 | CABLE BOWDEN ASSEMBLY | 1 | \$79.86 |
| 12 | 966-502 | AIRBOX PRESSURE SENSOR | 1c | \$245.96 |
| 13 | 274-051 | AMBIENT PRESSURE SENSOR | 1d | \$282.07 |
| 14 | 924-990 | HOLDING BRACKET FOR | 1dh | \$7.78 |
| 17 | 660-771 | RUBBER BUFFER 10x15xM4 | 4 | \$29.13 |
| 18 | 666-012 | CONNECTOR CABLE | 1g | \$113.70 |

- Items not illustrated

a Version 4.6; used from following engine S/N in serial production:

914 F: von / from S/N 4,420,200

914 UL: von / from S/N 4,417,849

Retrofit at older engines possible according SB/SI;

Marked with S/N;

b Marked with S/N;

c Airbox pressure sensor

d See Service Instruction SI-914-022 current issue

e Only for part no. 966741 (version 4.6)

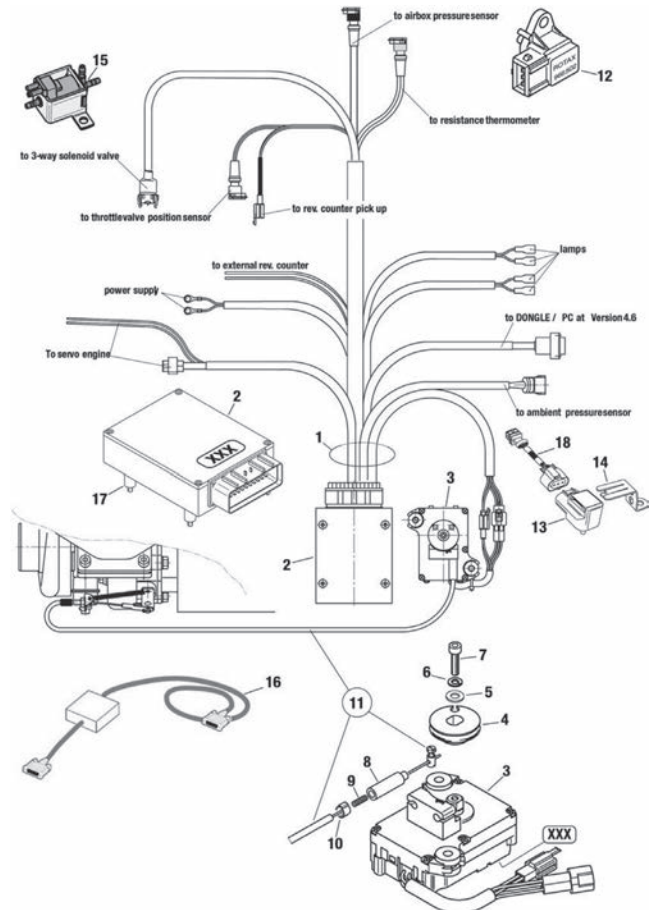
f For authorized distributors only

g Connector cable, wiring harness part no. 966-492 with sensor part no.

274-051

See Service Instruction SI-914-022

h Non certified part



912 | 914 ENGINE

EXHAUST SYSTEM

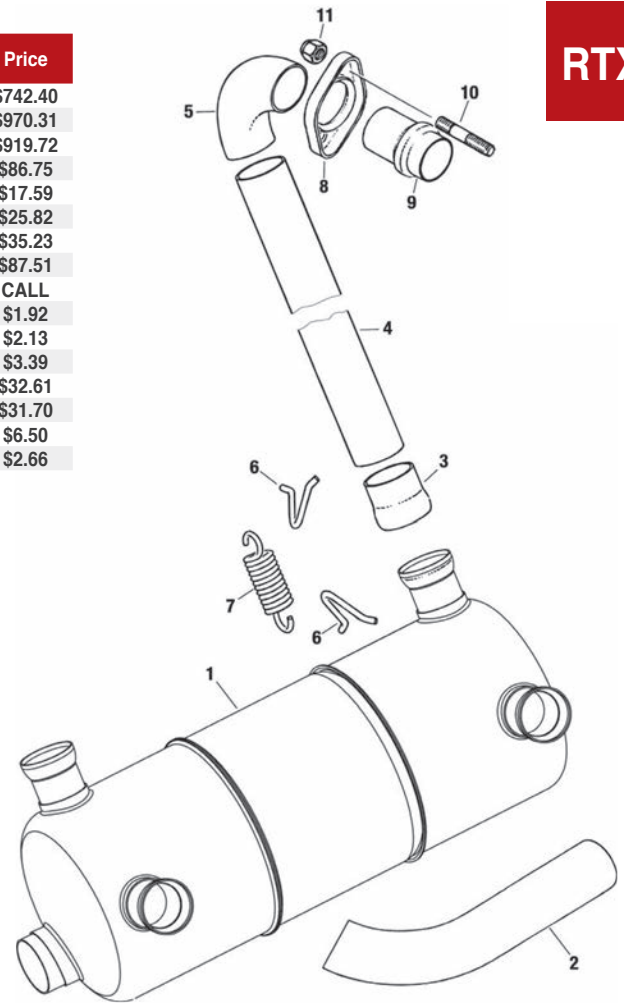
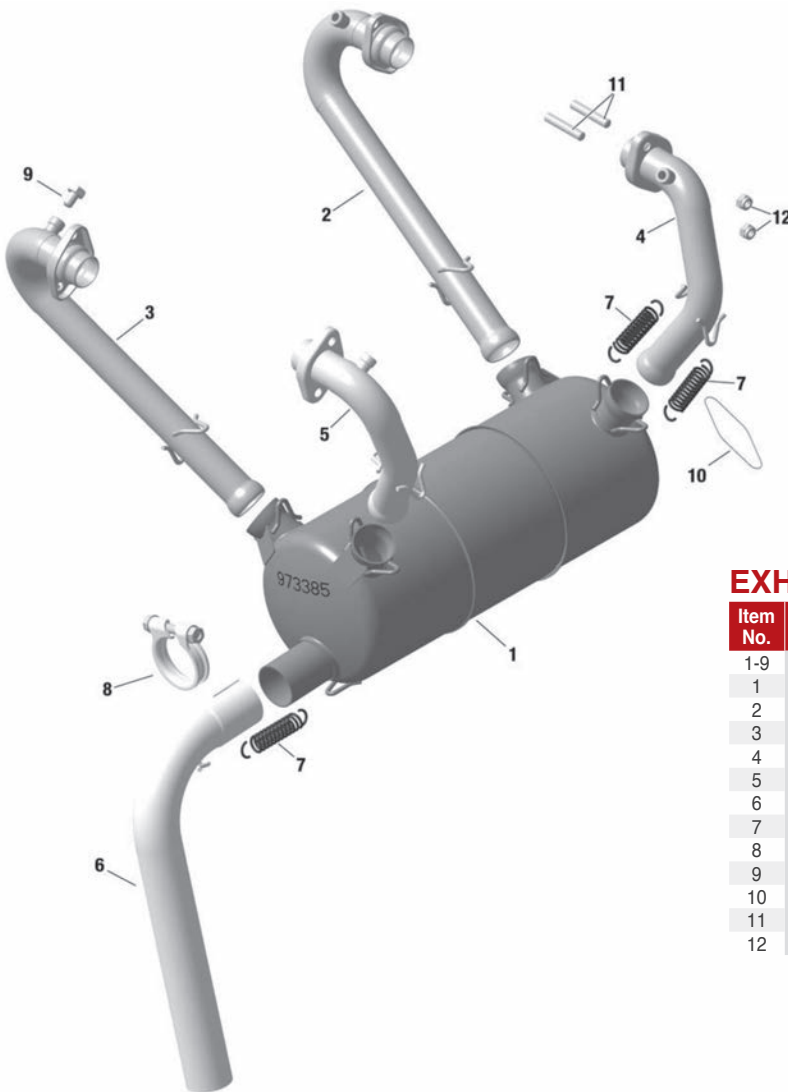
| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|--|-----------|---------|--------|----------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 1-7 | 978-489 EXHAUST ASSORTMENT STAINLESS STEEL | (1)c | | | \$742.40 |
| 1-7 | 973-676 | EXHAUST ASSORTMENT STAINLESS STEEL | (1) | (1) | | \$970.31 |
| 1 | 973-674 | MUFFLER ASSEMBLY STAINLESS | (1) | (1) | | \$919.72 |
| 2 | 978-605 | EXHAUST ELBOW, STAINLESS | (1) | (1) | | \$86.75 |
| 3 | 978-520 | BALL JOINT, MALE | (4) | | | \$17.59 |
| 3 | 978-521 | BALL JOINT, MALE STAINLESS | (4) | (4) | | \$25.82 |
| 4 | 978-997 | EXHAUST TUBE 800 MM STANDARD | (2) | (1) | | \$35.23 |
| 4 | 978-998 | EXHAUST TUBE 800 MM STAINLESS | (2) | (2) | | \$87.51 |
| 5 | 978-500 | EXHAUST ELBOW ASSEMBLY 1.5 MM STAINLESS | (2b) | (2b) | | CALL |
| 6 | 853-355 | HOOK | (16) | | | \$1.92 |
| 6 | 853-356 | HOOK STAINLESS | (16) | (16) | | \$2.13 |
| 7 | 938-795 | SPRING 66 MM | (8) | (8) | | \$3.39 |
| 8 | 978-246 | EXHAUST FLANGE | 4 | 4 | | \$32.61 |
| 9 | 978-252 | EXHAUST SOCKET | 4 | 4 | | \$31.70 |
| 10 | 940-368 | STUD M8x23/20 | 8 | 8 | 8 | \$6.50 |
| 11 | 842-950 | LOCK NUT M8-WS12 | 8 | 8 | 8 | \$2.66 |

- Items not illustrated

a certified part

b 360° annular ring (torus-shaped)

c For 80 HP engine only! Do not use on 100 HP engine with muffler ASSEMBLY part no. 978-063.



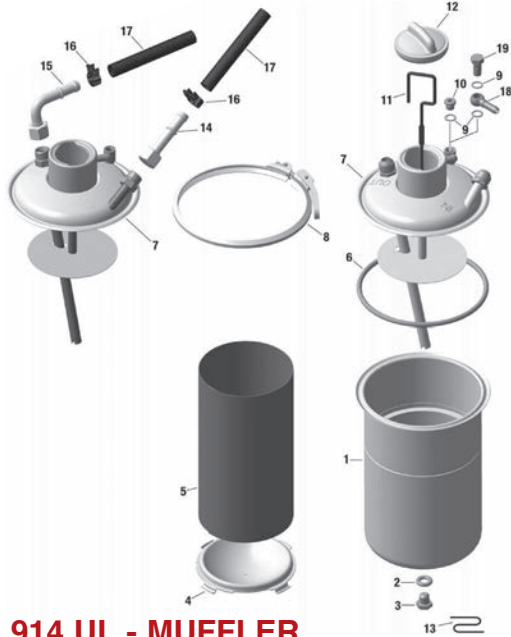
RTX

EXHAUST SYSTEM 912 SERIES

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|------------------------------------|-----------|------------|
| 1-9 | 973-387 | EXHAUST ASSORTMENT STAINLESS STEEL | 1 | \$1,450.00 |
| 1 | 973-385 | MUFFLER ASSEMBLY | 1 | CALL |
| 2 | 973-010 | EXHAUST PIPE ASSEMBLY CLY. | 1 | CALL |
| 3 | 973-020 | EXHAUST PIPE ASSEMBLY CLY. | 1 | CALL |
| 4 | 973-030 | EXHAUST PIPE ASSEMBLY CLY. | 1 | CALL |
| 5 | 973-040 | EXHAUST PIPE ASSEMBLY CLY. | 1 | CALL |
| 6 | 973-390 | EXHAUST BELOW, STAINLESS | 1 | \$249.95 |
| 7 | 938-795 | SPRING 66 MM | 9 | \$3.39 |
| 8 | 951-550 | EXHAUST PIPE CLAMP ASSEMBLY | 1 | CALL |
| 9 | 841-113 | HEX. SCREW M8X1X10 | 4 | \$18.52 |
| 10 | 297-555 | SAFETY WIRE 0.8 | AR | CALL |
| 11 | 940-366 | STUD M8x23/20 | 8 | \$6.50 |
| 12 | 842-950 | LOCK NUT M8-WS12 | 8 | \$2.66 |



RTX



OIL TANK

| Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|---------------------------------|-----------|---------|--------|----------|
| | | | 912 UL | 912 ULS | 914 UL | |
| 1-1 | 956-503 | OIL TANK ASSY. METRIC M18x1.5 | 1 | 1 | 1 | \$754.50 |
| 1-12 | 656-865 | OIL TANK ASSY. METRIC M18x1.5 | 1 | 1 | 1 | \$811.91 |
| 1-12 | 656-860 | OIL TANK ASSY. UNF 3/4-16 | 1 | 1 | 1 | \$827.13 |
| 2 | 250-010 | GASKET RING C 12x18 | 1 | 1 | 1 | \$1.71 |
| 3 | 241-408 | HEX. SCREW M12x12 | 1 | 1 | 1 | \$43.71 |
| 5 | 956-204 | BAFFLE INSERT | 1 | 1 | 1 | \$67.19 |
| 6 | 850-491 | O-RING 145x6 | 1 | 1 | 1 | \$31.55 |
| 8 | 951-817 | PROFILE CLAMP 163 | 1 | 1 | 1 | \$72.58 |
| 9 | 230-150 | SEALING RING A 10x14 | 1 | 1 | 2 | \$1.09 |
| 10 | 641-733 | PLUG SCREW M10x1 | 1 | 1 | | \$10.70 |
| 11 | 956-151 | OIL DIPSTICK | 1a | 1a | 1a | \$18.68 |
| 12 | 974-647 | OIL TANK COVER, WITHOUT VENTING | 1 | 1 | 1 | \$32.15 |
| 13 | 297-555 | SAFETY WIRE 0.8 | AR | AR | AR | CALL |
| 14 | 956-610 | HOSE NIPPLE WITH UNION NUT | 1c | 1c | 1c | \$20.91 |
| 15 | 956-580 | BENT SOCKET | 1c | 1c | 1c | \$20.92 |
| 16 | 853-726 | CLAMP MINI 16 W1 | 4 | 4 | 4 | \$4.95 |
| 17 | 956-390 | OIL TUBE OLSN 1 12x19 | ARb | ARb | ARb | \$85.86 |
| 18 | 956-314 | HOSE NIPPLE 4/6 | | | 1 | \$23.81 |
| 19 | 940-874 | BANJO BOLT M10x1x19 | | | 1 | \$13.99 |

- Items not illustrated

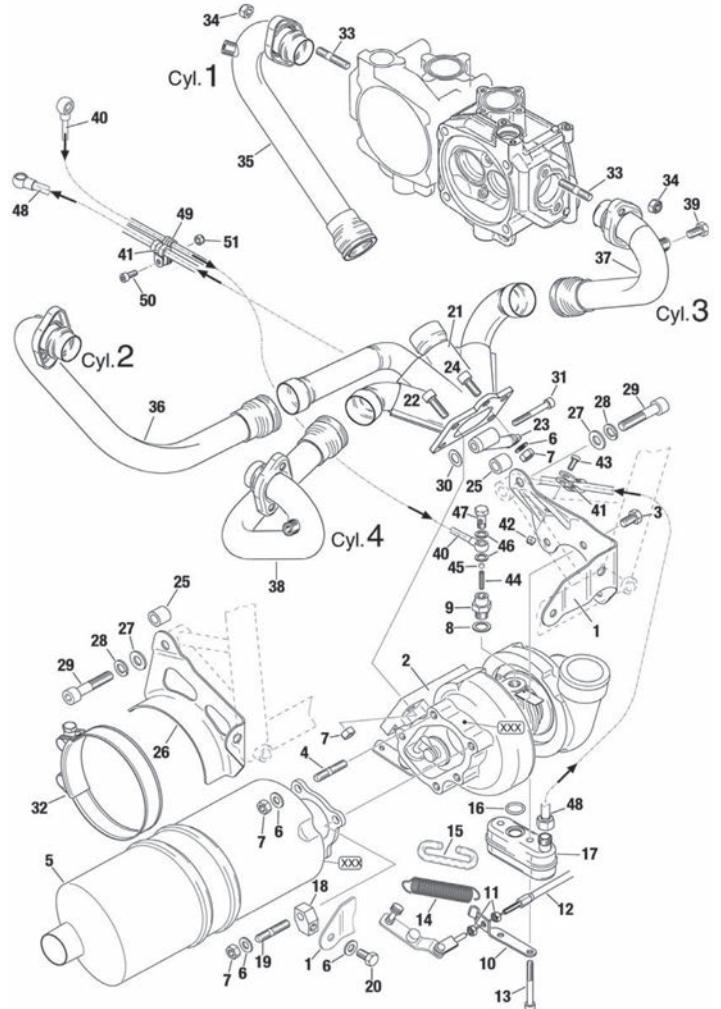
a See SB-912-040, SB-914-026 current issue

b In a roll

c with metric connection thread M18x1.5

ROTAX 914 UL - MUFFLER, TURBOCHARGER, OIL SUMP CONTAINER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-------------------------------------|-----------|------------|
| 1 | 851-294 | TURBO BRACKET | 1 | \$231.42 |
| 2-4 | 887-129 | TURBOCHARGER ASSEMBLY | 1agh | \$5,784.68 |
| 3 | 940-583 | HEX. SCREW M8x16 STAINLESS | 4b | \$3.19 |
| 4 | 940-173 | STUD M8x19.5/13 | 4b | \$7.05 |
| 5 | 979-407 | MUFFLER ASSEMBLY STAINLESS | 1af | \$1,726.62 |
| 6 | 250-313 | WASHER 8.4 STAINLESS | 7 | \$1.23 |
| 7 | 242-203 | HEX. NUT M8 STAINLESS | 10 | \$1.69 |
| 8 | 250-640 | GASKET A 12x18-CU | 1 | \$1.92 |
| 9 | 956-486 | VALVE HOUSING | 1 | \$77.06 |
| 10 | 851-392 | CABLE SUPPORT | 1 | \$102.25 |
| 11 | 242-211 | HEX. NUT M6 | 2 | \$0.41 |
| 13 | 640-600 | HEX. SCREW M6x55 | 2 | \$8.18 |
| 14 | 838-232 | TENSION SPRING STAINLESS | 1 | \$13.65 |
| 15 | 960-080 | SILICONE TUBE 5x8 | ARc | \$40.01 |
| 16 | 430-225 | O-RING 15.9-2.3 | 1 | \$8.71 |
| 17 | 956-495 | OIL SUMP ASSEMBLY | 1 | \$207.97 |
| 18 | 953-280 | SUPPORT PLATE | 1 | \$65.96 |
| 19 | 641-343 | STUD M8x30/13 | 1a | \$8.71 |
| 20 | 940-583 | HEX. SCREW M8x16 STAINLESS | 1 | \$3.19 |
| 21 | 979-416 | EXHAUST MANIFOLD ASSEMBLY STAINLESS | 1f | \$1,155.77 |
| 22 | 240-083 | ALLEN SCREW M8x25 STAINLESS | 4 | \$3.17 |
| 23 | 953-303 | MANIFOLD BRACKET ASSEMBLY STAINLESS | 1 | \$253.70 |
| 24 | 240-073 | ALLEN SCREW M8x20 STAINLESS | 1 | \$1.61 |
| 25 | 847-841 | SPACER 10.5/17/15 | 2 | \$9.61 |
| 26 | 851-303 | EXHAUST BRACKET | 1 | \$287.20 |
| 27 | 927-411 | WASHER 10.5 | 2 | \$0.63 |
| 28 | 945-833 | LOCK WASHER A10 | 2 | \$0.34 |
| 29 | 640-572 | ALLEN SCREW M10x50 | 2 | \$3.73 |
| 32 | 851-312 | CLAMP 120 | 1 | \$82.84 |
| 35 | 979-427 | EXHAUST PIPE ASSEMBLY CYLINDER | 1e | \$651.06 |
| 36 | 979-437 | EXHAUST BEND CYLINDER 2 STAINLESS | 1e | \$651.06 |
| 37 | 979-447 | EXHAUST BEND CYLINDER 3 STAINLESS | 1e | \$667.74 |
| 38 | 979-457 | EXHAUST BEND CYLINDER 4 STAINLESS | 1e | \$719.50 |
| 39 | 841-113 | HEX. SCREW M8x1x10 | 4 | \$18.52 |
| 40 | 956-476 | TURBO PRESSURE OIL LINE | 1 | \$194.33 |
| 41 | 851-111 | CABLE CLAMP 8/M5 | 2 | \$12.46 |
| 42 | 942-021 | LOCK NUT M5 | 1 | \$1.17 |
| 43 | 241-842 | ALLEN SCREW M5x12 | 1 | \$0.76 |
| 44 | 239-131 | COMPRESSION SPRING 22,0 | 1 | \$5.33 |
| 45 | 232-440 | BALL 5.556 MM | 1 | \$0.66 |
| 46 | 950-141 | GASKET RING A 8x13 | 2 | \$1.30 |
| 47 | 840-730 | BANJO BOLT M8x1x17 | 1d | \$53.95 |
| 48 | 956-470 | TURBO OIL SUCTION LINE | 1 | \$165.39 |
| 49 | 851-116 | CABLE CLAMP 5/M5 | 2 | \$13.27 |
| 50 | 241-842 | ALLEN SCREW M5x12 | 2 | \$0.76 |
| 51 | 942-021 | LOCK NUT M5 | 2 | \$1.17 |



- Items not illustrated

a Marked with S/N;

b Stainless

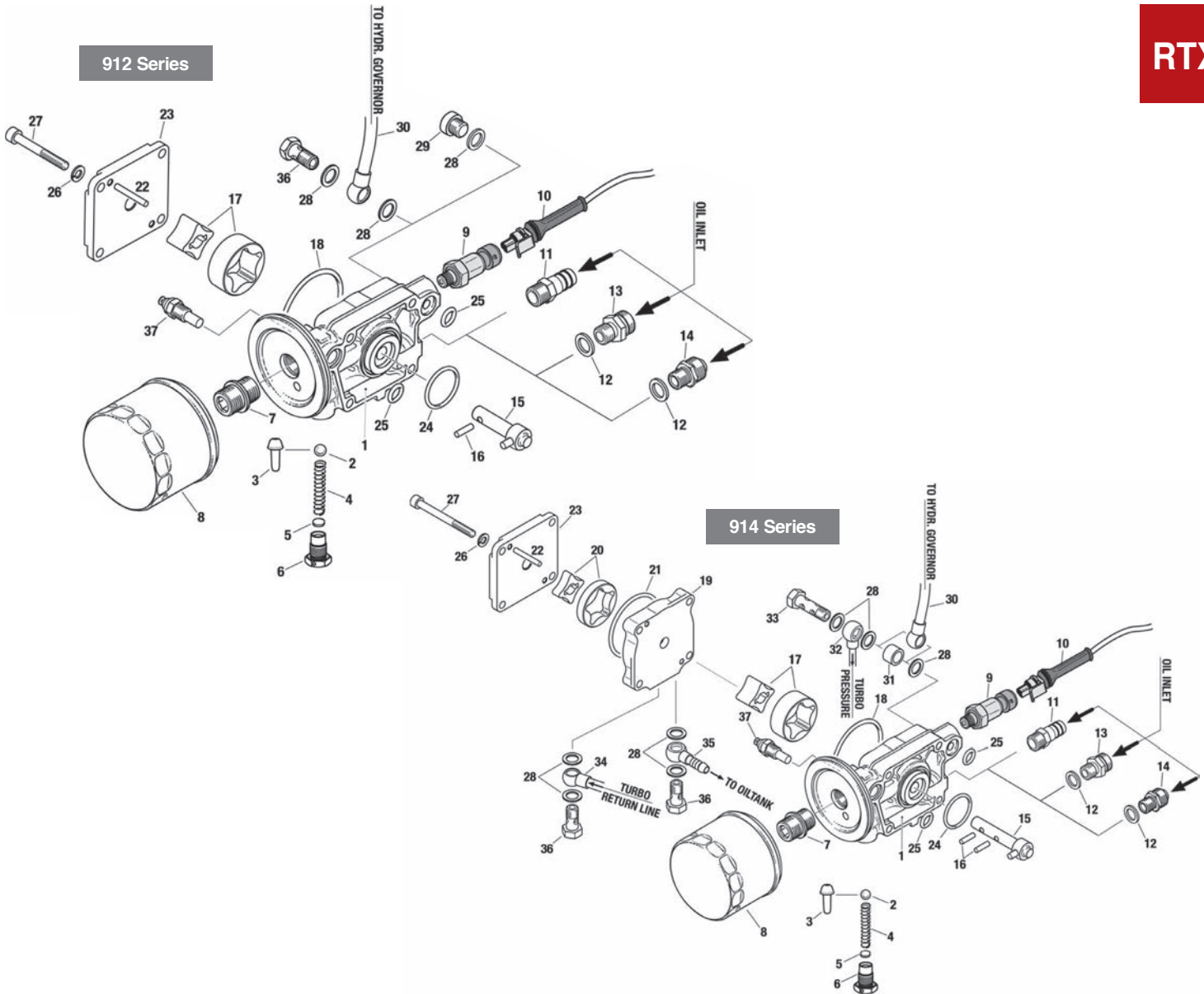
c In a roll, Tube 125 mm (4.92 in.)

d With imprinting "oil";

e See Service Instruction SI-914-022 current issue

f With additional internal bracket from engine S/N 914 F: 4,420,437

g With lubrication hole for waste gate shaft

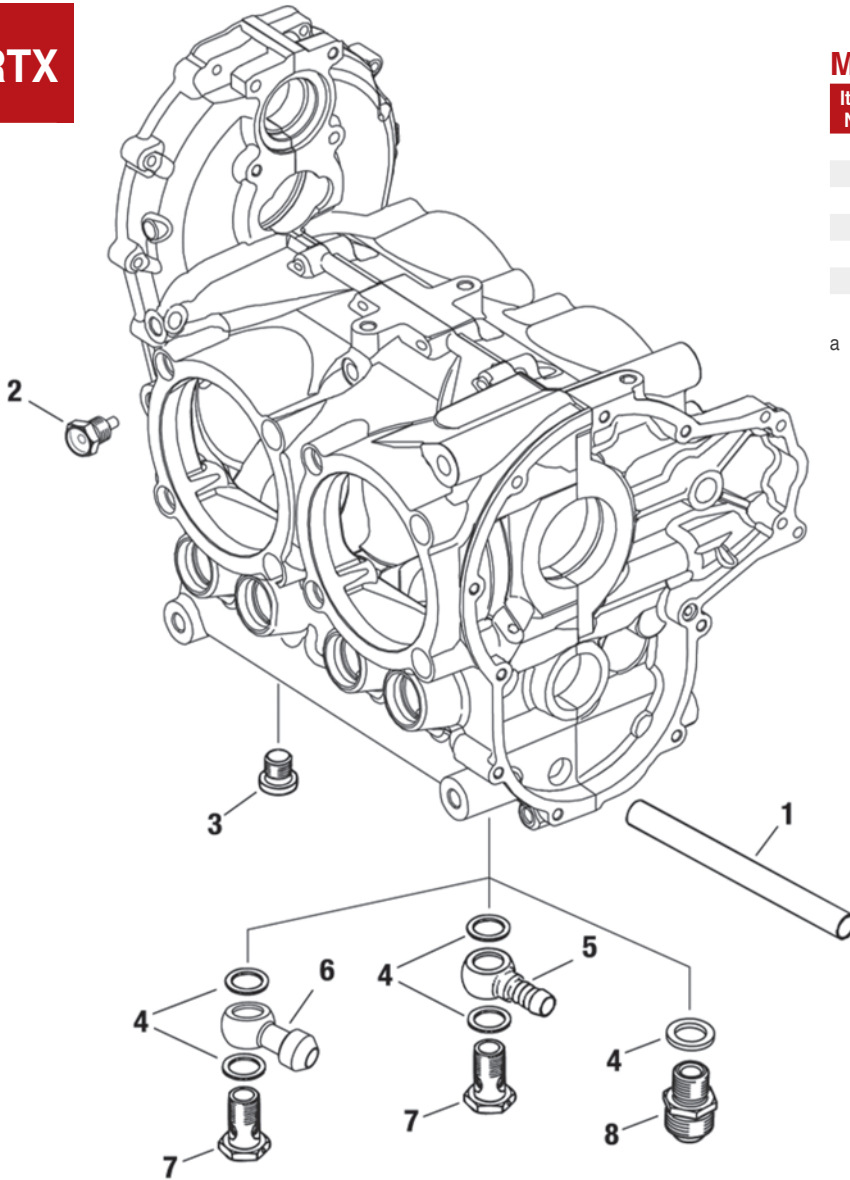


OIL PUMP ASSEMBLY, OIL FILTER, OIL TEMPERATURE SENSOR, OIL PRESSURE SENSOR

| Item No. | Part No | Description | Qty. Req. | | | Price | Item No. | Part No | Description | Qty. Req. | | | Price |
|----------|---------|-------------------------------------|-----------|---------|--------|----------|----------|---------|------------------------|-----------|---------|----------|-------|
| | | | 912 UL | 912 ULS | 914 UL | | | | | 912 UL | 912 ULS | 914 UL | |
| 1 | 911-815 | OIL PUMP HOUSING ASSEMBLY | 1 | 1 | 1 | \$691.02 | 21 | 430-175 | O-RING 46x3 | 1 | 1 | \$14.36 | |
| 2 | 432-680 | BALL 8.5 MM | 1 | 1 | 1 | \$1.29 | 22 | 232-431 | NEEDLE PIN B 4x29.8 G5 | 2 | 2 | \$3.10 | |
| 3 | 857-230 | VALVE PISTON | (1) | (1) | (1) | \$33.10 | 22 | 232-731 | NEEDLE PIN B 4x15.8 G3 | 2 | 2 | \$1.68 | |
| 4 | 838-122 | PRESSURE SPRING DM 7.1 D 0.9 | 1 | 1 | 1 | \$8.18 | 23 | 911-711 | OIL PUMP COVER | 1 | 1 | \$100.71 | |
| 5 | 227-055 | SHIM 8.2x1.5 | AR | AR | AR | \$0.66 | 24 | 950-410 | O-RING 30x2.5 | 1 | 1 | \$12.98 | |
| 6 | 841-983 | PLUG SCREW M12x1 | 1b | 1b | 1b | \$32.99 | 25 | 250-460 | O-RING 11x2.7 | 2 | 2 | \$5.93 | |
| 7 | 924-424 | OIL FILTER NIPPLE | 1a | 1a | 1a | \$51.79 | 26 | 945-831 | LOCK WASHER A6 | 4 | 4 | \$0.23 | |
| 8 | 825-016 | OIL FILTER | 1 | 1 | 1 | \$19.95 | 26 | 827-962 | WASHER 6.4 | 4 | 4 | \$0.31 | |
| 9 | 956-413 | OIL PRESSURE SENSOR | 1 | 1 | 1 | \$330.76 | 27 | 241-263 | ALLEN SCREW M6x65 | 4 | 4 | \$1.60 | |
| 9 | 456-180 | OIL PRESSURE SENSOR ASSEMBLY | 1c | 1c | 1c | \$249.84 | 27 | 241-761 | ALLEN SCREW M6x50 | 4 | 4 | \$0.85 | |
| 10 | 864-250 | OIL PRESSURE SENSOR WIRE | 1c | 1c | 1c | \$109.92 | 28 | 230-150 | GASKET RING 10x14 | 2 | 2 | \$1.09 | |
| 11 | 840-461 | 13.2/9.5-M14x1.5 | 1 | 1 | 1 | \$18.98 | 29 | 641-733 | PLUG SCREW M10x1 | 1 | 1 | \$10.70 | |
| 12 | 230-387 | GASKET RING 14.2/18/2 | 1 | 1 | 1 | \$1.51 | 31 | 847-228 | SPACER 10.5/15/10 | 1 | 1 | \$13.07 | |
| 13 | 956-577 | ADAPTOR M18x1.5/M14x1.5 | (1) | (1) | (1) | \$54.70 | 33 | 940-873 | BANJO BOLT M10x1x30 | 1 | 1 | \$16.26 | |
| 14 | 956-641 | UNF/M14x1.5 | 1 | 1 | 1 | \$68.93 | 35 | 956-314 | HOSE NIPPLE 4/6 | 1 | 1 | \$23.81 | |
| 15 | 837-127 | OIL PUMP SHAFT ASSEMBLY | | | 1 | \$141.65 | 36 | 940-874 | BANJO BOLT M10x1x19 | 1 | 1 | \$13.99 | |
| 15 | 837-129 | OIL PUMP SHAFT ASSEMBLY | 1 | 1 | | \$114.22 | 37 | 965-531 | TEMPERATURE SENSOR | 1 | 1 | \$147.75 | |
| 16 | 232-730 | NEEDLE PIN 4x15.8 G3 | 1 | 1 | 2 | \$1.85 | | | | | | | |
| 17 | 956-278 | SUCTION INNER AND OUTER ROTOR ASSY. | 1 | 1 | 1 | \$109.76 | | | | | | | |
| 18 | 430-405 | O-RING 57x3 | 1 | 1 | 1 | \$14.65 | | | | | | | |
| 19 | 810-592 | OIL PUMP HOUSING | | | 1 | \$329.71 | | | | | | | |
| 20 | 256-346 | PRESSURE INNER AND OUTER ROTOR | | | 1 | \$115.90 | | | | | | | |

- Items not illustrated / AR: as required / NLA: not available
a thread 3/4-16 UNF for oil filter 3 mm extended.
b with optimized spring routing
c see SI 912-020/914-022
d for oil pressure sensor part no. 456-180

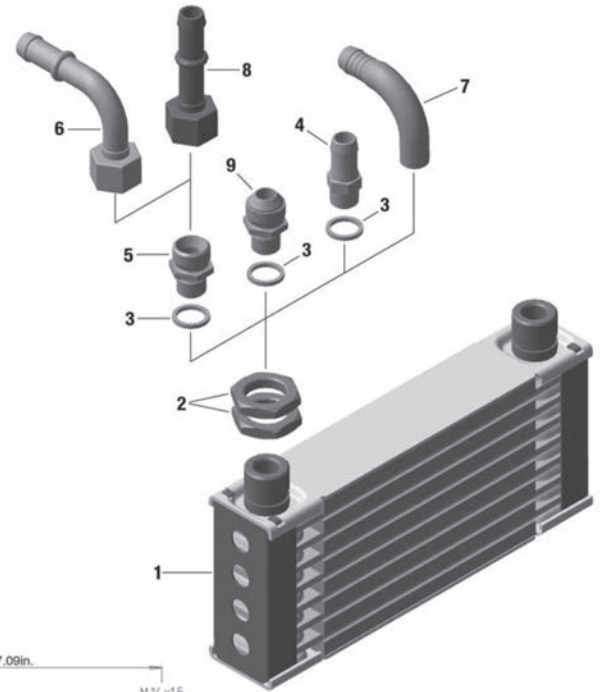
RTX



MAGNETIC DRAIN PLUG, PLUG SCREW

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------|-----------|----------|
| 2 | 241-785 | MAGNETIC DRAIN PLUG | 1 | \$58.73 |
| 3 | 240-234 | PLUG SCREW M16x1.,5x28 | 1 | \$10.79 |
| 4 | 430-622 | GASKET RING A 16x22 | 2 | \$2.50 |
| 5 | 956-315 | HOSE NIPPLE 10 | 1 | \$37.10 |
| 6 | 956-050 | HOSE NIPPLE 16 | 1a | \$101.67 |
| 7 | 940-879 | BANJO BOLT M16x1.5x28 | 1 | \$23.94 |
| 8 | 956-651 | ADAPTER 3/4-16 UNF/M16x1.5 | 1 | \$90.35 |

a Following Service Instruction has to be noticed:
SI-912-003 current issue
SI-914-005

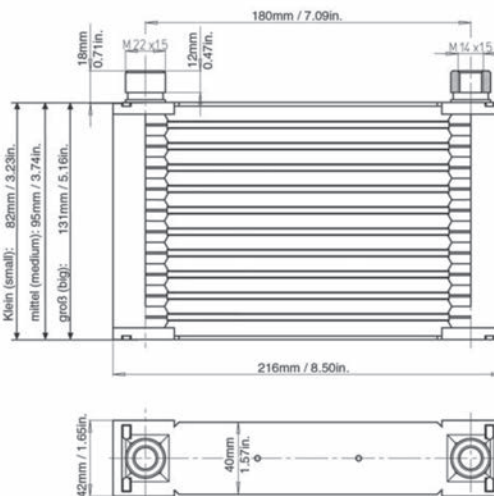


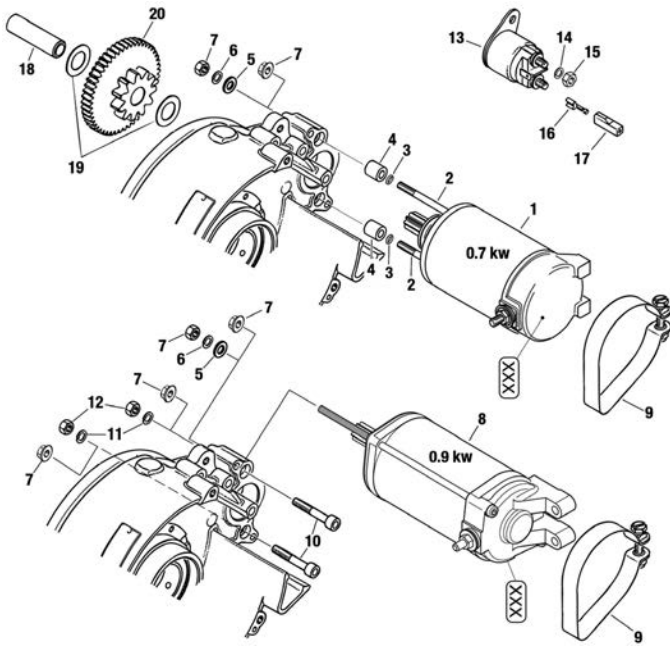
OIL RADIATOR

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------|-----------|----------|
| 1-4 | 886-032 | OIL RADIATOR SET | (1)ad | \$302.09 |
| 1-4 | 886-033 | OIL RADIATOR SET | (1)bd | \$264.01 |
| 1,2,3,9 | 886-036 | OIL RADIATOR SET UNF | (1)ec | \$299.00 |
| 2 | 242-873 | HEX NUT M22x1.5 | (4) | \$14.69 |
| 3 | 230-387 | GASKET RING 14.2/18/2 | (2) | \$1.51 |
| 4 | 840-461 | NIPPLE 13.2/9.5-M14x1.5 | (2) | \$18.98 |
| 5 | 956-577 | ADAPTER M18x1.5/M14x1.5 | (2) | \$54.70 |
| 6 | 956-580 | BENT SOCKET ASSEMBLY | AR | \$30.80 |
| 7 | 924-585 | ANGULAR TUBE M14x1.5 | AR | \$74.50 |
| 8 | 956-610 | HOSE NIPPLE WITH UNION NUT | AR | \$20.91 |
| 9 | 956-643 | ADAPTER 3/4-16 UNF/M14x1.5 | (2) | \$68.93 |
| 3,5,8 | 956-615 | SCREW CONNECTION SET | (1) | \$115.70 |
| 3,5,6 | 956-585 | SCREW CONNECTION SET | (1) | \$101.43 |
| 2,3,9 | 956-645 | SCREW CONNECTION SET | (1) | \$115.70 |

- Items not illustrated

- a Cooling area 125 cm² / 19.38 sq in
- b Cooling area 142 cm² / 22 sq in
- c Cooling area 234 cm² / 36.27 sq in
- d Metric connections
- e UNF connections





ELECTRIC STARTER, STARTER RELAY

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------|-----------|----------|
| 1 1-7 | 685-974 | ELECTRIC STARTER SET | 1c | \$752.30 |
| 2 | 840-636 | STUD M5x150/16 | 2 | \$17.42 |
| 3 | 950-420 | O-RING 5x1.5-N | 2 | \$6.65 |
| 4 | 847-248 | SPACER 5.4/10/12 | 2 | \$5.59 |
| 5 | 927-571 | WASHER 5.3 | 2d | \$0.21 |
| 6 | 945-830 | LOCK WASHER A5 | 2d | \$0.21 |
| 7 | 242-071 | HEX. NUT M5 | 2d | \$0.41 |
| 7 | 942-311 | COLLAR NUT M5 | 2d | \$20.67 |
| 4-6,8-12 | 889-751 | ELECTRIC STARTER SET | 1a | \$675.63 |
| 9 | 851-020 | CLAMP 76 | 1b | \$27.58 |
| 10 | 941-791 | ALLEN SCREW M5x45 | 2 | \$1.08 |
| 11 | 945-830 | LOCK WASHER A5 | 2d | \$0.21 |
| 12 | 842-030 | ROTOR SUPPORT ASSEMBLY | 2d | \$2.05 |
| 13-15 | 992-818 | STARTER RELAY ASSEMBLY | 1 | \$199.75 |
| 14 | 945-831 | LOCK WASHER A6 | 2 | \$0.21 |
| 15 | 242-211 | HEX. NUT M6 | 2 | \$0.41 |
| 16 | 960-719 | CONNECTOR SHEATH | 1 | \$0.66 |
| 17 | 864-011 | FASTON CONNECTOR 6.3x0.8 | 1 | \$1.23 |
| 18 | 837-102 | IDLE GEAR SHAFT | 1 | \$27.60 |
| 19 | 827-261 | THRUST WASHER 12.5/21.5/1 | 2 | \$31.17 |
| 20 | 834-156 | IDLE GEAR 50/11 T | 1 | \$190.43 |

- Items not illustrated

a See therefore: SB-912-037 current issue / SB-914-023

b will be delivered in circle shape

c standard starter 0.7 kW

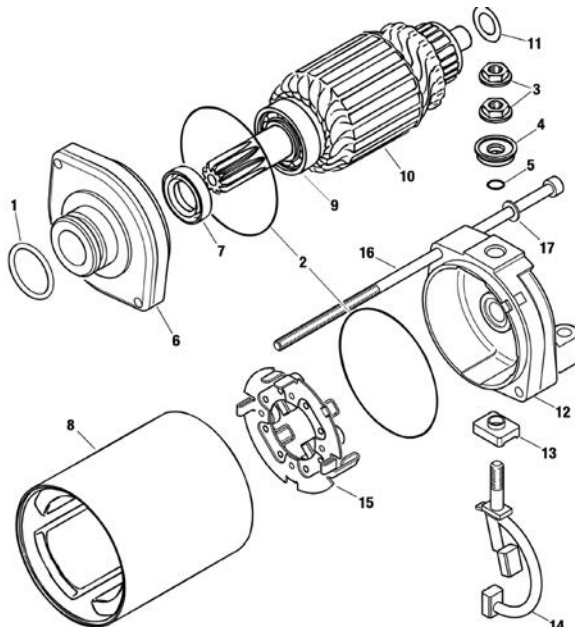
d Washer, lock washer and hex. nut replaced by hex. collar nut.

ELECTRIC STARTER, STARTER RELAY - STANDARD VERSION

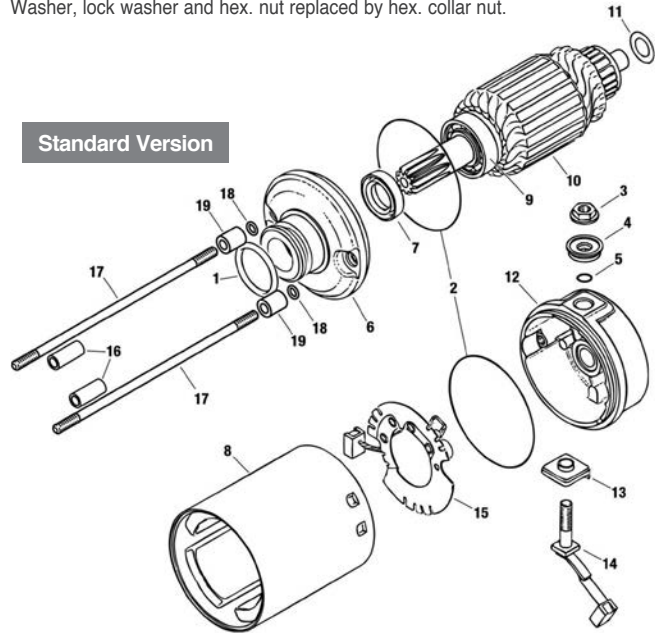
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-------------------------------|-----------|---------|
| 1 | 250-140 | O-RING 24.4x3.1 | 1 | \$7.14 |
| 2 | 850-500 | O-RING 62x1.5 | 2 | \$11.38 |
| 3 | 242-780 | COMBINED NUT M6 | 1 | \$4.06 |
| 4 | 260-800 | CONNECTOR SHEATH | 1 | \$8.30 |
| 5 | 230-530 | O-RING 6x1.7 | 1 | \$2.97 |
| 7 | 250-130 | OIL SEAL 15x24x5 | 1 | \$22.90 |
| 9 | 232-260 | BALL BEARING 6002 Z / 15-32-9 | 1 | \$28.05 |
| 11 | 827-600 | SHIM | AR | \$4.95 |
| 13 | 260-810 | CONNECTOR SHEATH | 1 | \$9.66 |
| 14 | 264-180 | CARBON BRUSH ASSEMBLY | 1 | \$48.39 |
| 15 | 866-890 | BRUSH HOLDER WITH SPRINGS | 1 | \$70.47 |
| 16 | 974-524 | DISTANCE HOSE 45 MM | 1a | CALL |

- Items not illustrated

a Only for transport



Standard Version



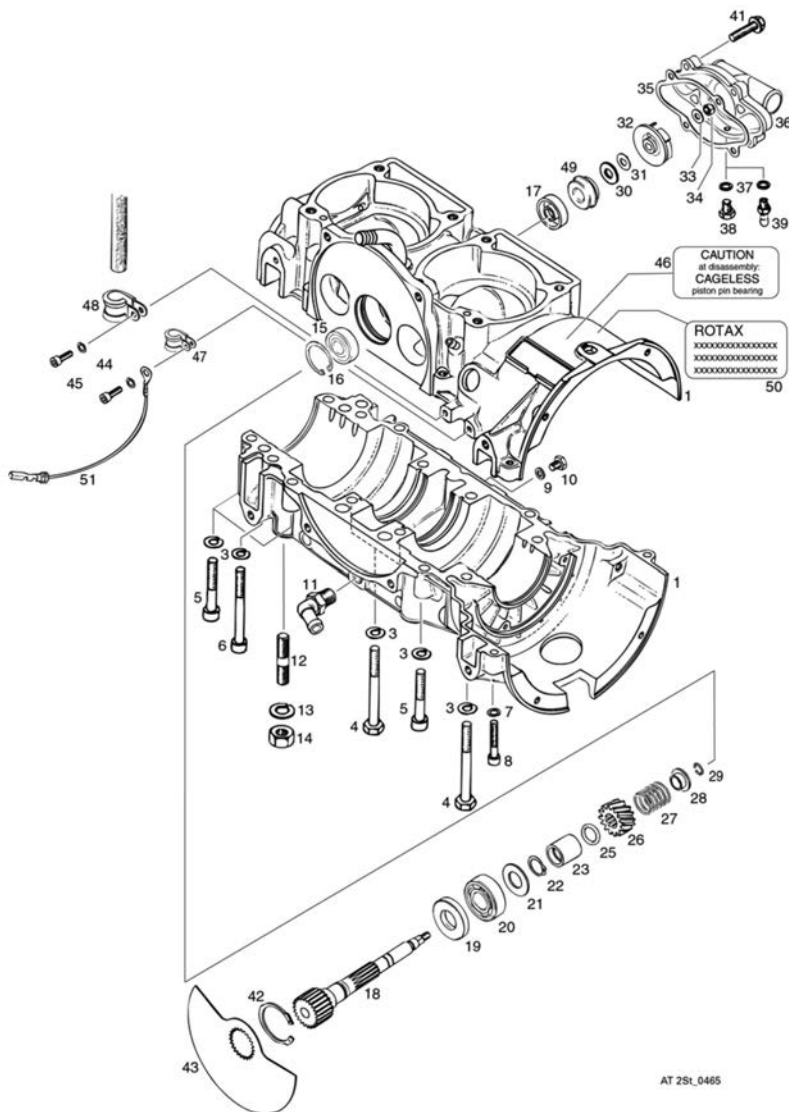
E-STARTER SINGLE PARTS

| Item No. | Part No | Description | Qty. Req. | Price |
|-----------|---------|-------------------------------|-----------|----------|
| 1 | 250-140 | O-RING 24.4X3.1-N NBR70 | 1 | \$7.14 |
| 2 | 850-500 | O-RING 62-1.5 | 2 | \$11.38 |
| 3 | 242-780 | COMBINED NUT M6 | 2 | \$4.06 |
| 4 | 260-800 | CONNECTOR SHEATH | 1 | \$8.30 |
| 5 | 230-530 | O-RING 6X1.7 | 1 | \$2.97 |
| 7 | 250-130 | OIL SEAL 15X24X5 NBR | 1 | \$22.90 |
| 9 | 232-260 | BALL BEARING 6002 Z / 15-32-9 | 1 | \$28.05 |
| 11 | 827-600 | SHIM | AR | \$4.95 |
| 12-15,1-5 | 294-354 | ELECTRIC STARTER REPAIR KIT | 1 | \$307.91 |
| 16 | 440-586 | ALLEN SCREW M5X180 | 2 | \$29.37 |
| 17 | 927-571 | WASHER 5.3 | 2 | \$0.21 |

- Items not illustrated

a Not available as single spare part. Use electric starter kit part no. 294354.

CRANKCASE, ROTARY VALVE DRIVE, WATER PUMP



| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|--------------------------------------|-----------|---------|------------|
| | | | mod. 99 | mod. 17 | |
| 1-12 | 888-471 | CRANKCASE-ASSEMBLY | 1 | 1 | \$1,435.29 |
| 1-29,42 | 888-476 | CRANKCASE-ASSY. W/ROTARY VALVE DRIVE | 1c | 1c | \$1,596.91 |
| 3 | 945-752 | LOCK WASHER A8 | 14 | 14 | \$0.21 |
| 3 | 945-832 | LOCK WASHER A8 | 14 | 14 | \$0.23 |
| 4 | 841-302 | HEX. SCREW M8x65 | 6 | 6 | \$1.97 |
| 5 | 841-562 | ALLEN SCREW M8x45 | 6 | 6 | \$4.43 |
| 6 | 841-832 | ALLEN SCREW M8x75 | 2 | 2 | \$3.32 |
| 7 | 945-751 | LOCK WASHER A6 | 2 | 2 | \$0.21 |
| 8 | 241-811 | ALLEN SCREW M6x35 | 2 | 2 | \$0.57 |
| 9 | 230-415 | GASKET RING A6x10 | 1 | 1 | \$1.40 |
| 10 | 240-772 | HEX. SCREW M6x10 | 1 | 1 | \$0.63 |
| 11 | 922-242 | ANGULAR TUBE 1/4-18NPT | 1 | 1 | \$18.14 |
| 12 | 940-190 | STUD M10x29/20 | 4 | 4 | \$4.78 |
| 13 | 945-833 | LOCK WASHER A10 | 4 | 4 | \$0.34 |
| 14 | 242-092 | HEX. NUT M10 | 4 | 4 | \$1.38 |
| 15 | 932-797 | BALL BEARING 6201-Z, 12-32-10 | 1 | 1 | \$26.49 |
| 16 | 245-420 | RETAINING RING | 1 | 1 | \$2.07 |
| 17 | 850-711 | OIL SEAL 10x30x8 | 1 | 1 | \$23.31 |
| 18 | 837-250 | ROTARY VALVE SHAFT | 1a | 1a | \$202.77 |
| 19 | 930-580 | OIL SEAL 20x40x7 | 1 | 1 | \$24.71 |
| 20 | 932-032 | BALL BEARING 6203 TVH C3, 17-40-12 | 1 | 1 | \$32.93 |
| 21 | 227-439 | SHIM 17.2/32.5/1.5 | 1 | 1 | \$4.42 |
| 22 | 845-450 | RETAINING RING 17x1 | 1 | 1 | \$1.23 |
| 23 | 847-282 | SPACER | 1 | 1 | \$14.78 |
| 24 | 927-440 | SHIM 15.1/22.5/0.5 | x | x | \$1.92 |
| 25 | 831-500 | O-RING 14-3 | 1 | 1 | \$4.85 |
| 26 | 935-736 | ROTARY VALVE GEAR 14 T. | 1 | 1 | \$101.54 |
| 27 | 938-810 | COMPRESSION SPRING 25.1 MM (0.99 IN) | 1 | 1 | \$9.27 |
| 28 | 827-430 | SPRING HOLDING CUP | 1 | 1 | \$11.91 |
| 29 | 845-160 | CIRCLIP 12 | 1b | 1b | \$1.71 |
| 30 | 227-945 | THRUST WASHER 8.1/15/0.5 | 1 | 1 | \$1.92 |
| 31 | 227-155 | FRICITION WASHER | 1 | 1 | \$9.83 |
| 32 | 922-036 | IMPELLER | 1 | 1 | \$23.29 |
| 33 | 244-211 | WASHER 6.4 | 1 | 1 | \$0.21 |
| 34 | 842-042 | LOCK NUT M6 | 1 | 1 | \$2.66 |
| 35 | 831-616 | GASKET | 1 | 1 | \$9.13 |
| 36 | 922-503 | WATER PUMP HOUSING | 1 | 1 | \$253.77 |
| 37 | 230-415 | GASKET RING 6.2/8.9/1 | 1 | 1 | \$1.40 |
| 38 | 841-580 | HEX. SCREW M6x8 | 1 | 1 | \$0.57 |
| 39 | 940-551 | HOSE NIPPLE M6 | 1 | 1 | \$17.20 |
| 40 | 244-211 | WASHER 6.4 | x | x | \$0.21 |
| 42 | 945-880 | RETAINING RING 40x1.75 | 1 | 1 | \$3.19 |
| 43 | 924-504 | ROTARY VALVE 132 DEGR. | 1 | 1 | \$67.19 |
| 44 | 945-750 | LOCK WASHER A5 | 2 | 2 | \$0.14 |
| 45 | 840-514 | ALLEN SCREW M5x16 | 2 | 2 | \$0.53 |
| 46 | 897-280 | CAGELESS-LABEL | 1 | 1 | \$1.76 |
| 47 | 851-111 | CABLE CLAMP 8/M5 | 1 | 1 | \$12.46 |
| 48 | 851-113 | CLAMP 18/M5 | 1 | 1 | \$11.71 |
| 49 | 650-370 | ROTARY SEAL | 1 | 1 | \$45.42 |
| 50 | 897-501 | RED WARNING LABEL | 1 | 1 | \$6.61 |

- Items not illustrated

- a Rotary valve for configuration with rotary seal
- b The circlip must be positioned at the inner groove only
- c Crankcase including rotary valve drive, configuration with rotary seal

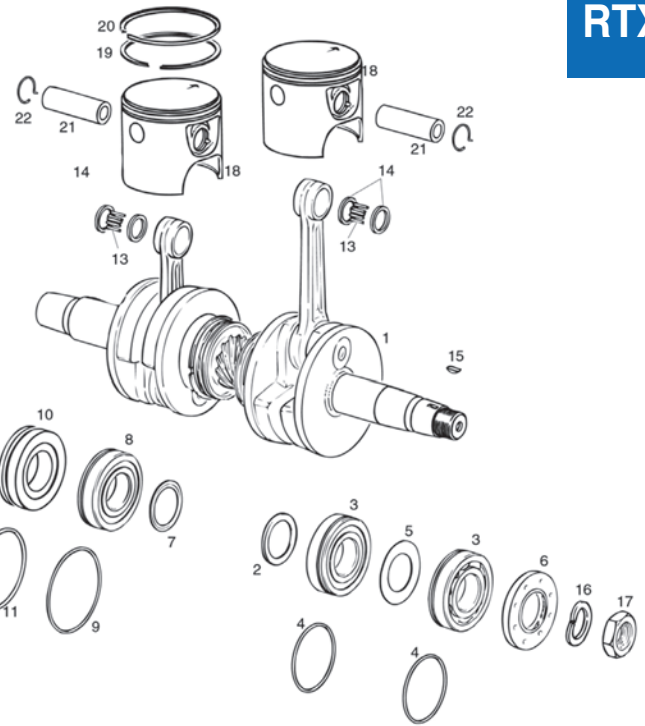
582 UL ENGINE - MOD 99/17

CRANKCASE, MAIN BEARINGS, PISTONS

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|------------|
| 1-15 | 887-051 | CRANKSHAFT ASSEMBLY | 1 | \$1,519.44 |
| 2 | 827-441 | SPACER RING 30,5/42/2 | 1 | \$10.67 |
| 3 | 832-208 | B. BEARING 6206 N TVH, 30-62-16 | 2 | \$99.85 |
| 4 | 830-355 | O-RING 49,2-1,8 | 2 | \$5.52 |
| 5 | 827-715 | STOP SHIM 30,4/51/1 | 1 | \$3.32 |
| 6 | 830-748 | OIL SEAL 30X62X7/7,5 | 1 | \$36.64 |
| 7 | 827-760 | DISTANCE RING 35,5/47/2 | 1 | \$7.05 |
| 8 | 631-741 | B. BEARING 6207N TNH C3 35-72-17 | 2 | \$83.32 |
| 9 | 250-165 | O-RING 64-2 | 2 | \$5.33 |
| 10 | 830-293 | LABYRINTH SLEEVE | 1 | \$94.52 |
| 11 | 830-370 | O-RING 63-2.5 | 1 | \$6.97 |
| 12 | 831-950 | OIL SEAL 35X72X7/8.5 | 1 | \$39.33 |
| 13-14 | 832-320 | CAGEL. NEEDLE BEARING 18X22X23 | 2 | \$56.97 |
| 14 | 827-465 | THRUST WASHER 18/21.7/2.5 | 4 | \$23.17 |
| 15 | 246-055 | WOODRUFF KEY 3X3.7 DIN 6888 | 1 | \$3.73 |
| 16 | 945-759 | LOCK WASHER 22 | 1 | \$1.76 |
| 17 | 842-239 | HEX. NUT M22X1.5 | 1 | \$12.83 |
| 18-20 | 888-590 | PISTON ASSEMBLY 75.94/75.95 MM | 2ab | \$216.95 |
| 18-20 | 888-591 | PISTON ASSEMBLY 76.19/76.20 MM | 2ac | \$233.95 |
| 18-20 | 888-592 | PISTON ASSEMBLY 76.44/76.45 MM | 2ad | \$237.63 |
| 19 | 215-200 | RECTANGULAR RING 76.00 MM | 2e | \$59.57 |
| 19 | 215-201 | RECTANGULAR RING 76.25 MM | 2f | \$66.74 |
| 19 | 215-202 | RECTANGULAR RING 76.5 MM | 2g | \$66.74 |
| 20 | 915-820 | SEMI-TRAPEZ RING 76.0 MM | 2e | \$92.67 |
| 20 | 915-821 | SEMI-TRAPEZ RING 76.25 MM | 2f | \$94.69 |
| 20 | 915-822 | SEMI-TRAPEZ RING 76.5 MM | 2g | \$94.69 |
| 21 | 916-136 | PISTON PIN 18X11X53.7 | 2 | \$47.85 |
| 22 | 845-540 | MONOHOOK CIRCLIP 18 | 4hi | \$1.97 |

- Items not illustrated

- a Piston for monohook circlip configuration, see also SI-2ST-001.
- b With 2 rings, standard: RED 75.94 mm (2.989 in.), GREEN 75.95 mm (2.990 in.).
- c With 2 rings, 1st oversize: RED 76.19 mm (2.999 in.), GREEN 76.20 mm (3.000 in.).
- d With 2 rings, 2nd oversize: RED 76.44 mm (3.0094 in.), GREEN 76.45 mm (3.0098 in.).
- e Standard size.
- f 1st oversize.
- g 2nd oversize.
- h In use with piston part no. 888-590, see also SI-2ST-001.
- i **NOTICE** - Use only once.

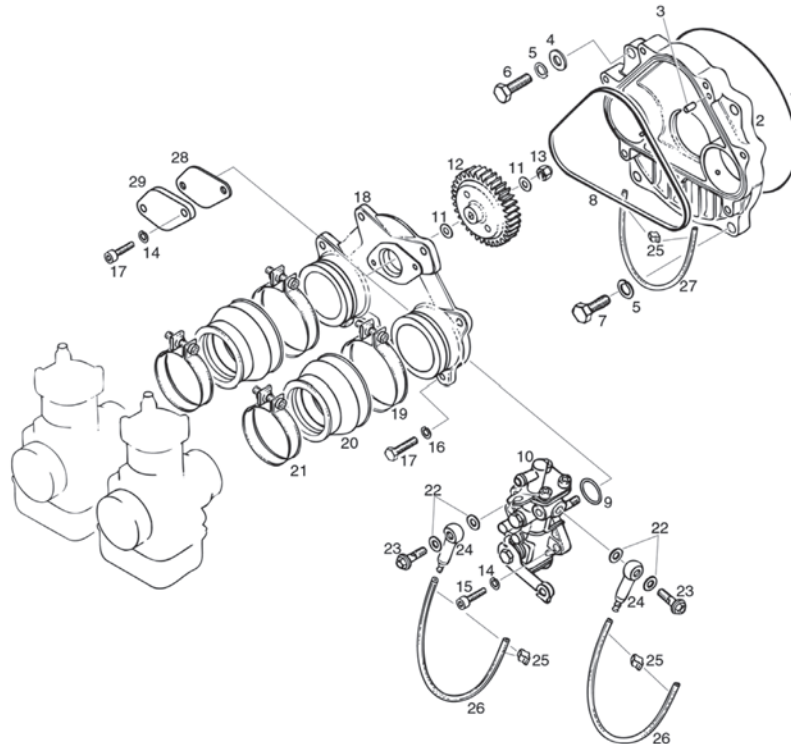


RTX

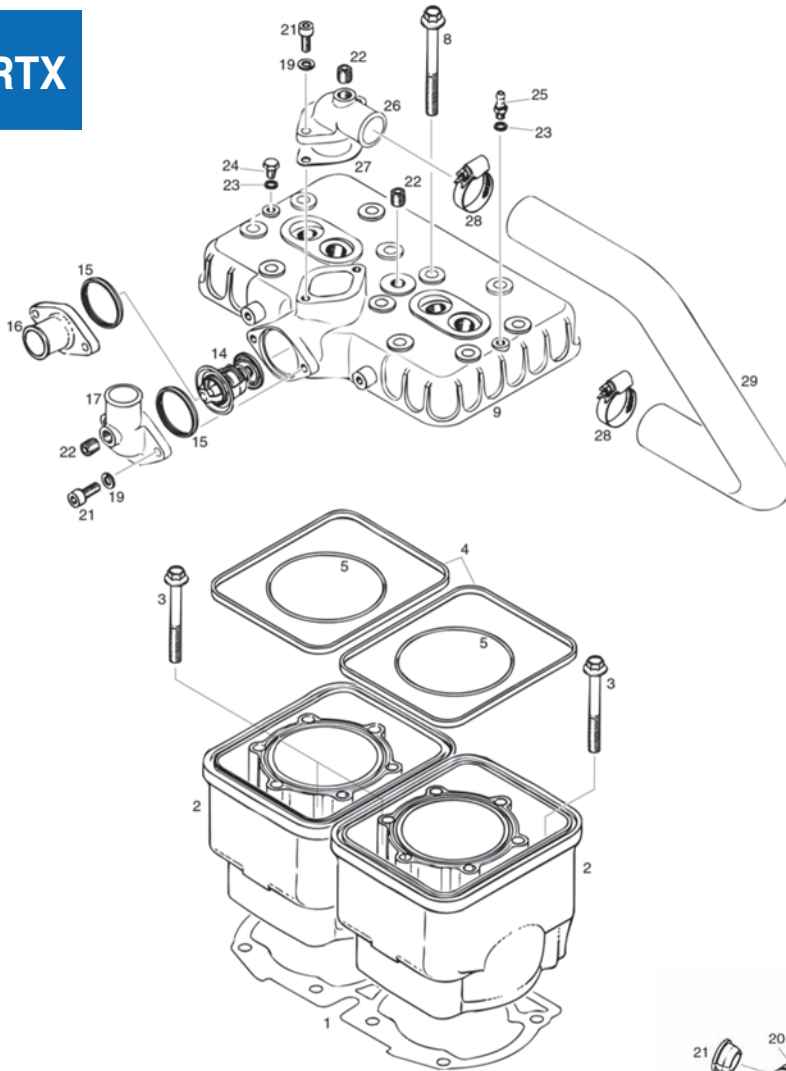
ROTARY VALVE COVER, OIL PUMP DRIVE, OIL PUMP

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------|-----------|----------|
| 1 | 831-360 | O-RING 132-1.7 | 1 | \$15.58 |
| 2 | 811-941 | ROTARY VALVE COVER ASSEMBLY | 1c | CALL |
| 3 | 929-560 | DOWEL TUBE 2x8 | 1 | \$3.20 |
| 4 | 250-315 | WASHER 8.4 | 2 | \$0.45 |
| 5 | 945-832 | LOCK WASHER A8 | 4 | \$0.23 |
| 6 | 240-276 | HEX. SCREW M8x25 | 2 | \$1.26 |
| 7 | 940-591 | HEX. SCREW M8x20 | 2 | \$1.23 |
| 8 | 831-700 | RUBBER RING 126x1.5x3.5 | 1 | \$5.69 |
| 9 | 230-370 | O-RING 18x1.3 | 1 | \$3.19 |
| 10 | 995-527 | OIL PUMP ASSEMBLY | 1 | \$277.25 |
| 11 | 927-945 | WASHER 6.2/12/1 | 2 | \$1.54 |
| 12 | 935-940 | OIL PUMP GEAR 44 T. | 1 | \$26.58 |
| 13 | 842-040 | LOCK NUT M6 | 1 | CALL |
| 14 | 945-750 | LOCK WASHER A5 | 2 | \$0.14 |
| 15 | 240-761 | SLOTTED HEAD SCREW M5x16 | 2 | \$1.75 |
| 16 | 945-751 | LOCK WASHER A6 | 7 | \$0.21 |
| 17 | 940-561 | HEX. SCREW M6x20 | 7 | \$0.66 |
| 18 | 910-320 | PUMP MOUNTING FLANGE | 1 | \$201.60 |
| 19 | 851-065 | CLAMP 62 | 2 | \$11.26 |
| 20 | 867-696 | CARBURETOR SOCKET | 2 | \$29.81 |
| 21 | 951-400 | HOSE CLAMP 53 | 2 | \$10.79 |
| 22 | 227-500 | GASKET RING 6.2/12/1 | 4 | \$1.45 |
| 23 | 241-830 | BANJO BOLT M6x16 | 2 | \$6.97 |
| 24 | 956-010 | CHECK VALVE ASSEMBLY | 2 | \$24.36 |
| 25 | 853-840 | CLAMP 3-5 MM (0.12-0.20 IN) | AR | \$2.28 |
| 26-27 | 960-040 | OIL LINE 2.2+/-0.1x4.3+0.4 | ARb | \$7.50 |
| 28 | 931-566 | GASKET | 1a | \$5.69 |
| 29 | 810-827 | COVER PLATE | 1a | \$18.68 |

- a for configuration without oil pump
- b in a roll
- c from engine S/N: 5381289.



RTX



CYLINDER, CYLINDER HEAD

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|--------------------------------|-----------|---------|------------|
| | | | mod. 99 | mod. 17 | |
| 1 | 850-775 | DOUBLE GASKET 0.5 MM | 1 | 1 | \$25.14 |
| 2 | 913-448 | CYLINDER WITH SLEEVE | 2a | 2a | \$1,265.79 |
| 3 | 640-952 | COLLAR HEX. SCREW M8x68.5 SW11 | 8 | 8 | \$4.99 |
| 4 | 850-040 | RUBBER RING 152.5/2.5/5 | 2 | 2 | \$8.03 |
| 5 | 850-540 | O-RING 83x2 | 2 | 2 | \$24.59 |
| 8 | 841-308 | COLLAR HEX. SCREW M8x65 SW11 | 12b | 12b | \$7.19 |
| 9 | 913-845 | CYLINDER HEAD | 1c | | \$901.05 |
| 9 | 913-848 | CYLINDER HEAD | | 1d | \$901.05 |
| 14-15 | 922-511 | THERMOSTAT WITH GASKET | 1 | 1 | \$100.71 |
| 16 | 922-025 | WATER OUTLET SOCKET | 1 | 1 | \$33.93 |
| 17 | 922-061 | BENT OUTLET SOCKET | 1 | 1 | \$54.47 |
| 19 | 945-751 | LOCK WASHER A6 | 2 | 2 | \$0.21 |
| 20 | 242-211 | HEX. NUT M6 | 2 | 2 | \$0.41 |
| 21 | 241-939 | ALLEN SCREW M6x20 | 2 | 2 | \$1.23 |
| 22 | 240-483 | PLUG SCREW 1/8-27NPT | 3 | 3 | \$8.25 |
| 23 | 230-415 | SEALING RING A6x10 | 2 | 2 | \$1.40 |
| 24 | 841-580 | HEX. SCREW M6x8 | 1 | 1 | \$0.57 |
| 25 | 940-558 | HOSE NIPPLE M6 | 1 | 1 | CALL |
| 26 | 922-063 | BENT OUTLET SOCKET | 1 | 1 | CALL |
| 27 | 850-338 | GASKET | 1 | 1 | \$7.46 |
| 28 | 951-880 | CLAMP 20-32 | 2 | 2 | \$6.27 |
| 29 | 922-521 | MOLDED HOSE 25/180 DEGR. | 1 | 1 | \$96.21 |

- Items not illustrated

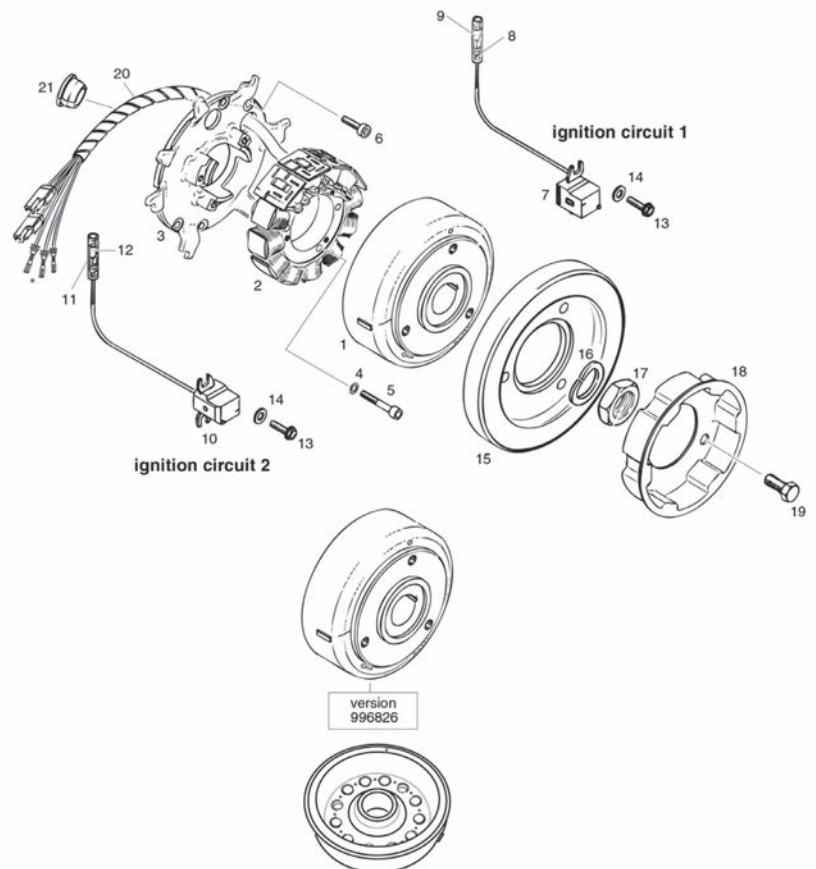
- a RED 76.00 mm - 76.01 mm (2.992 in) - 2.993 in).
- b Usable for configuration with- and without 2-piece radiator.
- c with spark plug thread M14x1.25
- d with spark plug thread M12x1.25

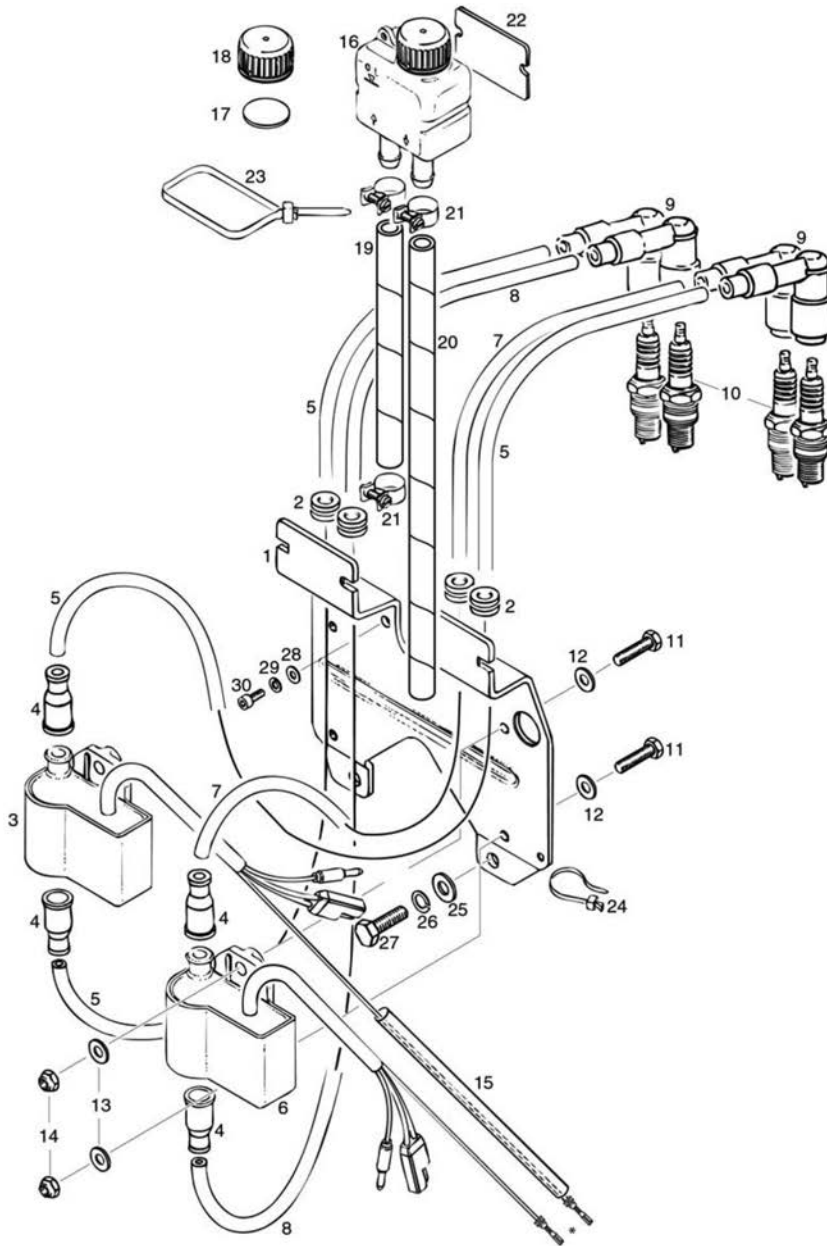
DUCATI MAGNETO-GENERATOR 12V 170W, STARTING PULLEY

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------|-----------|----------|
| 1 | 996-826 | MAGNETO FLYWHEEL P12W170 | 1 | \$642.68 |
| 2 | 996-849 | COIL KIT | 1 | \$749.00 |
| 3 | 966-207 | STATOR PLATE | 1 | \$180.91 |
| 4 | 945-750 | LOCK WASHER A5 | 2 | \$0.14 |
| 5 | 940-880 | ALLEN SCREW M5X30 | 3 | \$0.92 |
| 6 | 641-521 | TORX-ZYLINDER HEAD SCREW M5X16 | 2d | \$2.09 |
| 7-9 | 965-761 | PICKUP ASSEMBLY | 1a | \$156.58 |
| 8 | 964-072 | INSULATION SHEATH | 1 | \$2.28 |
| 9 | 964-067 | FASTON CONNECTOR 3.96 | 1 | \$2.28 |
| 10-12 | 965-761 | PICK UP | 1b | \$156.58 |
| 11 | 964-072 | INSULATION SHEATH | 1 | \$2.28 |
| 12 | 964-067 | FASTON CONNECTOR 3.96 | 1 | \$2.28 |
| 13 | 941-925 | TAPTITE SCREW M5X16 | 4 | \$1.26 |
| 14 | 827-800 | WASHER A 5,5 DIN 6902 | 4 | \$5.99 |
| 15 | 965-497 | HYDRO DAMPER ASSEMBLY | 1 | \$353.53 |
| 16 | 945-759 | LOCK WASHER 22 | 1 | \$1.76 |
| 17 | 842-239 | HEX. NUT M22X1,5 | 1 | \$12.83 |
| 18 | 852-411 | STARTING PULLEY | 1 | \$40.60 |
| 20 | 966-060 | SPIRAL HOSE 6.5x8.5x0.6 | ARc | \$11.09 |
| 21 | 960-288 | CABLE GROMMET 20.5/11 | 1 | \$9.47 |

- Items not illustrated

- a For ignition circuit 1.
- b For ignition circuit 2.
- c In a roll.
- d Without rewind starter.





OIL TANK, IGNITION COILS, SUPPORT PLATE

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|---------------------------------|-----------|----|----------|
| | | | 99 | 17 | |
| 2 | 960-445 | GROMMET | 4 | | \$4.95 |
| 3 | 966-462 | ELECTRONIC BOX | 1a | | \$355.36 |
| 4 | 960-550 | PROTECTION CAP | 4 | | \$3.19 |
| 5,7,8 | 965-153 | IGNITION CABLE 360 MM | AR | | \$15.58 |
| 6 | 966-467 | ELECTRONIC BOX | 1b | | \$367.95 |
| 9 | 866-705 | SUPPRESSED SPARK PLUG CONNECTOR | 4e | | \$26.31 |
| 9 | 265-249 | SPARK PLUG CONNECTOR | | 4e | \$41.50 |
| 10 | 897-055 | SPARK PLUG 14 MM, NGK BR 8 ES | 4e | | \$2.50 |
| 10 | 297-656 | SPARK PLUG 12 MM | | 4e | \$21.95 |
| 11 | 240-036 | HEX. SCREW M6X25 DIN 933 | 4 | | \$0.85 |
| 12,13 | 244-211 | WASHER 6,4 DIN 134 | 8 | 8 | \$0.21 |
| 14 | 842-044 | LOCK NUT M6 | 4 | 4 | \$2.66 |
| 15 | 960-187 | PROTECTION HOSE 170 MM | 1 | 1 | \$2.66 |
| 16-18 | 956-240 | OIL TANK ASSEMBLY | 1 | 1 | \$79.20 |
| 17 | 850-350 | RUBBER GASKET 26.5 MM | 1 | 1 | \$4.42 |
| 18 | 956-250 | OIL TANK CAP S 103/2D | 1 | 1 | \$11.50 |
| 19-20 | 956-140 | LOW PRESSURE HOSE OLN (E) | AR | AR | \$69.43 |
| 21 | 853-726 | CLAMP 16W1 | 4 | | \$4.95 |
| 21 | 853-515 | CLAMP 16/9 | 4 | 4 | \$5.06 |
| 22 | 860-425 | RUBBER SPACER | 1 | 1 | \$4.95 |
| 23 | 951-500 | CLAMP 381X4.8 MM | 1 | 1 | \$5.27 |
| 24 | 866-710 | CLAMP 142X2.5 MM | 1c | 1c | \$1.26 |
| 25 | 250-315 | WASHER 8.4 DIN 125 | 2 | 2 | \$0.41 |
| 26 | 945-832 | LOCK WASHER A8 | 2 | 2 | \$0.23 |
| 27 | 240-276 | HEX. SCREW M8X25 | 2 | 2 | \$1.26 |
| 28 | 244-211 | WASHER 6.4 DIN 134 | 2 | 2 | \$0.21 |
| 29 | 945-751 | LOCK WASHER A6 DIN 128 | 2 | 2 | \$0.21 |
| 30 | 241-237 | ALLEN SCREW M6X16 | 2 | 2 | \$0.73 |

- Items not illustrated

a For ignition circuit 1

b For ignition circuit 2

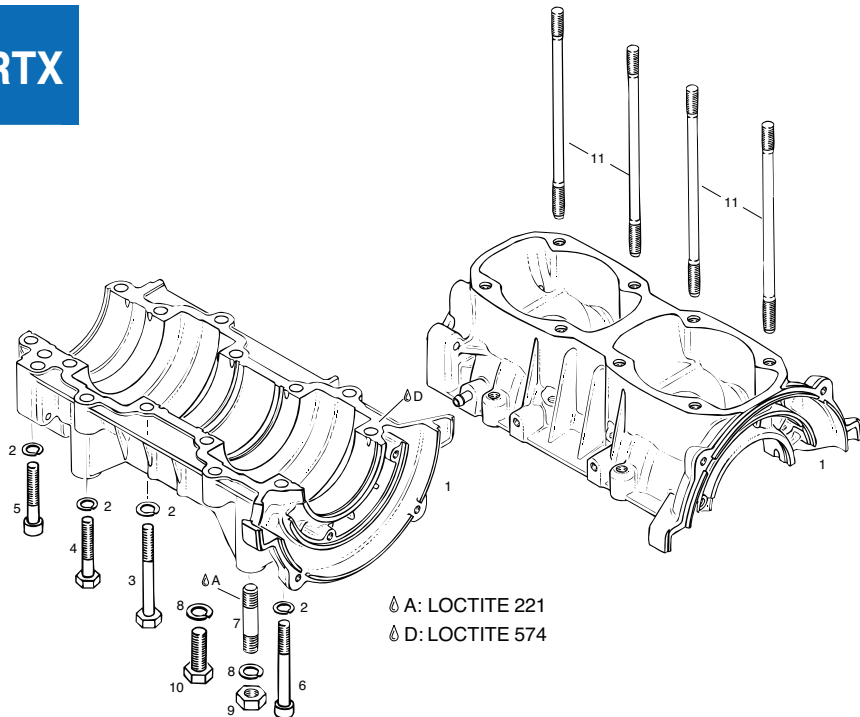
c To fix oil tube resp. cable harness

d In a roll

e See Service Instruction SI-2ST-010



RTX



Δ A: LOCTITE 221
 Δ D: LOCTITE 574

CRANKCASE

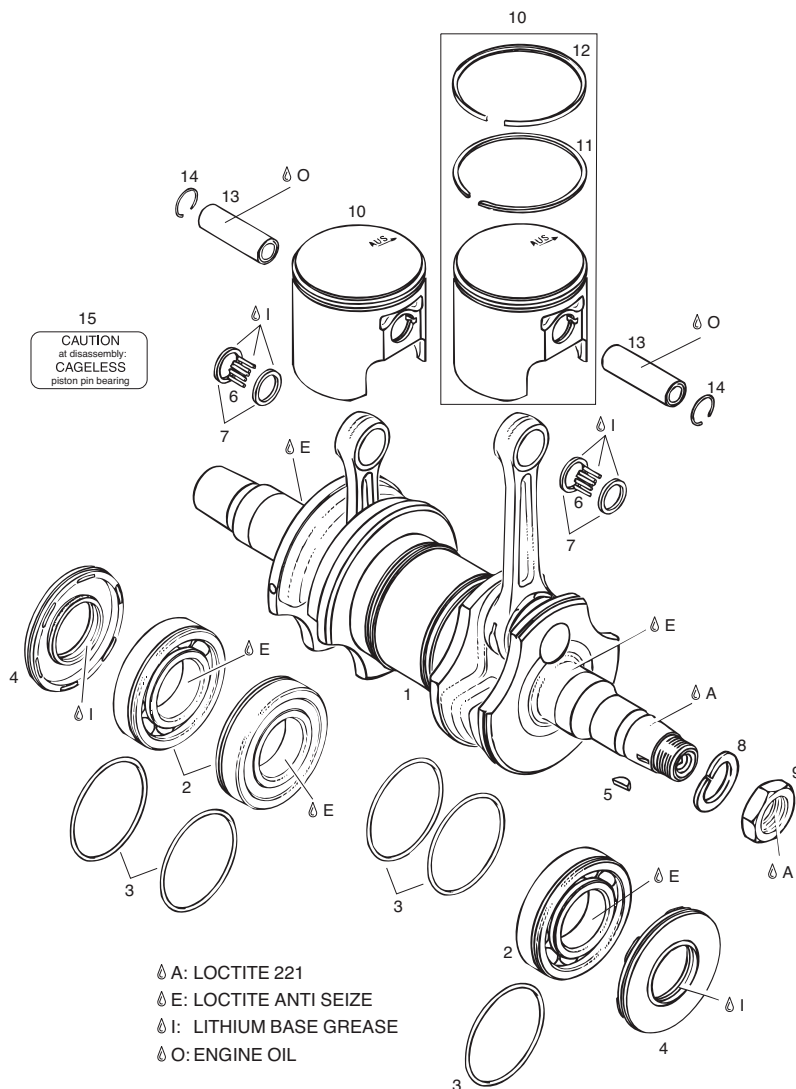
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------|-----------|------------|
| 1-6 | 887-796 | CRANKCASE ASSEMBLY | 1a | \$1,228.76 |
| 2 | 945-752 | LOCK WASHER A8 | 14 | \$0.21 |
| 3 | 841-201 | HEX. SCREW M8X70 | 6 | \$2.76 |
| 4 | 940-631 | HEX. SCREW M8X45 DIN 931 | 4 | \$1.76 |
| 5 | 640-611 | ALLEN SCREW M8X45 | 2 | \$1.79 |
| 6 | 841-841 | ALLEN SCREW M8X65 DIN 912 | 2 | \$2.40 |
| 7 | 940-190 | STUD M10X29/20 | 4 | \$4.78 |
| 8 | 945-753 | LOCK WASHER A10 | 4 | \$0.31 |
| 9 | 242-091 | HEX.NUT M10 | 4 | \$1.26 |
| 10 | 940-326 | HEX. SCREW M10X30 | 4 | \$1.97 |
| 11 | 840-556 | STUD M8X173.5 | 8 | \$19.29 |

a from engine S/N: 4,795.397

CRANKSHAFT, MAIN BEARINGS, PISTONS

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|------------|
| 1-7 | 996-441 | CRANKSHAFT ASSEMBLY | 1 | \$1,178.85 |
| 2 | 832-236 | B. BEARING 6207N TNH C3 35-72-17 | 3 | \$83.32 |
| 3 | 250-165 | O-RING 64-2 | 5 | \$5.33 |
| 4 | 831-950 | OIL SEAL 35X72X7/8.5 | 2 | \$39.33 |
| 5 | 246-055 | WOODRUFF KEY 3X3,7 DIN 6888 | 1 | \$3.73 |
| 6-7 | 832-320 | CAGEL. NEEDLE BEARING 18X22X23 | 2 | \$56.97 |
| 7 | 827-465 | THRUST WASHER 18/21, 7/2, 5 | 4 | \$23.17 |
| 8 | 945-759 | LOCK WASHER 22 | 1 | \$1.76 |
| 9 | 842-239 | HEX. NUT M22X1.5 | 1 | \$12.83 |
| 10-12 | 996-246 | PISTON ASSEMBLY 72,18/72,19 MM | 2b | \$218.95 |
| 10-12 | 996-247 | PISTON ASSEMBLY 72,43/72,44 MM | 2c | \$218.95 |
| 11 | 915-850 | RECTANGULAR RING 72.00 MM | 2d | \$55.44 |
| 11 | 915-851 | RECTANGULAR RING 72.25 MM | 2e | \$58.24 |
| 11 | 915-852 | RECTANGULAR RING 72.50 MM | 2f | \$58.24 |
| 12 | 215-235 | SEMI-TRAPEZ RING 72.00 MM | 2d | \$84.84 |
| 12 | 215-236 | SEMI-TRAPEZ RING 72.25 MM | 2e | \$90.16 |
| 12 | 215-237 | SEMI-TRAPEZ RING 72.50 M | 2f | \$90.16 |
| 13 | 916-186 | PISTON PIN 18X11X58.7 | 2 | \$50.69 |
| 14 | 945-735 | CIRCLIP 18 | 4g | \$0.48 |
| 15 | 897-280 | CAGELESS-LABEL | 1 | \$1.76 |

- a with 2 rings, standard
- b with 2 rings, 1st oversize
- c with 2 rings, 2nd oversize
- d Standard Size
- e 1st oversize
- f 2nd oversize
- g NOTICE use only once!



Δ A: LOCTITE 221
 Δ E: LOCTITE ANTI SEIZE
 Δ I: LITHIUM BASE GREASE
 Δ O: ENGINE OIL

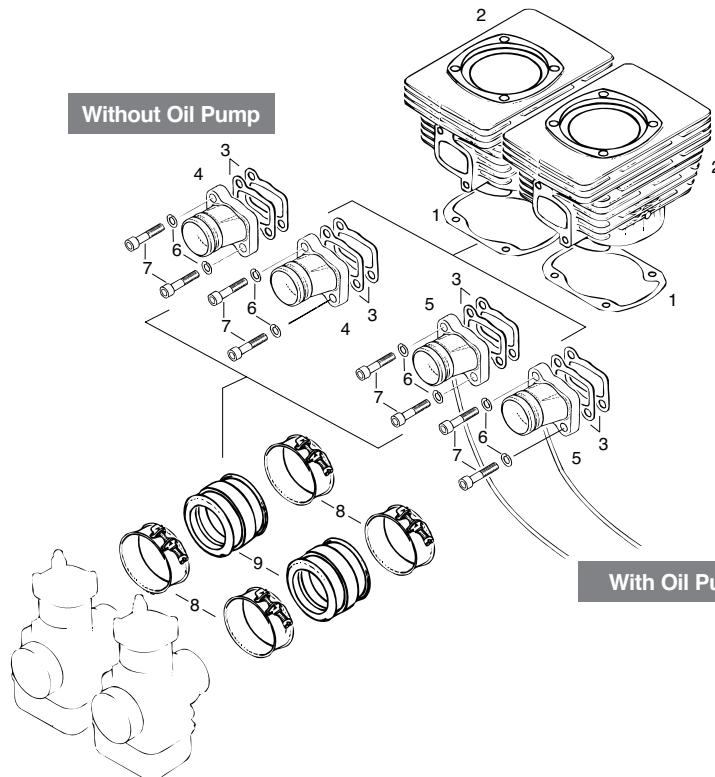
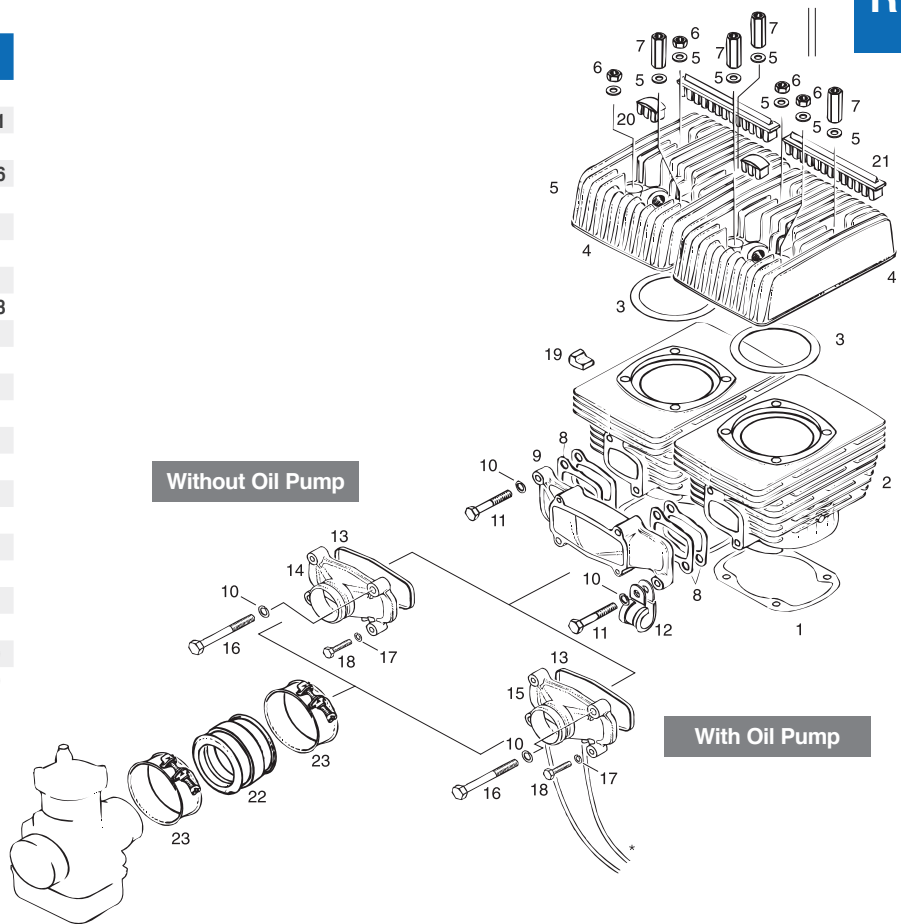
503 UL ENGINE

CYLINDER, CYLINDER HEAD AND INTAKE MANIFOLD: 1-CARB. CONFIGURATION

RTX

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|-----------|--------------------------|-----------|----------|
| 1 | 831-855 | GASKET 0,4 MM | 2 | \$4.54 |
| 2 | 923-010-1 | CYLINDER WITH SLEEVE | 2a | \$769.31 |
| 3 | 831-881 | GASKET | 2 | \$11.62 |
| 4 | 823-668 | CYLINDER HEAD | 2 | \$540.26 |
| 5 | 250-311 | WASHER 8,4 DIN 125 | 8 | \$0.41 |
| 6 | 242-209 | HEX. NUT M8 | 4 | \$0.56 |
| 7 | 842-050 | DISTANCE NUT M8X37 | 4 | \$56.75 |
| 8 | 831-866 | INTAKE GASKET 1,0 MM | 4 | \$6.27 |
| 9 | 867-450 | INTAKE MANIFOLD | 1 | \$115.58 |
| 10 | 945-752 | LOCK WASHER A8 | 4 | \$0.21 |
| 11 | 940-616 | HEX. SCREW M8X40 | 2 | \$1.61 |
| 12 | 851-100 | CABLE CLAMP 18 | 1 | \$12.95 |
| 13 | 850-151 | RUBBER RING 83X1, 5X3, 5 | 1 | \$5.95 |
| 14 | 867-465 | INTAKE COVER | 1b | \$91.15 |
| 15 | 867-462 | INTAKE COVER | 1c | \$98.03 |
| 16 | 841-301 | HEX. SCREW M8X65 | 2 | \$1.97 |
| 17 | 945-751 | LOCK WASHER A6 DIN 128 | 2 | \$1.97 |
| 18 | 941-501 | HEX.SCREW M6X30 | 2 | \$1.00 |
| 19 | 860-060 | SUPPORT DAMPER | 1 | \$2.97 |
| 20 | 860-096 | NOISE DAMPER, SHORT | 8 | \$11.98 |
| 21 | 860-091 | NOISE DAMPER, LONG | 2 | \$20.82 |
| 22 | 867-484 | RUBBER SOCKET | 1 | \$40.19 |
| 23 | 951-510 | HOSE CLAMP 52 | 2 | \$10.79 |

- a RED 72,00 mm - 72,01 mm
GREEN 72,01 mm - 72,02 mm
- b for mixture lubrication
- c for oil pump version



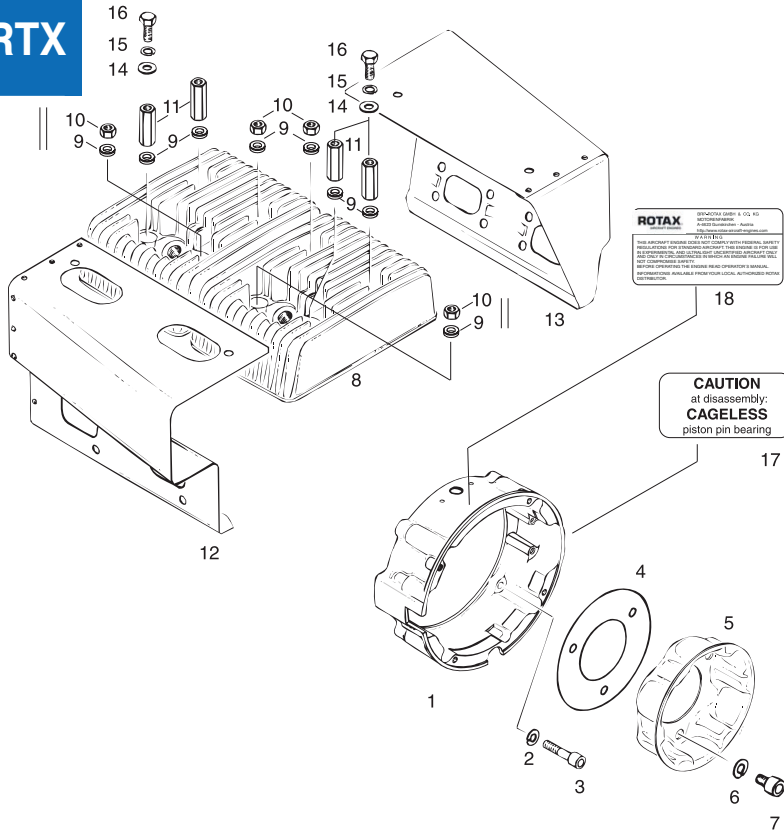
CYLINDER AND INTAKE SOCKET FOR 2-CARBURETOR CONFIGURATION

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|-----------|---------------------------|-----------|----------|
| 1 | 831-855 | GASKET 0,4 MM | 2 | \$4.54 |
| 2 | 923-010-1 | CYLINDER WITH SLEEVE | 2a | \$769.31 |
| 3 | 831-866 | INTAKE GASKET 1,0 MM | 4 | \$6.27 |
| 4 | 867-400 | INTAKE SOCKET | 2b | \$69.88 |
| 5 | 867-407 | INTAKE SOCKET | 2c | \$76.49 |
| 6 | 945-752 | LOCK WASHER A8 | 4 | \$0.21 |
| 7 | 840-681 | ALLEN SCREW M8X40 DIN 912 | 4 | \$1.76 |
| 8 | 951-510 | HOSE CLAMP 52 | 4 | \$10.79 |
| 9 | 867-484 | RUBBER SOCKET | 2 | \$40.19 |

- a RED 72,00 mm - 72,01 mm
GREEN 72,01 mm - 72,02 mm
- b for mixture lubrication
- c for oil pump version



RTX



IGNITION HOUSING, AIR GUIDES, FOR CONFIGURATION: FREE AIR COOLED

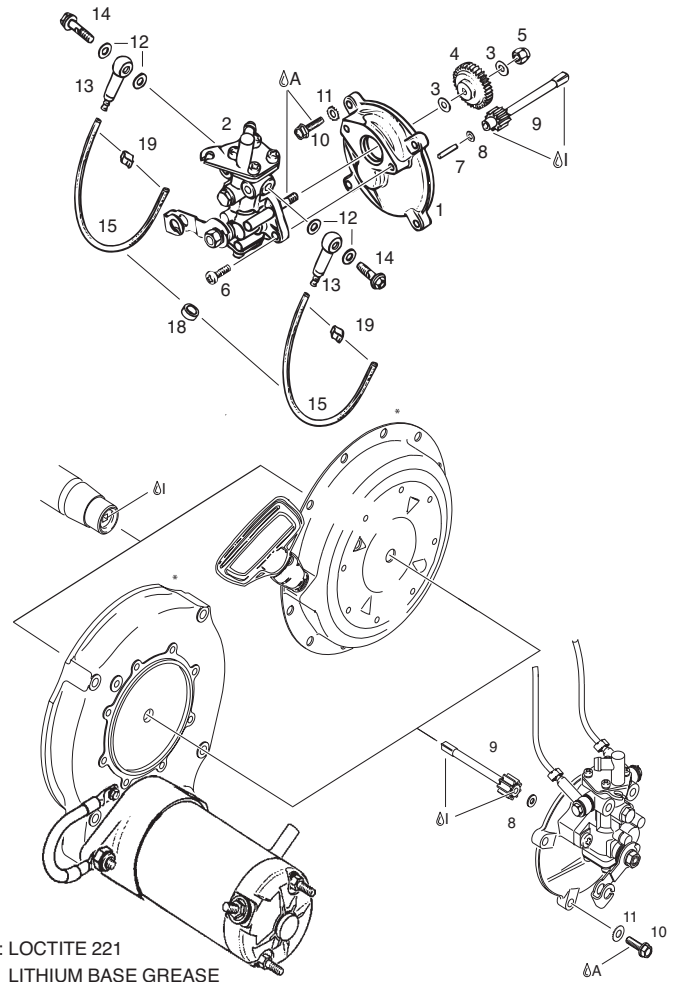
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------|-----------|----------|
| 1 | 910-418 | IGNITION HOUSING E., | 1a | \$343.89 |
| 2 | 945-751 | LOCK WASHER A6 DIN 128 | 4 | \$0.21 |
| 3 | 840-880 | ALLEN SCREW M6X30 DIN 912 | 4 | \$0.57 |
| 4 | 827-286 | PLUG WASHER 55/107 | 1 | \$35.01 |
| 5 | 852-412 | STARTING PULLEY | 1 | \$40.60 |
| 6 | 845-310 | LOCK WASHER VHZ 8 | 3 | \$0.41 |
| 7 | 841-520 | ALLEN SCREW M8X12 | 3 | \$1.35 |
| 8 | 823-668 | CYLINDER HEAD | 2 | \$540.26 |
| 9 | 847-475 | CONE SLEEVE 8,4/15/4 | 8 | \$7.80 |
| 10 | 242-209 | HEX. NUT M8 DIN 934 | 4 | \$0.56 |
| 11 | 842-050 | DISTANCE NUT M8X37 | 4 | \$56.75 |
| 12 | 910-727 | AIR GUIDE ASSEMBLY | 1b | \$427.75 |
| 13 | 910-707 | AIR GUIDE ASSEMBLY | 1c | \$427.75 |
| 14 | 250-311 | WASHER 8,4 DIN 125 | 4 | \$0.41 |
| 15 | 945-752 | LOCK WASHER A8 | 4 | \$0.21 |
| 16 | 940-580 | HEX. SCREW M8X16 | 4 | \$1.09 |
| 17 | 897-280 | CAGELESS LABEL | AR | \$1.76 |
| 18 | 897-501 | RED WARNING LABEL | AR | \$6.61 |

- a for E-starter position 93 or 183 degr.
- b air guide, carburetor side
- c air guide, exhaust side

OIL PUMP, OIL PUMP DRIVE

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|------------------------|-----------|----------|
| 2 | 886-096 | OIL PUMP ASSEMBLY | 1e | \$298.85 |
| 3 | 927-945 | WASHER 6, 2/12/1 | 2 | \$1.54 |
| 4 | 935-930 | OIL PUMP GEAR 27 T., | 1 | \$15.58 |
| 5 | 842-042 | LOCK NUT M6 | 1 | \$2.66 |
| 6 | 841-971 | PLASTITE SCREW 5, 5X16 | 2 | \$1.85 |
| 7 | 832-260 | NEEDLE PIN B4X17, 8 | 1 | \$1.57 |
| 8 | 244-073 | WASHER 4.3 | 1 | \$0.21 |
| 9 | 935-970 | GEAR 9 T. | 1 | \$18.30 |
| 9 | 935-972 | GEAR 9 T. | 1a | \$18.30 |
| 10 | 941-925 | TAPTITE SCREW M5X16 | 4 | \$1.26 |
| 11 | 945-530 | FRICTION WASHER A 5, 3 | 4 | \$0.57 |
| 12 | 227-500 | GASKET RING 6, 2/12/1 | 4 | \$1.45 |
| 13 | 956-010 | CHECK VALVE ASSEMBLY | 2 | \$24.36 |
| 14 | 241-830 | BANJO BOLT M6X16 | 2 | \$6.97 |
| 15 | 960-040 | OIL LINE 335 MM | ARbc | \$7.50 |
| 16 | 960-040 | OIL LINE 380 MM | ARbd | \$7.50 |
| 17 | 960-040 | OIL LINE 300 MM | ARbd | \$7.50 |
| 18 | 960-700 | RUBBER RING 7X1, 5X5 | 2 | \$1.51 |
| 19 | 853-840 | CLAMP 3-5 MM | 4 | \$2.28 |

- a For electric starter configuration magneto-side or pto side.
- b in a roll
- c for 1-carburetor version
- d for 2-carburetor version
- e retrofittable from engine S/N: 4,103.549

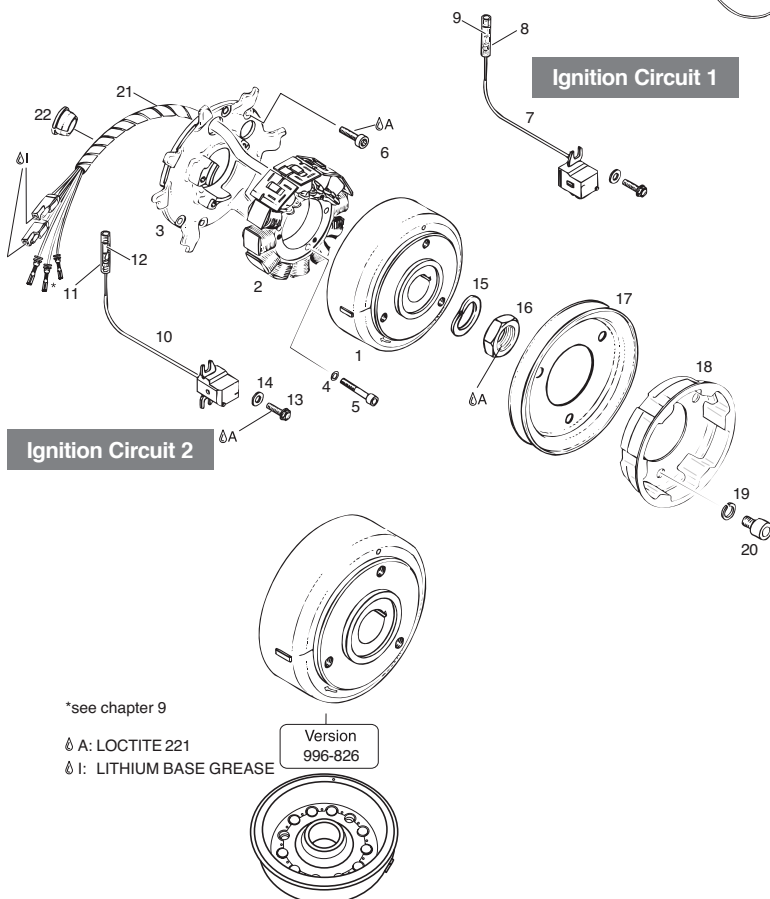
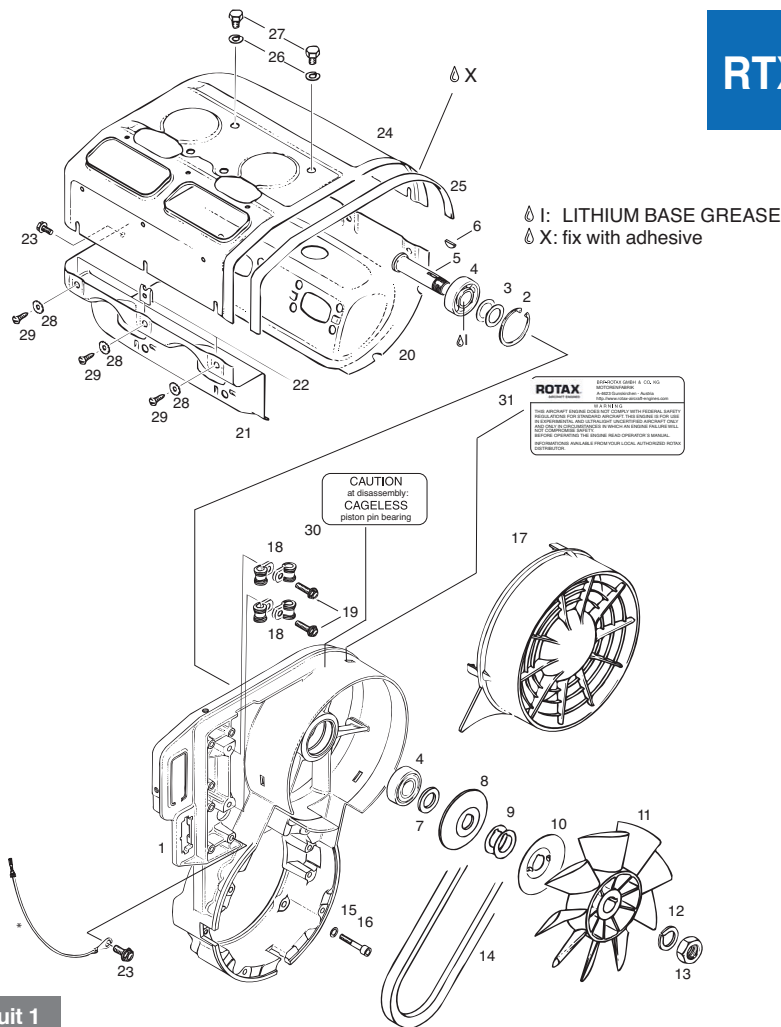


503 UL ENGINE

RTX

FAN HOUSING, CYLINDER COWLS, FAN, V-BELT

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|------------------------------------|-----------|----------|
| 2 | 945-880 | RETAINING RING 40X1, 75 | 1 | \$3.19 |
| 3 | 244-585 | SHIM 17, 5/24/1,0 | 2 | \$1.61 |
| 4 | 832-161 | BALL BEARING 6203-2RS C3, 17-40-12 | 2 | \$37.54 |
| 5 | 937-940 | FAN SHAFT | 1 | \$95.40 |
| 6 | 246-015 | WOODRUFF KEY 3X5 | 1 | \$3.32 |
| 7 | 827-650 | DISTANCE SLEEVE 17, 3/28/2, 8 | 1 | \$11.70 |
| 8 | 980-496 | PULLEY HALF | 1 | \$12.83 |
| 9 | 827-080 | SHIM 17, 5/27/0, 5 | AR | \$1.61 |
| 9 | 827-082 | SHIM 17, 5/27/0, 2 | AR | \$1.76 |
| 10 | 980-523 | PROTECTION WASHER | 1 | \$10.65 |
| 11 | 866-292 | FAN | 1 | \$122.09 |
| 12 | 945-756 | LOCK WASHER 16 | 1 | \$1.26 |
| 13 | 942-289 | HEX. NUT M16X1,5 | 1 | \$7.14 |
| 14 | 980-518 | V-BELT 10X6X610 | 1 | \$37.60 |
| 15 | 945-751 | LOCK WASHER A6 DIN 128 | 4 | \$0.21 |
| 16 | 840-880 | ALLEN SCREW M6X30 DIN 912 | 4 | \$0.57 |
| 17 | 975-695 | FAN-COVER | 1 | \$42.18 |
| 18 | 853-412 | CABLE CLAMP | 4 | \$5.69 |
| 19 | 941-250 | TAPTITE-SCREW M6X20 | 2 | \$1.61 |
| 20 | 810-273 | CYLINDER COWL, LOWER HALF LEFT | 1 | \$217.44 |
| 21 | 810-270 | CYLINDER COWL, LOWER HALF RIGHT | 1 | \$190.44 |
| 22 | 842-390 | SPRING NUT V 4,8 | 8 | \$1.40 |
| 23 | 240-385 | TAPTITE-SCREW M6X12 | 2 | \$1.54 |
| 24 | 912-215 | CYLINDER COWL ASSEMBLY, UPPER HALF | AR | \$347.08 |
| 25 | 960-961 | SEALING STRIP 440 MM | 1 | \$8.30 |
| 26 | 945-752 | LOCK WASHER A8 | 4 | \$0.21 |
| 27 | 940-580 | HEX. SCREW M8X16 | 4 | \$1.09 |
| 28 | 845-330 | WASHER 5, 1X16X1, 2 | 8 | \$0.85 |
| 29 | 841-495 | SELF-TAPPING SCREW 4.8X16 | 8 | \$0.36 |
| 30 | 897-280 | CAGELESS LABEL | AR | \$1.76 |
| 31 | 897-501 | RED WARNING LABEL | AR | \$6.61 |



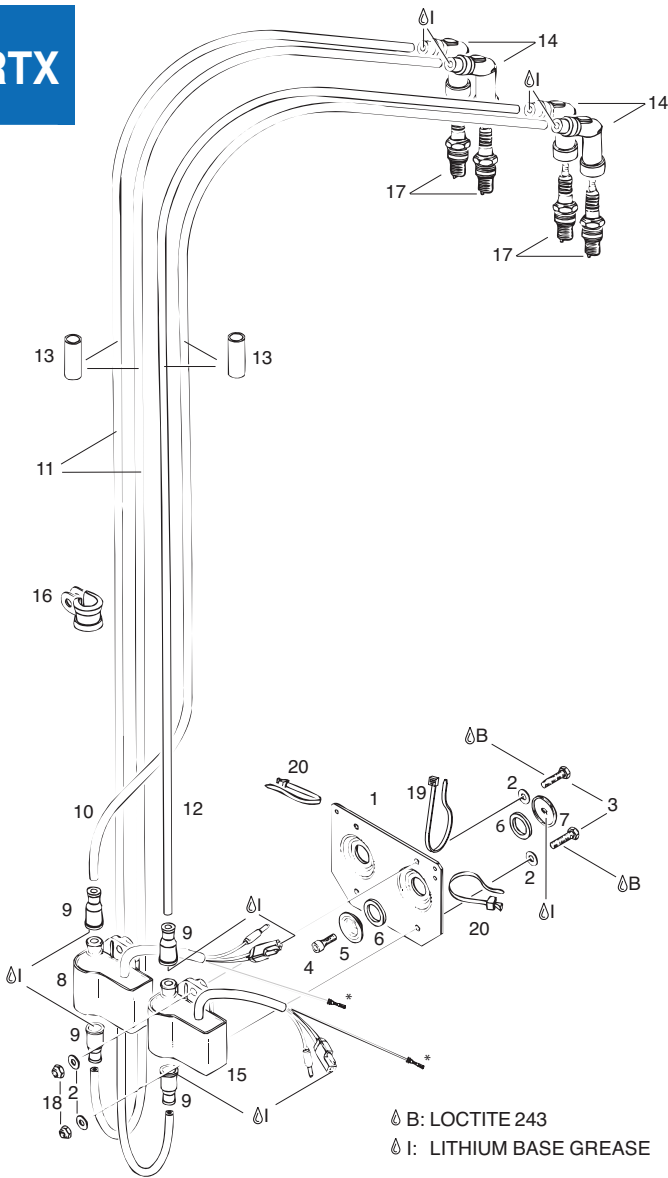
DUCATI MAGNETO GENERATOR 12V 170W, STARTING PULLEY

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------|-----------|----------|
| 1 | 996-826 | MAGNETO FLYWHEEL ASSEMBLY | 1e | \$642.68 |
| 2 | 996-849 | COIL KIT | 1 | \$749.00 |
| 3 | 966-207 | STATOR PLATE | 1 | \$180.91 |
| 4 | 945-750 | LOCK WASHER A5 | 5 | \$0.14 |
| 5 | 940-880 | ALLEN SCREW M5X30 | 3 | \$0.92 |
| 6 | 641-521 | TORX-ZYLINDER HEAD SCREW M5X16 | 2e | \$2.09 |
| 7-9 | 965-769 | PICK UP ASSEMBLY | 1a | \$168.60 |
| 8 | 964-072 | INSULATION SHEATH | 1 | \$2.28 |
| 9 | 964-067 | FASTON CONNECTOR 3, 96 | 1 | \$2.28 |
| 10-12 | 965-761 | PICKUP ASSEMBLY | 1b | \$156.58 |
| 11 | 964-072 | INSULATION SHEATH | 1 | \$2.28 |
| 12 | 964-067 | FASTON CONNECTOR 3, 96 | 1 | \$2.28 |
| 13 | 941-925 | TAPTITE SCREW M5X16 | 4 | \$1.26 |
| 14 | 827-800 | WASHER A 5.5 DIN 6902 | 4 | \$5.99 |
| 15 | 945-759 | LOCK WASHER 22 | 1 | \$1.76 |
| 16 | 842-239 | HEX. NUT M22X1.5 | 1 | \$12.83 |
| 17 | 980-486 | V-BELT PULLEY | 1 | \$59.42 |
| 18 | 852-412 | STARTING PULLEY | 1 | \$40.60 |
| 19 | 845-310 | LOCK WASHER VHZ 8 | 3 | \$0.41 |
| 20 | 841-520 | ALLEN SCREW M8X12 | 3 | \$1.35 |
| 21 | 966-060 | SPIRAL HOSE 70 MM | 1 | \$11.09 |
| 22 | 860-962 | CABLE GROMMET 24, 5/11 | 1c | \$8.64 |

- a for ignition circuit 1
- b for ignition circuit 2
- c from engine S/N: 4,795.397
- d in a roll
- e magneto flywheel new version (with closed cage), Torx screw also valid for old version. At disassembly and reassembly of the screw the thread has to be cleaned of the remaining coating and secured with Loctite 221. As an alternative a new screw can be used



RTX



Δ B: LOCTITE 243
Δ I: LITHIUM BASE GREASE

ELECTRONIC BOXES AND SUPPORTING PLATE FOR CONFIGURATION: FREE AIR-COOLED

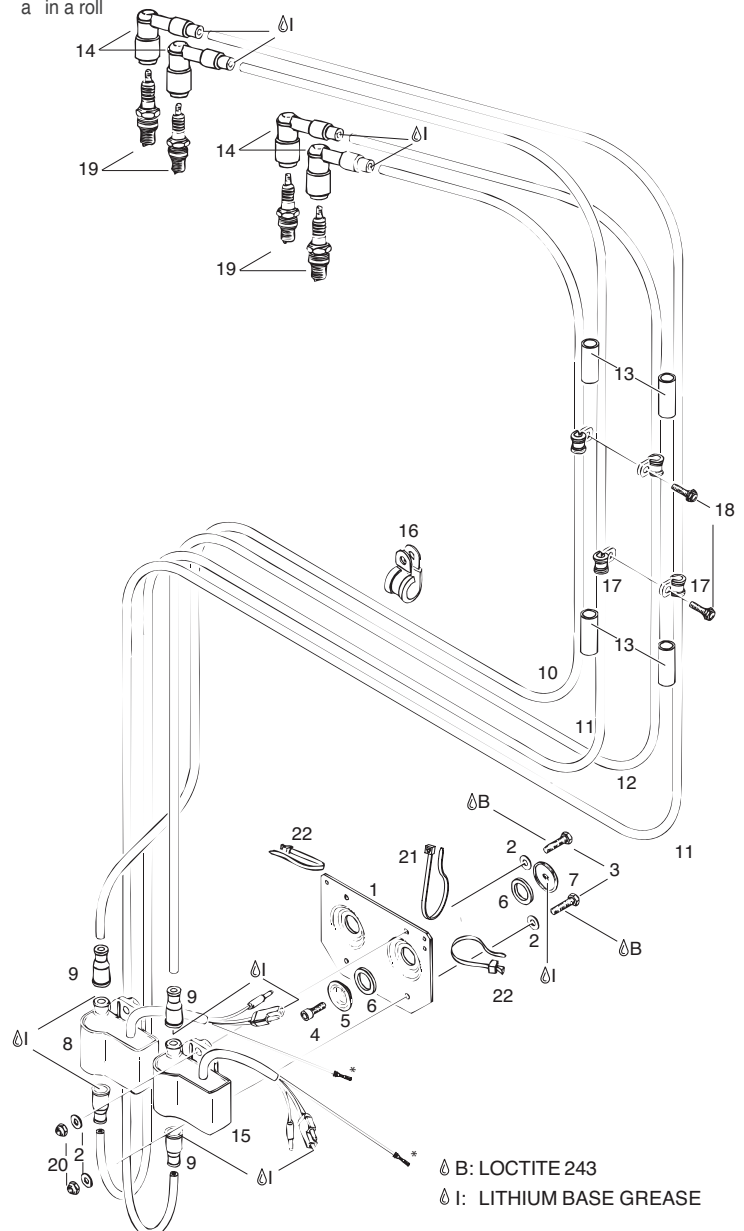
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-------------------------------|-----------|----------|
| 1 | 851-040 | MOUNTING PLATE 1 | 1 | \$63.89 |
| 2 | 244-211 | WASHER 6,4 DIN 134 | 8 | \$0.21 |
| 3 | 240-036 | HEX. SCREW M6X25 DIN 933 | 4 | \$0.85 |
| 4 | 241-236 | ALLEN SCREW M6X16 | 2 | \$0.66 |
| 5 | 827-815 | DISTANCE CAP | 2 | \$9.83 |
| 6 | 960-865 | RUBBER WASHER 18/26/3 | 4 | \$1.92 |
| 7 | 944-090 | SHIM 6,05 | 2 | \$10.00 |
| 8 | 966-462 | ELECTRONIC BOX | 1 | \$355.36 |
| 9 | 960-550 | PROTECTION CAP | 4 | \$3.19 |
| 10-12 | 965-153 | IGNITION CABLE 1,5/7 MM | NBa | \$15.58 |
| 13 | 830-962 | PROTECTION HOSE 12X16X40 | 4 | \$2.28 |
| 14 | 866-702 | SPARK PLUG CONNECTOR | 4 | \$34.13 |
| 15 | 966-467 | ELECTRONIC BOX | 1 | \$367.95 |
| 16 | 851-100 | CABLE CLAMP 18 | 1 | \$12.95 |
| 17 | 897-055 | SPARK PLUG 14 MM, NGK BR 8 ES | 4 | \$2.50 |
| 18 | 842-044 | LOCK NUT M6 | 4 | \$2.66 |
| 19 | 251-920 | CLAMP 279X3.6 MM | 1 | \$1.97 |
| 20 | 866-710 | CLAMP 142X2.5 MM | 2 | \$1.26 |

a in a roll

ELECTRONIC BOXES AND SUPPORTING PLATE FOR CONFIGURATION: FREE AIR-COOLED

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------------|-----------|----------|
| 2 | 244-211 | WASHER 6,4 DIN 134 | 8 | \$0.21 |
| 3 | 240-036 | HEX. SCREW M6X25 DIN 933 | 4 | \$0.85 |
| 4 | 241-236 | ALLEN SCREW M6X16 | 2 | \$0.66 |
| 5 | 827-815 | DISTANCE CAP | 2 | \$9.83 |
| 6 | 960-865 | RUBBER WASHER 18/26/3 | 4 | \$1.92 |
| 7 | 944-090 | SHIM 6,05 | 2 | \$10.00 |
| 8 | 966-462 | ELECTRONIC BOX | 1 | \$355.36 |
| 9 | 960-550 | PROTECTION CAP | 4 | \$3.19 |
| 10-12 | 965-153 | IGNITION CABLE 1.5/7 MM | NBa | \$15.58 |
| 13 | 830-962 | PROTECTION HOSE 12X16X40 | 4 | \$2.28 |
| 14 | 866-705 | SUPPRESSED SPARK PLUG CONNECTOR | 4 | \$26.31 |
| 15 | 966-467 | ELECTRONIC BOX | 1 | \$367.95 |
| 16 | 851-100 | CABLE CLAMP 18 | 1 | \$12.95 |
| 17 | 853-412 | CABLE CLAMP | 4 | \$5.69 |
| 18 | 941-250 | TAPTITE-SCREW M6X20 | 2 | \$1.61 |
| 19 | 897-055 | SPARK PLUG 14 MM, NGK BR 8 ES | 4 | \$1.97 |
| 20 | 842-040 | LOCK NUT M6 | 4 | \$1.26 |
| 21 | 251-920 | CLAMP 279X3.6 MM | 1 | \$1.97 |
| 22 | 866-710 | CLAMP 142X2.5 MM | 2 | \$1.26 |

a in a roll

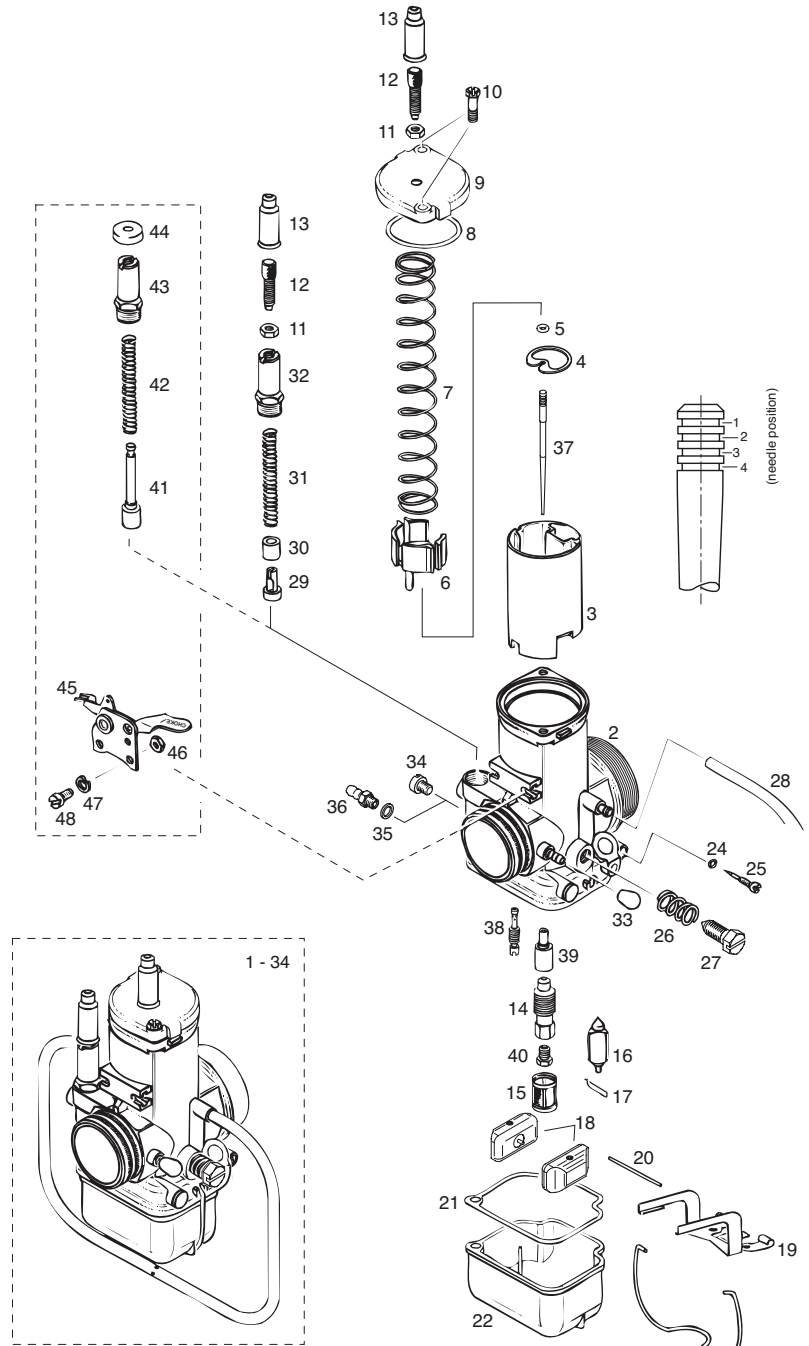


Δ B: LOCTITE 243
Δ I: LITHIUM BASE GREASE

2 STROKE CARBURETORS

ROTAX 503, 582 UL 99/17 BING DOUBLE-FLOAT CARBURETOR 36 MM, MODEL 96

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|-----------------------------------|-----------|-----|----------|
| | | | 503 | 582 | |
| 3 | 963-679 | CARBURETOR PISTON | 1 | 1 | \$103.80 |
| 4 | 963-500 | NEEDLE CLIP | 1 | 1 | \$7.95 |
| 5 | 950-430 | O-RING 2.5X1.5 | 1 | 1 | \$1.85 |
| 6 | 827-347 | SPRING CUP | 1 | 1 | \$9.50 |
| 7 | 938-655 | CARBURETOR PISTON SPRING 1, 25/14 | 1 | 1 | \$6.50 |
| 8 | 831-450 | RUBBER RING | 1 | 1 | \$7.70 |
| 9 | 963-721 | COVER PLATE WITH PIN | 1 | 1 | \$37.71 |
| 10 | 241-430 | HEX. SCREW M5X12 | 2 | 2 | \$1.60 |
| 11 | 942-541 | HEX. NUT M6X0,75 HIGHT 3 MM 3 | 2 | 2 | \$0.99 |
| 12 | 241-440 | ADJUSTMENT SCREW M6X0.75 | 2 | 2 | \$4.95 |
| 13 | 260-370 | RUBBER GROMMET | 2 | 2 | \$2.80 |
| 14 | 963-700 | MIXING TUBE | 1 | 1 | \$21.70 |
| 15 | 261-625 | SIEVE SLEEVE | 1 | 1 | \$10.65 |
| 16 | 261-705 | FLOAT NEEDLE VALVE W. VITON TIP | 1 | 1 | \$41.50 |
| 17 | 261-710 | FLOAT NEEDLE CLIP | 1 | 1 | \$1.95 |
| 18 | 861-184 | FLOAT (PAIR) | 1 | 1 | \$97.25 |
| 19 | 861-192 | FLOAT BRACKET | 1 | 1 | \$19.75 |
| 20 | 929-702 | PIN | 1 | 1 | \$2.55 |
| 21 | 830-720 | GASKET | 1 | 1 | \$10.65 |
| 22 | 261-010 | FLOAT CHAMBER ASSEMBLY | 1 | 1 | \$108.22 |
| 23 | 963-180 | SPRING CLIP | 1 | 1 | \$10.50 |
| 24 | 831-713 | O-RING 3.2X1.8 | 1 | 1 | \$3.85 |
| 25 | 963-155 | AIR REGULATING SCREW | 1 | 1 | \$13.50 |
| 26 | 938-640 | SPRING | 1 | 1 | \$3.35 |
| 27 | 963-167 | ADJUSTMENT SCREW | 1 | 1 | \$19.63 |
| 28 | 861-940 | AIR VENT LINE | 1 | 1 | \$12.95 |
| 29 | 963-740 | CHOKE PISTON WITH GASKET | 1 | 1 | \$11.50 |
| 30 | 268-850 | SLEEVE | 1 | 1 | \$4.60 |
| 31 | 661-050 | COMPRESSION SPRING | 1 | 1 | \$2.12 |
| 32 | 963-750 | CHOKE HOUSING | 1 | 1 | \$16.50 |
| 33 | 860-610 | RUBBER CAP | 1 | 1 | \$2.28 |
| 34 | 640-220 | SLOTTED HEAD SCREW M6X5 | 1 | 1 | \$7.84 |
| 35 | 230-415 | SEALING RING A 6X10 DIN 7603 | 1h | 1h | \$1.40 |
| 36 | 940-551 | HOSE NIPPLE M6 | 1h | 1h | \$17.20 |
| 41-48 | 995-667 | HAND LEVER CHOKE SET | 1 | 1 | \$51.90 |
| 41 | 268-847 | CHOKE PISTON WITH GASKET | 1 | 1 | \$27.60 |
| 42 | 239-730 | COMPRESSION SPRING | 1 | 1 | \$4.52 |
| 43 | 261-770 | CHOKE HOUSING | 1 | 1 | \$13.50 |
| 44 | 260-490 | RUBBER CAP | 1 | 1 | \$6.85 |
| 45 | 261-755 | CHOKE LEVER ASSEMBLY | 1 | 1 | \$29.65 |
| 46 | 261-200 | HEX. NUT M5 | 2 | 2 | \$1.43 |
| 47 | 945-750 | LOCK WASHER A5 | 2 | 2 | \$0.14 |
| 48 | 240-791 | SLOTTED HEAD SCREW M5X10 84 | 2 | 2 | \$0.48 |



- a base carburetor for air cooled engines with bowden cable choke.
NOTICE carburetor without calibration.
from engine S/N
503 UL: 4,795.201
- b NOTICE carburetor without calibration.
from engine S/N
582 UL mod. 90: 4,656.088
582 UL mod. 99: starting with serial production
- c carburetor housing, not available as spare part, use carburetor assy.
- d jet-needle, see carburetor calibration sheet
- e idle-jet, see carburetor calibration sheet
- f needle-jet, see carburetor calibration sheet
- g main-jet, see carburetor calibration sheet
- h only necessary on high altitude compensation kit (not available anymore)



CARBURETOR CALIBRATION SHEETS

503 UL DCD1

| Version | STANDARD 503 - 34KW | | | | STANDARD 503 - 37KW | | | |
|--------------------------|---------------------|----------|---------------------|----------|---------------------|---------|---------------------|----------|
| | Part Number | Price | Part Number | Price | Part Number | Price | Part Number | Price |
| with intake silencer | YES | | NO | | YES | | NO | |
| Carburetor | 887-825 | \$649.78 | 887-820 | \$649.78 | - | | 887-826 | \$544.00 |
| main jet | HD 165 P/N 268-986 | \$11.50 | HD 165 P/N 261-080 | \$11.99 | HD 148 P/N 268-995 | \$11.99 | HD 158 P/N 268-996 | \$11.50 |
| idle jet | LD 45 P/N 963-144 | \$28.65 | LD 45 P/N 963-144 | \$28.65 | LD 45 P/N 963-144 | \$28.65 | LD 45 P/N 963-144 | \$28.65 |
| needle jet | ND 2,70 P/N 963-698 | \$22.86 | ND 2,70 P/N 963-697 | \$22.86 | ND 2,68 P/N 963-691 | \$18.50 | ND 2,70 P/N 963-698 | \$22.86 |
| jet needle | DN 15K2 P/N 963-718 | \$16.50 | DN 15K2 P/N 963-718 | \$16.50 | DN 11K2 P/N 961-044 | \$18.25 | DN 11K2 P/N 961-044 | \$18.25 |
| needle position | NP 3 | | NP 3 | | NP 2 | | NP 2 | |
| cold start jet | SD 150 | | SD 150 | | SD 150 | | SD 150 | |
| idle air adjusting screw | LS 0,5 | | LS 0,5 | | LS 1 | | LS 0,5 | |

582 UL DCD1

| Version | STANDARD 582 - 40KW | | | | STANDARD 582 - 48KW | | | |
|--------------------------|---------------------|---------|---------------------|---------|---------------------|----------|---------------------|---------|
| | Part Number | Price | Part Number | Price | Part Number | Price | Part Number | Price |
| with intake silencer | YES | | NO | | YES | | NO | |
| Carburetor | 887-836 | - | 887-832 | - | 887-838 | \$563.00 | 887-834 | - |
| main jet | HD 145 P/N 268-982 | \$11.50 | HD 160 P/N 268-985 | \$11.50 | HD 145 P/N 268-982 | \$11.50 | HD 160 P/N 268-985 | \$11.50 |
| idle jet | LD 55 P/N 963-147 | \$31.50 | LD 55 P/N 963-147 | \$31.50 | LD 55 P/N 963-147 | \$31.50 | LD 55 P/N 963-147 | \$31.50 |
| jet needle | DN 15K2 P/N 963-718 | \$16.50 | DN 11G2 P/N 961-043 | \$12.60 | DN 15K2 P/N 963-718 | \$16.50 | DN 11G2 P/N 961-043 | \$12.60 |
| needle position | NP 3 | - | NP 3 | - | NP 2 | - | NP 2 | - |
| cold start jet | SD 150 | - | SD 150 | - | SD 150 | - | SD 150 | - |
| idle air adjusting screw | LS 1 | - | LS 1 | - | LS 1 | - | LS 1 | - |
| float needle valve | NS 1,5 | - | NS 1,5 | - | NS 1,5 | - | NS 1,5 | - |

MOST FREQUENT CALIBRATION JETS

| Main Jet | Part No. | Price | Idle Jet | Part No. | Price | Needle Jet | Part No. | Price | Jet Needle | Part No. | Price |
|----------|----------|---------|----------|----------|---------|------------|----------|---------|------------|----------|---------|
| HD 125 | 268-978 | \$11.50 | LD 45 | 963-144 | \$28.65 | ND 2,68 | 963-691 | \$18.50 | DN 8L2 | 963-714 | \$15.50 |
| HD 130 | 268-979 | \$10.75 | LD 50 | 963-140 | \$32.80 | ND 2,70 | 963-698 | \$17.80 | DN 6G1 | 261-642 | \$16.78 |
| HD 135 | 268-980 | \$11.99 | LD 55 | 963-147 | \$31.50 | ND 2,72 | 963-697 | \$15.85 | DN 9 | 961-047 | \$22.16 |
| HD 138 | 268-998 | \$10.95 | | | | ND 2,74 | 963-699 | \$18.50 | DN 11G2 | 961-043 | \$12.60 |
| HD 140 | 268-981 | \$11.50 | | | | | | | DN 11K2 | 961-044 | \$16.50 |
| HD 142 | 268-994 | \$11.99 | | | | | | | DN 15E5U | 961-046 | \$22.16 |
| HD 145 | 268-982 | \$11.50 | | | | | | | DN 15K 2 | 963-718 | \$16.50 |
| HD 148 | 268-995 | \$11.99 | | | | | | | | | |
| HD 150 | 268-983 | \$11.50 | | | | | | | | | |
| HD 155 | 268-984 | \$11.50 | | | | | | | | | |
| HD 158 | 268-996 | \$11.50 | | | | | | | | | |
| HD 160 | 268-985 | \$11.50 | | | | | | | | | |
| HD 162 | 268-990 | \$11.50 | | | | | | | | | |
| HD 165 | 268-986 | \$11.50 | | | | | | | | | |
| HD 170 | 268-987 | \$11.50 | | | | | | | | | |
| HD 175 | 268-988 | \$11.50 | | | | | | | | | |
| HD 180 | 268-989 | \$11.50 | | | | | | | | | |
| HD 185 | 261-080 | \$11.99 | | | | | | | | | |
| HD 190 | 261-084 | \$11.99 | | | | | | | | | |
| HD 195 | 268-992 | \$11.50 | | | | | | | | | |
| HD 200 | 261-082 | \$17.50 | | | | | | | | | |
| HD 205 | 261-087 | \$16.50 | | | | | | | | | |
| HD 210 | 261-083 | \$16.68 | | | | | | | | | |



CALIFORNIA POWER SYSTEMS

EXPERTS IN LIGHTSPORT AVIATION

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2 STROKE STARTERS

ROTAX 503, 582 UL 99/17 REWIND STARTER

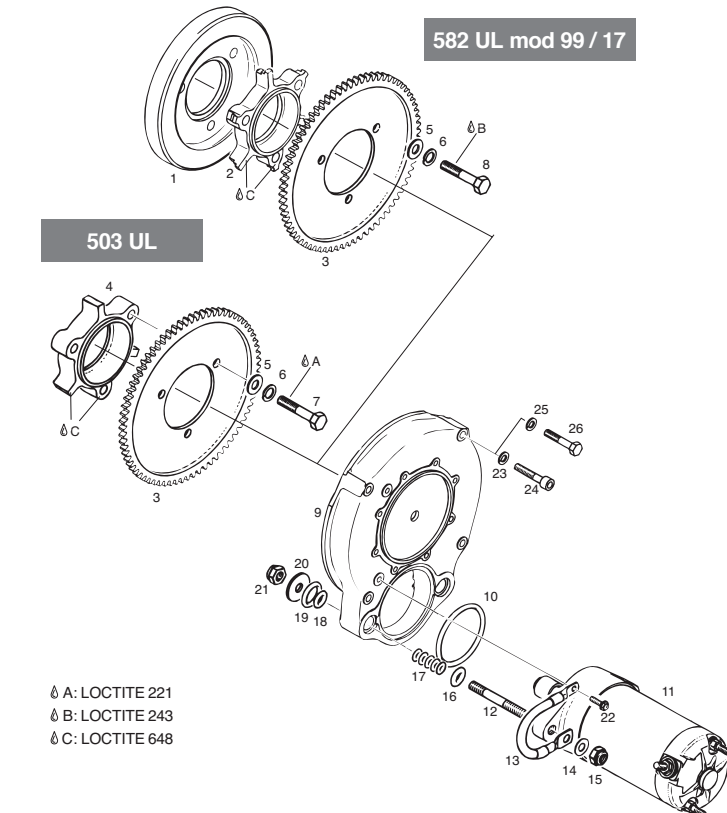
| Item No. | Part No | Description | Qty. Req. | | Price |
|--------------|---------|-------------------------|-----------|-----|----------|
| | | | 503 | 582 | |
| 1-12 | 995-583 | REWIND STARTER ASSEMBLY | 1d | | \$400.06 |
| 2 | 939-078 | REWIND SPRING ASSEMBLY | 1 | | \$49.74 |
| 3 | 852-283 | ROPE SHEAVE | 1 | | \$78.91 |
| 4 | 852-094 | STARTER ROPE 5.5X30000 | NBf | | \$106.51 |
| 5 | 852-070 | KEY CLAMP | 1 | | \$4.37 |
| 6 | 852-290 | PAWL | 1 | | \$26.50 |
| 7 | 852-305 | PAWL LOCK | 1 | | \$15.54 |
| 8 | 845-300 | RETAINING RING 15 | 1 | | \$2.28 |
| 9 | 938-986 | LOCKING SPRING | 1 | | \$6.46 |
| 10 | 945-770 | SNAP RING AV 17 | 1 | | \$1.35 |
| 11 | 960-415 | RUBBER BUFFER | 1 | 1 | \$10.45 |
| 12 | 852-177 | STARTER GRIP | 1 | 1 | \$29.59 |
| 13 | 945-751 | LOCK WASHER A6 DIN 128 | 4 | 4 | \$0.21 |
| 14 | 241-236 | ALLEN SCREW M6X16 | 4 | 4 | \$0.66 |
| 11,12, 15-25 | 892-800 | REWIND STARTER SET | 1eg | | \$317.57 |
| 11,12, 15-25 | 892-802 | REWIND STARTER SET | 1dg | | \$337.17 |
| 15 | 910-251 | STARTER HOUSING | 1 | | \$110.17 |
| 16 | 939-115 | REWIND SPRING | 1 | | \$49.74 |
| 17 | 852-286 | ROPE SHEAVE | 1g | | \$68.18 |
| 19 | 852-630 | PAWL | 1 | | CALL |
| 20 | 852-304 | PAWL LOCK | 1 | | CALL |
| 21 | 847-926 | STEP COLLAR | 1 | | \$13.79 |
| 22 | 250-400 | O-RING 12X3.5 | 1 | | \$3.32 |
| 23 | 852-520 | LOCK LEVER | 1 | | \$4.21 |
| 24 | 845-560 | LOCKING ELEMENT | 1 | | \$2.40 |
| 25 | 852-094 | STARTER ROPE 5.5X30000 | NBf | | \$106.51 |
| 26 | 810-866 | CONNECTING FLANGE | 1 | | \$106.40 |
| 27 | 241-231 | ALLEN SCREW M6X16 | 4 | | \$1.40 |
| 28 | 941-256 | TAPTITE SCREW M6X20 T | 4 | | \$2.04 |

- Items not illustrated

- a starter rope 1700 mm
- b starter rope 2600 mm
- c starter rope 3200 mm
- d starter rope 3700 mm
- e starter rope 2200 mm
- f in a roll.

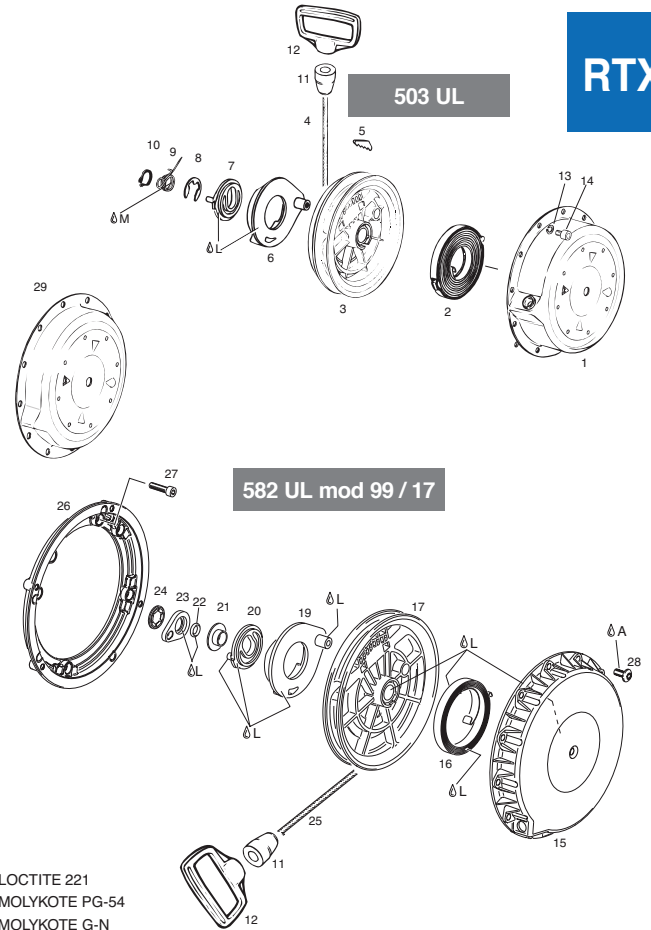
g modified rope fixation: knot instead of key clamp (from S/N 5.742.150)

NOTICE when using new rewind starter without knot use new rope sheave (17)



- Δ A: LOCTITE 221
- Δ B: LOCTITE 243
- Δ C: LOCTITE 648

RTX



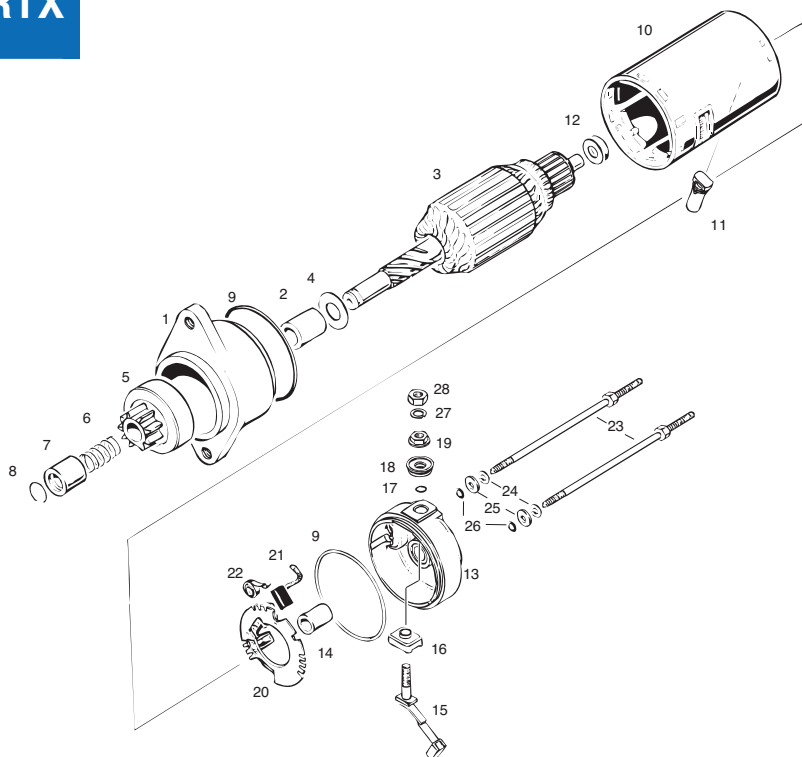
- Δ A: LOCTITE 221
- Δ L: MOLYKOTE PG-54
- Δ M: MOLYKOTE G-N

ROTAX 503, 582 UL 99/17 MAGNETO END STARTER PARTS

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|---------------------------|-----------|-----|----------|
| | | | 503 | 582 | |
| 2 | 852-378 | STARTER GEAR ADAPTER | | 1b | \$135.98 |
| 3 | 834-053 | STARTER GEAR 61 T. | 1 | 1 | \$299.19 |
| 5 | 250-311 | WASHER 8,4 DIN 125 | 3 | 3 | \$0.41 |
| 6 | 945-752 | LOCK WASHER A8 | 3 | 3 | \$0.21 |
| 8 | 940-616 | HEX. SCREW M8X40 | | 3 | \$1.61 |
| 9 | 910-731 | STARTER COVER | 1 | 1 | \$442.53 |
| 10 | 850-390 | O-RING 60-4 | 1 | 1 | \$9.83 |
| 11 | 995-430 | ELECTRIC STARTER ASSEMBLY | 1 | 1 | \$810.84 |
| 12 | 841-950 | STUD M8X43/23 | 2 | 2 | \$11.26 |
| 13 | 966-031 | MASS CABLE 80 MM ASSEMBLY | 1 | 1 | \$36.99 |
| 14 | 944-038 | WASHER 8,4/14/1 | 1 | 1 | \$1.40 |
| 15 | 942-030 | LOCK NUT M8 | 2c | 2c | \$2.40 |
| 16 | 850-585 | O-RING 8X5 | 2 | 2 | \$4.59 |
| 17 | 230-260 | O-RING 6X3 | 10 | 10 | \$4.26 |
| 18 | 850-580 | O-RING 8X4 | 2 | 2 | \$4.42 |
| 19 | 850-590 | O-RING 16-4 | 2 | 2 | \$4.99 |
| 20 | 827-910 | WASHER 8,2/26,3/2 | 2 | 2 | \$3.85 |
| 21 | 942-030 | LOCK NUT M8 | 2c | 2c | \$2.40 |
| 23 | 945-751 | LOCK WASHER A6 DIN 128 | 4 | | \$0.21 |
| 24 | 241-816 | ALLEN SCREW M6X40 DIN 912 | 4 | | \$1.40 |
| 25 | 445-331 | LOCK WASHER VHZ 6 | 4 | | \$0.57 |
| 26 | 240-631 | HEX. SCREW M6X40 | 4 | | \$1.23 |

Items not illustrated

- a from engine S/N 582 UL mod. 90: 4.015.239
- b from beginning of serial production
- c tighten to leave 1mm distance between starter cover and electric starter
- d at 582UL mod. 90 tunil engine S/N 4.015.238 (without hydro damper assembly)



ROTAX 503, 582 UL 99/17 ELECTRIC STARTER-SINGLE PARTS, CONFIGURATION MAGNETO-SIDE

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------------|-----------|----------|
| 1-26 | 995-430 | SCHRAUBTRIEB-STARTER KPL. | 1 | \$810.84 |
| 1-2 | 866-880 | DRIVE HOUSING ASSEMBLY | 1 | \$196.95 |
| 3 | 866-870 | ROTOR ASSEMBLY | 1 | \$486.61 |
| 4 | 927-057 | THRUST WASHER 15,3/24/1 | 1 | \$5.09 |
| 5 | 866-850 | OVERRUNNING-CLUTCH DRIVE ASSEMBLY | 1 | \$337.66 |
| 6 | 939-030 | SPRING | 1 | \$17.11 |
| 7 | 927-040 | STOP COLLAR | 1 | \$36.78 |
| 8 | 845-360 | CIRCLIP | 1 | \$4.59 |
| 9 | 850-500 | O-RING 62-1,5 | 2 | \$11.38 |
| 10 | 866-860 | YOKE ASSEMBLY | 1 | \$312.02 |
| 11 | 860-600 | VENTING RUBBER | 1 | \$10.99 |
| 12 | 827-600 | SHIM | NB | \$4.95 |
| 15 | 866-892 | CARBON BRUSH WITH SCREW | 1 | \$70.47 |
| 16 | 260-820 | ISOLATING BUSHING | 1 | \$9.66 |
| 17 | 230-530 | O-RING 6X1,7 | 1 | \$2.97 |
| 18 | 260-800 | CONNECTOR SHEATH | 1 | \$8.30 |
| 19 | 242-780 | COMBINED NUT M6 | 1 | \$4.06 |
| 20-22 | 866-890 | BRUSH HOLDER WITH SPRINGS | 1 | \$70.47 |
| 23 | 841-860 | SCREW M5 | 2 | \$19.76 |
| 24 | 945-750 | LOCK WASHER A5 | 2 | \$0.14 |
| 25 | 827-800 | WASHER A 5,5 DIN 6902 | 2 | \$5.99 |
| 26 | 850-510 | O-RING 4,7X1,4 | 2 | \$5.95 |
| 27 | 945-751 | LOCK WASHER A6 DIN 128 | 1 | \$0.21 |
| 28 | 242-211 | HEX.NUT M6 | 1 | \$0.41 |

Items not illustrated

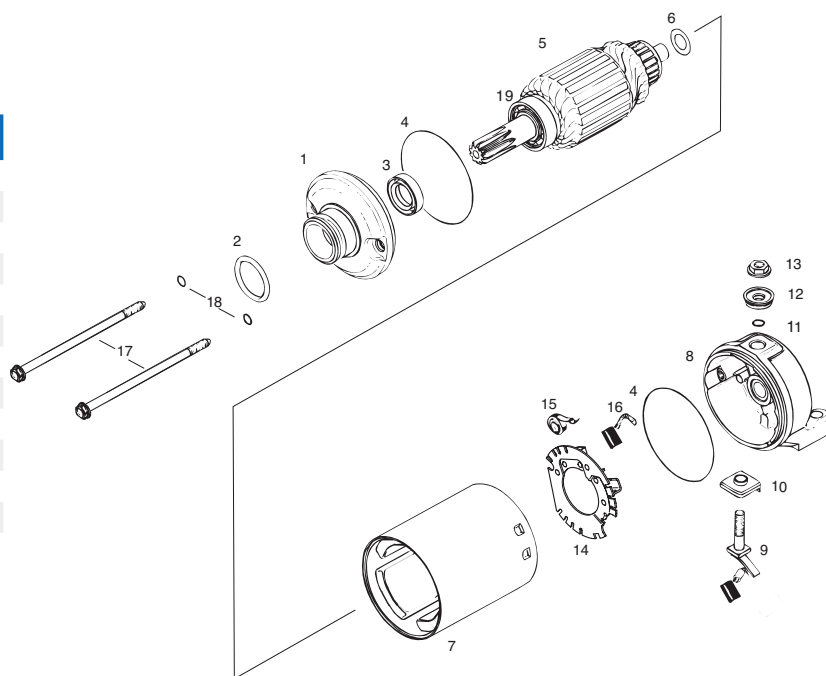
- a bushing, not available as spare part, use drive housing assy. 866-880.
- b end frame with sleeve, not available as spare part, use end frame assy. 866-900.
- c bushing, not available as spare part, use drive housing assy. 866-900.
- d brush, not available as spare part, use brush holder assy. 866-890.
- e spring, not available as spare part, use brush holder assy. 866-890.

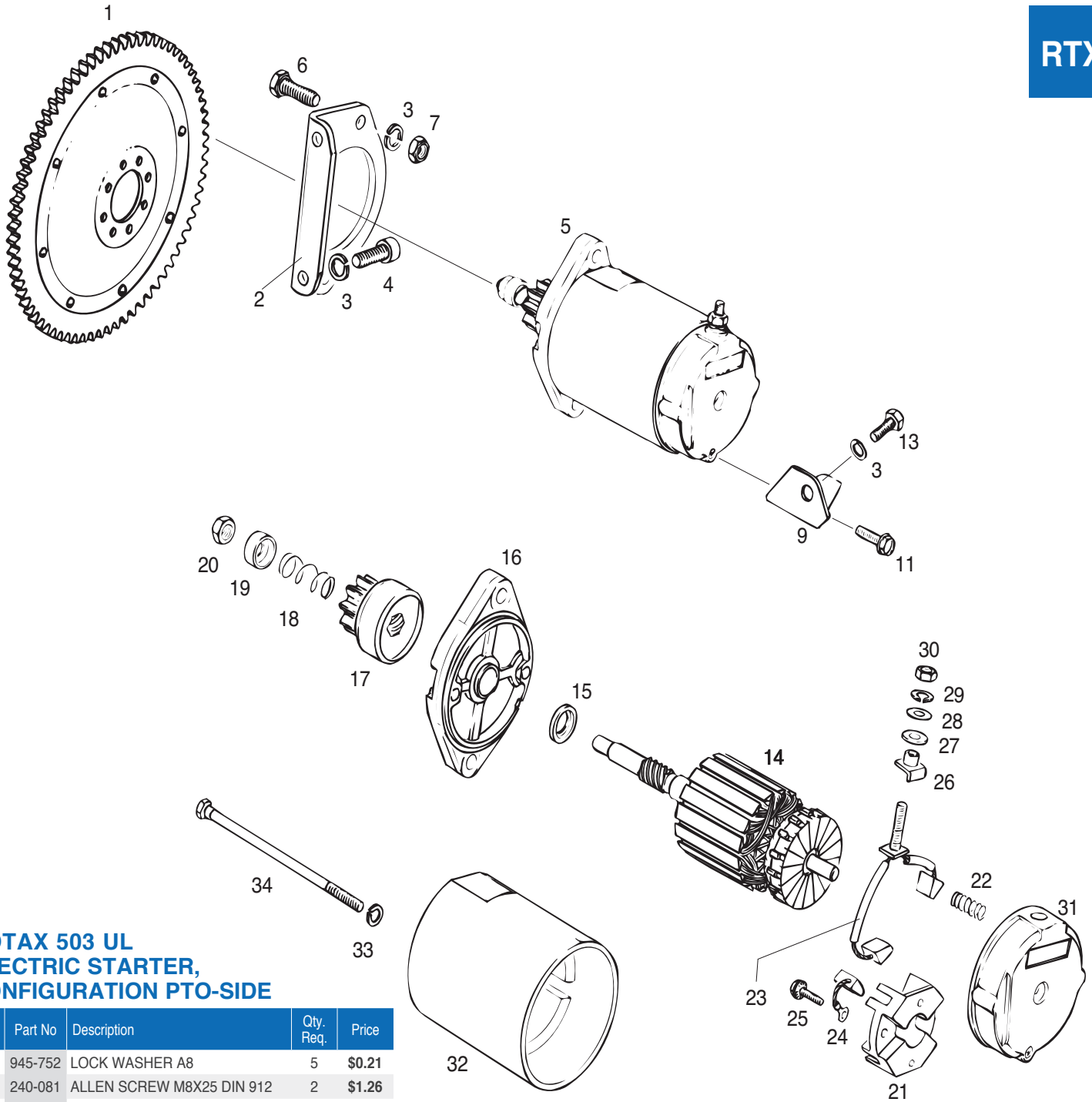
ROTAX 503, 582 UL 99/17 ELECTRIC STARTER-SINGLE PARTS, "E" GEARBOX

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------------|-----------|----------|
| 1-18 | 293-153 | ELECTRIC STARTER ASSEMBLY SUPPORT | 1 | \$853.72 |
| 2 | 250-140 | O-RING DIN 3771-24,4X3,1-N NBR70 | 1 | \$7.14 |
| 3 | 250-130 | OIL SEAL 15X24X5 NBR | 1 | \$22.90 |
| 4 | 850-500 | O-RING 62-1,5 | 2 | \$11.38 |
| 6 | 827-600 | SHIM | NB | \$4.95 |
| 9 | 264-184 | CARBON BRUSH ASSEMBLY | 1 | \$110.04 |
| 10 | 260-810 | CONNECTOR SHEATH | 1 | \$9.66 |
| 11 | 230-530 | O-RING 6X1.7 | 1 | \$2.97 |
| 12 | 260-800 | CONNECTOR SHEATH | 1 | \$8.30 |
| 13 | 242-780 | COMBINED NUT M6 | 1 | \$4.06 |
| 14-16 | 866-891 | BRUSH HOLDER WITH SPRING | 1 | \$70.47 |
| 18 | 850-510 | O-RING 4.7X1.4 | 2 | \$5.95 |
| 19 | 232-260 | B. BEARING R6002 Z | 1 | \$28.05 |

Items not illustrated

- a brush, not available as spare part, use brush holder assy. 866-891





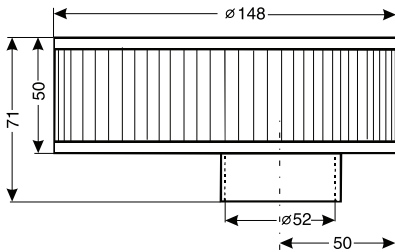
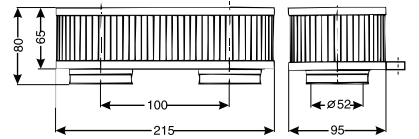
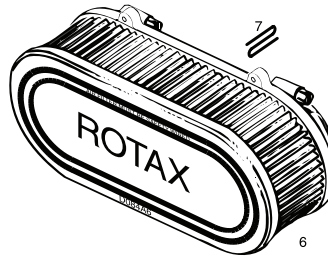
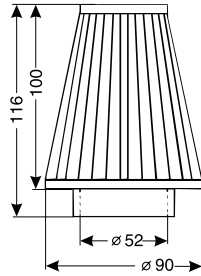
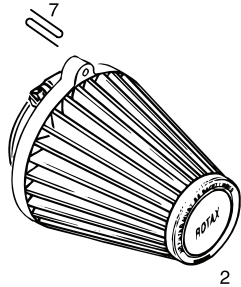
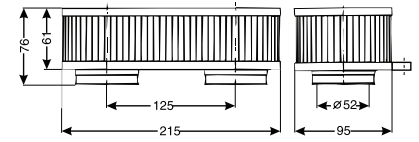
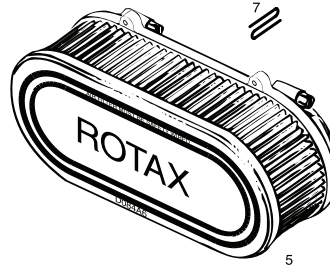
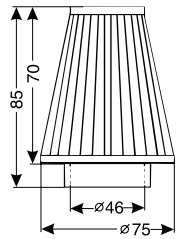
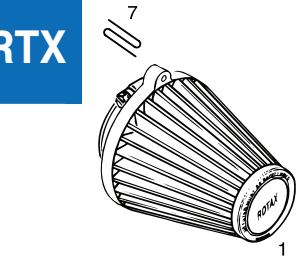
**ROTAX 503 UL
ELECTRIC STARTER,
CONFIGURATION PTO-SIDE**

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------|-----------|---------|
| 3 | 945-752 | LOCK WASHER A8 | 5 | \$0.21 |
| 4 | 240-081 | ALLEN SCREW M8X25 DIN 912 | 2 | \$1.26 |
| 6 | 240-276 | HEX. SCREW M8X25 | 2 | \$1.26 |
| 7 | 242-209 | HEX. NUT M8 | 2 | \$0.56 |
| 9 | 853-775 | STARTER SUPPORT | 1 | CALL |
| 11 | 841-510 | TAPTITE SCREW 1/4-20UNCX3/4 | 1 | \$2.09 |
| 13 | 940-580 | HEX. SCREW M8X16 | 1 | \$1.09 |
| 28 | 244-211 | WASHER 6,4 DIN 134 | 1c | \$0.21 |
| 29 | 945-751 | LOCK WASHER A6 DIN 128 | 1 | \$0.21 |
| 30 | 842-430 | HEX. NUT 1/4 | 1 | \$22.34 |
| 33 | 945-751 | LOCK WASHER A6 DIN 128 | 2 | \$0.21 |
| 34 | 841-395 | HEX. | 2 | \$9.03 |

Items not illustrated

- a with ring gear holder
- b without ring gear holder
- c brush holder, not available as spare part, use end frame assembly 866-555.

RTX

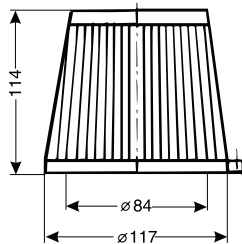
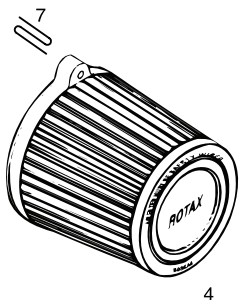


ROTAX 503, 582 UL 99/17 AIR FILTER (SINGLE/DOUBLE)

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|-------------|-----------|--------|---------|
| | | | 503 UL | 582 UL | |
| 2 | 825-551 | AIR FILTER | 1/2a | 2 | \$33.96 |
| 3 | 825-711 | AIR FILTER | 1/2a | 2 | \$45.36 |
| 4 | 825-511 | AIR FILTER | 1b | 1b | \$42.48 |

- Items not illustrated

- a for specific use see filter installation sheet.
- b use at intake silencer version.
- c for 582 UL mod. 90 without fresh oil injection.
- d with fresh oil injection.
- e not as spare part available.



FILTER INSTALLATION SHEET

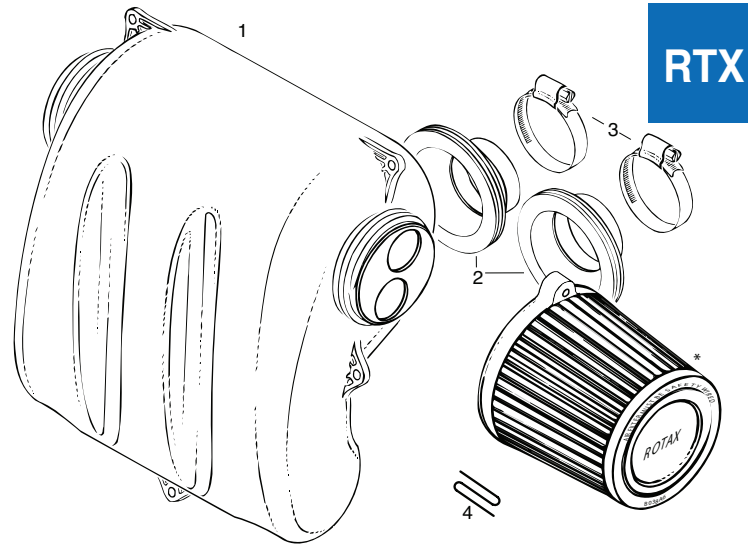
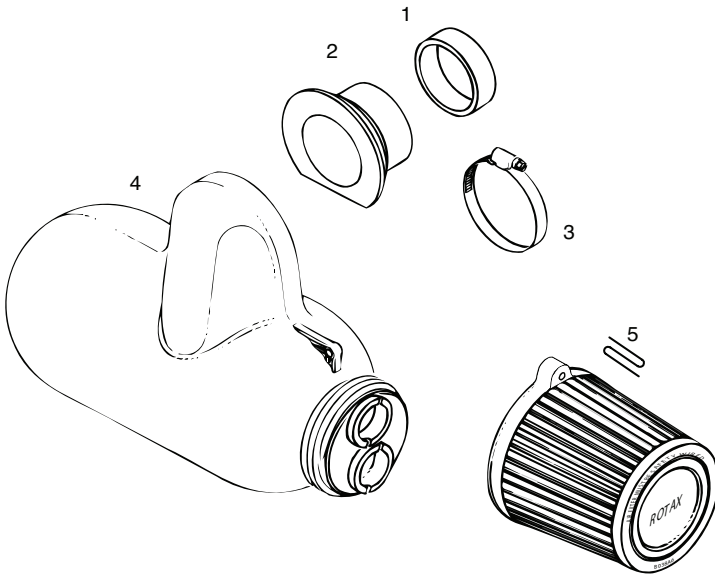
| | 503 UL SCDI | | 582 UL DCDI MOD. 99 / 71 | |
|------------------------|--------------------|---------------|------------------------------------|---------------------------------------|
| | 503 Single Carb | 503 Dual Carb | 582 UL 99 / 17 with Injection Pump | 582 UL 99 / 17 without Injection Pump |
| Single | 825-551 OR 825-711 | | 825-551 OR 825-711 | |
| Double | - | 825-721 | 825-723 | |
| (with intake silencer) | 825-511 | | 825-511 | |

2 STROKE INTAKE SILENCERS

ROTAX 503 UL INTAKE SILENCER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------|-----------|----------|
| 1-4 | 825-760 | INTAKE SILENCER SET 1-V | 1 | \$108.46 |
| 1 | 860-160 | ADAPTOR RING | 1 | \$11.16 |
| 2 | 825-440 | ADAPTOR | 1 | \$51.73 |
| 3 | 951-791 | CLAMP 50-70 | 1 | \$9.34 |
| 4 | 825-337 | INTAKE SILENCER ASSEMBLY | 1 | CALL |

a not as spare part available.



RTX

ROTAX 503, 582 UL 99/17 INTAKE SILENCER

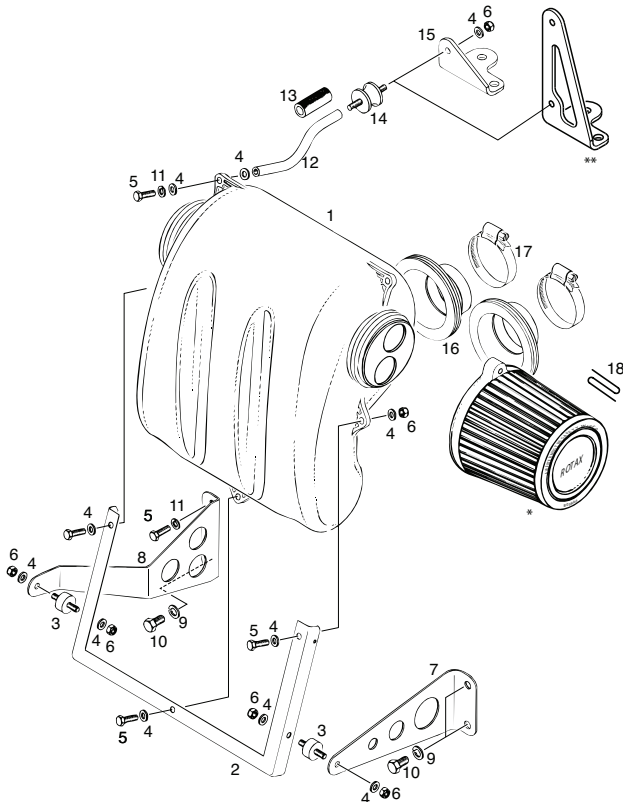
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|----------|--------------------------|-----------|----------|
| 1-3 | 825-762 | INTAKE SILENCER SET 2-V | 1a | \$172.87 |
| 1-3 | 825-764 | INTAKE SILENCER SET 2-V | 1b | \$196.14 |
| 1 | 825-657 | INTAKE SILENCER ASSEMBLY | 1a | \$228.87 |
| 1 | 825-659 | INTAKE SILENCER ASSEMBLY | 1b | \$228.87 |
| 2 | 825-662 | SILENCER SOCKET | 2 | \$51.73 |
| 3 | 951-791 | CLAMP 50-70 | 2 | \$9.34 |
| 4 | 01-15725 | SAFETY WIRE .032 25 FT. | NBc | \$1.25 |

a if installed with filter on top.
b if installed with filter on bottom.
c not as spare part available.

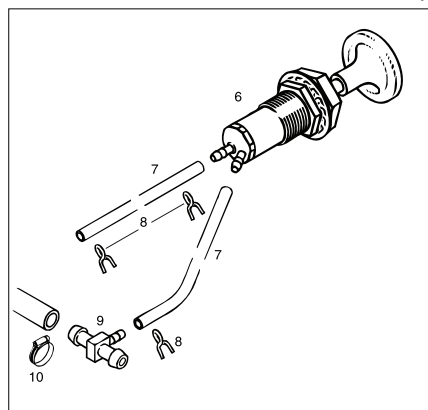
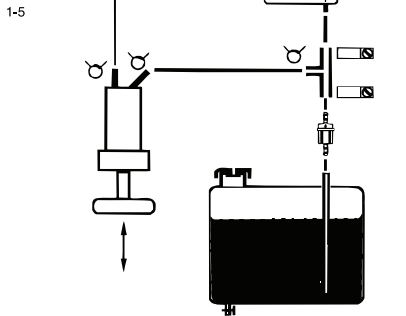
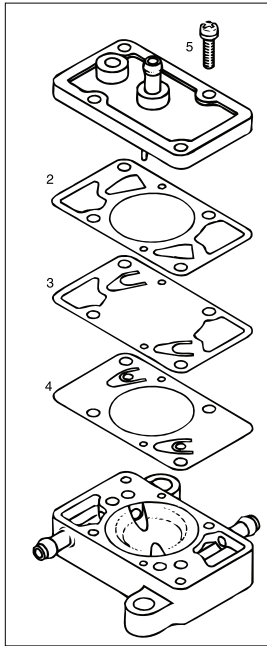
ROTAX 582 UL 99/17 INTAKE SILENCER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|----------|----------------------------------|-----------|----------|
| 1-17 | 825-743 | INTAKE SILENCER SET 2-V | 1 | \$290.16 |
| 1-6 | 825-740 | INTAKE SILENCER W/ FRAME | 1 | \$368.45 |
| 2 | 953-151 | FRAME | 1 | \$136.76 |
| 3 | 860-700 | RUBBER 20X10XM6 | 2 | \$23.11 |
| 4 | 244-213 | WASHER 6,4 | 13 | \$1.00 |
| 5 | 940-563 | HEX. SCREW M6X20 | 5 | \$2.76 |
| 6 | 842-042 | LOCK NUT M6 | 8 | \$2.66 |
| 7 | 953-166 | INTAKE SILENCER BRACKET MS | 1 | \$66.30 |
| 8 | 953-163 | INTAKE SILENCER BRACKET AS | 1 | \$77.28 |
| 9 | 845-382 | LOCK WASHER A8 | 3 | \$1.23 |
| 10 | 940-583 | HEX. SCREW M8X16 STAINLESS STEEL | 3 | \$3.19 |
| 11 | 845-381 | LOCK WASHER A6 | 2 | \$0.57 |
| 12 | 847-608 | DISTANCE BAR | 1 | \$100.16 |
| 13 | 956-236 | PROTECTION HOSE | 1 | \$6.46 |
| 14 | 260-657 | RUBBER BUFFER 25X20XM6 | 1 | \$26.40 |
| 15 | 851-129 | INTAKE SILENCER BRACKET | 1 | \$37.45 |
| 16 | 825-662 | SILENCER SOCKET | 2 | \$51.73 |
| 17 | 951-791 | CLAMP 50-70 | 2 | \$9.34 |
| 18 | 01-15725 | SAFETY WIRE .032 25 FT. | NBa | \$1.25 |

a not as spare part available.



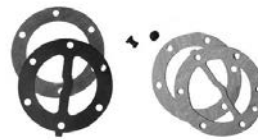
RTX



ROTAX 503 UL SINGLE CARBURETOR FUEL PUMP & PRIMER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------|-----------|----------|
| 1-5 | 994-483 | MIKUNI-FUEL PUMP DF 44-210 | 1a | \$126.14 |
| 2 | 831-936 | COVER GASKET | 1 | \$7.80 |
| 3 | 861-137 | PUMP DIAPHRAGM | 1 | \$5.81 |
| 4 | 861-135 | PUMP CASE GASKET | 1 | \$23.00 |
| 5 | 841-460 | COMBINED SCREW M4X16 | 4 | \$1.79 |
| 6-10 | 861-620 | PRIMER KIT | 1 | \$113.47 |
| 6 | 861-630 | PRIMER PUMP | 1 | \$113.73 |
| 7 | 874-211 | FUEL LINE 3000 MM | 1 | \$33.93 |
| 8 | 938-195 | CLAMP 5 | 8 | \$4.85 |
| 9 | 974-832 | REDUCTION T-PIECE 5-3-5 | 1 | \$13.46 |
| 10 | 951-898 | CLAMP 7-11 | 2 | \$8.64 |

a suitable for 1- and 2 carburetor configuration.

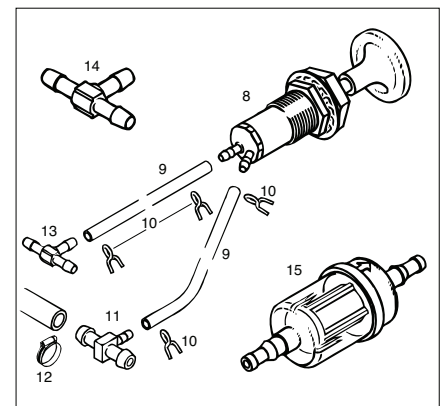
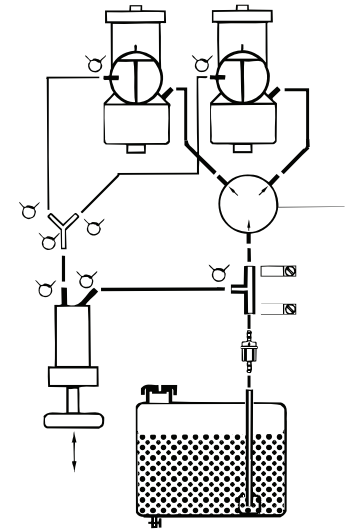
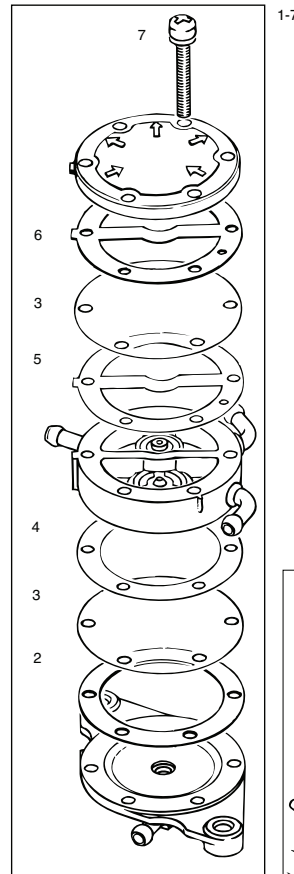


REBUILD KIT AVAILABLE*
Mikuni fuel pump rebuild kit for dual pumps.
P/N 07-01011.....\$13.75

ROTAX 503, 582 UL 99/17 DUAL CARBURETOR FUEL PUMP AND PRIMER

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-------------------------|-----------|----------|
| 1-7 | 994-486 | FUEL PUMP DF 52-48 | 1 | \$162.58 |
| 2 | 850-441 | GASKET | 1 | \$6.39 |
| 3 | 861-210 | DIAPHRAGM | 2 | \$24.80 |
| 4 | 850-445 | GASKET | 1 | \$6.39 |
| 5 | 850-447 | GASKET | 1 | \$9.27 |
| 6 | 850-451 | GASKET | 1 | \$6.49 |
| 7 | 841-035 | COMBINED SCREW M4X28 | 6 | \$1.99 |
| 8-14 | 861-620 | PRIMER KIT | 1 | \$113.47 |
| 8 | 861-630 | PRIMER PUMP | 1 | \$113.73 |
| 9 | 874-211 | FUEL LINE 3000 MM | 1 | \$33.93 |
| 10 | 938-195 | CLAMP 5 | 8 | \$4.85 |
| 11 | 974-832 | REDUCTION T-PIECE 5-3-5 | 1 | \$13.46 |
| 12 | 951-898 | CLAMP 7-11 | 2 | \$8.64 |
| 13 | 974-837 | T-PIECE 3-3-3 | 1 | \$8.25 |
| 14 | 974-830 | T-PIECE 5-5-5 | 1 | \$8.25 |

a mesh size 0,15 mm (0,006 in).



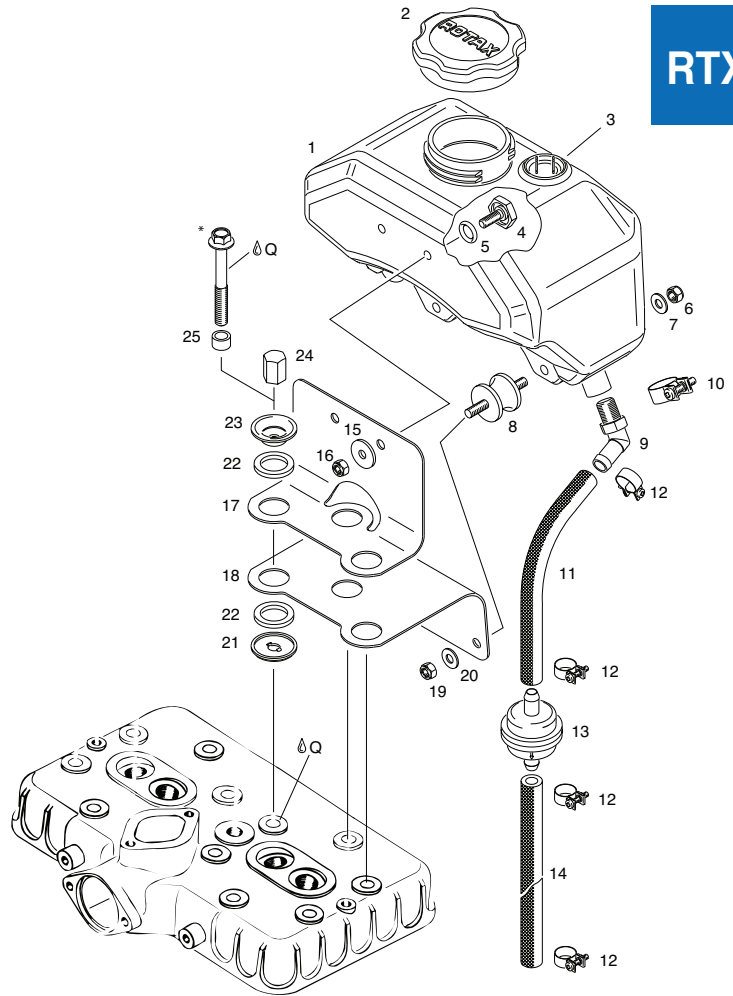
2 STROKE OIL TANK FOR OIL INJECTION

ROTAX 582 UL 99/17 - OIL TANK ASSEMBLY

RTX

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|-----------------------------|-----------|----------|
| 1-16 | 881-460 | OIL TANK SET | 1 | \$169.73 |
| 2 | 874-106 | TANK CAP ASSEMBLY | 1 | \$24.57 |
| 3 | 956-360 | OIL LEVEL INDICATOR | 1 | \$67.86 |
| 4 | 840-160 | TIGHTENING SCREW | 2c | \$14.57 |
| 5 | 430-020 | O-RING 9,3X2,4 | 2c | \$5.52 |
| 6 | 842-042 | LOCK NUT M6 | 2 | \$2.66 |
| 7 | 244-211 | WASHER 6,4 DIN 134 | 2 | \$0.21 |
| 8 | 260-657 | RUBBER BUFFER 25X20XM6 | 2 | \$26.40 |
| 9 | 922-242 | ANGULAR TUBE 1/4-18NPT | 1 | \$18.14 |
| 10 | 853-726 | CLAMP MINI 16 W1 | 1 | \$4.95 |
| 11 | 956-231 | OIL LINE 140 MM | 1 | \$10.92 |
| 12 | 951-260 | CLAMP 14 | 4 | \$4.95 |
| 13 | 956-330 | OIL FILTER | 1 | \$29.35 |
| 14 | 956-233 | OIL LINE 450 MM | 1 | \$27.14 |
| 15 | 227-900 | WASHER 6,2/20/2 | 2 | \$4.59 |
| 16 | 842-042 | LOCK NUT M6 | 2 | \$2.66 |
| 17 | 851-230 | OIL TANK BRACKET UPPER HALF | 1 | \$55.44 |
| 18 | 851-235 | OILTANK BRACKET LOWER HALF | 1 | \$55.44 |
| 19 | 842-042 | LOCK NUT M6 | 2 | \$2.66 |
| 20 | 244-211 | WASHER 6,4 DIN 134 | 2 | \$0.21 |
| 21 | 944-092 | SHIM 8,2 | 3 | \$10.00 |
| 22 | 960-865 | RUBBER WASHER 18/26/3 | 6 | \$1.92 |
| 23 | 827-817 | CUP WASHER | 3 | \$12.95 |
| 25 | 847-796 | SPACER 8,4/12/7,5 | 3b | \$10.84 |

a use at 582 UL mod 90 and 618 UL.
b use at 582 UL mod 99
c not available as spare part, use 881-460



Q: SILASTIC 732 RTV

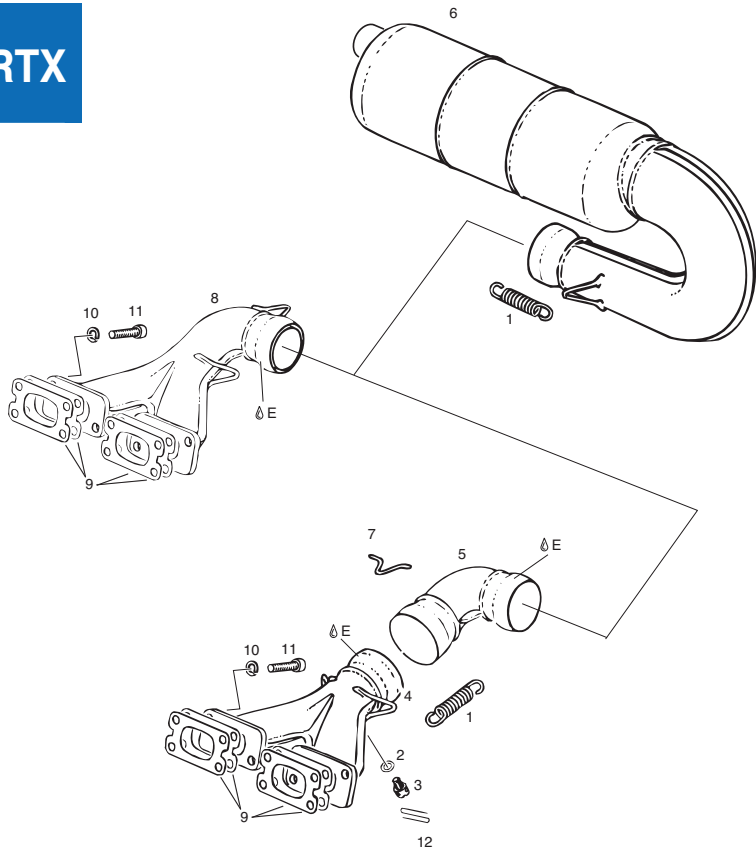
OVERVIEW OF THE EXHAUST SYSTEMS

OVERVIEW SHEET:

| | VERSION | EXHAUST MANIFOLD ASSEMBLY | | | | CONNECTING ELBOW ASSEMBLY | | | | MUFFLER ASSEMBLY | | | | |
|-------------------------------|------------|---------------------------|---------|----------|---------|---------------------------|---------|----------|---------|------------------|---------|----------|---------|----------|
| | | HOOKS | | YES | NO | YES | NO | YES | NO | YES | NO | | | |
| 503 UL DCD1 | SIDEMOUNT | 1 X 90° 2) | 831-849 | \$9.70 | - | - | 973-182 | \$179.70 | 973-180 | \$161.85 | 973-198 | \$540.98 | 973-274 | \$608.13 |
| | 1 X 90° 2) | | | | | | | | | | 973-275 | \$608.13 | | |
| | STRAIGHT | | | | | | | | | | 973-191 | \$497.80 | | |
| 582 UL DCD1 99 / 17 DCDI 48kW | SIDEMOUNT | 1 X 90° 2) | 973-123 | \$255.71 | 973-121 | \$251.07 | 973-182 | \$179.70 | 973-180 | \$161.85 | 973-197 | \$540.98 | 973-274 | \$608.13 |
| | 1 X 90° 2) | | | | | | | | | | 973-275 | \$608.13 | | |
| | STRAIGHT | | | | | | | | | | 973-192 | \$497.80 | | |

1) double wall, noise reduced version)
2) with connecting elbow

| | SPRING | EXHAUST GASKET | GASKET RING A8x13 | CAPSTAN SCREW M8X1X10 |
|-------------------------------|---------|----------------|-------------------|-----------------------|
| 503 UL DCD1 | 938-795 | \$3.39 | 831-849 | \$9.70 |
| 582 UL DCD1 99 / 17 DCDI 48kW | 938-790 | \$7.85 | 850-633 | \$12.66 |
| | | | 950-141 | \$1.30 |
| | | | 941-615 | \$9.18 |

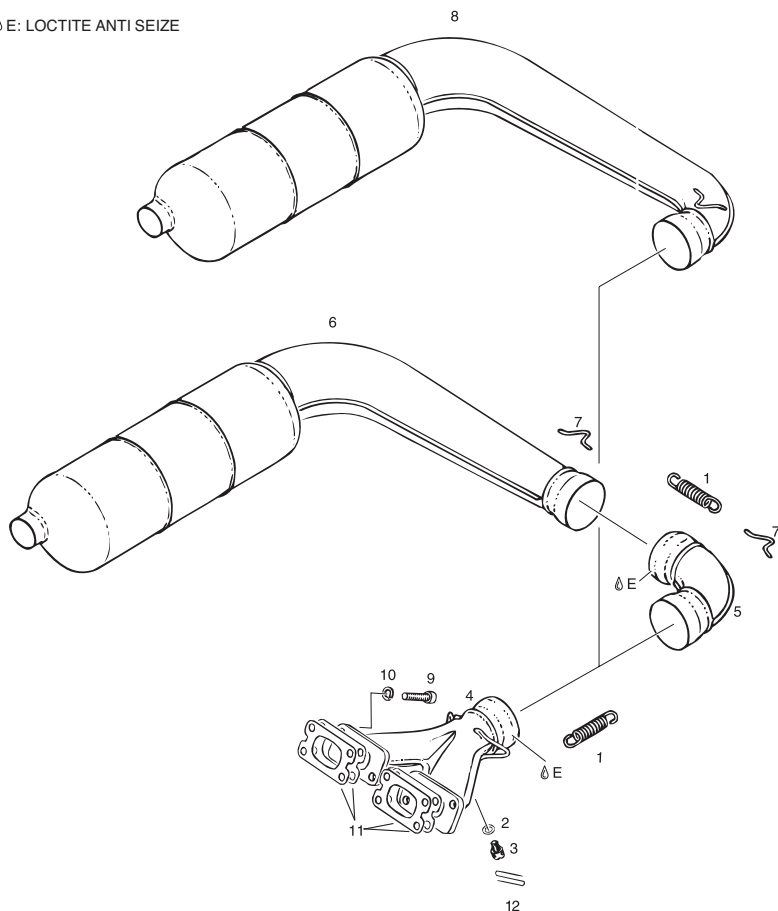


⚡ E: LOCTITE ANTI SEIZE

ROTAX 503, 582 UL 99/17 EXHAUST SYSTEMS CONFIGURATION SIDEMOUNT

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|----------|-----------------------------|-----------|--------|----------|
| | | | 503 UL | 582 UL | |
| 1-6 | 881-662 | EXHAUST ASSORTMENT | 1 | | \$656.57 |
| 1-7 | 881-635 | EXHAUST ASSORTMENT | | 1 | \$656.57 |
| 1 | 938-795 | SPRING 66 MM | 6 | | \$3.39 |
| 1 | 938-790 | RETURN SPRING | | 6 | \$7.85 |
| 2 | 950-141 | GASKET RING A 8X13 DIN 7603 | 2 | 2 | \$1.30 |
| 3 | 941-615 | CAPSTAN SCREW M8X1X10 | 2 | 2 | \$9.18 |
| 4 | 973-121 | EXHAUST MANIFOLD ASSEMBLY | | 1a | \$251.07 |
| 4 | 973-123 | EXHAUST MANIFOLD ASSEMBLY | | 1b | \$255.71 |
| 5 | 973-180 | CONNECTING ELBOW ASSEMBLY | 1a | 1a | \$161.85 |
| 5 | 973-182 | CONNECTING ELBOW ASSEMBLY | 1b | 1b | \$179.70 |
| 6 | 973-198 | MUFFLER ASSEMBLY | | 1b | \$540.98 |
| 6 | 973-197 | MUFFLER ASSEMBLY | | 1a | \$540.98 |
| 7 | 853-355 | HOOK | NB | NB | \$1.92 |
| 9 | 831-849 | GASKET 1,0 MM | 4 | | \$9.70 |
| 9 | 850-633 | GASKET | | 2c | \$12.66 |
| 10 | 945-752 | LOCK WASHER A8 | 4 | 6 | \$0.21 |
| 11 | 840-991 | ALLEN SCREW M8X30 | 4 | 6 | \$1.40 |
| 12 | 01-15725 | SAFETY WIRE .032 25 FT. | NB | NB | \$1.25 |

- a without hooks
- b with hooks
- c see also SI-2ST-002
- d no longer in available



⚡ E: LOCTITE ANTI SEIZE

ROTAX 503, 582 UL 99/17 EXHAUST SYSTEMS CONFIG.: 1 X 90° WITH CONNECTING ELBOW AND 2 X 90°

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|-----------------------------|-----------|--------|----------|
| | | | 503 UL | 582 UL | |
| 1-6 | 881-660 | EXHAUST ASSORTMENT | 1a | | \$656.57 |
| 1-7 | 881-661 | EXHAUST ASSORTMENT | | 1b | \$656.57 |
| 1-7 | 881-633 | EXHAUST ASSORTMENT | | 1a | \$656.57 |
| 1 | 938-795 | SPRING 66 MM | 6 | | \$3.39 |
| 1 | 938-790 | RETURN SPRING | | 6 | \$7.85 |
| 2 | 950-141 | GASKET RING A 8X13 DIN 7603 | 2 | 2 | \$1.30 |
| 3 | 941-615 | CAPSTAN SCREW M8X1X10 | 2 | 2 | \$9.18 |
| 4 | 973-121 | EXHAUST MANIFOLD ASSEMBLY | | 1a | \$251.07 |
| 4 | 973-123 | EXHAUST MANIFOLD ASSEMBLY | | 1b | \$255.71 |
| 5 | 973-180 | CONNECTING ELBOW ASSEMBLY | 1c | 1c | \$161.85 |
| 5 | 973-182 | CONNECTING ELBOW ASSEMBLY | | 1b | \$179.70 |
| 6 | 973-274 | MUFFLER ASSEMBLY | 1c | 1c | \$608.13 |
| 6 | 973-275 | MUFFLER ASSEMBLY | | 1b | \$608.13 |
| 7 | 853-355 | HOOK | NB | AR | \$1.92 |
| 9 | 840-991 | ALLEN SCREW M8X30 | 4 | 6 | \$1.40 |
| 10 | 945-752 | LOCK WASHER A8 | 4 | 6 | \$0.21 |
| 11 | 831-849 | GASKET 1.0 MM | 4 | | \$9.70 |
| 11 | 850-633 | GASKET | | 2d | \$12.66 |

- a hooks (part no. 853355) attached, not welded.
- b hooks (part no. 853355) already welded.
- c without hooks
- d see also SI-2ST-002

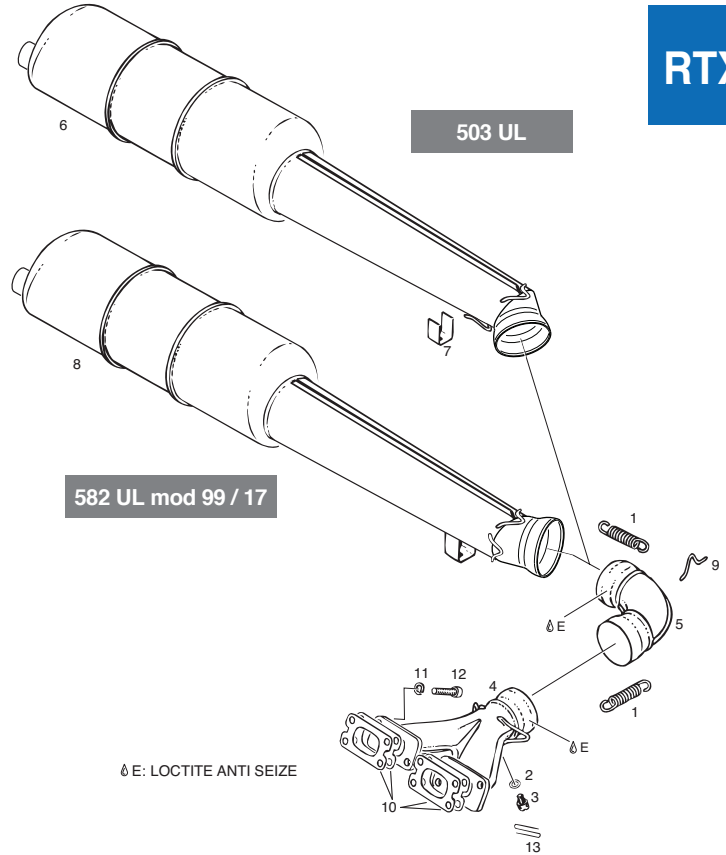
2 STROKE EXHAUST SYSTEMS

RTX

ROTAX 503, 582 UL 99/17 EXHAUST SYSTEM CONFIGURATION: STRAIGHT

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|----------|-----------------------------|-----------|--------|----------|
| | | | 503 UL | 582 UL | |
| 1 | 938-795 | SPRING 66 MM | 6 | | \$3.39 |
| 1 | 938-790 | RETURN SPRING | | 6 | \$7.85 |
| 2 | 950-141 | GASKET RING A 8X13 DIN 7603 | 2 | 2 | \$1.30 |
| 3 | 941-615 | CAPSTAN SCREW M8X1X10 | 2 | 2 | \$9.18 |
| 4 | 973-121 | EXHAUST MANIFOLD ASSEMBLY | | 1a | \$251.07 |
| 4 | 973-123 | EXHAUST MANIFOLD ASSEMBLY | | 1b | \$255.71 |
| 5 | 973-180 | CONNECTING ELBOW ASSEMBLY | 1a | 1a | \$161.85 |
| 5 | 973-182 | CONNECTING ELBOW ASSEMBLY | 1b | 1b | \$179.70 |
| 6 | 973-191 | MUFFLER ASSEMBLY | | 1b | \$497.80 |
| 7 | 951-150 | BRACKET | 2 | | \$11.84 |
| 8 | 973-192 | MUFFLER ASSEMBLY | | 1a | \$497.80 |
| 9 | 853-355 | HOOK | NB | NB | \$1.92 |
| 10 | 831-849 | GASKET 1.0 MM | 4 | | \$9.70 |
| 10 | 850-633 | GASKET | | 2c | \$12.66 |
| 11 | 945-752 | LOCK WASHER A8 | 4 | 6 | \$0.21 |
| 12 | 840-991 | ALLEN SCREW M8X30 | 4 | 6 | \$1.40 |
| 13 | 01-15725 | SAFETY WIRE .032 25 FT. | AR | AR | \$1.25 |

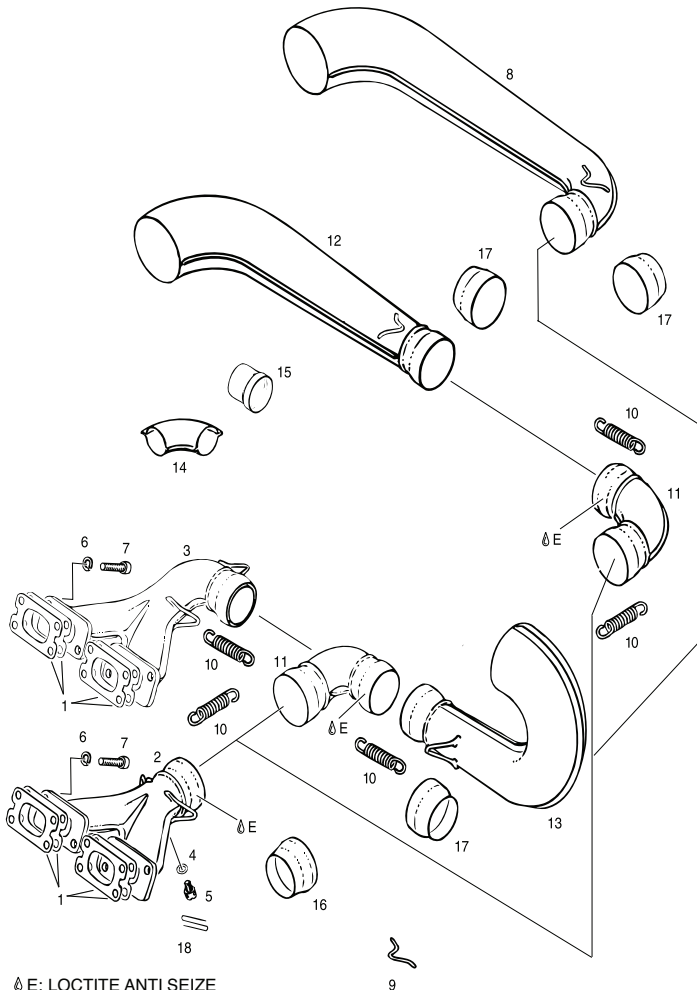
- a without hooks
- b with hooks
- c see SI-2ST-002



ROTAX 503, 582 UL 99/17 EXHAUST SYSTEMS SINGLE PARTS

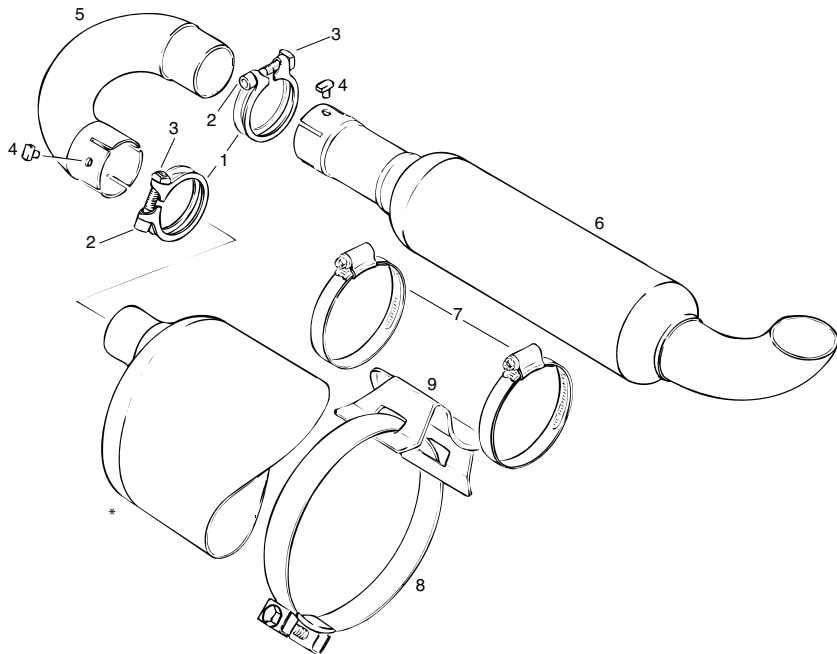
| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|----------|-----------------------------|-----------|--------|----------|
| | | | 503 UL | 582 UL | |
| 1 | 831-849 | GASKET 1,0 MM | 4 | | \$9.70 |
| 1 | 850-633 | GASKET | | 2f | \$12.66 |
| 2 | 973-121 | EXHAUST MANIFOLD ASSEMBLY | | 1a | \$251.07 |
| 2 | 973-123 | EXHAUST MANIFOLD ASSEMBLY | | 1b | \$255.71 |
| 4 | 950-141 | GASKET RING A 8X13 DIN 7603 | 2 | 2 | \$1.30 |
| 5 | 941-615 | CAPSTAN SCREW M8X1X10 | 2 | 2 | \$9.18 |
| 6 | 945-752 | LOCK WASHER A8 | 4 | 6 | \$0.21 |
| 7 | 840-991 | ALLEN SCREW M8X30 | 4 | 6 | \$1.40 |
| 8 | 973-546 | INLET CONE ASSEMBLY | 1b,g,h | | \$228.87 |
| 8 | 973-546 | INLET CONE ASSEMBLY | 1a,g,i | | \$228.87 |
| 9 | 853-355 | HOOK | NB | NB | \$1.92 |
| 10 | 938-795 | SPRING 66 MM | | NB | \$3.39 |
| 10 | 938-790 | RETURN SPRING | | NB | \$7.85 |
| 11 | 973-180 | CONNECTING ELBOW ASSEMBLY | 1a | 1a | \$161.85 |
| 11 | 973-182 | CONNECTING ELBOW ASSEMBLY | 1b | 1b | \$179.70 |
| 12 | 973-546 | INLET CONE ASSEMBLY | | 1b | \$228.87 |
| 13 | 973-544 | INLET CONE ASSEMBLY | | 1a | \$228.87 |
| 14 | 879-920 | OUTLET ELBOW ASSEMBLY | 1 | 1 | \$67.49 |
| 15 | 978-640 | OUTLET TUBE | 1c | 1c | \$22.91 |
| 16 | 878-660 | BALL JOINT | 1d | 1d | \$17.43 |
| 17 | 878-666 | BALL JOINT | 1e | 1e | \$17.68 |
| 18 | 01-15725 | SAFETY WIRE .032 25 FT. | NB | NB | \$1.25 |

- a without hooks
- b with hook
- c for configuration with clamped after muffler.
- d for exhaust manifold
- e for inlet cones
- f see also-SI-2ST-002
- g no longer in production
- h replaced by part no. 973-546 + 973-182
- i replaced by part no. 973-546 + 973-180, hooks have to be ordered separately



Δ E: LOCTITE ANTI SEIZE

RTX



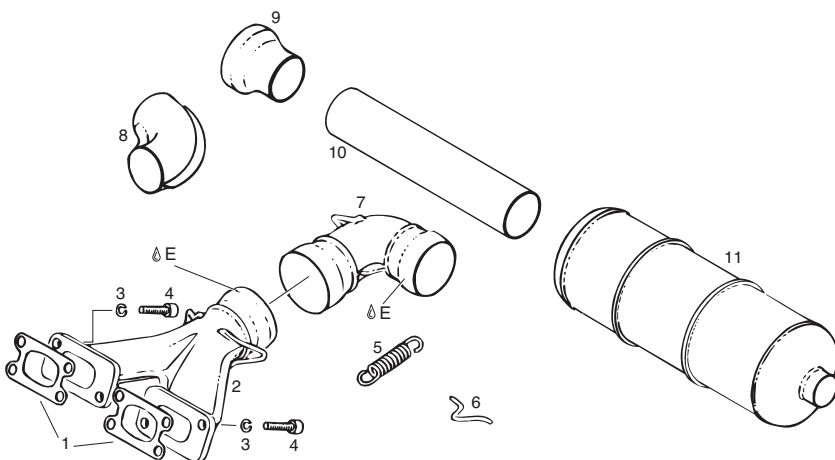
ROTAX 503, 582 UL 99/17 AFTER-MUFFLER ASSEMBLY, CLAMPED CONFIGURATION

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------|-----------|----------|
| 1-9 | 978-650 | AFTER MUFFLER KIT (NEW) | 1 | \$157.14 |
| 1 | 953-251 | CLAMP 42 | 2 | \$11.91 |
| 2 | 241-811 | ALLEN SCREW M6X35 DIN 912 | 2 | \$0.57 |
| 3 | 942-991 | SQUARE NUT M6 | 2 | \$0.57 |
| 4 | 929-921 | SECURITY BOLT | 2 | \$25.70 |
| 5 | 878-407 | ELBOW ASSEMBLY | 1 | \$111.84 |
| 6 | 878-967 | AFTER-MUFFLER ASSEMBLY | 1 | \$238.19 |
| 7 | 851-130 | CLAMP 60-80 | 2 | \$11.69 |
| 8 | 851-140 | HOSE CLAMP 140 | 1 | \$39.33 |
| 9 | 851-150 | MUFFLER HOLDER | 1 | \$77.39 |

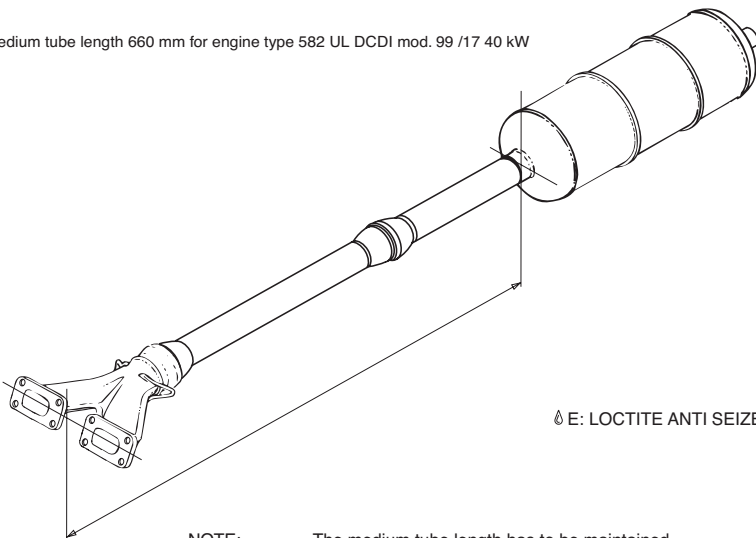
ROTAX 582 UL 99/17 EXHAUST SYSTEM

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|---------------------------|-----------|----------|
| 1 | 850-633 | GASKET | 2c | \$12.66 |
| 2 | 973-121 | EXHAUST MANIFOLD ASSEMBLY | 1a | \$251.07 |
| 2 | 973-123 | EXHAUST MANIFOLD ASSEMBLY | 1b | \$255.71 |
| 3 | 945-752 | LOCK WASHER A8 | 6 | \$0.21 |
| 4 | 840-991 | ALLEN SCREW M8X30 | 6 | \$1.40 |
| 5 | 938-790 | RETURN SPRING | 8 | \$7.85 |
| 6 | 853-355 | HOOK | 16 | \$1.92 |
| 7 | 973-180 | CONNECTING ELBOW ASSEMBLY | 1a | \$161.85 |
| 7 | 973-182 | CONNECTING ELBOW ASSEMBLY | 1b | \$179.70 |
| 8 | 878-677 | BENT TUBE ASSEMBLY | 2 | \$55.39 |
| 9 | 878-666 | BALL JOINT | 1 | \$17.68 |
| 10 | 973-282 | INLET TUBE 500 MM | 1 | \$48.16 |

a without hooks
 b with hook
 c see also-SI-2ST-002



medium tube length 660 mm for engine type 582 UL DCDI mod. 99 /17 40 kW



⊖ E: LOCTITE ANTI SEIZE

NOTE: The medium tube length has to be maintained.
 When using bent tubes, the medium length has to be respected!

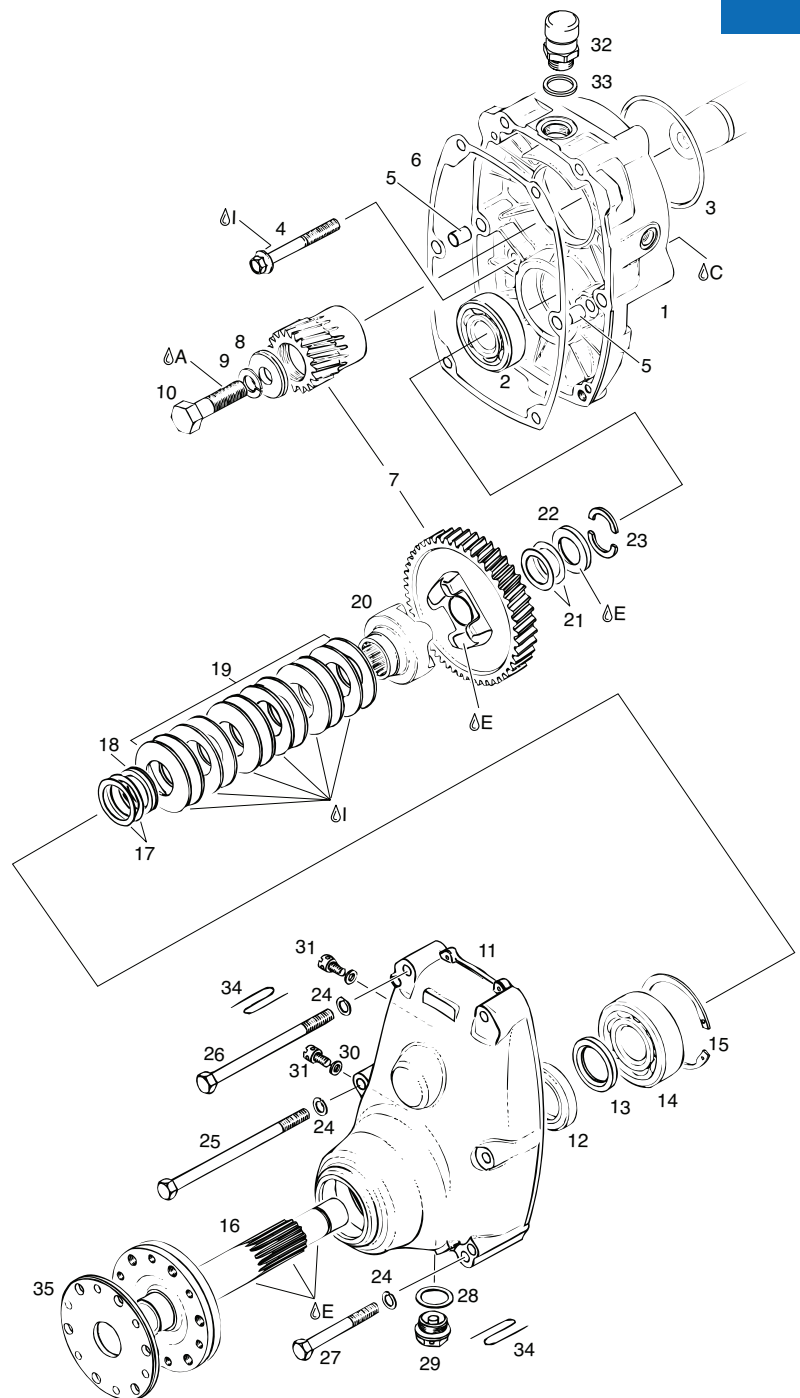
2 STROKE B-GEARBOX

RTX

ROTAX 503, 582 UL 99 / 17 REDUCTION GEARBOX "B": I=2,00, I=2,24 OR I=2,58

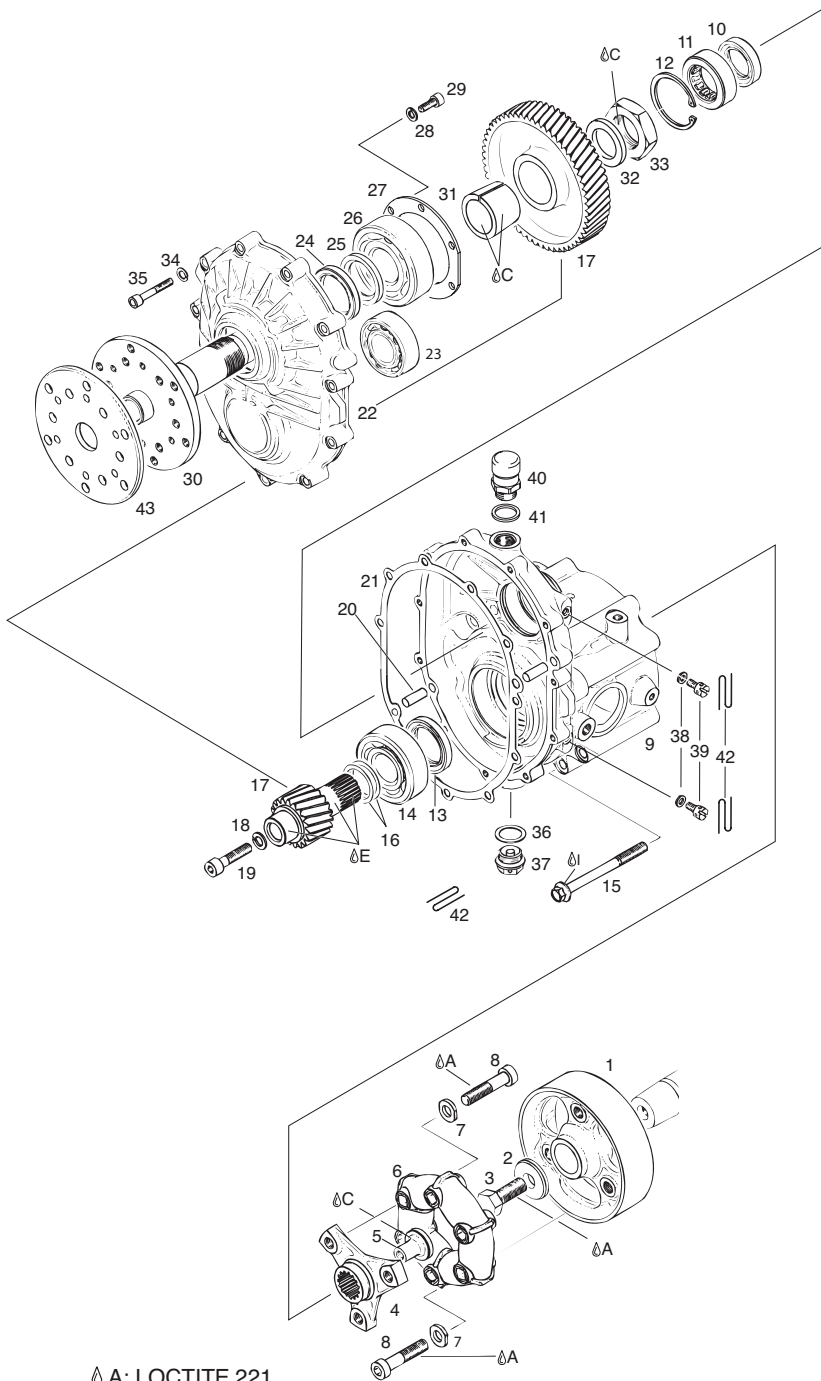
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|----------|---------------------------------|-----------|------------|
| 1-35 | 15-07774 | B GEARBOX ASSEMBLY 1: 2.24 | 1 | \$1,025.00 |
| 1-35 | 15-05342 | B GEARBOX ASSEMBLY 1: 2.53 | 1 | \$1,003.00 |
| 1 | 810-109 | GEAR HOUSING | 1 | \$394.06 |
| 2 | 932-091 | BALL BEARING 6304 C3, 20-52-15 | 1 | \$45.42 |
| 3 | 850-430 | O-RING 75-2.5 | 1 | \$15.58 |
| 4 | 841-306 | COLLAR HEX. SCREW M8X65 SW 11 | 2 | \$4.99 |
| 5 | 929-670 | DOWEL 10X13 | 2 | \$6.97 |
| 6 | 930-536 | GASKET | 1 | \$10.70 |
| 7 | 886-200 | GEAR SET 2,58 | 1a | \$475.15 |
| 7 | 886-202 | GEAR SET 2,24 | 1b | \$581.75 |
| 7 | 886-204 | GEAR SET 2,00 | 1c | \$519.79 |
| 8 | 827-786 | WASHER 13/34/5 | 1 | \$20.07 |
| 9 | 945-765 | LOCK WASHER VHV 13 | 1 | \$1.76 |
| 10 | 841-656 | HEX. SCREW 1/2-20UNFX2 | 1 | \$9.47 |
| 11 | 910-373 | GEAR COVER | 1 | \$388.73 |
| 12 | 850-055 | OIL SEAL 30X47X7/7,5 | 1 | \$31.50 |
| 13 | 827-851 | DISTANCE RING 26/36/4,5 | 1 | \$17.64 |
| 14 | 932-820 | BALL BEARING 6305 C3 / 25-62-17 | 1 | \$59.70 |
| 15 | 445-070 | RETAINING RING 62X2 | 1 | \$4.95 |
| 16 | 837-024 | PROPELLER SHAFT | 1 | \$345.16 |
| 17 | 944-470 | SHIM 25,5/34/O,2 | NB | \$2.28 |
| 17 | 944-471 | SHIM 25,5/34/O,3 | NB | \$1.92 |
| 17 | 944-472 | SHIM 25,5/34/O,5 | NB | \$1.92 |
| 17 | 944-473 | SHIM 25,5/34/1 | NB | \$1.92 |
| 17 | 944-474 | SHIM 25,5/34/0,1 | NB | \$1.92 |
| 18 | 847-621 | DISTANCE RING 25,2/33/4,5 | 1 | \$26.48 |
| 19 | 939-020 | DISK SPRING B50 | 12 | \$5.69 |
| 20 | 958-771 | DOG HUB | 1 | \$136.89 |
| 21 | 944-469 | THRUST WASHER 20,5/30/0,8 | 2 | \$2.28 |
| 22 | 827-841 | ANGULAR RING | 1 | \$20.56 |
| 23 | 827-862 | RING HALF | 2 | \$30.55 |
| 24 | 945-752 | LOCK WASHER A8 | 6 | \$0.21 |
| 25 | 941-350 | HEX. SCREW M8X125 | 2 | \$6.39 |
| 26 | 941-171 | HEX. SCREW M8X110 | 2 | \$3.45 |
| 27 | 841-301 | HEX. SCREW M8X65 | 2 | \$1.97 |
| 28 | 552-280 | GASKET RING 18, 2/24/1 | 1 | \$2.76 |
| 29 | 840-270 | MAGNETIC PLUG M18X1.5 | 1 | \$29.44 |
| 30 | 230-415 | GASKETRING A 6X10 DIN 7603 | 2 | \$1.40 |
| 31 | 841-781 | CAPSTAN SCREW M6X10 | 2 | \$5.61 |
| 32 | 941-115 | AIR VENT SCREW M18X1,5 | 1 | \$18.11 |
| 33 | 931-200 | GASKET RING 18, 2/22/2 | 1 | \$3.17 |
| 34 | 01-15725 | SAFETY WIRE .032 25 FT. | NB | \$1.25 |
| 35 | 827-830 | COVER WASHER | 1 | \$49.34 |

a exchange drive gear 19 T and dog gear 49 T only together.
b exchange drive gear 21 T and dog gear 47 T only together.
c exchange drive gear 20 T and dog gear 40 T only together.



- Ⓐ: LOCTITE 221 - P/N 899-785
- Ⓒ: LOCTITE 648 - P/N 899-788
- Ⓔ: LOCTITE ANTI SIZE - P/N 297-434
- Ⓘ: LITHIUM-BASE GREASE - P/N 897-330

ROTAX 503, 582 UL 99/17 REDUCTION GEARBOX "C": I=2,62, I=3,00, I=3,47 OR I=4,00



- ⚠ A: LOCTITE 221
- ⚠ C: LOCTITE 648
- ⚠ E: LOCTITE ANTI SIZE
- ⚠ I: LITHIUM-BASE GREASE

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|----------|---------------------------------|-----------|----------|
| 1 | 958-981 | FLY WHEEL | 1 | \$205.96 |
| 2 | 827-786 | WASHER 13/34/5 | 1 | \$20.07 |
| 3 | 841-651 | HEX. SCREW 1/2-20UNFX1 3/16 | 1 | \$7.14 |
| 4 | 958-971 | COUPLING FLANGE | 1f | \$238.85 |
| 5 | 842-661 | NUT M8 | 1 | \$28.01 |
| 6 | 958-964 | RUBBER COUPLING | 1 | \$190.57 |
| 7 | 944-120 | WASHER | 6 | \$4.54 |
| 8 | 841-820 | ALLEN SCREW M10X45 | 6 | \$4.37 |
| 9 | 810-012 | GEAR BOX HOUSING | 1 | \$466.49 |
| 10 | 930-675 | OIL SEAL 25X38X7 | 1 | \$25.94 |
| 11 | 232-285 | ROLLER BEARING 26,5-47-14 | 1 | \$115.08 |
| 12 | 945-690 | RETAINING RING 47X1,75 | 1 | \$3.85 |
| 13 | 950-084 | OIL SEAL A 32X47X7 | 1g | \$71.37 |
| 13 | 950-084 | OIL SEAL 32X47X7 | 1f | \$71.37 |
| 14 | 932-820 | BALL BEARING 6305 C3 / 25-62-17 | 1 | \$59.70 |
| 15 | 440-366 | COLLAR HEX. SCREW M8X90 A/F 11 | 8 | \$5.47 |
| 16 | 427-021 | SHIM 26,5/34/0,2 | NB | \$1.76 |
| 17 | 886-280 | GEAR SET I 2,62 | 1ah | \$649.56 |
| 17 | 886-282 | GEAR SET I 3,0 | 1bh | \$701.88 |
| 17 | 886-284 | GEAR SET I 3,47 | 1ch | \$701.88 |
| 18 | 845-310 | LOCK WASHER VHZ 8 | 1 | \$0.41 |
| 19 | 841-591 | ALLEN SCREW M8X35 | 1 | \$1.40 |
| 20 | 929-940 | PIN 8X20 | 2 | \$4.06 |
| 21 | 950-211 | GASKET | 1 | \$14.45 |
| 22 | 810-021 | GEAR COVER | 1 | \$657.22 |
| 23 | 932-420 | BALL BEARING 6205 C3, 25-52-15 | 2 | \$40.77 |
| 24 | 930-715 | OIL SEAL 35X47X7 | 1 | \$31.50 |
| 25 | 944-111 | DISTANCE RING 31/44/4,5 | 1 | \$26.28 |
| 26 | 932-570 | BALL BEARING 6306 C3, 30-72-19 | 1 | \$71.95 |
| 27 | 944-106 | SHIM | 1 | \$27.77 |
| 28 | 445-330 | LOCK WASHER VHZ 6 | 4 | \$0.41 |
| 29 | 241-236 | ALLEN SCREW M6X1 | 6 | \$0.66 |
| 30 | 837-185 | PROPELLER SHAFT | 1 | \$440.43 |
| 31 | 847-757 | SPLITTED CONE SLEEVE 10 | 1h | \$182.69 |
| 32 | 926-200 | MASSIVE WASHER 30 | 1 | \$9.85 |
| 33 | 842-579 | HEX. NUT M30X1.5 12MM, LH | 1e | \$17.11 |
| 34 | 945-751 | LOCK WASHER A6 DIN 128 | 11 | \$0.21 |
| 35 | 840-880 | ALLEN SCREW M6X30 DIN 912 | 11 | \$0.57 |
| 36 | 552-280 | GASKET RING 18,2/24/1 | 1 | \$2.76 |
| 37 | 840-270 | MAGNETIC PLUG M18X1,5 | 1 | \$29.44 |
| 38 | 230-415 | SEALING RING A 6X10 DIN 7603 | 2 | \$1.40 |
| 39 | 841-781 | CAPSTAN SCREW M6X10 | 2 | \$5.61 |
| 40 | 941-115 | AIR VENT SCREW M18X1,5 | 1 | \$18.11 |
| 41 | 931-200 | GASKET RING 18,2/22/2 | 1 | \$3.17 |
| 42 | 01-15725 | SAFETY WIRE .032 25 FT. | NB | \$1.25 |
| 43 | 944-140 | COVER WASHER | 1 | \$70.47 |

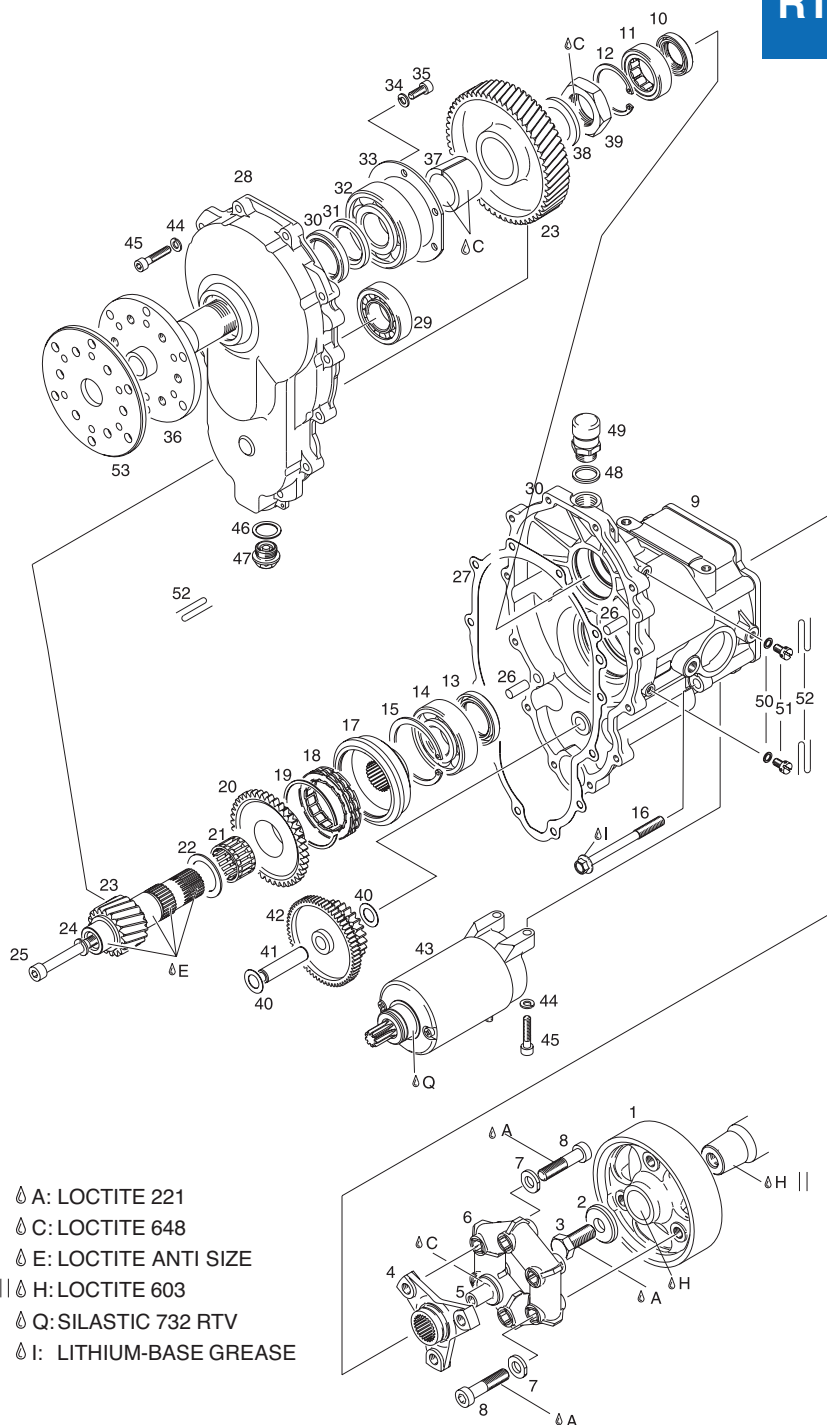
- a replace layshaft gear 55 T and pinion shaft 21 T only together.
- b replace layshaft gear 57 T and pinion shaft 19 T only together.
- c replace layshaft gear 59 T and pinion shaft 17 T only together.
- d replace layshaft gear 60 T and pinion shaft 15 T only together.
- e NOTICE left-hand thread.
- f coupling-flange 958-971 and oil-seal 950-084 has to be used together!
- g coupling-flange 958-970 and oil-seal 950-085 has to be used together!
- h gear set and splitted cone sleeve 847-757 has to be used together!
see also SI-2ST-007

2 STROKE E-GEARBOX

RTX

ROTAX 503, 582 UL 99/17 REDUCTION GEARBOX "E": I=2,62, I=3,00, I=3,47 OR I=4,00

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|----------|---------------------------------|-----------|------------|
| 1-53 | 15-07816 | E GEARBOX ASSEMBLY 1: 3.00 | 1 | \$1,995.00 |
| 1-53 | 15-07817 | E GEARBOX ASSEMBLY 1: 3.47 | 1 | \$2,150.20 |
| 1-53 | 15-07818 | E GEARBOX ASSEMBLY 1: 4.00 | 1 | \$2,248.00 |
| 1 | 958-981 | FLY WHEEL | 1 | \$205.96 |
| 2 | 827-786 | WASHER 13/34/5 | 1 | \$20.07 |
| 3 | 841-651 | HEX. SCREW 1/2-20UNFX1 3/16 | 1 | \$7.14 |
| 4 | 958-971 | COUPLING FLANGE | 1f | \$238.85 |
| 5 | 842-661 | NUT M8 | 1 | \$28.01 |
| 6 | 958-964 | RUBBER COUPLING | 1 | \$190.57 |
| 7 | 944-120 | WASHER | 6 | \$4.54 |
| 8 | 841-820 | ALLEN SCREW M10X45 | 6 | \$4.37 |
| 9 | 810-351 | GEARBOX HOUSING | 1 | \$1,380.49 |
| 10 | 930-675 | OIL SEAL 25X38X7 | 1 | \$25.94 |
| 11 | 232-285 | ROLLER BEARING 26,5-47-14 | 1 | \$115.08 |
| 12 | 945-690 | RETAINING RING 47X1,75 | 1 | \$3.85 |
| 13 | 950-084 | OIL SEAL 32X47X7 | 1f | \$71.37 |
| 14 | 932-820 | BALL BEARING 6305 C3 / 25-62-17 | 1 | \$59.70 |
| 15 | 445-070 | RETAINING RING 62X2 | 1 | \$4.95 |
| 16 | 440-366 | COLLAR HEX. SCREW M8X90 A/F 11 | 8 | \$5.47 |
| 17 | 852-430 | SPRAG CLUTCH HOUSING | 1 | \$276.19 |
| 18 | 259-077 | SPRAG CLUTCH 45,665X62,332X13 | 1 | \$286.65 |
| 19 | 245-620 | SNAPRING 62 | 1 | \$5.13 |
| 20 | 834-280 | FREE WHEEL GEAR 42 T | 1 | \$266.83 |
| 21 | 832-410 | NEEDL CAGE K 28X34X20H | 1 | \$60.07 |
| 22 | 427-236 | THRUST WASHER 28,25/39,8/1,5 | 1 | \$3.61 |
| 23 | 886-751 | GEAR SET I 2,62 | 1ah | \$596.57 |
| 23 | 886-753 | GEAR SET I 3,0 | 1bh | \$787.31 |
| 23 | 886-755 | GEAR SET I 3,47 | 1ch | \$787.31 |
| 23 | 886-757 | GEAR SET I 4,0 | 1dh | \$787.31 |
| 24 | 845-310 | LOCK WASHER VHZ 8 | 1 | \$0.41 |
| 25 | 440-217 | ALLEN SCREW M8X80 DIN 912 | 1 | \$3.81 |
| 26 | 929-940 | PIN 8X20 | 2 | \$4.06 |
| 27 | 950-215 | GASKET | 1 | \$16.60 |
| 28 | 810-361 | GEAR COVER | 1 | \$819.00 |
| 29 | 232-242 | ZR-BEARING NJ 205 E JP1 | 1 | \$159.89 |
| 30 | 930-715 | OIL SEAL 35X47X7 | 1 | \$31.50 |
| 31 | 944-111 | DISTANCE RING 31/44/4,5 | 1 | \$26.28 |
| 32 | 932-570 | BALL BEARING 6306 C3, 30-72-19 | 1 | \$71.95 |
| 33 | 944-106 | SHIM | 1 | \$27.77 |
| 34 | 445-330 | LOCK WASHER VHZ 6 | 6 | \$0.41 |
| 35 | 241-236 | ALLEN SCREW M6X16 | 6 | \$0.66 |
| 36 | 837-185 | PROPELLER SHAFT | 1 | \$440.43 |
| 37 | 847-757 | SPLITTED CONE SLEEVE 10 | 1h | \$182.69 |
| 38 | 926-200 | MASSIVE WASHER 30 | 1 | \$9.85 |
| 39 | 842-579 | HEX. NUT M30X1.5 12MM, LH | 1e | \$17.11 |
| 40 | 227-450 | THRUST WASHER 12,5/21,5/0,5 | 2 | \$3.17 |
| 41 | 837-301 | IDLE GEAR SHAFT | 1 | \$25.82 |
| 42 | 834-290 | IDLE GEAR 62/25 Z | 1 | \$296.46 |
| 43 | 293-153 | ELECTRIC STARTER ASSEMBLY | 1 | \$853.72 |
| 44 | 945-751 | LOCK WASHER A6 DIN 128 | 14 | \$0.21 |
| 45 | 840-880 | ALLEN SCREW M6X30 DIN 912 | 14 | \$0.57 |
| 46 | 552-280 | GASKET RING 18,2/24/1 | 1 | \$2.76 |
| 47 | 840-270 | MAGNETIC PLUG M18X1,5 | 1 | \$29.44 |
| 48 | 931-200 | GASKET RING 18,2/22/2 | 1 | \$3.17 |
| 49 | 941-115 | AIR VENT SCREW M18X1,5 | 1 | \$18.11 |
| 50 | 230-415 | SEALING RING A 6X10 DIN 7603 | 2 | \$1.40 |
| 51 | 841-781 | CAPSTAN SCREW M6X10 | 2 | \$5.61 |
| 52 | 01-15725 | SAFETY WIRE .032 25 FT. | NB | \$1.25 |
| 53 | 944-140 | COVER WASHER | 1 | \$70.47 |



- △ A: LOCTITE 221
- △ C: LOCTITE 648
- △ E: LOCTITE ANTI SIZE
- || △ H: LOCTITE 603
- △ Q: SILASTIC 732 RTV
- △ I: LITHIUM-BASE GREASE

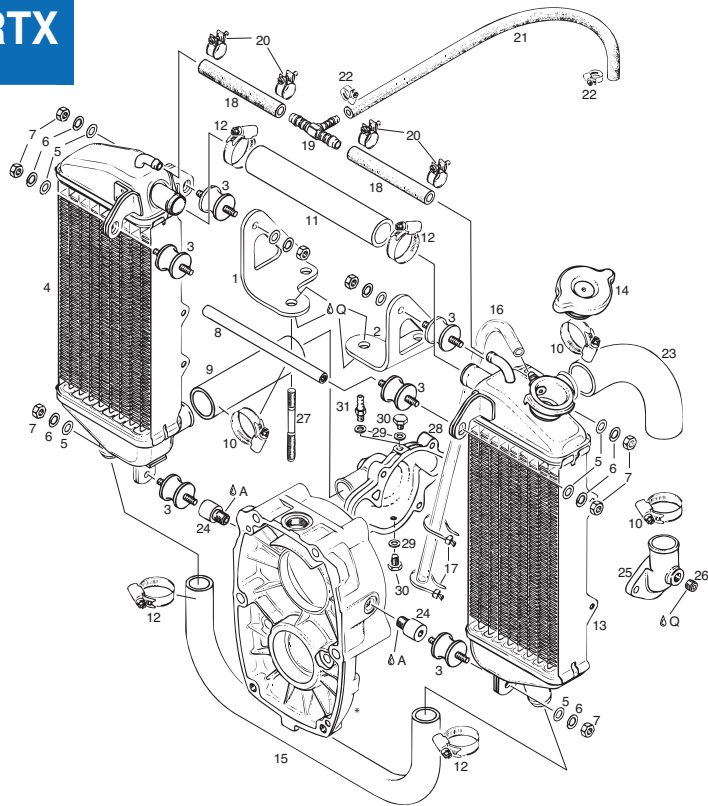
- a replace layshaft gear 55 T and pinion shaft 21 T only together.
 - b replace layshaft gear 57 T and pinion shaft 19 T only together.
 - c replace layshaft gear 59 T and pinion shaft 17 T only together.
 - d replace layshaft gear 60 T and pinion shaft 15 T only together.
 - e NOTICE left-hand thread.
 - f coupling flange 958-971 and sealing ring 950-084 has to be used as a set.
 - g coupling flange 958-970 and sealing ring 950-085 has to be used as a set.
 - h gear set and splitted cone sleeve 847-757 has to be used together!
- NOTE: Included starter relay.
see also SI-2ST-007



2 STROKE RADIATORS

RTX

ROTAX 582 UL 99/17 2-PIECE RADIATOR SET (LOW CONFIGURATION)



Δ A: LOCTITE 221
Δ Q: SILASTIC 732 RTV

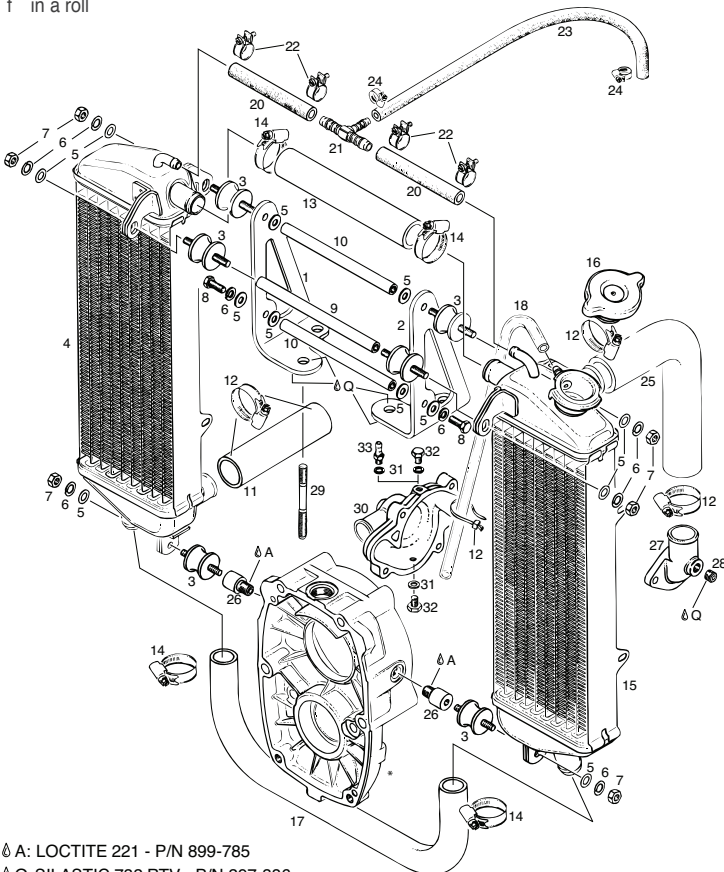
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1-23 | 881-433 | RADIATOR SET (was 881-410) | 1 | \$885.04 |
| 1 | 851-120 | RADIATOR BRACKET RIGHT | 1 | \$42.55 |
| 2 | 851-125 | RADIATOR BRACKET LEFT | 1 | \$42.55 |
| 3 | 260-657 | RUBBER BUFFER 25X20XM6 | 6 | \$26.40 |
| 5 | 244-211 | WASHER 6,4 DIN 134 | 8 | \$0.21 |
| 6 | 945-751 | LOCK WASHER A6 DIN 128 | 8 | \$0.21 |
| 7 | 242-211 | HEX.NUT M6 | 8 | \$0.41 |
| 8 | 847-600 | DISTANCE TUBE | 1 | \$45.68 |
| 9 | 922-115 | CONNECTING HOSE 110 MM | 1 | \$31.41 |
| 10 | 951-880 | CLAMP 20-32 | 4 | \$6.27 |
| 11 | 922-124 | CONNECTING HOSE 150 MM | 1 | \$20.91 |
| 12 | 951-870 | CLAMP 16-25 | 4 | \$5.97 |
| 14 | 922-075 | RADIATOR CAP WITH GASKET 1,2 BAR | 1 | \$78.85 |
| 15 | 922-193 | WATER TUBE | 1 | \$91.15 |
| 16 | 974-530 | FUEL HOSE A5X8 | NBf | \$14.52 |
| 17 | 866-710 | CLAMP 142X2,5 MM | 2 | \$1.26 |
| 18 | 956-260 | LOW PRESSURE HOSE GC 7,5X12,5 | NBf | \$48.99 |
| 19 | 974-839 | REDUCTION T-PEACE 8-6-8 | 1 | \$16.68 |
| 20 | 951-241 | CLAMP 12 | 4 | \$4.85 |
| 21 | 860-300 | LOW PRESSURE HOSE GC 6X11 | ARf | \$55.25 |
| 22 | 951-898 | CLAMP 7-11 | 2 | \$8.64 |
| 23 | 922-113 | BENT HOSE | 1 | \$45.68 |
| 24 | 847-760 | THREADED SPACER M6/M10 | 2b | \$5.52 |
| 24 | 847-730 | SPACER 6,5/18/9 | 2c | \$17.81 |
| 25 | 922-061 | BENT OUTLET SOCKET | 1 | \$54.47 |
| 26 | 240-480 | PLUG SCREW 1/8-27NPT | 1 | \$5.47 |
| 29 | 230-415 | SEALING RING A 6X10 DIN 7603 | 2 | \$1.40 |
| 30 | 841-580 | HEX.SCREW M6X8 | 2 | \$0.57 |
| 31 | 940-551 | HOSE NIPPLE | 1d | \$17.20 |

- a cooling surface 2,4 dm² (37.2 in²)
- b from engine S/N: 3,916.823
- c up to engine S/N: 4,916.822
- d for evacuation of air, at installation of engine with spark plugs down.
- e longer studs for 582 UL mod. 90 and 618 UL.
- f in a roll

ROTAX 582 UL 99/17 2-PIECE RADIATOR SET (HIGH CONFIGURATION)

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1-25 | 881-433 | RADIATOR SET | 1 | \$885.04 |
| 1 | 851-122 | RADIATOR BRACKET RIGHT | 1 | \$66.30 |
| 2 | 851-127 | RADIATOR BRACKET LEFT | 1 | \$66.30 |
| 3 | 260-657 | RUBBER BUFFER 25X20XM6 | 6 | \$26.40 |
| 4 | 995-914 | RADIATOR WITHOUT FILLER CAP | 1a | \$455.45 |
| 5 | 244-211 | SWASHER 6,4 DIN 134 | 12 | \$0.21 |
| 6 | 945-751 | LOCK WASHER A6 DIN 128 | 8 | \$0.21 |
| 7 | 242-211 | HEX. NUT M6 | 6 | \$0.41 |
| 8 | 241-186 | HEX. SCREW M6X16 | 2 | \$0.48 |
| 9 | 847-600 | DISTANCE TUBE | 1 | \$45.68 |
| 10 | 847-605 | DISTANCE BOLT | 2 | \$45.68 |
| 11 | 922-115 | CONNECTING HOSE 110 MM | 1 | \$31.41 |
| 12 | 951-880 | CLAMP 20-3 | 4 | \$6.27 |
| 13 | 922-124 | CONNECTING HOSE 150 MM | 1 | \$20.91 |
| 14 | 951-870 | CLAMP 16-25 | 4 | \$5.97 |
| 16 | 922-070 | RADIATOR CAP WITH GASKET 1,2 BAR | 1 | \$82.46 |
| 17 | 922-193 | WATER TUBE | 1 | \$91.15 |
| 18 | 974-530 | FUEL HOSE A5X8 | NBf | \$14.52 |
| 19 | 866-710 | CLAMP 142X2,5 MM | 1 | \$1.26 |
| 20 | 956-260 | LOW PRESSURE HOSE GC 7,5X12,5 | NBf | \$48.99 |
| 21 | 974-839 | REDUCTION T-PEACE 8-6-8 | 1 | \$16.68 |
| 22 | 951-241 | CLAMP 12 | 4 | \$4.85 |
| 23 | 860-300 | LOW PRESSURE HOSE GC 6X11 | NBf | \$55.25 |
| 24 | 951-898 | CLAMP 7-11 | 2 | \$8.64 |
| 25 | 922-381 | BENT HOSE 25/90 DEGR. | 1 | \$73.01 |
| 26 | 847-730 | SPACER 6,5/18/9 | 2c | \$17.81 |
| 27 | 922-061 | BENT OUTLET SOCKET | 1 | \$54.47 |
| 28 | 240-480 | PLUG SCREW 1/8-27NPT | 1 | \$5.47 |
| 30 | 922-503 | WATER PUMP HOUSING | 1 | \$253.77 |
| 31 | 230-415 | SEALING RING A 6X10 DIN 7603 | 2 | \$1.40 |
| 32 | 841-580 | HEX. SCREW M6X8 | 2 | \$0.57 |
| 33 | 940-551 | HOSE NIPPLE M6 | 1d | \$17.20 |

- a cooling surface 3,2 dm² (49,6 in²)
- b from engine S/N: 3,916.823
- c up to engine S/N: 4,916.822
- d for evacuation of air, at installation of engine with spark plugs down.
- e longer studs for 582 UL mod. 90 and 618 UL
- f in a roll.



Δ A: LOCTITE 221 - P/N 899-785
Δ Q: SILASTIC 732 RTV - P/N 297-386

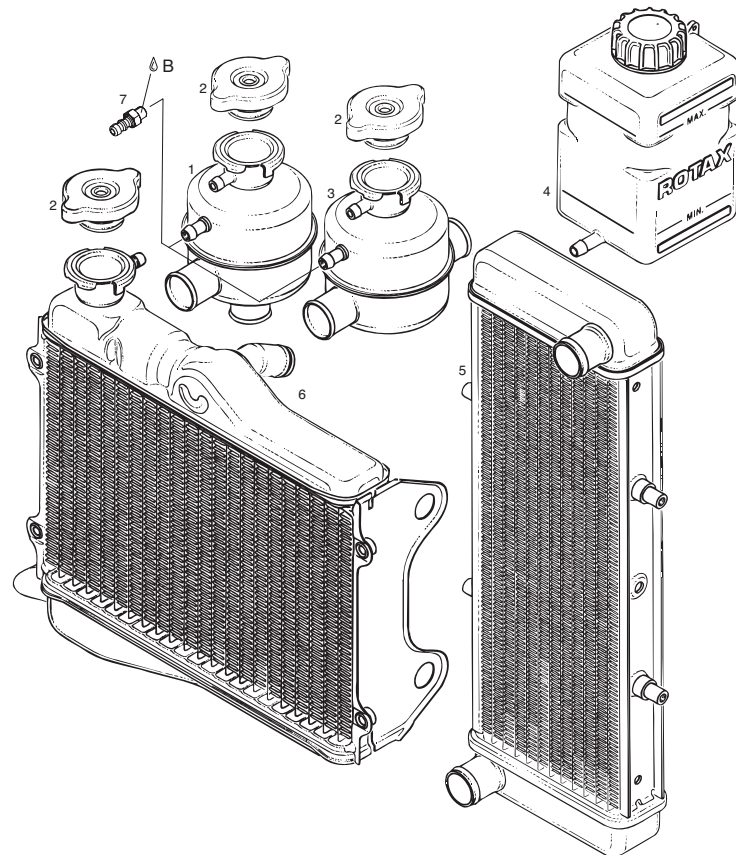
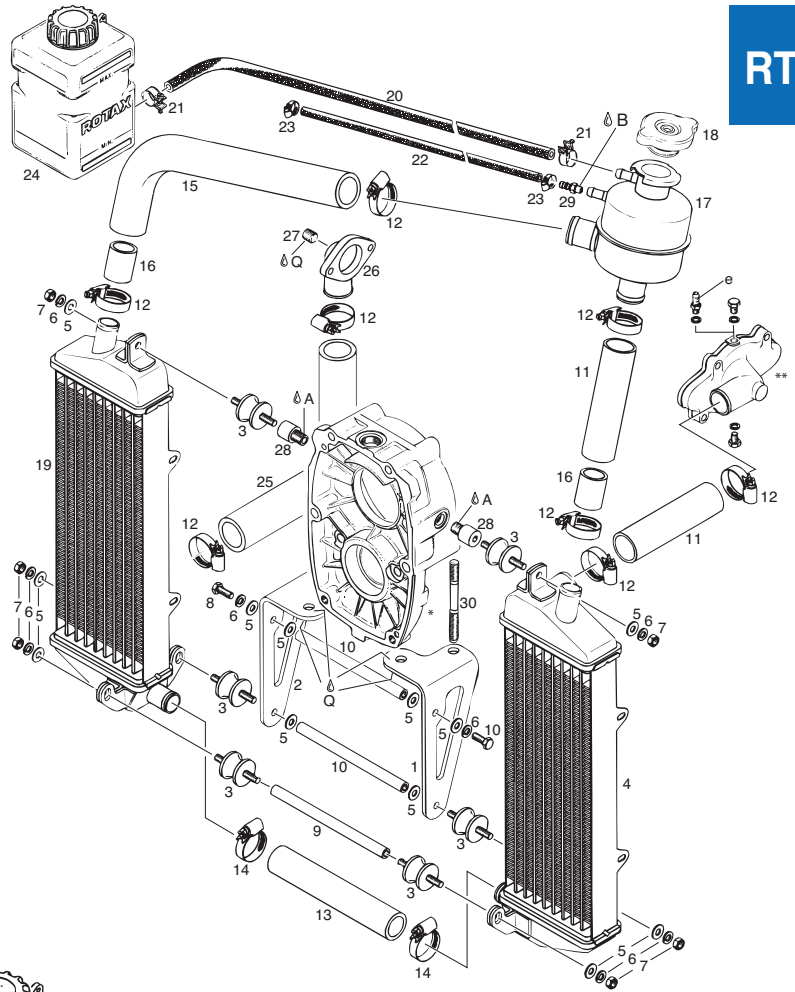
2 STROKE RADIATORS

ROTAX 582 UL 99/17 2-PIECE RADIATOR SET FOR INVERTED ENGINE INSTALLATION

RTX

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1 | 851-122 | RADIATOR BRACKET RIGHT | 1 | \$66.30 |
| 2 | 851-127 | RADIATOR BRACKET LEFT | 1 | \$66.30 |
| 3 | 260-657 | RUBBER BUFFER 25X20XM6 | 6 | \$26.40 |
| 4 | 995-913 | RADIATOR WITHOUT FILLER CAP | 1a | \$639.14 |
| 5 | 244-211 | WASHER 6,4 DIN 134 | 12 | \$0.21 |
| 6 | 945-751 | LOCK WASHER A6 DIN 128 | 6 | \$0.21 |
| 7 | 242-211 | HEX.NUT M6 | 2 | \$0.41 |
| 8 | 241-186 | HEX.SCREW M6X16 | 1 | \$0.48 |
| 9 | 847-600 | DISTANCE TUBE | 2 | \$45.68 |
| 10 | 847-605 | DISTANCE BOLT | 2 | \$45.68 |
| 11 | 922-115 | CONNECTING HOSE 110 MM | 8 | \$31.41 |
| 12 | 951-880 | CLAMP 20-32 | 1 | \$6.27 |
| 13 | 922-124 | CONNECTING HOSE 150 MM | 2 | \$20.91 |
| 14 | 951-870 | CLAMP 16-25 | 1 | \$5.97 |
| 15 | 922-111 | BEND HOSE | 2 | \$66.74 |
| 16 | 222-100 | WATER TUBE | 1f | \$10.79 |
| 17-18 | 922-312 | EXPANSION TANK 90 DEGR. | 1 | \$148.00 |
| 18 | 922-070 | RADIATOR CAP WITH GASKET 1,2 BAR | 1 | \$82.46 |
| 20 | 956-260 | LOW PRESSURE HOSE GC 8X12 | NBf | \$48.99 |
| 21 | 951-241 | CLAMP 12 | 1 | \$4.85 |
| 22 | 860-300 | LOW PRESSURE HOSE GC 6X11 | NBf | \$55.25 |
| 23 | 951-898 | CLAMP 7-11 | 2 | \$8.64 |
| 24 | 922-327 | OVERFLOW BOTTLE WITH CAP | 1 | \$53.40 |
| 25 | 922-381 | BENT HOSE 25/90 DEGR. | 1 | \$73.01 |
| 26 | 922-061 | BENT OUTLET SOCKET | 1 | \$54.47 |
| 27 | 240-480 | PLUG SCREW 1/8-27NPT | 1 | \$5.47 |
| 28 | 847-730 | SPACER 6,5/18/9 | 2c | \$17.81 |
| 29 | 940-551 | HOSE NIPPLE M6 | 1 | \$17.20 |

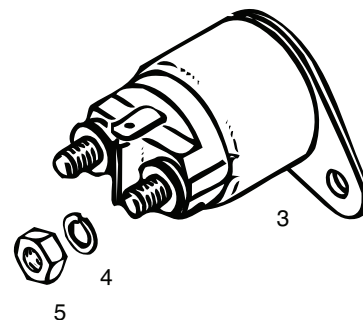
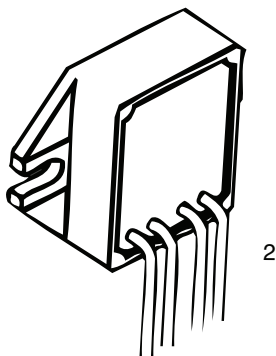
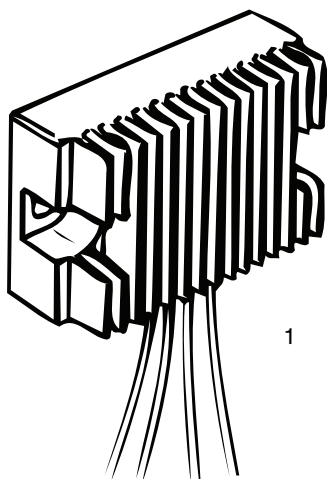
- a cooling surface 3,2 dm² (49,6 in²)
- b from engine S/N: 3,916.823
- c up to engine S/N: 4,916.822
- d for evacuation of air, at installation of engine with spark plugs down.
- e longer studs for 582 UL mod. 90 and 618 UL
- f in a roll.
- g no longer available



ROTAX 582 UL 99/17 1-PIECE RADIATOR, OVERFLOW BOTTLE AND EXPANSION TANK

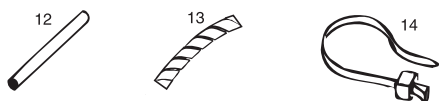
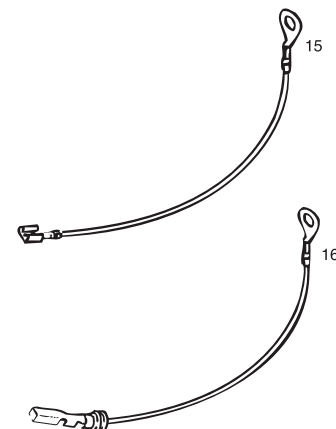
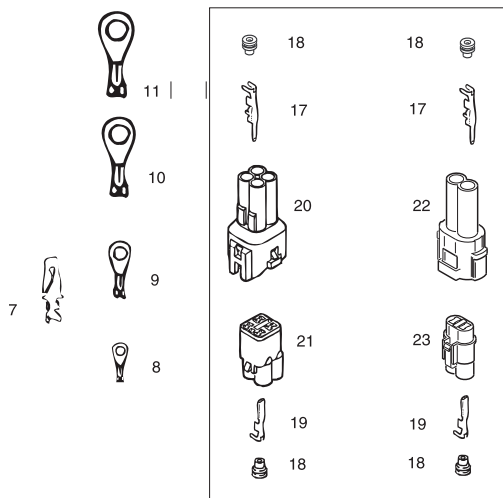
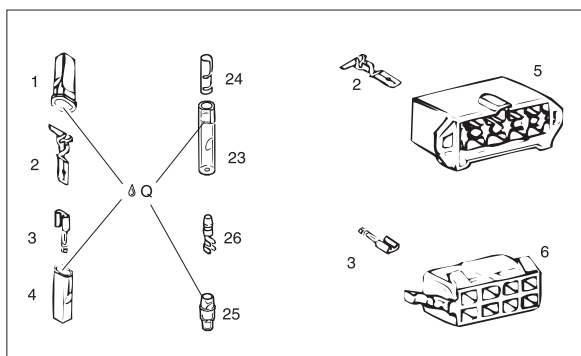
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|----------------------------------|-----------|----------|
| 1-2 | 922-312 | EXPANSION TANK ASSEMBLY 90° | 1 | \$148.00 |
| 2-3 | 922-317 | EXPANSION TANK ASSEMBLY 180° | 1 | \$148.20 |
| 2 | 922-070 | RADIATOR CAP WITH GASKET 1,2 BAR | 1 | \$82.46 |
| 3 | 922-317 | EXPANSION TANK 180 DEGR., | 1 | \$148.20 |
| 4 | 922-327 | OVERFLOW BOTTLE WITH CAP | 1 | \$53.40 |
| 5 | 997-083 | RADIATOR | 1 | \$487.00 |
| 6 | 995-699 | RADIATOR | 1 | \$487.00 |
| 7 | 940-551 | HOSE NIPPLE M6 | 1 | \$17.20 |

RTX



ROTAX 503, 582 UL 99/17 RECTIFIER-REGULATOR, STARTER-RELAY

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|------------------------|-----------|----------|
| 1 | 264-870 | RECTIFIER-REGULATOR | 1a | \$140.17 |
| 3 | 992-815 | STARTER RELAY ASSEMBLY | 1c | \$199.75 |
| 4 | 945-751 | LOCK WASHER A6 DIN 128 | 2 | \$0.21 |
| 5 | 242-211 | HEX.NUT M6 | 2 | \$0.41 |



ROTAX 503, 582 UL 99/17 RECTIFIER-REGULATOR, STARTER-RELAY WIRING ACCESSORIES

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|--------------------------|-----------|-----|-----------|
| | | | 503 | 582 | |
| 3 | 864-011 | FASTON CONNECTOR 6,3X0,8 | NB | NB | \$1.23 |
| 4 | 960-719 | CONNECTOR SHEATH | NB | NB | \$0.66 |
| 6 | 866-010 | CONNECTOR HOUSING | NB | NB | \$18.18 |
| 7 | 866-305 | FASTON CONNECTOR 6,3X0,8 | NB | NB | \$4.54 |
| 8 | 965-706 | CABLE SHOE M3 | NB | NB | \$0.85 |
| 9 | 965-700 | CABLE SHOE M4 | NB | NB | No Match! |
| 10 | 964-055 | CABLE TERMINAL M5 | NB | NB | \$0.85 |
| 11 | 964-052 | CABLE TERMINAL M6 | NB | NB | \$0.85 |
| 12 | 860-621 | SHRINK HOSE 40 MM | NB | NB | \$5.47 |
| 13 | 966-060 | SPIRAL HOSE 6,5X8,5X0,6 | | NB | \$11.09 |
| 14 | 866-710 | CLAMP 142X2,5 MM | NB | NB | \$1.26 |

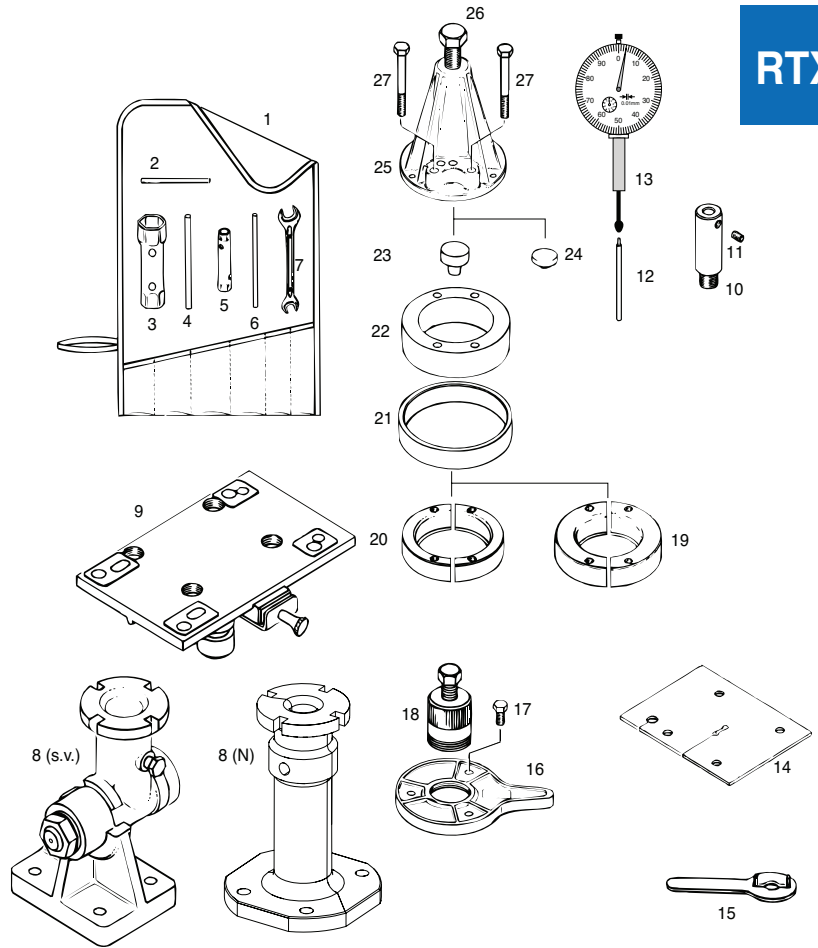
| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|--------------------------|-----------|-----|---------|
| | | | 503 | 582 | |
| 17 | 265-210 | FLAT PIN TERMINAL | | NB | \$1.92 |
| 18 | 260-130 | CABLE GROMMET | | NB | \$2.28 |
| 19 | 265-275 | FASTON CONNECTOR | | NB | \$2.45 |
| 20 | 265-262 | CONNECTOR HOUSING 4-POLE | | NB | \$14.11 |
| 21 | 265-260 | CONNECTOR HOUSING 4-POLE | | NB | \$6.51 |
| 22 | 265-200 | CONNECTOR HOUSING 2-POLE | | NB | \$14.77 |
| 23 | 265-205 | CONNECTOR HOUSING 2-POLE | | NB | \$10.04 |
| 24 | 964-072 | INSULATION SHEATH | NB | NB | \$2.28 |
| 25 | 964-067 | FASTON CONNECTOR 3,96 | NB | NB | \$2.28 |
| 26 | 964-077 | INSULATION SHEATH | NB | NB | \$2.50 |
| 27 | 964-062 | FASTON CONNECTOR 3,96 | NB | NB | \$2.28 |

2 STROKE-REPAIR TOOLS & GASKET SET

ROTAX 503, 582 UL 99/17 GENERAL REPAIR-TOOLS

| Item No. | Part No | Description | Qty. Req. | | Price |
|----------|---------|----------------------------|-----------|-----|----------|
| | | | 503 | 582 | |
| 2 | 876-640 | CRANKSHAFT FIXATION BOLT | 1 | 1 | \$2.40 |
| 3 | 876-210 | SOCKET WRENCH 21X26 MM | 1 | 1 | \$11.11 |
| 5 | 876-227 | SOCKET WRENCH 10X13 MM | 1 | 1 | \$7.39 |
| 6 | 977-425 | HAND LEVER 6X130 | 1 | 1 | \$3.02 |
| 7 | 276-065 | FORK WRENCH 10X13 MM | 1 | 1 | \$7.51 |
| 8 | 877-930 | TRESTLE SUPPORT ASSEMBLY | 1a | 1a | \$720.30 |
| 9 | 876-746 | MOUNTING PLATE WITH DETENT | 1a | 1a | \$543.14 |
| 10 | 876-940 | GAUGE ADAPTER | 1b | 1b | \$77.26 |
| 11 | 841-771 | SET SCREW M6X8 | 1b | 1b | \$1.76 |
| 12 | 876-945 | GAUGE PIN | 1b | 1b | \$28.37 |
| 13 | 876-950 | PRECISION DIAL GAUGE | 1b | 1b | \$262.58 |
| 15 | 277-905 | WRENCH | 1d | 1d | \$31.87 |
| 16 | 876-081 | PULLER PLATE | 1e | 1e | \$89.05 |
| 17 | 940-591 | HEX.SCREW M8X20 | 3 | 3 | \$1.23 |
| 18 | 876-065 | PULLER M42X1,5 ASSEMBLY | 1f | 1f | \$80.76 |
| 19 | 276-025 | RING HALF | 1g | 1g | \$157.54 |
| 20 | 977-475 | RING HALF | 1h | 1h | \$100.63 |
| 21 | 977-490 | RING | 1i | 1i | \$67.98 |
| 22 | 876-569 | DISTANCE RING 72/105/28 | 1j | 1j | \$141.75 |
| 24 | 876-557 | PROTECTION MUSHROOM | 1l | 1l | \$17.68 |
| 25-27 | 877-636 | PULLER ASSEMBLY | 1m | 1m | \$227.43 |
| 26 | 940-755 | HEX. SCREW M16X1,5X150 | 1 | 1 | \$37.91 |
| 27 | 841-201 | HEX. SCREW M8X70 | 4 | 4 | \$2.76 |

- a useable for engine type 447 UL, 503 UL, 582 UL 90/99 and 618 UL
- b for adjustment and control of the ignition timing.
- c to cover the crankcase.
- d to hold the oilpump gear.
- e to hold the magneto flywheel.
- f for magneto flywheel.
- g for ball bearing 6206, crankshaft magneto side.
- h for ball bearing 6207, crankshaft.
- i for ring halves.
- j for puller
- k for crankshaft P.T.O. side.
- l for crankshaft magneto side.
- m for ball bearing

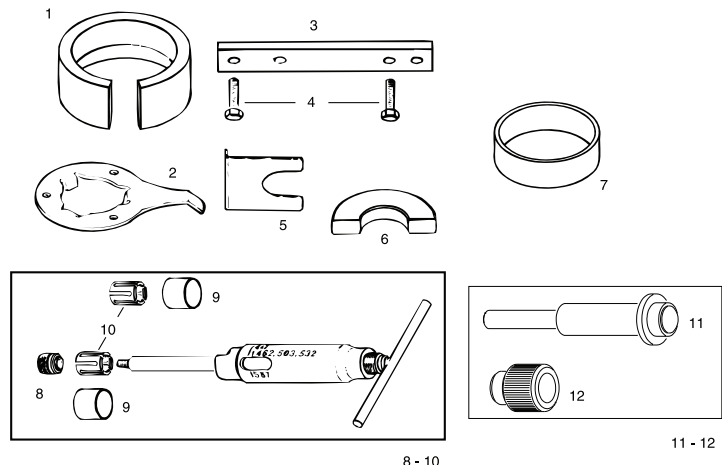


RTX

ROTAX 503 UL REPAIR TOOLS AND GASKET SET

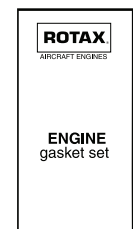
| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|------------------------------------|-----------|----------|
| 1 | 876-970 | PISTON RING SPANNER 72 MM | 1b | \$94.16 |
| 2 | 876-357 | FAN HOLDER | 1c | \$21.45 |
| 3 | 876-171 | CYLINDER ALIGNING TOOL | 1d | \$79.99 |
| 4 | 240-275 | HEX. SCREW M8X25 DIN 933 | 2 | \$1.26 |
| 6 | 876-824 | DISTANCE GAUGE P.T.O. SIDE | 1f | \$99.21 |
| 8-10 | 877-091 | PISTON PIN EXTRACTOR ASSEMBLY | 1h | \$435.58 |
| 9 | 877-180 | LOCATING SLEEVE | 2 | \$6.27 |
| 10 | 877-040 | EXPANSION SLEEVE | 2 | \$132.11 |
| 11-12 | 877-015 | CIRCLIP INSTALLATION TOOL ASSEMBLY | 1i | \$175.07 |
| 11 | 877-020 | CIRCLIP INSTALLATION SLEEVE | 1 | \$91.45 |
| 12 | 877-010 | CIRCLIP INSTALLATION PUSHER | 1 | \$92.15 |
| 13 | 994-236 | GASKET SET ENGINE | 1j | \$186.27 |

- a for installation of cylinder on the piston 67,5 mm.
- b for installation of cylinder on the piston 72 mm.
- c to hold the fan.
- d for aligning of cylinders at the intake flange.
- e for crankshaft bearing P.T.O. side.
- f for positioning of crankshaft bearing P.T.O. side.
- g for centering of the stator plate.
- h for piston pin 18 mm.
- i for installation of piston pin circlip 18 mm.
- j for the engine.
- k without ignition and externals.



8 - 10

13

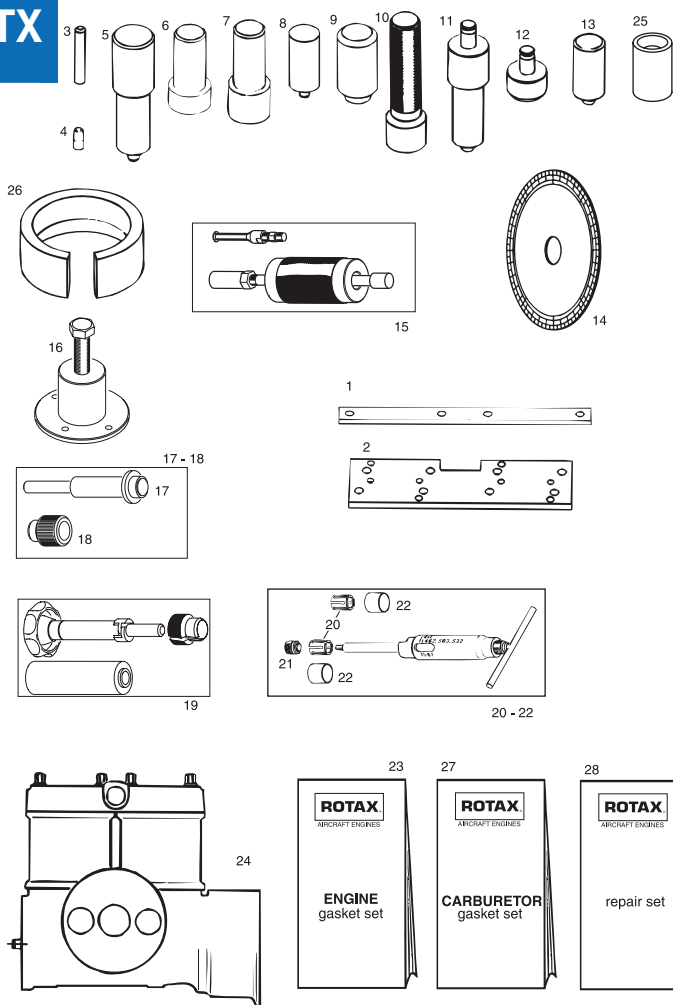


RTX

ROTAX 582 UL 99/17 REPAIR TOOLS AND GASKET SET:

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------|-----------|------------|
| 1 | 876-572 | ALIGNING TOOL | 1a | \$51.66 |
| 2 | 876-904 | ALIGNING TOOL | 1b | \$107.54 |
| 3 | 876-612 | EXTRUSION JIG | 1c | \$42.44 |
| 4 | 876-980 | GUIDE SLEEVE | 1c | \$23.63 |
| 5 | 876-500 | INSERTION JIG | 1d | \$67.29 |
| 6 | 876-602 | INSERTION JIG | 1e | \$67.35 |
| 7 | 876-607 | INSERTION JIG | 1f | \$67.35 |
| 8 | 876-512 | INSERTION JIG | 1g | \$59.40 |
| 14 | 277-150 | DEGREE DISK | 1j | \$100.93 |
| 15 | 877-860 | PULLER ASSEMBLY | 1k | \$573.97 |
| 16 | 877-825 | INSERTION JIG | 1i | \$355.59 |
| 19 | 877-805 | CIRCLIP INSTALLATION TOOL | 1m | \$614.92 |
| 20-22 | 877-091 | PISTON PIN EXTRACTOR ASSEMBLY | 1 | \$435.58 |
| 20 | 877-040 | EXPANSION SLEEVE | 1 | \$132.11 |
| 22 | 877-180 | LOCATING SLEEVE | 1 | \$6.27 |
| 23 | 886-232 | GASKET SET | 1 | \$234.50 |
| 27 | 996-949 | GASKET SET CARBURETOR 2 STROKE | 1st | \$183.45 |
| 28 | 881-030 | REPAIR SET | 1u | \$1,865.00 |

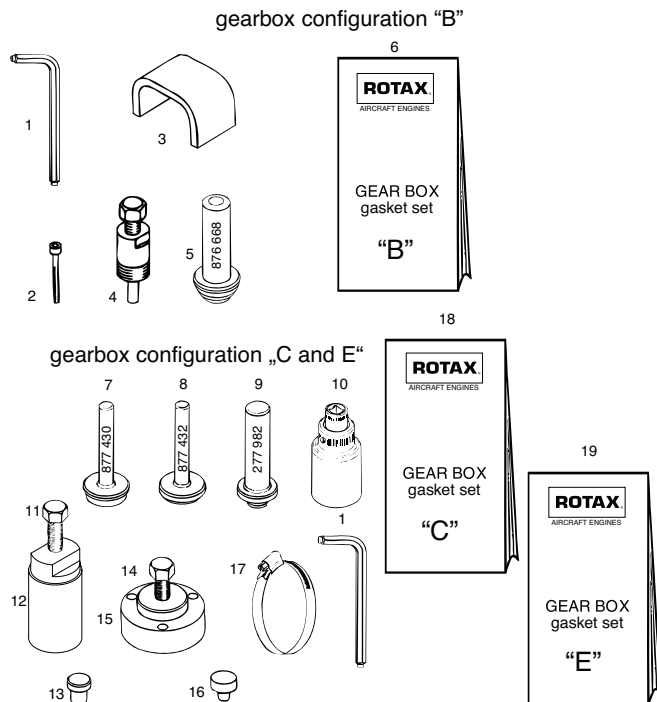
- a for cylinder
- b for cylinder exhaust-flange.
- c for rotary valve shaft.
- d for ball bearing, rotary valve shaft.
- e for oil seal rotary valve shaft (without oil pump), intake-side.
- f for oil seal rotary valve shaft (with oil pump), intake-side.
- g for inner oil seal rotary valve shaft, waterpump side.
- h for outer oil seal rotary valve shaft, waterpump side.
- i to press in the rotary seal.
- j for rotary valve timing.
- k to pull out the rotary seal- the inner steel bushing of the rotary seal has to be removed before demounting!
- l for fitting of piston pin circlip.
- m for fitting of piston pin circlip. (monohook-circlip).
- n for engine 582 UL DCDI mod.90.
- o for engine and rave.
- p from engine S/N 5.305.901
- q to press in the rotary seal 850942 (page 8.2-4) with the insertion jig (16)
- r only for rotary seal (618 UL)
- s for included parts see 9.3.1
- t for carburetor 36 mm
- u 23 (gasket set) + spark plug caps, carburetor sockets, clamp 62, clamp 53, crankshaft, pistons, spark plugs



ROTAX 503, 582 UL 99/17 REPAIR TOOLS AND GASKET SET: B, C & E GEARBOXES

| Item No. | Part No | Description | Qty. Req. | Price |
|----------|---------|--------------------------------|-----------|----------|
| 1 | 277-817 | ALLEN KEY WITH PILOT, 8 MM | 1a | \$14.11 |
| 2 | 241-875 | ALLEN SCREW M6X70/45 | 1b | \$13.46 |
| 3 | 876-880 | MOUNTING YOKE | 1c | \$42.44 |
| 4 | 276-808 | PULLER ASSEMBLY M 28X1 | 1d | \$197.82 |
| 5 | 876-668 | INSERTION JIG ASSEMBLY | 1e | \$168.09 |
| 6 | 995-781 | GASKET SET | 1f | \$64.08 |
| 7 | 877-430 | INSERTION JIG ASSEMBLY | 1g | \$94.16 |
| 8 | 877-432 | INSERTION JIG ASSEMBLY | 1h | \$94.16 |
| 9 | 277-982 | INSERTION JIG ASSEMBLY | 1i | \$99.21 |
| 10 | 877-445 | SOCKET WRENCH ASSEMBLY 41X12,5 | 1 | \$355.59 |
| 11-12 | 877-379 | PULLER ASSEMBLY | 1i | \$144.15 |
| 11 | 940-755 | HEX. SCREW M16X1,5X150 | 1j | \$37.91 |
| 13 | 877-415 | PROTECTION MUSHROOM | 1 | \$34.72 |
| 14-15 | 877-425 | FLYWHEEL PULLER ASSEMBLY | 1k | \$180.53 |
| 14 | 941-680 | HEX.SCREW M16X1,5X56 | 1 | \$25.64 |
| 16 | 876-552 | PROTECTION MUSHROOM | 1 | \$25.47 |
| 18 | 995-775 | GASKET SET | 1m | \$106.40 |
| 19 | 995-776 | GASKET SET | 1n | \$108.60 |

- a for internal hex. screw
- b to remove the gear cover.
- c to compress the dog gear.
- d for drive gear, l=2,00; l=2,24; l=2,58.
- e for oil seal 850-055
- f for gearbox configuration "B"
- g for oil seal 930-715
- h for oil seal 950-085 and 950-084
- i for oil seal 933-675
- j to remove the layshaft-gear.
- k to remove the flywheel.
- l for mounting the hardy disk.
- m for gearbox configuration "C"
- n for gearbox configuration "E"





PISTON WITH RING

(Green Dot - 75.95mm) P/N 888-590 **\$216.95**
 (Red Dot - 75.94mm) P/N 888-590 **\$217.95**
 Includes both top semi-trapezoid and rectangular bottom ring. Standard piston dome is stamped with 75.95mm (Green Dot) or 75.94mm (Red dot)



TOP PISTON RING – STANDARD

Composite molybdenum semi-trapezoid ring located at the very top of the piston. Use only on standard 75.94 or 75.95 piston. P/N 915-820 **\$92.67**



BOTTOM PISTON RING – STANDARD

Rectangular ring located below top ring. Use only on standard 75.94 or 75.95 piston.. P/N 215-200 **\$59.57**



582 COMPLETE GASKET SET

Includes all gaskets, seals, rubber and metal rings in the engine. Includes all the following items. P/N 886-230 **\$259.83**

| Part No. | Description | Qty. Req. | Price |
|----------|-------------|-----------|----------------|
| 850-540 | O-Ring | 2 | \$24.59 |
| 850-040 | O-Ring | 2 | \$8.03 |
| 850-775 | Gasket | 1 | \$25.14 |
| 850-633 | Gasket | 2 | \$12.66 |
| 930-580 | Oil Seal | 1 | \$24.71 |
| 850-711 | Oil Seal | 2 | \$23.31 |
| 850-890 | Rubber Seal | 1 | \$3.19 |
| 831-615 | Gasket | 1 | \$9.13 |
| 250-165 | O-Ring | 2 | \$5.33 |
| 830-370 | O-Ring | 2 | \$6.97 |
| 830-355 | O-Ring | 2 | \$5.52 |
| 230-980 | Gasket Ring | 1 | \$5.81 |
| 827-180 | Washer | 2 | \$1.76 |
| 850-565 | Gasket | 1 | \$58.75 |
| 831-360 | O-Ring | 1 | \$15.58 |
| 831-700 | Ring | 1 | \$5.69 |



OIL INJECTION TUBING

5/32" od Polyurethane Tubing for all oil injection lines. Natural clear tubing allows you to see flow of oil. Sold by the foot..... P/N 13523..... **\$0.55/ft.**



CIRCLE CLAMP

Designed especially for use with oil injection tubing. Just crimp with side cutters or dykes pliers to secure tubing to barbs. Not reuseable P/N 853-840 **\$2.28**



#956-230 KEVLAR

Fire Resistant Hose. Factory replacement for RV fluid lines. Excellent fire resistant qualities when exposed to open flame. Sold in one meter (39") lengths P/N 853-840 **\$53.79/m.**



CARB SOCKET

Vibration and sunlight deteriorates these flanges. Inspect for wear and/or cracks on a daily basis. Replace immediately if cracking can be found. Recommended annual replacement. 2 per engine. P/N 867-696 **\$29.81**



ROTAX FACTORY SERVICE MANUAL

Contains complete details on maintenance and repair of Rotax liquid cooled motors. Hundreds of illustrations take you step by step through a complete rebuild. Includes full specifications on all critical measurements, adjustments, troubleshooting, Torquing specs, RV shaft service, schematics, specialty tools, and much more. Never before available procedures for measuring crankshafts, pistons, and cylinders for determining wear limits. A must for any serious mechanic. Full 170 pages. Spiral bond for easy shop use. P/N 1247..... **\$14.95**



EXHAUST GASKETS

Checking rings for proper operation can be easily done through the exhaust ports. Replacing gaskets avoids messy exhaust leaks. 2 per engine. P/N 850-633 **\$12.66**



ROTAX 503 DUAL CARB KIT

This is the easiest way to convert your Rotax 503UL from 46 horsepower to 52 horsepower. We give you all the parts needed to complete the job, all you supply is the tools and time!

For engines without oil injection, select one of the following:

Complete Kit Includes the following Items:

- 1 ea. 887-826 36mm Bing Carb
- 1 ea. 867-484 Carb Socket
- 2 ea. 951-510 Clamp
- 2 ea. 831-865 Intake Gasket
- 1 ea. #7738B 15" Cable
- 1 ea. #7739 18.5" Cable
- 1 ea. #7741 12" Oil injection Cable (oil injection kits only)
- 1 ea. #7704 Junction Block
- 1 ea. #7657 Mounting Bracket
- 4 ea. 840-681 Screw 8x40
- 4 ea. 945-752 Lockwasher 10mm
- 2 ea. 867-400 Manifold (no oil injection) or 2ea. 867-407 Manifold (oil injection)
- 1 ea. #7007 Nylon Fuel Tee
- 5 ft. #7011 Blue Fuel Line
- 6 ea. #7311 Circle Clamps
- 1 ea. #7415 1/16" Stop Swage
- 1 ea. #2.70 Needle Jet
- 1 ea. #158 Main Jet
- 1 ea. #11K2 Jet Needle
- 2 ea. 825-551 Single Carb Cone Air Filter, or 1ea. 825-721 Oval Dual Carb Air Filter

For engines without oil injection, select one of the following:

- Lever choke carburetor and oval air filter..... P/N 1224OL..... **\$936.00**
- Cable choke carburetor and oval air filter P/N 1224OC **\$926.00**
- Lever choke carburetor and 2 cone air filters P/N 1224NL **\$952.00**
- Cable choke carburetor and 2 cone air filters P/N 1224NC **\$942.00**

For engines with oil injection, select one of the following:

- Lever choke carburetor and oval air filter..... P/N 1223OL..... **\$938.00**
- Cable choke carburetor and oval air filter P/N 1223OC **\$928.00**
- Lever choke carburetor and 2 cone air filters P/N 1223NL **\$954.00**
- Cable choke carburetor and 2 cone air filters P/N 1223NC **\$944.00**

EP



COMPLETE CARBURETORS - TYPE 54

To Order, Specify:
1. Model indicated by engine number 277, 377, 447, 503, or 532.
2. With intake silencer or without intake silencer.
3. Single Carb or Dual Carb.
4. Hand Choke or Remote Choke.
Model # 54/36/2040
P/N 07-00303.....\$436.00

TYPE 54 REBUILD KIT

#17 Top O Ring #7 Air Screw O Ring
#29 Bowl Gasket #26 Float Needle
#25 Hinge Pin #10 Sieve Sleeve (Screen)
#21 Cable Grommet..... P/N 07-00304.....\$48.95

TYPE 54 FIX-IT KIT

#12 New Spring Cup
#56 Jet Needle O Ring
#11 Clip..... P/N 07-00305.....\$17.50

TYPE 84 COMPLETE CARBURETORS

To Order, Specify:
Model indicated by engine number 277, 377, 447, 503, or 532.
With intake silencer or without intake silencer.
Single Carb or Dual Carb.
Hand Choke or Remote Choke.
Model # 84/32/3437
P/N 07-00306.....\$473.00

TYPE 84 REBUILD KIT

#17 Top O Ring #7 Air Screw O Ring
#29 Bowl Gasket #26 Float Needle
#25 Hinge Pin #10 Sieve Sleeve (Screen)
#21 Cable Grommet..... P/N 07-00307.....\$48.80

ROTAX FLOAT & BOWL KIT

This float and bowl kit replaces a single float system. Includes clip float needle, float pin, float bracket, float chamber, and the float.
P/N 261-010.....\$142.75

BING CARBURETOR ACCESSORIES

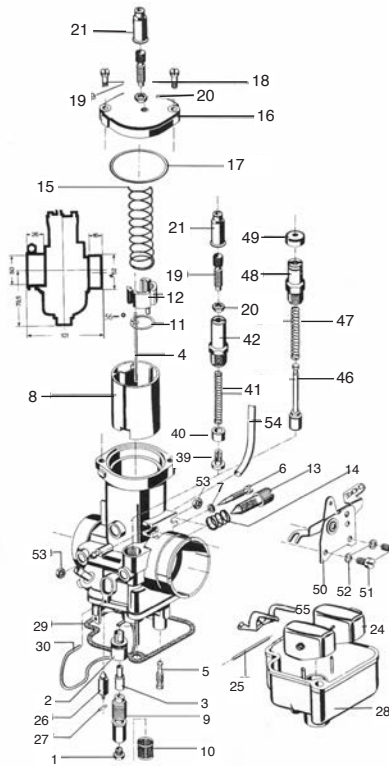
Bing Remote Choke Kit (w/8' cable).. P/N 07-00308.....\$57.00
Bing Remote Choke Kit (w/o cable) .. P/N 07-00309.....\$34.85
Bing Aircraft Parts manual P/N 07-00310.....\$16.60

CARBURETOR SYNCHRONIZATION 4-CHANNEL ADAPTER KIT

Converts the SynchroMate or CarbMate into a 4 carb/throttle valve synchroniser. This easy-to-mount & easy-to-use kit allows connection of SynchroMate's or CarbMate's 2 channels (tubes) to 4 carbs / throttle valves at once.
P/N 07-01267.....\$56.75

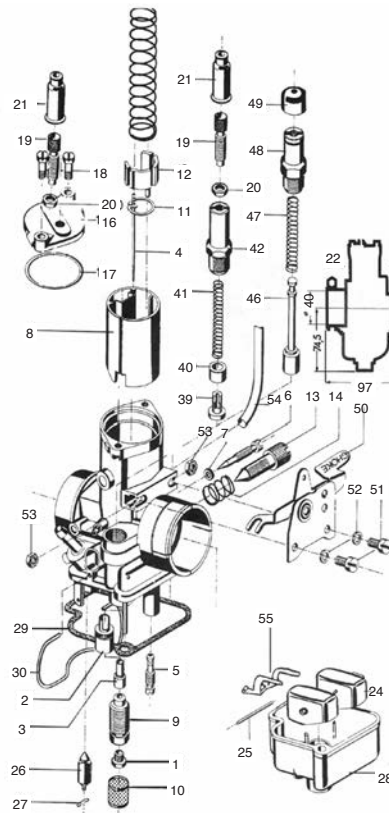
| Accessories | Part No. | Price |
|---------------------------------------|----------|---------|
| 4-Channel adapter kit TS-220 | 07-01267 | \$56.75 |
| Rotax adapter w/ 2X6 ft hose TS-400 | 07-01889 | \$61.80 |
| Rotax accessory kit TS-400 KIT | 07-01890 | \$96.75 |
| Rotax black nylon storage case TS-222 | 07-01893 | \$32.90 |
| Rotax rubber black holster TS-223 | 07-01894 | \$8.90 |
| Rotax replacement 6 ft rubber hose | 07-01895 | \$17.50 |

REPLACEMENT PARTS - TYPE 54



| No. | Part No. | Description | Price |
|-----|-------------|--|----------|
| 1 | 268-978-998 | Main Jet | \$11.50 |
| 2 | 251-554 | Atomizer | \$30.65 |
| 3 | 963-691-699 | Needle Jet | \$18.50 |
| 4 | 963-711-719 | Jet Needle | \$17.50 |
| 5 | 963-140-147 | Idle Jet | \$32.80 |
| 6 | 963-155 | Air Screw | \$13.50 |
| 7 | 831-713 | O Ring | \$3.85 |
| 8 | 963-679 | Piston | \$103.80 |
| 9 | 963-700 | Mixing Tube | \$21.70 |
| 10 | 261-625 | Sieve Sleeve | \$10.65 |
| 11 | 963-500 | Clip | \$7.95 |
| 12 | 827-347 | New Style Spring Cup | \$9.50 |
| 13 | 963-160 | Mix Screw | \$9.50 |
| 14 | 938-640 | Spring | \$3.35 |
| 15 | 938-655 | Slide Spring | \$6.50 |
| 16 | 963-720 | Cover Plate | \$32.50 |
| 17 | 831-450 | O Ring | \$7.70 |
| 18 | 241-430 | Screw | \$1.60 |
| 19 | 241-440 | Adjuster | \$4.95 |
| 20 | 942-541 | Nut | \$0.99 |
| 21 | 260-370 | Grommet | \$2.80 |
| 24 | 861-181 | Indep. Float | \$41.50 |
| 25 | 929-702 | Pivot Pin | \$2.55 |
| 26 | 261-705 | Float Needle | \$41.50 |
| 27 | 261-710 | Clip | \$1.95 |
| 28 | 261-010 | Bowl Kit (bowl, 24-27, 55) *Float Needle Valve not included | \$142.75 |
| 29 | 830-720 | Gasket | \$10.65 |
| 30 | 963-180 | Bowl Clip | \$10.50 |
| 39 | 963-740 | Piston | \$11.50 |
| 40 | 268-850 | Sleeve | \$4.60 |
| 41 | 661-050 | Spring | \$2.12 |
| 42 | 963-750 | Housing | \$16.50 |
| 46 | 268-847 | Piston | \$27.60 |
| 48 | 261-770 | Housing | \$13.50 |
| 49 | 260-490 | Rubber Cap | \$6.85 |
| 50 | 261-755 | Choke Lever | \$29.65 |
| 51 | 240-791 | Screw(51) & Washer(52) | \$2.40 |
| 52 | 945-750 | Washer(52) | \$2.40 |
| 53 | 261-200 | Nut | \$1.43 |
| 54 | 256-035 | Vent Tube | \$12.95 |
| 56 | 831-715 | Jet Needle O Ring | \$1.85 |

REPLACEMENT PARTS - TYPE 84



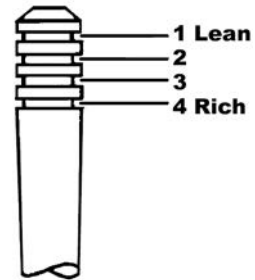
| No. | Part No. | Description | Price |
|-----|----------|------------------------|---------|
| 1 | 268-980 | Main Jet 135 | --- |
| 2 | 261-692 | Atomizer | \$24.50 |
| 3 | 261-606 | Needle Jet 262 | \$16.50 |
| 4 | 261-643 | Jet Needle 8H1 | \$21.80 |
| 5 | 963-140 | Idle Jet 50 | \$32.80 |
| 6 | 963-155 | Air Screw | \$13.50 |
| 7 | 831-713 | O Ring | \$3.85 |
| 8 | 261-635 | Piston | \$67.75 |
| 9 | 963-130 | Jet Stock | \$22.60 |
| 10 | 261-625 | Screen | \$10.65 |
| 11 | 261-650 | Holder Plate | \$9.50 |
| 13 | 963-160 | Mix Screw | \$9.50 |
| 14 | 938-640 | Spring | \$3.35 |
| 16 | 261-660 | Cover | \$25.65 |
| 17 | 261-670 | O Ring | \$9.50 |
| 18 | 241-430 | Screw | \$1.60 |
| 19 | 241-440 | Adjust. Screw | \$4.95 |
| 20 | 942-541 | Nut | \$0.99 |
| 21 | 260-370 | Grommet | \$2.80 |
| 25 | 929-702 | Pin | \$2.55 |
| 26 | 261-705 | Float Needle | \$41.50 |
| 27 | 261-710 | Clip | \$1.95 |
| 28 | 963-170 | Bowl | \$45.75 |
| 29 | 830-720 | Gasket | \$10.65 |
| 30 | 963-180 | Bowl Clip | \$10.50 |
| 39 | 963-740 | Piston | \$11.50 |
| 40 | 268-850 | Sleeve | \$4.60 |
| 41 | 661-050 | Spring | \$2.12 |
| 42 | 963-750 | Housing | \$16.50 |
| 46 | 268-847 | Piston | \$27.60 |
| 48 | 261-770 | Housing | \$13.50 |
| 49 | 260-490 | Rubber Cap | \$6.85 |
| 50 | 261-750 | Lever | \$22.50 |
| 51 | 240-791 | Screw(51) & Washer(52) | \$2.40 |
| 52 | 945-750 | Washer(52) | \$2.40 |
| 53 | 261-200 | Nut | \$1.43 |
| 54 | 256-033 | Vent Tube | \$12.95 |



CARBURETOR JETTING CHART FOR ROTAX® UL ENGINES

Use this chart to identify part number you need, then use bottom chart to select correct part number to order.

| ROTAX® ENGINE | MAIN JET | IDLER JET | NEEDLE JET | JET NEEDLE | CLIP POSITION | AIR SCREW |
|-------------------------|----------------|----------------|----------------|----------------|---------------|-----------|
| PRICES | \$11.99 | \$30.70 | \$16.50 | \$17.50 | | |
| 2771 | 148 | 45 | 2.72 | 8L2 | 2 | 1 |
| 2772 | 140 | 45 | 2.72 | 8L2 | 2 | 1 |
| 3771 | 165 | 45 | 2.70 | 8O2 | 2 | .5 |
| 3772 | 155 | 45 | 2.70 | 8O2 | 2 | .5 |
| 4471 | 165 | 45 | 2.70 | 15K2 | 2 | .5 |
| 4472 | 155 | 45 | 2.70 | 15K2 | 2 | .5 |
| 447DC1 | 135 | 50 | 2.70 | 6G1 | 3 | 1 |
| 447DC3 | 128 | 50 | 2.68 | 15K2 | 2 | 1 |
| 503SC1 Up to #3785371 | 180 | 45 | 2.74 | 8G2 | 3 | .5 |
| 503SC2 Up to #3785371 | 158 | 45 | 2.74 | 6H2 | 3 | .5 |
| 503SC1 From #3785372 Up | 185 | 45 | 2.72 | 15K2 | 3 | .5 |
| 503SC2 From #3785372 Up | 165 | 45 | 2.70 | 15K2 | 3 | .5 |
| 503DC1 | 158 | 45 | 2.74 | 8L2 | 1 | .5 |
| 503DC3 | 148 | 45 | 2.68 | 11K2 | 2 | 1 |
| 532SC1 | 195 | 55 | 2.74 | 15K2 | 3 | 1 |
| 532SC3 | 170 | 55 | 2.74 | 15K2 | 3 | 1 |
| 532DC1 | 165 | 55 | 2.72 | 11G2 | 3 | 1 |
| 532DC3 | 145 | 55 | 2.68 | 15K2 | 3 | 1 |
| 5821 | 165 | 55 | 2.72 | 11G2 | 3 | 1 |
| 5823 | 145 | 55 | 2.68 | 15K2 | 3 | 1 |



1 = Without Rotax® intake silencer kit, with K&N RC1200 air filter, with or without Rotax® after muffler kit.

2 = With Rotax® intake silencer kit, with K&N CM0300 air filter, with or without Rotax® after muffler kit.

3 = With Rotax® dual intake silencer kit, with K&N RC1200 air filters, with or without Rotax® after muffler kit.

EP



MAIN JET

- 125....P/N R268-978\$11.50
- 128....P/N R261-085\$17.50
- 130....P/N R268-979\$10.75
- 135....P/N R268-980\$11.99
- 138....P/N R268-998\$10.95
- 140....P/N R268-981\$11.50
- 145....P/N R268-982\$11.50
- 148....P/N R268-995\$11.99
- 150....P/N R268-983\$11.50
- 155....P/N R268-984\$11.50
- 158....P/N R268-996\$11.50
- 160....P/N R268-985\$11.50
- 162....P/N R268-990\$11.50
- 165....P/N R268-986\$11.50
- 170....P/N R268-987\$11.50
- 175....P/N R268-988\$11.50
- 180....P/N R268-989\$11.50
- 185....P/N R261-080\$11.99
- 190....P/N R261-084\$11.99
- 195....P/N R268-992\$11.50
- 200....P/N R261-082\$17.50
- 205....P/N R261-087\$16.50
- 220....P/N R261-081\$17.50



IDLER JET

- 30....P/N R963-141\$30.70
- 35....P/N R963-143\$32.80
- 40....P/N R963-142\$32.80
- 45....P/N R963-144\$28.65
- 50....P/N R963-140\$32.80
- 55....P/N R963-147\$31.50
- 60....P/N R963-145\$30.70
- 65....P/N R963-146\$40.50



NEEDLE JET

- 2.62 P/N R261-606.....\$16.50
- 2.68 P/N R963-691.....\$18.50
- 2.70 P/N R963-698.....\$17.80
- 2.72 P/N R963-697.....\$15.85
- 2.74 P/N R963-699.....\$18.50
- 2.76 P/N R963-693.....\$17.85
- 2.78 P/N R963-696.....\$18.75
- 2.80 P/N R963-695.....\$17.60
- 2.82 P/N R963-694.....\$16.50
- 2.94 P/N R961-022.....\$18.50

NEEDLE CLIP



P/N 07-00693\$7.95

Lower numbers indicate smaller jet size or opening.
Low numbers lean.
High numbers rich.
First needle number denotes mixture above half-throttle.
Needle letter denotes mixture below half-throttle.

JET NEEDLE



- 2H2.....P/N R963-717.....\$17.50
- 4E2.....P/N R963-716.....\$17.50
- 6H2.....P/N R963-719.....\$17.50
- 8G2.....P/N R963-712.....\$16.50
- 8H1.....P/N R261-643.....\$21.80
- 8L2.....P/N R963-714.....\$15.50
- 8O2.....P/N R963-711.....\$17.50
- 1O.....P/N R961-045.....\$18.60
- 11G2.....P/N R961-043.....\$12.60
- 11K2.....P/N R961-044.....\$16.50
- 15K2.....P/N R963-718.....\$16.50



KWIK TUNE FOR ROTAX ENGINES

Kwik Tune helps remove and reinstall the aircraft throttle cable, cover, spring, and slide in a Bing carburetor.
P/N 08-05206.....\$9.95



Fuel Pump

MIKUNI FUEL PUMP

Genuine Mikuni fuel pumps. Replace original parts on Rotax®, Hirth, & many other engines.

- Single Pump.....P/N 07-00777\$32.50
- Dual Pump.....P/N 07-00778\$28.90



Rebuild Kits

MIKUNI REBUILD KIT FOR SINGLE/DUAL FUEL PUMPS

- Single Pump.....P/N 07-01011\$13.75
- Dual Pump.....P/N 07-01010\$16.75



FACET ELECTRIC FUEL PUMPS

SOLID-STATE TYPE PUMPS - Measure less than 3" in any direction and weigh only 18 oz. Fuel is supplied as soon as the ignition is turned on so the engine will start faster at colder temperatures. Built-in pressure relief prevents flooding and assures fast re-starts on hottest days. The all-steel plated case

is water tight. Mounts with two bolts. For best results, mount the pump close to the fuel tank and below the liquid level. The tank is self-priming to 18" fuel lift. Standard 12 V models require only 1 amp at max. delivery. All of the pumps shown feature a all nylon valve and plunger.

FACET NO. 40104 - 12V Neg. Ground, 4. - 1.5 PSI Max., 25GPH. 1/8 x 27 internal pipe ports.....P/N 40104.....\$39.95

FACET NO. 40105 - 12V Negative Ground, 3.0 - 4.5 PSI Max., 30 GPH. 1/8 x 27 internal pipe ports.....P/N 40105.....\$39.95

FACET NO. 40106 - 12V Negative Ground, 4.5 - 6 PSI Max., 30 GPH. 1/8 x 27 internal pipe ports.....P/N 40106.....\$39.95

FACET NO. 40163 - 12V Neg. Ground, 2.5-1.5 PSI Max, 17 GPH, 1/8 x 27 internal pipe ports.....P/N 40163.....\$53.50

FACET NO. 40164 - 24V Negative Ground, 4-C PSI Max, 30 GPH, 1/8 x 27 internal pipe ports.....P/N 40164.....\$45.85

FACET NO. 40171 - 12V Neg. Ground, 3.5 - 2 PSI Max, 15 GPH, 1/8 x 27 internal pipe ports.....P/N 05-40171.....\$51.75

FACET NO. 40288 - 12V Neg. Ground, 4.5 - 3.0 PSI Max, 30 GPH, 1/8 x 27 internal pipe ports.....P/N 05-06860.....\$43.80

FACET NO. 40289 - 12V Neg. Ground, 0 GPH, 1/8 x 27 internal pipe ports.....P/N 05-06861.....\$43.80

FACET NO. 40108/40154 - 12V and 24V electric fuel pumps which have AN-style 37° male "dash 6" fittings built into the fuel pump to provide a simpler fuel line hookup than with the internal pipe threads on the older Facet fuel pumps.
4-6 PSI.....P/N 40108 (12V).....\$46.50
15 GPH.....P/N 40154 (24V).....\$47.85

Facet filter for solid-state pumps.....P/N 479735.....\$4.45
Facet Gasket & Filter FEP 42370.....P/N 05-01019.....\$6.75

The pumps above do not feature an anti-siphoning valve and fuel will flow through them in event of pump failure.

NGK SPARK PLUGS

Note: The spark plugs listed are not for aircraft application

EP

DCPR7E



| Size | Description | Part No. | Price |
|-------|---------------------------------|----------|---------|
| 10mm | CR5HSB | 08-06263 | \$2.25 |
| 12 mm | DCPR7E | 08-00504 | \$3.65 |
| 12 mm | DCPR8E (Removable Terminal Nut) | 08-01228 | \$3.65 |
| 12 mm | DCPR8E (Solid Terminal Nut) | 08-07044 | \$3.65 |
| 12 mm | DR8EA | 08-00693 | \$2.55 |
| 14 mm | BR8EIX | 08-00650 | \$9.50 |
| 14 mm | B8ES (Solid Terminal Nut) | 08-00730 | \$2.65 |
| 14 mm | BR8ES | 08-00736 | \$2.50 |
| 14 mm | B7ES | 08-07039 | \$2.35 |
| 14 mm | B9ES | 08-07040 | \$2.35 |
| 14 mm | BR7ES | 08-07041 | \$2.50 |
| 14 mm | BR9ES | 08-07042 | \$2.65 |
| 14 mm | BR7EIX | 08-07045 | \$9.50 |
| 14 mm | BR9EIX | 08-07046 | \$8.75 |
| 12mm | DP9EA-9 | 15-05219 | \$2.55 |
| 14mm | IK24 | 15-05204 | \$11.75 |

BR8EIX



SKY-TEC SOLENOIDS

Silver contacts provide 300A in-rush capability. Much higher than the original units. Strong spring and high-current coil for quick contact opening - minimizing arcing. Single coil terminal (other end connected to case).

| Model No. | Volts | Description | Part No. | Price |
|-----------|-------|--------------------------------|----------|---------|
| STS-12S | 12 | Starter Solenoid | 07-03562 | \$74.75 |
| STS-12M | 12 | Battery/Master Solenoid | 07-03564 | \$74.75 |
| STS-12A | 12 | Continuous Duty (Aux) Solenoid | 07-03566 | \$74.75 |
| STS-24A | 24 | Continuous Duty (Aux) Solenoid | 07-03567 | \$92.85 |



SKY-TEC STARTER FOR ROTAX

Manufactured by Sky-Tec, these are direct replacements for electric starters on all Rotax 912 and 914 engines. High torque and lightweight, Sky-Tec Rotax starters crank 10% faster and draw less current than stock Rotax starters. Certified for use in many S-LSA certified aircraft and all experimental aircraft. 4.1 lbs. Not FAA PMA Approved.

P/N 07-01263 \$399.00

K&N AIR FILTERS

Rubber end cap instead of chrome makes this filter less likely to create damage in the event of a prop strike. Also includes rubber boss for safety wire attachment.



K&N Air Filter # SP2704..... P/N 08-06098 \$33.96
K&N Air Filter # SP2706..... P/N 08-06099 \$45.36
K&N Air Filter # RC-2314 P/N 08-07291 \$142.95

See website for engine applications.

K&N OIL FILTERS



K&N powersports oil filters are 'TUV' product endorsed and 'TUV' factory production monitored. This means every K&N oil filter is equal to or will exceed all OEM specifications. Our filters contain a modern synthetic filter media, designed for ultimate flow with less pressure drop, yet engineered for outstanding filtration to meet or exceed all OEM specifications. All K&N powersports 'spin-on' oil filters feature a heavy-duty metal can with a 17mm nut affixed onto the end that allows for easy installation and removal. The 17mm nut is crossed-drilled so racers can safety wire the filter to their bike.

K&N OIL FILTER KN-141..... P/N 08-06231..... \$9.75
K&N OIL FILTER KN-142..... P/N 08-00691..... \$9.75

K&N AIR FILTERS

Our K&N Filters are the industry standard in excellence. All filters are constructed with ultra-strong molded pliable rubber flanges which absorb vibration and provide secure attachment. These flanges can be stretched up to 1/8" (3mm) to fit in-between sizes. K&N Universal air filters are available in round, tapered, and oval designs, to fit just about any application. Use the dimensioned sketch and the selection chart to find the filter best suited to your application.

| Part No. | K&N Part No. | Application | Throat | Length | Dia. | Style | Price |
|----------|--------------|--------------------------------|---------|--------|--------|----------------|---------|
| 08-01053 | FRV2440 | Rotax®/Bing 36mm | 2" | 2" | 5-3/8" | Round Straight | \$69.75 |
| 08-01273 | RU0600 | Mikuni 32mm | 2-1/4" | 4" | 3-1/2" | Round Straight | \$40.75 |
| 08-04977 | RU0800 | Mikuni 34mm | 2-1/2" | 4" | 3-1/2" | Round Straight | \$43.75 |
| 08-04980 | FRC0930 | Kawasaki/Mikuni 32mm | 2-3/4" | 3" | 5" | Round Straight | \$35.95 |
| 08-04981 | FRC1250 | Mikuni 36mm | 2-1/4" | 4" | 2" | Cone | \$49.85 |
| 08-04978 | RU2690 | Rotax®/Bing 32mm | 1-3/4" | 2-1/2" | 2" | Cone | \$38.50 |
| 08-01274 | RC1350 | Rotax®/Bing 36mm | 2-1/16" | 4" | 3" | Round Straight | \$51.99 |
| 08-01275 | RC1200 | Rotax®/Bing 36mm | 2-1/16" | 4" | 2" | Tapered | \$48.50 |
| 08-04979 | RC2820 | Rotax® 532/582 Dual Carbs | 2-1/16" | 3" | 8-1/2" | Dual Oval | \$64.75 |
| 08-04976 | RC2720 | Rotax® 503 Dual Carbs | 2-1/16" | 3" | 8-1/2" | Dual Oval | \$64.75 |
| 08-04977 | RU0800 | Mikuni 34mm | 2-7/16" | 4" | 3-1/2" | Straight | \$43.75 |
| 08-01278 | RU2790 | Rotax® 503/532 Aerobatic carb. | 3-1/2" | 4-1/2" | 3-1/2" | Cone | \$44.50 |
| 08-01279 | RA045V | Rotax® 912 Offset | 2" | 2" | 5-7/8" | Round offset | \$66.75 |
| 08-01280 | RU0810 | Rotax® 814 Rd. Center | 2-7/16" | 5" | 3-1/2" | Round Centered | \$47.50 |
| 08-04983 | FRC1890 | Rotax®/Bing 36mm | 2-1/16" | 3" | 3" | Round Straight | \$53.75 |
| 08-04984 | FRC1150 | Rotax®/Bing 36mm | 2-1/16" | 3" | 3-1/2" | Round Straight | \$56.75 |



K&N FILTER CHARGER OIL

K&N Air Filter Oil is the only oil specially formulated to work in combination with the cotton fabric in K&N Filtercharger elements, providing a superior air filtration system. When used as directed, it quickly penetrates the filter pleats, where it remains suspended in the cotton fabric. Saturation is maintained until the element is cleaned with K&N Air Filter Cleaner.

- 6.5 oz. aerosol can - red P/N F99-0504 **\$12.90**
- 8 oz. squeeze bottle - red P/N F99-0533 **\$10.95**

K&N POWER KLEEN



K&N Air Filter Cleaner is the only cleaner recommended to clean K&N Air Filter elements. K&N Air Filter Cleaner works to dissolve dirt build up and old filter oil and can be washed away with water. It is environmentally friendly and safe on paint, chrome, cast aluminum, plastic, rubber and vinyl when used as directed (do not use on polished or anodized aluminum). Complete instructions on bottle.

- 12 oz. Spray P/N 05-01944 **\$13.50**
- 32 oz. Trigger Spray... P/N 15-06511 **\$20.50**
- 1 Gallon Refill P/N 15-05451 **\$29.95**
- 5 Gallon Pail P/N 08-07461 **\$86.95**

K&N RECHARGER KIT



K&N Recharger® kits contain K&N air filter cleaner and air filter oil for recharging any K&N Filtercharger® Air Filter. Restores air flow efficiency so your K&N air filter performs like new! P/N 08-00722 **\$18.50**

E-Z HEAT 912 ENGINE PREHEATER



The E-Z Heat Engine Preheater system fits the Rotax motors and many other light sport aircraft on the market today. The system consists of two heater pads connected with a common "Light Bright" power cord. Installation is easy by peeling and sticking a pad on both the sump and on the oil tank to assure the engine gets the proper amount of heat.

P/N 07-01860 **\$163.75**

REIFF PREHEATER FOR ROTAX 912/914



The Reiff preheat system for Rotax 912 and Rotax 914 aircraft engines is an engine-mounted electric preheat system designed for easier cold-weather starts. The preheat system consists of a 100-watt metal "hot strip" element, which is epoxied to the bottom of the crankcase, and a 50-watt band heater that is clamped to the oil tank. The Reiff is FAA-approved, and includes a thermostat to keep the oil from exceeding 150° F.

110V P/N 08-06219 **\$266.95**

TANIS PREHEAT SYSTEM FOR ROTAX 912/914 SERIES ENGINES



Preheat system for Rotax 912/914 series engines. Kit contains heating elements for each cylinder, crankcase, and oil sump..... P/N 08-07395 **\$720.00**

TANIS PREHEAT SYSTEM FOR JABIRU 3300 ENGINES



Preheat system for Jabiru 3300 engine. Includes heating elements for each cylinder and oil sump, complete wiring harness and installation hardware.

P/N 08-07088 **\$499.00**

TEMPEST ROTAX OIL FILTERS



The filter has all the features which have made the Tempest oil filter so popular, including the magnetic secondary filtration system, and higher burst pressure. Full Can Thickness:.019". Base Plate Thickness:.100". Burst Pressure:275-325. Media Size:118 sq. in.

P/N 08-07226 **\$22.50**

ROTAX OIL FILTER 825-012



825-012 Oil Filter - Rotax 912-914 New Style with 14 flute head. Original factory replacement filter. Order #9601 Oil Filter Wrench instead of #9599 8 flute. Changed by Rotax 5/24/11. Genuine factory Rotax 912-914 oil filter. Not a foreign substitute. Measures 3 1/8 diameter x 2 5/8 high.

P/N 08-06100 **\$19.95**

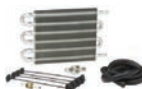
CHALLENGER STAINLESS STEEL MICRONIC OIL FILTER FOR ROTAX 912/914 ENGINES



The filter element is made from medical grade, type 304 stainless steel micronic filter cloth providing unmatched protection against oil contamination and resultant engine damage.

A rare earth magnet is installed in the top of the element for magnetic pre-filtering of the oil. The unique twist lock design allows for easy disassembly, inspection and cleaning. The quad-ring gasket doubles the seal between the filter and the engine. P/N 08-07174 **\$195.50**

LIGHTWEIGHT OIL COOLER FOR HOME BUILTS



Lightweight, compact oil cooler improves cooling in closely cowled homebuilts. Mounts in any position. Furnished with 4 ft. of 5/16" I.D. hose and 4 clamps. Size 7-1/2H x 12-3/4L x 3/4D..... P/N 403 **\$63.50**

ROTAX 912 13MM OIL COOLER HOSE



912 Oil Cooler Hose 13mm high heat hose for 912-914 oil coolers. Sold by the foot..... P/N 15-06907 **\$8.95**

AEROSHELL OIL SPORT PLUS 4



AeroShell Oil Sport Plus 4 is ideal; as it is extremely resistant to the immense sheer forces that occur in areas of high-pressure contact such as high-speed gearboxes, valve trains, bearings, pistons and liners. This is where the blend of base oil and additives is most crucial. **DO NOT use AeroShell Oil Sport Plus 4 in engines that are designed to use Ashless Dispersant aviation piston engine oils such as AeroShell W Oils.** This includes air cooled Teledyne Continental Motors, Textron Lycoming and Jabiru engines.

- 4 Cycle Sport Plus 4 Oil (Liter) P/N 08-07048 **\$11.50**
- 4 Cycle Sport Plus 4 Oil (Case of 12) P/N 08-07047 **\$134.00**

QUAKER STATE 2 CYCLE AIR COOLED OIL



Two-cycle oil for air-cooled engines. Recommended by engine manufacturers for air- and water-cooled engines.

- 8 oz. Single Bottle P/N 08-06261 **\$2.70**
- Case of 8 oz. Bottles P/N 08-06260 **\$64.75**

MOBIL 1 RACING 4T FULL SYNTHETIC MOTOR OIL



Mobil 1 Racing 4T oil meets all the requirements for Rotax 4 stroke aircraft engines. This is a full synthetic oil designed for motorcycles, however is an excellent choice for Rotax 4 stroke aircraft engines because of the gearbox and close internal tolerances

P/N 08-13892 **\$16.95**

SAF-AIR OIL DRAIN SUMP VALVES



Changing engine oil has never been easier. With the Saf-Air oil Drain Valve, no wrench is needed to remove the drain plug. A simple push and turn of the Saf-Air valve locks it in the open position. The valves are made completely from aluminum & stainless steel parts. FAA & PMA APPROVED

| Part No. | Engine Application | Thread | Price |
|----------|--------------------|-------------|----------------|
| M12175 | ROTAX 912, 914 | 12mm x 1.75 | \$43.95 |
| S5020J | Jabiru 2200 / 3300 | 1/2"-20 | \$45.60 |
| M20150 | Subaru 2.2L / 2.5L | 20-1.50mm | \$54.75 |

S6250

LORD ENGINE MOUNTS FOR ULTRALIGHTS



All altitude mounts for vibration isolation and shock prevention in all directions. Available in soft, medium, or hard rubber.

- Soft P/N 08-07049 **\$24.85**
- Medium P/N 08-01013 **\$22.99**
- Hard P/N 08-07050 **\$18.85**
- Snubbing Washer P/N 9810145-01804 **\$1.42**



ROTAX EXHAUST SPRING 938-795

Genuine Rotax replacement spring for use with Rotax exhaust systems 277/377/447/503,618,912 UL,912 ULS. 66mm (2.60") hook distance. Part #938-795 Spring 2-1/4" with a 5/8" diameter.

P/N 08-06101 **\$3.39**



EP

LOCTITE® 243 THREADLOCKER BLUE MED STRENGTH



Loctite® Blue Threadlocker 243™ (Aftermarket Only) is designed for the locking and sealing of threaded fasteners between 1/4" and 3/4" (6 to 20 mm), which require normal dis-assembly with standard hand tools. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. The thixotropic nature of Loctite 243 reduces the migration of liquid product after application to the substrate. Loctite 243 provides robust curing performance. It not only works on active metals (e.g. brass, copper) but also on passive substrates such as stainless steel and plated surfaces. The product offers high temperature performance and oil tolerance. It tolerates minor surface contaminations from various oils, such as cutting, lubrication, anti-corrosion and protection fluids.

10 ml Bottle..... P/N 15-02562 **\$18.50**

LOCTITE® 648 GREEN



LOCTITE® 648 Retaining Compound:
Press Fit / High Strength / Rapid Cure. A retaining compound recommended for continuous working temperatures up to 356°F (180°C). Fills gaps up to 0.006 in. diametral clearance. Fixtures in 10 minutes.

Technical Data:

Strength Required - High

Shear Strength (N / mm²) - 4,480 psi (31)

Temperature Resistance - 356°F (180°C)

50 ml Bottle..... P/N 15-02633 **\$21.50**

LOCTITE 480 INSTANT ADHESIVE TOUGHENED



Henkel Loctite 480 Prism is a low viscosity, rubber toughened instant adhesive with increased flexibility and peel strength along with enhanced resistance to shock. It is designed for bonding OEM assembly metal, rubber and select plastics.

20 g Bottle P/N 15-09283 **\$66.11**

LOCTITE 574 FLANGE SEALANT



Loctite® 574™ Flange Sealant seals close fitting joints between rigid metal faces and flanges. Because it is fast curing, it provides resistance to low pressures immediately after assembly of flanges.

50 ml Bottle..... P/N 15-02629 **\$24.85**

LOCTITE 603 RETAINING COMPOUND



LOCTITE® 603 is for the bonding of cylindrical fitting parts, particularly where consistently clean surfaces cannot be assured. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. Typical applications include retaining roller bearings or oil impregnated bushings into housings.

10 ml Bottle..... P/N 15-02634 **\$36.67**



LOCTITE 8151 ANTI SEIZE

LOCTITE LB 8151 is a heavy-duty anti-seize spray designed to prevent joints from seizing and corroding when exposed to high temperatures such as encountered in the exhaust from combustion engines and in fittings for oil and gas burners. The product is typically used in applications with an operating temperature range of -30 °C to +900 °C.

50 mL Bottle P/N 15-00479 **\$31.17**



SOFLEX TOPAS NB 5051 GREASE 400 GRAM CARTRIDGE

ISOFLEX TOPAS NB 5051 is a beige-colored, homogeneous, short-fibred long-term grease for a wide service temperature range. It is a dynamically light grease consisting of synthetic hydrocarbon oil and barium complex soap. The barium complex soap used is not classified as harmful under the EU Directives on dangerous substances.

400 Gram Cartridge..... P/N 15-08430 **\$186.75**



ROTAX 297-433 MOLYKOTE G-N, SLIDE PASTE

297-433 Moly-Kote GN Assembly Paste.

80 g Tube..... P/N 15-00478 **\$97.56**



HENKEL LOCTITE 5910

Henkel Loctite 5910 is a one component RTV silicone designed for applications where good oil resistance and ability to withstand high joint-movement is required.

300 mL Cartridge P/N 15-0726 **\$54.95**



WACKER® SILICON-HEAT COMPOUND P 12

Pure white, soft consistency, heat sink paste with marked thermal conductivity. Electrically insulating tolerance.

P/N 15-02540 **\$164.50**



ROTAX 297-386 SILASTIC 732 RTV

297-386 RTV 732 Dow Corning Multi Purpose Sealant.

90 ml Tube..... P/N 15-00475 **\$53.19**



CRC MULTI-PURPOSE SUPER WHITE GREASE

A high purity, NLGI Grade 2 multi-purpose white lithium grease. Provides superior lubrication & durability in any weather and most temperatures. Bright white in color. Ideal for when appearance is important.

14 Oz Tub P/N 15-06285 **\$9.95**

SEE WWW.CPS-PARTS.COM FOR ADDITIONAL LUBRICANTS

GPL ELECTRIC STARTERS

GPL Electric offers an electric starter kit for several rotax engines. This unique system not only allows you to retain pull start, but also allows you to keep oil injection (if present) otherwise, a cover plate can be used (if space constrained). This system safely engages the ring gear at a 90 degree angle, then fully disengages from the crankshaft. The gpl electric starter kit will not disable the engine due to malfunction, so it is the safest designed after market starter kit available for rotax engines and is made in the U.S.. GPL Electric also provides excellent warranty, comprehensive technical support and maintains a full replacement of parts inventory.

GPL STARTER KITS FOR ROTAX ENGINES



GPL Electric Starter Kit Includes:

(M8 Hi Collar Split Washer, (M6 X 90) Socket Head Cap Screw, (M6) Hi Collar Split Lock Washer, (M6 X 18) Socket Head Cap Screw, (M6) Split Lock Washer, (M8 X 25) Socket Head Cap Screw, (M8 X 22) Low Profile Socket Head Cap Screw, Main Casting (D3) Sits In The 10:00 Pos or Main Casting (D4) Sits In The 11:00 Pos, Ring Gear, Inner Spacer, Starter Motor (Heavy Duty), Loctite 242 Threadlocker, Installations Instructions, and Coverplate (If Not Retaining Pull Start)

If Retaining Pull Start The Following Is Also Required

Outer Spacer (1), (M8 X 12) Hex Head Cap Screw (3), (M8) Split Lock Washer (3), and (M6 X 22) Socket Head Cap Screw (4)

| Application | Model No. | Part No | Price |
|---------------------------------|-----------|----------|-----------------|
| Rotax Engines (377,447,503) | 03-001 | 15-06473 | \$635.17 |
| Rotax Engines (462,582,618,670) | 03-004 | 15-06472 | \$635.17 |
| Rotax Engines (532 CDI) | 03-005 | 15-08364 | \$635.17 |
| Rotax Engines (532 POINT) | 03-006 | 15-08365 | \$635.17 |



GPL RETAIN PULL START KITS

Retain Pull Start Kit: Engine Specific Outer Spacer And Required Hardware (nuts/bolts).

| Application | Model No. | Part No | Price |
|---------------------------------|-----------|----------|-----------------|
| Rotax Engines (462,582,618,670) | 02-29 RO | 15-05373 | \$135.00 |
| Rotax Engines (377,447,503,532) | 02-29 SO | 15-05374 | \$135.00 |



GPL DELUXE STARTER KITS

The Deluxe Starter Kit Includes: Rubber Insulating Boots, Push Button Switch, Solenoid, Regulator/rectifier, 20 Amps Fuse / Fuse Holder, Cables & Wiring (aircraft Specific), Hardware (nuts/bolts). Deluxe Add On Kits Weighs 3 Lb

| Application | Model No. | Part No | Price |
|-------------------------------------|-----------|----------|-----------------|
| Challenger Air Crafts (11 ft Cable) | 03-009-11 | 15-08341 | \$173.50 |
| Other Air Crafts (5 ft Cable) | 03-009-05 | 15-08340 | \$173.50 |



GPL ELECTRIC REPLACEMENT STARTER MOTORS

This motor fits all GPL Starter Kits and the Hirth F23 Engine as well. Heavy Duty Starter Motor Model 02-70HD

P/N 15-05371 **\$262.64**



REPLACEMENT STARTER MOTOR FOR ROTAX

(Replaces Rotax P/N 995-430) Voltage: 12 kW: 0.6 Condition: New Rotation: CW Starter Type: PMDD Number of Teeth: 9 Gear OD: 1.154" / 29.3mm Mtg Ear 1 Hole: M8-1.25 Threaded Mtg Ear 2 Hole: M8-1.25 Threaded Weight: 5.2 lbs / 2.36 kg. Model No. 02-80 P/N 07-02388..... **\$199.00**



GPL CLOCKWISE STARTER F33 AND CUYUNA

GPL clockwise starter f33 and cuyuna. P/N 15-08398..... **\$262.64**



GPL PULL START RETENTION KIT

GPL pull start retention kit for Rotax 337, 447, 503, 532 - points and 532 - CDI. P/N 15-05374..... **\$135.00**



GPL OIL INJECTION DRIVE KIT

GPL oil injection drive kit long nut pull start. P/N 15-08397..... **\$52.53**



GPL PULL START RETENTION KIT

GPL pull start retention kit for Rotax 462, 582, 618, 670..... P/N 15-07970..... **\$135.00**



GPL PUSH BUTTON SWITCH

GPL push button switch - 02-22 P/N 15-08396..... **\$25.50**

SEE WWW.CPS-PARTS.COM FOR A COMPLETE LIST OF REPLACEMENT PARTS.

ROTAX GEARBOX & ACCESSORY DVD VIDEO



This DVD is designed to illustrate how many of the systems on your powerplant are installed, maintained, and serviced. For individuals new to Rotax aircraft engines this DVD will offer a unique look into what goes into setting up and maintaining a trouble free powerplant. This video, the third in our series of instructional DVD's, takes you through the service, inspection, and installation of all popular Rotax Gearboxes, electric starters, carburetors, cabling, and fuel pumps.

We show you how to completely disassemble and service every part on all four Rotax gearboxes in a clear and concise presentation that only a video can provide. This includes a detailed illustration of what tools are needed to perform the work as well as ways to accomplish certain tasks with a minimum of first time frustration. Just the kind of inside knowledge you can't find in printed literature. If you are building a new aircraft or want to upgrade to another gearbox, we show you exactly how to install any drive using all proper torque valves, Loctites, and sealants.

The on-screen copy even gives you the wrench size you need for every step. After illustrating all popular gearboxes we show you how to install a Rotax electric starter.

AP



DVD WITH NEW 2 STROKE ENGINES

A CPS exclusive - Installation DVD. Expert advice and details on how to set-up new 2 stroke engines. 75 minutes.

DVD Install (94 min) P/N 15-05940..... **\$29.00**

CPS REBUILD VIDEOS

Our series of Rebuild DVD's detail every step in rebuilding Rotax 447-503 or 582 engines. A third video shows how to service, inspect, and install all Rotax gearboxes, Carburetors, Starters, Fuel pumps.



DVD503 - 447-503(109 min.)P/N 15-05883 **\$19.95**
 DVD582 - 582 (113 min).....P/N 15-05904 **\$39.95**
 DVDGB - All Gearbox (116 min).....P/N 15-05934..... **\$18.95**
 DVDInstall (94 min)P/N 15-05940 **\$29.00**

Features:

Easy Access: Navigating your DVD is easy with our handy chapter and scene index booklet showing every screen title in chronological order. On-screen menus guide you quickly to any subject matter with a push of your remote control. Our DVD's play on most any DVD player in any part of the world and are CSS Encrypted for piracy protection.

What's Included in the package:

1. All our DVD's include a chapter and scene index booklet showing every screen title in chronological order making navigation to a particular screen quick and easy. A Tool List gives you a detailed checklist of the items you need to do the work.
2. A 12" x 15" Heavy-duty plastic laminated checklist gives you all inspection tasks (Rotax Recommended Scheduled Maintenance and time intervals plus a handy pre-flight checklist.
3. An 8-1/2" x 11" Heavy-duty plastic laminated chart gives you every torque value in inch pounds, foot pounds, and Newton-Meters for any Rotax two-stroke. Wrench size, bolt size, Loctite, and sealant for every fastener is clearly listed. Both our durable plastic laminated checklists are ideal for shop or cockpit use.

ROTAX OIL INJECTION RESERVOIR WITH LOW LEVEL SENSOR



This all new Rotax factory designed part is ideal for mounting on firewall or with special brackets provided attached right to the cylinder head. Translucent white color easily shows fluid level. The 2.5 liter tank holds enough oil to mix with over 35 gallons of main tank supply. Fly for nearly 10 hours without refilling. When the level does get low a built-in sensor signals a dash light (not included) warning you it's time to refill. Sensor system uses 12 volts D/C. Available with mounting brackets for mounting to 532-582 directly over exhaust manifold. Can also be used on Rotax 503, but does require some user modifications. Reservoir must be located above the pump for gravity feed. Full kit includes reservoir, 24" of line, mounting hardware, in line filter, low-level sensor, and vented cap. Rotax Reservoir System P/N 881-465 **\$226.30**

Reservoir With Sensor, Tubing, Filter, Cap, And Mounting Studs Only
 P/N 881-460 **\$169.73**

2 QUART RESERVOIR



This high density polyethylene tank is ideal for Oil Injection Reservoir or Coolant Overflow. Translucent white color easily shows fluid level. Tank is blown molded with a 1/4" thick seamless construction and includes rugged mounting tabs that mount to any flat surface. Includes a threaded 2-1/4" vented cap with tether to prevent loss. Sealed tank without drain. Bottom access is easy for either push in fittings or

threaded bulkheads with plenty of access thru large cap opening. Order separately. Tank measures approx. 5" high x 6" wide x 4" thick. Requires 8-1/2" wide flat surface for mounting.

Weight 8 oz. P/N 13581..... **\$24.00**
 Replacement Cap..... P/N 30260..... **\$4.35**

4 QUART OIL OR WATER RESERVOIR



This high density polyethylene tank is ideal for Oil Injection Reservoir or Coolant Overflow. Translucent white color easily shows fluid level. Tank is blown molded with a 1/4" thick seamless construction and includes rugged mounting tabs that mount to any flat surface. Includes a threaded 2-1/4" vented cap with tether to prevent loss. Sealed tank without drain. Bottom access is easy for either push in fittings or threaded bulkheads with plenty of access thru large cap opening. Order separately. Tank measures approx. 8-1/2" high x 6" wide x 4" thick. Requires 8-1/2" wide flat surface for mounting.

Weight 20 oz P/N 13583..... **\$21.50**
 Replacement Cap..... P/N 30260..... **\$4.35**

GENUINE ROTAX OIL INJECTION FILTER



Genuine Rotax factory replacement filter for Rotax injection system #881-465. Fits 956-230 Injection hose perfectly. P/N 956-330 **\$29.35**

COOLANT RECOVERY - OIL INJECTION RESERVOIR



This white plastic tank and steel rack holder is ideal for coolant recovery. Translucent white color easily shows fluid level. Wire mounting cage cradles tank securely, while offering a wide range of mounting options. See through feature allows fluid level to be seen easily. Can also be used as an oil injection reservoir. Side port accepts 3.8" i.d. tubing.

P/N 1609..... **\$16.65**

KEVLAR COVERED FIRE-RESISTANT HOSE



Genuine Rotax factory replacement for oil injection supply line. Also used on Rotary Valve supply lines. Completely fire-resistant. Sold in one meter lengths only. Beware of cheap imitations

P/N 15-03510 **\$53.79/m.**

2-1/2 GALLON FUEL TANK



This high density polyethylene tank is ideal for Fuel Tank in tight places. Tank is blown molded with a 1/4" thick seamless construction. Translucent white color easily shows fluid level. Includes a threaded 2-1/4" vented cap with tether to prevent loss. Sealed tank without drain. Bottom access is easy for either push

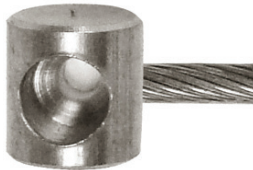
in fittings or threaded bulkheads with plenty of access thru large cap opening. Order separately. Tank measures approx. 8" high x 13" long x 6" thick.

Weight: 30 oz. P/N 13585..... **\$36.85**



10' THROTTLE OR CHOKE INNER WIRE

Measures .064" (1.5mm) diameter 1 x 19 construction. #7417 solder swage factory installed on one end only. Includes 1 @extra #7417 and #7415 swages loose in package. Ideal for Bing or Mikuni Carbs. #7417 swage fits Carb slide or choke plunger perfectly. Length 120".
P/N 7407..... \$4.75



ROTAX 912-914 10' CHOKE WIRE

Measures .064" (1.5mm) diameter 1 x 19 construction. #7416 solder swage factory installed on one end only. Includes 1 @extra #7416 and #7415 swages loose in package. Ideal for Bing Carbs on 912 (order 2). #7416 swage fits 912-914 Carb choke arm perfectly.
P/N 7408..... \$6.50



THROTTLE AND CHOKE WIRE

Measures .064" (1.5mm) diameter 1 x 19 construction. Same as #7407. Ready to accept solder swage #7417. Fits inside either #7403 or #7405 housing. Sold by the foot or in 50' rolls.
P/N 7409..... \$0.45 ft.



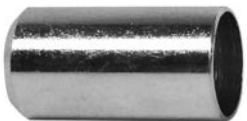
THROTTLE HOUSING

For #7407 or #7411 inner wire. Rectangular chrome steel wire core with abrasion resistant black cover. Measures .190" (5mm) od. by .090" i.d. Our most popular housing for throttle and chokes. Sold by the foot.
P/N 7403..... \$0.85 ft.



HEAVY-DUTY THROTTLE HOUSING

For #7407 or #7409 inner wire. Rectangular chrome steel core with nylon inner liner. Abrasion resistant black cover. Measures .215" (5.5mm) od. by .086" i.d. Sold by the foot.
P/N 7405..... \$1.65 ft.



STEEL FERRULE

Slips over #7403 throttle housing. Can be crimped or rolled for a permanent installation. .220" od. by .445" long. Drilled for .064" wire.
P/N 7413..... \$0.75



STEP-DOWN STEEL END FERRULE

For use with #7405 heavy-duty housing. Small end fits all other fittings. Can be crimped or rolled for a permanent installation. Measures .787" long. Drilled for .064" wire.
P/N 7414..... \$0.99



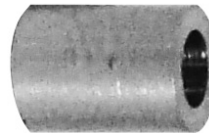
1/16" STOP SWAGE

For use with #7407 or #7411 Control wire. Can be installed with standard swaging tools. Made of a compressible copper alloy. Will not fit Card slide or choke plunger when swaged. See part #7417.
P/N 7415..... \$0.38



SOLDER POT

used for installing #7417 solder swages or any connector that needs to be dipped soldered. Just flux line with swage installed and dip for 10 seconds. Includes 48" 110 volt power cord. Draws under 250 watts. A must for the serious homebuilder.
P/N 7425..... \$249.95



1/16" SOLDER STOP SWAGE

For use with #7407 or #7411 inner control wire. Must be properly peened and dip soldered to create a secure bond. Requires solder pot, etc. for installation. See P/N 7425 above. Fits Mikuni and Bing Carb slides and choke plungers perfectly.
P/N 7417..... \$0.55



582-618 OILER SWAGE

Fits the oil injection pump arm precisely. .250" od. x .360" length. Drilled for #7411 inner wire.
P/N 7416..... \$0.85



503 OILER SWAGE

Fits the oil injection pump arm precisely. 5/16" od. x 3/8" length. Drilled for #7411 inner wire.
P/N 7418..... \$1.39



WIRE STOP

Is ideal for securing cable ends. Removable and completely reusable. For use on any size cable up to 3/32". Measures 1/4"OD x 6x32 threads x 3/8" long.
P/N A2360..... \$0.85



WIRE SWIVEL

The same as above with end collar. Ideal swiveling anchor for brake or throttle cables up to 3/32" Measures 1/4" OD x 6x32 threads x 1/4" long.
P/N A2361..... \$0.75



MIDWAY CABLE ADJUSTER

For use the #7403 cable housing. Measures 2.75" but extends to 3.375" to remove slack from cable housing. Positive locking nut maintains adjustment.
P/N 7421..... \$5.75



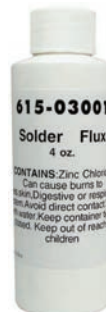
CABLE ADJUSTER BULKHEAD

Adjuster accepts either #7403 or #7405 housing with ferrule installed. Used where cable meets oil injection pump or where an adjustable end is needed. Includes extra locking nut. Measures 1.675" long.
P/N 8121..... \$3.85



BAR SOLDER

1 1/2 lbs. of the finest solder available to secure end fittings. Enough to last for years.
P/N 7427..... \$60.00



CABLE FLUX

For soldering cables. 3 oz. bottle enough for up to several hundred cables.
P/N 7429..... \$16.50

AP



CPS THROTTLE LEVER

The perfect answer to any throttle and choke operation. The compact cast aluminum control allows easy access for standard casing and 1/16" control wire. Eliminates the need for expensive and bulky quadrants that require special mounting and end fittings. Block is countersunk to accept throttle casing as shown. Inner wire wraps smoothly around wheel providing a full 2" travel (Bing Carbs need 1 1/2" travel) in less than 1/2 revolution of the handle. Set screw shown firmly anchors wire. Back up swage makes for a fail-safe and completely variable length and design. Precision tension adjusting makes for a throttle that positively stays where you set it. Mounts to any 3/16" or 6mm fasteners. Bolt centers are 1 7/8" Handle measures 3" long. A precision made control manufactured in Germany..... P/N 7109..... **\$16.50**



COMPACT THROTTLE LEVER

This compact aluminum control allows easy access for standard casing and 1/16" control wire. Eliminates the need for expensive and bulky quadrants that require special mounting and end fittings. Block is countersunk to accept throttle casing as shown. Inner wire wraps smoothly around wheel providing a full 2" travel (Bing Carbs need 1 1/2" travel) in less than 1/2 revolution of the handle. Set screw shown firmly anchors wire. Back up swage makes for a fail-safe and completely variable length and design. Short handle controls precision tension adjuster that makes for a throttle that positively stays where you set it. Mounts to any 3/16" or 6mm fasteners. Bolt centers are 1 7/8" Handle measures 2" long. A precision made control manufactured in Germany. P/N 7111..... **\$14.95**

DUAL HANDLE DUAL CHOKE CONTROL



This lightweight aluminum control allows for precise control over both Carb chokes in a single compact unit. Uses precision gear driven movement that accepts #7403 or #7405 casing and 1/16" control wire. Uses #7417 solder swage to mate with internal gear slug. Center screw allows for precise tension control of levers. Ideal for an operators that knows how to diagnose an engine problem with choke controls. Provides 3/4" travel range. Not designed for throttles. Mounts with any 3/16" or 6mm fasteners. Mounts to any flat vertical surface. Bolt centers are 1 7/8". Handle measures 2-1/2" long. A precision made control manufactured in Germany. P/N 7115..... **\$34.95**

SHORT JUNCTION BLOCK



for dual carb linkage on any Rotax engine. Three gang outlet can be used dual carbs or with three way oil injection and dual carbs. Converts a single throttle line into as many as three lines. Measures 5/8" x 3 1/2" long. Provides 2" of slide travel P/N 7703..... **\$13.85**

LONG JUNCTION BLOCK



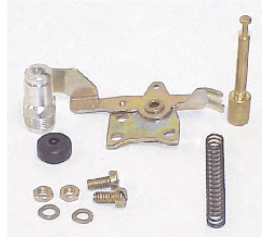
Same as above with new long reach. Same three gang design with a full 2 3/4" slide travel. Assures full throttle opening is not limited to slide travel. Custom mounting bracket is available for mounting to any flat surface. Measures 5/8" x 4 1/4" long. P/N 7704..... **\$14.85**

CABLE LUBER SYSTEM



Don't take chances with sticking throttle, brake, and choke cables. Prevent cable freezing and extend cable life by lubricating cable with the "Cable Luber" system. Special precision machined lube block allows ease of lubrication between cable and housing without removing the cable. Just attach the Cable Luber to either end of the cable and insert nozzle from aerosol can. Specially designed seals in block force lube down inside cable housing. A must for the serious mechanic. Cable Life Aerosol lubricates and rustproofs moving parts even at temperatures far below -50 degrees.

Luber Block..... P/N 7431..... **\$8.95**
Complete Kit Part..... P/N 7435..... **\$22.75**



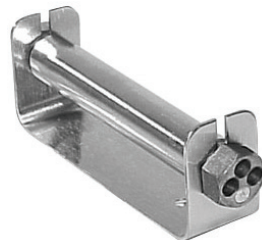
BING LEVER CHOKE KIT

Includes all parts to convert cable choke Carbs to manual lever actuation. Includes all parts shown. Carb must have choke provision..... P/N 7658..... **\$51.90**



BING CARB CABLE CHOKE KIT W/ 8' CABLE

Includes all parts shown above plus 8' Cable Housing and inner wire with #7417 solder swage installed on one end. Ideal for single Carb applications. Does not include actuator handle. Order separately. P/N 995-660 **\$85.44**



LONG JUNCTION BLOCK MOUNTING BRACKET

Lightweight Steel Bracket is ideal for mounting a single #7704 Long Junction Block to any flat surface. Firmly mounting junction block stabilizes linkage for more precise operation. Cables slip through the specially cut slots for easy access. End caps pass through bracket holes and thread into center barrel. An inexpensive and clean answer to throttle line tangle. Stamped from chromoly steel and burnished for a bright finish. Measures 3 3/4" between ears. P/N 7657..... **\$8.50**



HOOKS & CARABINERS

Plated Formed Steel Spring Loaded Hooks SS Rigid Eye Snaps

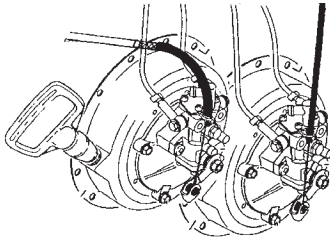
- Part #: B249S-1
- Size Eye: 5/8"
- Length Overall: 2 3/4"
- Snap Opening: 3/8" P/N 15-06048 **\$4.05**



Formed Stainless Steel Spring Hooks

| Part # | B2450-5 | B2450-6 | B2450-7 |
|-----------------------|---------------|---------------|---------------|
| Size Eye | 5/16" | 3/8" | 7/16" |
| Length Overall | 3 1/8" | 4" | 4 3/4" |
| Snap Opening | 3/8" | 1/2" | 5/8" |
| Tensile Strength lbs. | 1200 | 1700 | 2125 |
| Price | \$3.75 | \$6.50 | \$9.75 |

CPS THROTTLE & OIL INJECTION CABLES

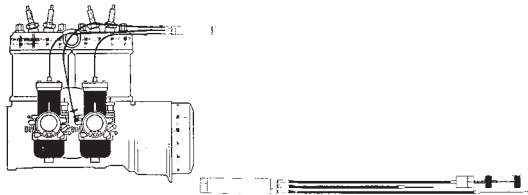
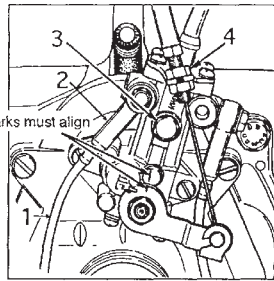


Nearly all new Rotax engines will be equipped with oil injection pumps. These pumps require a dedicated cable actuator to move the regulator arm. Our cable sets are a finished product which means you have no lengths to estimate or ends to install. Rotax 503 oil injection pumps are mounted on the recoil or mag end electric starter cover as shown

in the top illustrations. Rotax 582-618 engines have the pump located directly between both carbs as shown in the second illustration. These finished assemblies install in minutes and offer years of trouble free service. With our large selection of configurations, most any application can be accommodated with a minimum of cabling and tangle. Cables can be ordered as a matched set or any single cable separately.

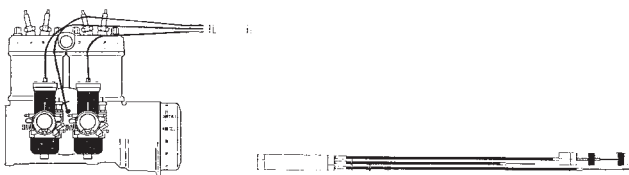
The picture at the left shows the alignment marks which must be aligned at 3000 rpm. The Oil injection cables listed here are equipped with special adjusters that allow you to fine tune your system to exact factory specs.

Our longer Junction Blocks provide extra cable travel insuring full open throttle is not limited by slide travel. The entire process of opening throttle slides and actuating the oil injection pump is smoothly transmitted down a single cable to the cockpit throttle handle.



ROTAX 582-618 SHORT REACH SYSTEM ENGINES W/ PLUGS UP

- Short Reach System - Locates Slider Near Cylinder Head
- #7705 Mag Carb Cable - 10.5" Housing \$6.95
 - #7709 PTO Carb Cable - 12" Housing \$9.95
 - #7761 Oil Injection Cable - 10.5" Housing \$7.50
 - #7704 Long Junction Block - 4 1/4" \$14.85
 - Complete System Part #7706 \$34.25



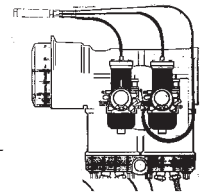
ROTAX 582-618 LONG REACH SYSTEM ENGINES W/ PLUGS UP

- Long Reach System - Locates Slider Away From Engine Block
- #7721 Mag Carb Cable - 18" Housing \$6.85
 - #7723 PTO Carb Cable - 22" Housing \$7.85
 - #7725 Oil Injection Cable - 19" Housing \$8.75
 - #7704 Long Junction Block - 4 1/4" \$14.85

ROTAX 582-618 ENGINES W/ PLUGS DOWN

Short Reach System - Locates Slider Near Cylinder Head

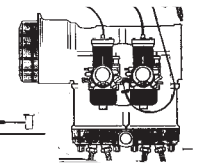
- #7705 Mag Carb Cable - 10.5" Housing \$6.95
- #7709 PTO Carb Cable - 12" Housing \$9.95
- #7712 Oil Injection Cable - 25" Housing \$9.65
- #7704 Long Junction Block - 4 1/4" \$14.85
- Complete System Part #7713 \$72.75



ROTAX 582-618 ENGINES W/ PLUGS DOWN

Long Reach System - Locates Slider Away From Engine Block

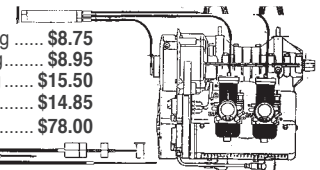
- #7721 Mag Carb Cable - 18" Housing \$6.85
- #7723 PTO Carb Cable - 22" Housing \$7.85
- #7714 Oil Injection Cable - 38" Housing \$11.70
- #7704 Long Junction Block \$14.85
- Complete System Part #7715 \$45.00



ROTAX 503 ENGINES W/ PLUGS UP

Long Reach System - Locates Slider Away From Engine Block

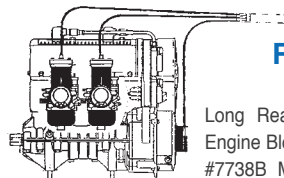
- #7738B MAG Carb Cable - 15" Housing \$8.75
- #7739 PTO Carb Cable - 18.5" Housing \$8.95
- #7741 Oil Injection Cable - 12" Housing \$15.50
- #7704 Long Junction Block \$14.85
- Complete System Part #7742 \$78.00



ROTAX 503 ENGINES WITH PLUGS UP

Long Reach System - Locates Slider Away From Engine Block

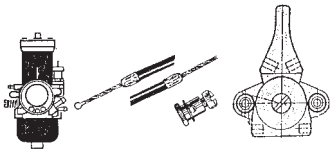
- #7738B MAG Carb Cable - 15" Housing \$8.75
- #7739 PTO Carb Cable - 18.5" Housing \$8.95
- #7741 Oil Injection Cable - 12" Housing \$15.50
- #7704 Long Junction Block \$14.85
- Complete System Part #7742 \$78.00



EXPERTS IN LIGHTSPORT AVIATION

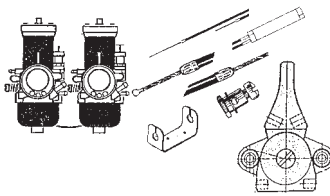
SAME DAY SHIPMENT!
GUARANTEED LOWEST PRICES!
YOUR SOURCE FOR LSA SUPPLIES!

CHOKE CABLE SYSTEMS



Being able to apply choke from the cockpit is an important tool used to diagnose engine problems. (See Part #10 "Tuning the Bing Carburetor" located in the rear of this Catalog.) In an effort to accommodate most any application our choke kits can extend to a full 10' and can be shortened to any length quickly and easily. Our dual direction control lever #7111 provides plenty of travel and makes for easy installation because it mounts to any flat surface and accepts a housing coming from either direction. Just trim outer housing to desired length, thread inner wire through handle, tighten locking screw and cut off excess wire. Available for single or dual Carbs to fit most any application. You can run both chokes from a single handle or activate both chokes separately for diagnostic purposes. Dual Carb systems use the standard junction block that can be mounted to any flat surface with the #7657 mounting brackets.

AP



SINGLE CARB CHOKE W/ #7111 CONTROL

Order #995-665 separately for Carburetor internal parts. Ideal for single choke actuation for diagnostic purposes. Order two for dual Carb dual switch applications.

7755.....10' Cable Housing w/ Switch P/N 15-04643 **\$24.75**

Kit includes the following:

| Model # | Description | Part Number |
|---------|---|-------------|
| 7407 | 10' Inner wire w/#7417 swage on one end | 15-05162 |
| 7403 | Cable Throttle housing | 15-05164 |
| 7413 | Steel Ferrule End Cap | 15-05301 |
| 7111 | Dual Direction Control | 15-08194 |
| A2361 | Wire Stop Swivel | 06-01282 |
| 7415 | 1/16" Stop Swage | 04-00899 |

DUAL CARB CHOKE

w/ Junction Block & #7111 Control
Runs both chokes from a single switch. Order #995-665 separately for Carburetor internal parts.

#7758 Kit includes the following:

7758.....10' Cable Housing w/ Switch & Slider P/N 15-04644 **\$58.50**

Kit includes the following:

| Model # | Description | Part Number |
|---------|---|-------------|
| 7407 | 10' Inner wire w/#7417 swage on one end | 15-05162 |
| 7403 | Cable Throttle housing | 15-05164 |
| 7413 | Steel Ferrule End Cap | 15-05301 |
| 7111 | Dual Direction Control | 15-08194 |
| A2361 | Wire Stop Swivel | 06-01282 |
| 7415 | 1/16" Stop Swage | 04-00899 |
| 7704 | Junction Block | 15-05450 |
| 7657 | Mounting Bracket | 15-05496 |
| 8000 | 12" Choke Cable with swage on both ends | 15-06008 |
| 6000 | 8" Choke Cable with swage on both ends | 15-06009 |

HIGH BACK MOLDED PLASTIC SEAT



These CPS seats are lightweight yet incredible strong. Contoured high back design gives excellent lower back support and rear head protection. The seats are made from double-walled, impact-absorbing plastic, so they can't rust. The seat color is molded in so it will not fade, peel, or scratch off. Internal molded openings on sides, top and bottom allow access for belt and

shoulder beats making for an added degree of safety. Molded flat 10" x 13" bottom has six metal treaded bosses for easy mounting to any flat surface or cross tube. Matching thick padded seat cover has reinforced openings for lap, shoulder, and crotch belts. Measures 32" High, 20" wide, 22" deep. Weight is 11 lbs. Order seat cover separately. Available in black only.

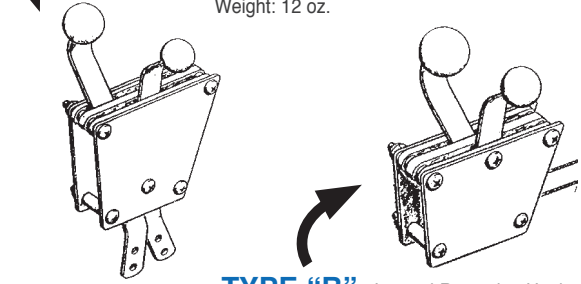
High back Molded Plastic Seat P/N 13603 **\$83.75**
Padded Seat Cover Only P/N 13605 **\$50.50**

CPS THROTTLE QUADRANTS

CPS offers a wide selection of throttle and choke quadrants to give you maximum flexibility to custom design your particular system. All plates and arms are constructed of light weight 0.125" 2024T-3 aluminum. Phonemic spacers provide for smooth operation and positive friction settings. Stop screws can easily be installed as shown for positive control of both forward and back stop positions. An optional Friction Control Knob (part #8129) can also be installed for easy in flight control of handles. Also available with optional U-shaped adapters that support cable end adjusters to support our standard cable and housing. Available in single handle or two handle units. Three handle units available on special request

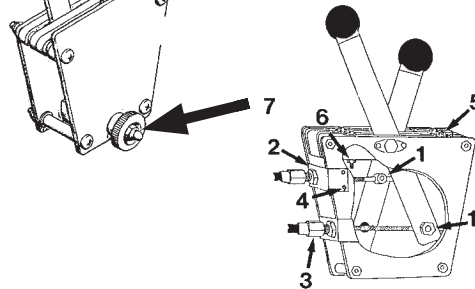
Contact CPS Customer Service at 1-800-247-9653.

TYPE "A" - External Reversing Hook-up
Can be used in tandem for dual control. Can also be used with back-up cable attached to spare hole.
Body size: 3.5" x 4"
Weight: 12 oz.



TYPE "B" - Internal Reversing Hook-up
Compact unit for restrictive placements
Body size: 3.5" x 4"
Weight: 10 oz.

TYPE "C" - Internal Reversing Hook-up
Can be used in tandem for dual control. Illustrated in cut-out below.
Body size: 3.5" x 4"
Weight: 12 oz.



| | | |
|------------------------------|---------------|----------------|
| Single Handle Type "A" | P/N 8103..... | \$78.80 |
| Single Handle Type "B" | P/N 8105..... | \$64.95 |
| Single Handle Type "C" | P/N 8107..... | \$78.85 |
| Two Handle Type "A" | P/N 8109..... | \$66.80 |
| Two Handle Type "B" | P/N 8111..... | \$64.75 |
| Two Handle Type "C" | P/N 8113..... | \$78.80 |

Throttle Quadrant Accessories:

| | | |
|---|---------------|----------------|
| (2) Adapter U-Bracket - two handle two required ... | P/N 8119..... | \$14.65 |
| (3) Cable Adjuster bulkhead..... | P/N 8121..... | \$3.85 |
| (4) Pop-rievet (four required)..... | P/N 8123..... | \$0.08 |
| (5) screw 6-32 x 1 (four required) | P/N 4707..... | \$0.10 |
| (6) 6-32 Locknut (four required) | P/N 4709..... | \$0.03 |
| (7) Friction Control Knob add to any unit..... | P/N 8129..... | \$7.65 |
| Two handle adapter kit (items 1-6) | P/N 8127..... | \$47.75 |

includes two brackets, two bulkheads, and attaching hardware

CLAMPS - TUBING - HOSES



MS21919 DG & WDG CLAMPS

Loop-type cushioned aluminum alloy clamp. Cushion (non-fuel resistant) is bonded to inner surface and edges of clamp. WDG clamps are cushion wedge type. Cushion assures tight fit and eliminates vibration, thus preventing line abrasion.

| Tube Dia. | Dash No. | Price Each | Dash No. | Price Each | Tube Dia. | Dash No. | Price Each | Dash No. | Price Each |
|-----------|----------|------------|----------|------------|-----------|----------|------------|----------|------------|
| 1/8 | DG2 | \$0.53 | WDG2 | \$0.47 | 1-5/16 | DG21 | \$1.65 | WDG21 | \$1.71 |
| 3/16 | DG3 | \$0.41 | WDG3 | \$0.47 | 1-3/8 | DG22 | \$1.58 | WDG22 | \$1.28 |
| 1/4 | DG4 | \$0.25 | WDG4 | \$0.52 | 1-7/16 | DG23 | \$2.73 | WDG23 | \$1.63 |
| 5/16 | DG5 | \$0.26 | WDG5 | \$0.52 | 1-1/2 | DG24 | \$1.33 | WDG24 | \$1.23 |
| 3/8 | DG6 | \$0.26 | WDG6 | \$0.56 | 1-9/16 | DG25 | \$2.60 | WDG25 | \$2.27 |
| 7/16 | DG7 | \$0.52 | WDG7 | \$0.59 | 1-5/8 | DG26 | \$1.99 | WDG26 | \$1.91 |
| 1/2 | DG8 | \$0.30 | WDG8 | \$0.56 | 1-3/4 | DG28 | \$1.45 | WDG28 | \$1.89 |
| 9/16 | DG9 | \$0.59 | WDG9 | \$0.64 | 1-7/8 | DG30 | \$1.86 | | |
| 5/8 | DG10 | \$0.37 | WDG10 | \$0.58 | 1-15/16 | DG31 | \$2.78 | | |
| 11/16 | DG11 | \$0.75 | WDG11 | \$0.87 | 2 | DG32 | \$1.31 | | |
| 3/4 | DG12 | \$0.40 | WDG12 | \$0.80 | 2-1/16 | DG33 | \$1.98 | | |
| 13/16 | DG13 | \$0.76 | WDG13 | \$0.90 | 2-1/8 | DG34 | \$1.67 | | |
| 7/8 | DG14 | \$0.67 | WDG14 | \$0.89 | 2-1/4 | DG36 | \$2.06 | | |
| 15/16 | DG15 | \$1.03 | WDG15 | \$0.94 | 2-3/8 | DG38 | \$2.36 | | |
| 1 | DG16 | \$0.54 | WDG16 | \$0.88 | 2-1/2 | DG40 | \$1.92 | | |
| 1-1/16 | DG17 | \$1.15 | WDG17 | \$1.29 | 2-5/8 | DG42 | \$4.80 | | |
| 1-1/8 | DG18 | \$1.12 | WDG18 | \$1.18 | 2-3/4 | DG44 | \$5.35 | | |
| 1-3/16 | DG19 | \$1.59 | WDG19 | \$1.44 | 2-7/8 | DG46 | \$5.45 | | |
| 1-1/4 | DG20 | \$1.29 | WDG20 | \$1.11 | 3 | DG48 | \$2.53 | | |
| - | - | - | - | - | 3-1/8 | DG50 | \$4.75 | | |

Less 15% in lots of 50. May be assorted.



QS 200 HOSE CLAMPS

Aero-Seal stainless steel clamps are for industrial & aircraft applications. This tangential worm-screw type clamp is for use on fuel, oil, air & coolant lines. The worm drive provides uniform clamping pressure without distorting hose. Attach by pushing housing snugly around the hose to desired position on the band—the threads of the worm screw will drop into slots. Tighten slotted head with screwdriver.

| QS200 Dash No. | Dia. Range (In.) | | Price Each | QS200 Dash No. | Dia. Range (In.) | | Price Each |
|----------------|------------------|--------|------------|----------------|------------------|-------|------------|
| | Min. | Max. | | | Min. | Max. | |
| -06H | 7/16 | 25/32 | \$1.49 | -44H | 2-5/16 | 3-1/4 | \$2.15 |
| -08H | 1/2 | 29/32 | \$1.54 | -48H | 2-9/16 | 3-1/2 | \$2.15 |
| -10H | 9/16 | 1-1/16 | \$1.55 | -52H | 2-13/16 | 3-3/4 | \$2.29 |
| -12H | 11/16 | 1-1/4 | \$1.54 | -56H | 3-1/16 | 4 | \$2.25 |
| -16H | 13/16 | 1-1/2 | \$1.55 | -60H | 3-5/16 | 4-1/4 | \$2.37 |
| -20H | 13/16 | 1-3/4 | \$1.53 | -64H | 3-9/16 | 4-1/2 | \$2.34 |
| -24H | 1-1/16 | 2 | \$1.60 | -72H | 4-1/8 | 5 | \$2.55 |
| -28H | 1-5/16 | 2-1/4 | \$1.60 | -80H | 4-5/8 | 5-1/2 | \$2.91 |
| -32H | 1-9/16 | 2-1/2 | \$1.60 | -88H | 5-1/8 | 6 | \$2.96 |
| -36H | 1-13/16 | 2-3/4 | \$1.68 | -96H | 5-5/8 | 6-1/2 | \$2.96 |
| -40H | 2-1/16 | 3 | \$2.05 | - | - | - | - |

Less 15% in lots of 50. May be assorted.



SNAPPER CLAMPS

A quick ratchet closure provides specific take-up, eliminating excessive tightening which may mutilate the hose.

3/8" for 1/4" fuel line ... P/N 05-00940 \$0.29
1", for radiator hose P/N 05-00941 \$0.39

BING ALCOHOL RESISTANT FUEL LINE

This fuel line is blue in color and does not rot or deteriorate from the inside, clogging the carburetor or fuel system. It withstands 50 PSI and tensile strength is 8000 PSI. It is resistant to temperatures of -65° to 220°F without deterioration, features exceptional resistance to gasoline, oil, oxygen, and ozone, and has high elastic memory allowing use of Delrin or nylon barbed fittings in low pressure applications without the need for external clamps.

| Description | ID | OD | Part No. | Price Per Ft. |
|----------------------------------|-----|-----|----------|---------------|
| Bing Alcohol Resistant Fuel Line | 1/4 | 3/8 | 05-00500 | \$2.65 |
| Bing Alcohol Resistant Fuel Line | 1/8 | 1/4 | 05-00560 | \$1.98 |



SUPER HEAVY PULSE LINE

Super heavy wall clear polyurethane pulse line has an extra thick 3/32" wall that will not dampen crankcase pulse even on longer runs. Clear one piece urethane construction is not affected by fuel. Will not harden, crack, or become brittle with age. Can also be used as clear fuel line. Sold by the foot. Outside Diameter: 7/16". Inside Diameter: 1/4". Wall Thickness: 3/32".

P/N 15-06094..... \$4.60/ft.



CLEAR BLUE FUEL LINE

Polyether-based Polyurethane Tubing offers excellent resistance to chemicals, kinking, abrasion, hydrolysis, oxidation, and ozone exposure. Our Polyether-based Polyurethane tubing excels in maintaining exceptional flexibility, high-impact strength, and above average performance in cold temperature.

| O.D. | I.D. | Description | Part Number | Price Per Ft. |
|-------|-------|-----------------------------------|-------------|---------------|
| 1/4" | 1/8" | Clear Blue Polyurethane Fuel Line | 15-04632 | \$0.83 |
| 5/16" | 3/16" | Clear Blue Polyurethane Fuel Line | 15-04874 | \$0.62 |
| 3/8" | 1/4" | Clear Blue Polyurethane Fuel Line | 15-04818 | \$0.85 |

PARKER SUPER-FLEX FL FUEL LINE HOSE



Parker's fuel line hose includes a new thermoplastic barrier that helps protect our atmosphere from harmful hydrocarbons that escape through the carcass of ordinary fuel hose. This new hose surpasses all of CARB's stringent permeation requirements and is similar to SAE30R7 specifications. The Super-Flex FL hose also features an abrasion and weather resistant cover to help protect from external application abuse.

Approved for biodiesel fuels that meet ASTM D 6751 requirements per UL guidelines for Biodiesel compatibility. 4:1 Design factor

Tube: NBR with a thermoplastic barrier

Cover: Black Hypalon

Reinforcement: Braided Polyester

Temperature Range: -30°F to +257°F (-34°C to +125°C)

| Part No. | ID (in.) | Reinf. Braids | OD (in.) | OD (mm) | Approx. wt. per 100 ft. | Min. Bend Rad. | Max Rec. WP | Price Per Ft. |
|----------|----------|---------------|----------|---------|-------------------------|----------------|-------------|---------------|
| 05-03597 | 1/4 | 1 | 0.500 | 12.7 | 9.7 | - | 100 | \$2.90 |
| 05-03598 | 3/8 | 1 | 0.625 | 15.9 | 1.30 | - | 100 | \$4.70 |
| 05-07223 | 5/16 | 1 | 0.0562 | 14.3 | 11.3 | - | 100 | \$3.50 |

MIL-DTL 6000D OIL AND COOLANT HOSE



Inside and out, aircraft hose MIL-DTL 6000D is designed to handle the effects of oil, alcohol, coolant, and water. The tube is oil resistant with a black cover reinforced with high strength mildew resistant yarns. It withstands extreme temperature conditions from -40F to +250F. Meets or exceeds U.S. military specs. Lightweight, flexible and easy-to-handle, making it the perfect hose for hard-to-get-to spots in tight engine compartments. Sold in one foot increments.

Max Length:10FT

MIL-DTL-6000C was superceded by this MIL-DTL-6000D

Note: This hose is not recommended for use as fuel lines.

| Part No. | Hose Dimensions | | Burst Pressure (PSI) | Wt./ Ft. (Lb.) | Price Per Ft. |
|----------|-----------------|------------|----------------------|----------------|---------------|
| | I.D. (In.) | O.D. (In.) | | | |
| 6000-4 | 1/4 | 5/8 | 1,000 | .14 | \$6.75 |
| 6000-5 | 5/16 | 11/16 | 1,000 | .16 | \$6.90 |
| 6000-6 | 3/8 | 3/4 | 1,000 | .18 | \$7.50 |
| 6000-8 | 1/2 | 7/8 | 1,000 | .22 | \$7.85 |
| 6000-10 | 5/8 | 1 | 1,000 | .26 | \$8.50 |
| 6000-12 | 3/4 | 1-1/8 | 1,000 | .27 | \$9.95 |
| 6000-14 | 7/8 | 1-1/4 | 1,000 | .32 | \$11.50 |
| 6000-16 | 1 | 1-3/8 | 1,000 | .38 | \$10.95 |

MIL-DTL 6000D HOSE AVAILABLE IN 10 FT MAXIMUM LENGTHS

MIL-H-6000 IS SUPERCEDED BY MIL-DTL-6000C

****NOT RECOMMENDED FOR FUEL LINES****

CURTIS DRAIN VALVES

Curtis Superior Valve Co., Inc. Fuel and Oil Drain Valves have been the standard in the industry for over 60 years. Curtis valves are used in OEM applications and in the military aircraft. Most valves are made of high quality brass for resistance to corrosion and rusting, giving them long service life and extended seal life. Most Curtis Valves have a spiral to open and twist to lock for easy fuel sampling and oil draining.

PIPE THREAD VALVES

| Model Number | Thread Size | Installed Length | Material | Part No. | Price |
|--------------|-------------|------------------|----------|----------|---------|
| CCA-1250* | 1/8" NPT | .790" | B | 05-04045 | \$14.50 |
| CCA-1300* | 1/4" NPT | .965" | B | 05-04046 | \$15.50 |
| CCA-1350* | 3/8" NPT | 1.08" | B | 05-04047 | \$19.85 |
| CCA-1400* | 1/2" NPT | 1.125" | B | 05-03060 | \$31.50 |
| CCA-1550* | 1/8" NPT | .790" | B | 05-01869 | \$14.50 |
| CCA-1600* | 1/4" NPT | .945" | B | 05-01870 | \$14.95 |
| CCA-1650* | 3/8" NPT | 1.08" | B | 05-01871 | \$19.50 |
| CCA-1700* | 1/2" NPT | 1.125" | BC | 05-01872 | \$31.50 |
| CCA-3600* | 1/4" NPT | .965" | BC | 05-04048 | \$19.50 |
| CCA-36150* | 1/8" NPT | .790" | BC | 05-03654 | \$20.50 |
| CCA-39000* | 1/4" NPT | .925" | SS | 05-03655 | \$39.65 |
| CCA-4800* | 1/4" NPT | .945" | BC | 05-04049 | \$23.50 |
| CCA-4850* | 1/8" NPT | .790" | BC | 05-00686 | \$19.95 |
| CCA-4900* | 1/4" NPT | .945" | BC | 05-11718 | \$22.65 |
| CCA-4950* | 3/8" NPT | 1.08" | BC | 05-04050 | \$23.50 |
| CCA-7000 | 3/8" NPT | 1.08" | AA | 05-15401 | \$24.65 |
| CCA-7450* | 1/8" NPT | .790" | BC | 05-03652 | \$16.50 |
| CCA-36150* | 1/8" NPT | .75" | BC | 05-03654 | \$20.50 |
| CCB-36700* | 1/8" NPT | .790" | BC | 05-03659 | \$14.95 |
| CCB-36750* | 1/8" NPT | .725" | SS | 05-03660 | \$32.70 |
| CCA-1100 | 1/8" NPT | .790" | A | 05-12914 | \$22.50 |
| CCA-1500 | 1/8" NPT | .790" | A | 05-12915 | \$21.50 |



05-03660



05-04050



05-03652

STRAIGHT THREAD VALVES

| Model Number | Thread Size | Installed Length | Material | Part No. | Price |
|-----------------------|---------------|------------------|----------|----------|----------|
| CCA-5800-1** | 7/16" 20 NF3 | .620" | BC | 05-03651 | \$24.50 |
| CCA-5800-3** | 7/16" 20 NF3 | 1.205" | BC | 05-03694 | \$22.50 |
| CCA-4350* | 9/16" 18 UNF3 | .635" | BC | 05-03648 | \$26.85 |
| CCA-31300** | 9/16" 18 NF3 | 1.234" | BC | 05-04053 | \$29.50 |
| CCA-39550* | 5/8" 18 NF3 | 1.054" | B | 05-01873 | \$38.70 |
| CCA-6000* | 9/16" 18 UNF | .640" | BC | 05-04051 | \$27.55 |
| CCA-36400** | 9/16" 18 UNF | .635" | BC | 05-04055 | \$27.55 |
| CCB-36350-1 | 3/4" 16 UNF | 0.125 | AA | 05-04059 | \$90.90 |
| CCA-4300* | 7/16" 20NF3 | .625" | BC | 05-03647 | \$22.50 |
| CCB-4320** | 7/16" 20 NF3 | .835" | BC | 05-03657 | \$20.50 |
| CCA-5800-1** | 7/16" 20 NF3 | .620" | BC | 05-03651 | \$24.50 |
| CCA-5800-3** | 1/8" NPT | 1.205" | BC | 05-03694 | \$22.50 |
| CCA-4350* | 9/16" 18 UNF3 | .635" | BC | 05-03648 | \$26.85 |
| CCA-31300** | 9/16" 18 UNF | 1.234" | BC | 05-04053 | \$29.50 |
| CCA-39550* | 5/8" 18 NF3 | 1.054" | B | 05-01873 | \$38.70 |
| CCA-6000* | 9/16" 18 UNF | .640" | BC | 05-04051 | \$27.55 |
| CCA-36400** | 9/16" 18 UNF | .635" | BC | 05-04055 | \$27.55 |
| CCB-36350-1 | 3/4" 16 UNF | 0.125 | AA | 05-04059 | \$90.90 |
| CCB-32000 Low Profile | 5/8" 18 NF3 | .600" | A | 05-22224 | \$119.54 |



05-03651



05-03657



05-04059

*=TSO-C76, **=Non-Locking, B= Brass, AA= Aluminum Alodine, A= Aluminum, BC= Brass/Cadmium Plated, SS= Stainless Steel

SAF-AIR DRAIN VALVES

SAF-AIR push type fuel drain valves are close tolerance valves of simple design. These valves provide the most trouble free operation of any other line of valves in the industry. SAF-AIR valves are manufactured with an o-ring placed on the stem to seal against a flat seat on the body. This design eliminates an area where dirt can gather, thus putting an end to the main cause of fuel drain valve drip. FAA & PMA APPROVED.



| Part No. | Thread | Price | Part No. | Thread | Price |
|------------|----------|---------|------------|------------|---------|
| CAV-110 | 1/8" NPT | \$15.95 | CAV-170 | 7/16-20 NF | \$17.85 |
| CAV-110H4 | 1/8" NPT | \$21.75 | CAV-170H-4 | 7/16-20 NF | \$22.85 |
| CAV-160 | 1/4" NPT | \$15.95 | CAV-180 | 3/8-24 NF | \$17.85 |
| CAV-160H-4 | 1/4" NPT | \$21.60 | CAV-180H-4 | 3/8-24 NF | \$22.50 |

Replacement Seals

| | |
|------------------------------|------------|
| MS29513-006 Tip (all models) | \$0.37/ea. |
| MS29513-011 Seat (CAV-180) | \$0.79/ea. |
| MS29513-012 Seat (CAV-170) | \$0.44/ea. |

ACS GASCOLATOR



All-metal gascolator with S.S. screen, 1-7/8" dia. cadmium plated steel bowl w/quick drain. Top is CNC machined from 6061-T6 aluminum. Top casting has 1/4" pipe ports for 3/8" fuel line and one 1/8" pipe port for primer fitting. Wt: 8 oz. May be used with aviation and/or auto fuel. Made in the U.S.A. P/N 10580..... \$87.75

Replacement Gaskets - For auto fuel 3/32" thick x 2-1/8" O.D. 10536-1
P/N 06-00441 \$5.85

Replacement Screens -
120 Microns Stainless Steel..... P/N 10543-1 \$2.45
74 Microns Stainless Steel..... P/N 05-03436 \$3.85

ACS GASCOLATOR INSTALLATION BRACKET



Versatile bracket of .016 stainless steel accommodates gascolators with either metal or glass bowl. When mounted as illustrated, inlet and outlet connections are on sides. When bracket is inverted, one port of gascolator faces firewall for direct routing of fuel line through firewall. Fits gascolators sold after May 1, 1989. Made in the U.S.A. P/N 10371..... \$24.50

CURTIS FUEL SAMPLER CUP



This fuel sampler cup is designed for use with many popular fuel drain valves including the F391 drain valves used on many of today's production aircraft. Wide bowl allows fuel sampling without fuel dripping onto the hands... P/N 05-17300 \$5.35

INLINE FUEL FILTER



In-line, high-capacity, translucent filter with screen. Has standard 1/4" barb inlet and outlet tubes.
P/N 05-14958 \$3.85

FUEL FILTER



In-tank type. Brass construction with fine-mesh screen. Has standard 1/4" barb inlet and outlet tubes.
P/N 05-01031 \$6.50

3/8 INCH PLASTIC FILTER



Plastic in-line fuel with 3/8" inlet & outlet - metal version is 33033 with hoses and camps. Style: Fuel Filter. Height: 3.543. Outer Diameter: 1.826. Nominal Micron Rating: 30
P/N 05-04701 \$10.95

SCREEN DISC FUEL FILTER



Compact 1" heavy duty disc filter uses fine mesh stainless steel screen. Excellent filtering qualities with an absolute minimum of flow restriction. Clear see-thru plastic body for easy inspection. Includes double barb ends for positive sealing to any 5/16" ID fuel line P/N 7134..... \$19.50

HOMEBUILDERS SHUT-OFF VALVES



A full-flow plug valve with solid bottom and integral mounting bracket. Brass body and plug. Floating stem with O-ring prevents leakage. Packed with synthetic grease which resists gasoline and solvents. Indicating click on 3-port and 4-port valve (CN models) tells when handle is in full open or closed position. Tested to 30 PSI. Not FAA approved.

| Part No. | Model No. | Imperial Equiv. | Valve Type | Pipe Thread | Price |
|----------|-----------|-----------------|------------|---------------------------|---------|
| 6749 | 210-CL | 108HD-04 | 3-Port* | 1/4" Female x 1/4" Female | \$29.95 |
| 05-01032 | 210-CN | 108HD-06 | 3-Port* | 3/8" Female x 3/8" Female | \$30.65 |
| 05-01033 | 200-CL | 114-HD-04 | 4-Port** | 1/4" Female x 1/4" Female | \$29.95 |
| 05-01034 | 200-CN | 114HD-06 | 4-Port** | 3/8" Female x 3/8" Female | \$32.75 |

*For 2 tanks. Flow is from either side to branch.

**For 3 tanks. Flow is from any side to bottom outlet.

Note: Order valve with 1/4" pipe threads for 3/8" dia. fuel line. Order valve with 3/8" pipe threads for 1/2" dia. fuel line. These pipe thread sizes are the ones normally associated with the indicated tube sizes.

MINIATURE FUEL VALVES



The lightest (4 oz.) smallest (1.5" long), easiest to operate ball type (not plug) on-off fuel valve available. Light operating force makes it ideal for remote operation. Not FAA approved. Forged brass with 1/4", 3/8", or 1/2" female pipe ends.
3/8" NPT valve..... P/N 05-23330 \$31.50
1/2" NPT valve..... P/N 05-01026 \$31.70



HEAD FUEL SHUT-OFF VALVE

These 3-way Weatherhead valves, with 1/4" female pipe ports feature a Delrin-spool design for smooth operation. Handle mounted on 1-1/4" long shaft. Not FAA approved. Model No. 6749 3-Port Valve - Flow is from either side to middle port. P/N 6749 **\$29.95**
Model No. 6747 4-Port Valve - Flow is from any horizontal port to bottom port. P/N 6747 **\$34.70**



FUEL FLOW VALVE

Designed for tank installation. Similar to above but without built-in filter. 90° rotation for ON-OFF. Has standard 1/4" barb outlet tube. P/N 05-01041 **\$6.50**



FUEL FLOW VALVE

Twin-tank fuel selector valve. 3 positions: LEFT-OFF-RIGHT. LEFT and RIGHT positions are 90° either side of OFF. Panel mount. P/N 05-01042 **\$7.50**



FUEL FLOW VALVE

Panel mounted fuel on-off. P/N 05-01043 **\$9.65**



BANJO FITTING

This can be rotated through 360° then tightened and safety locked. Excellent for applications where space was limited. It can really be described as an adjustable 90° elbow fitting P/N 05-29565 **\$63.85**



FUEL FLOW ELBOW

Bushed 90° tank fitting with standard 1/4" barb outlet. Requires Rubber Bushing P/N 05-01039. P/N 05-01045 **\$1.75**



FUEL LINE

Polyurethane tubing, translucent blue in color. 1/4" ID. A superior, premium grade of urethane, the optimum material for ultralight fuel line. (Min. order, 4 ft.) P/N 05-01049 **\$1.25/ft.**



PRIMER BULB

Install between fuel tank and engine. A few squeezes prime your engine for easy starting.

Primer Bulb 1/4" Tube Fit - Lg. (7" x 2") P/N 05-03690 **\$18.75**



QUICK-DISCONNECT FUEL LINE FITTINGS

Complete sets are furnished with both male and female units. Available in both panel mount (left) and in-line (center) styles, with or without internal automatic fuel shut-off. (1/4" tubing). The O-rings may not be compatible with some alcohol based auto fuels.



05-01035

In-line with shut-off P/N 05-01035 **\$15.95**



05-01036

In-line without shut-off P/N 05-01036 **\$8.85**



05-01037

Panel mount with shut-off P/N 05-01037 **\$22.75**



05-01038

Panel mount without shut-off P/N 05-01038 **\$19.00**



PRIMER KIT

Everything you need to add a plunger-type primer system to your aircraft. The kit includes the plunger, a reducer "T" fitting, 1/8" barb "T" fitting, and 10 feet of 1/8" urethane fuel line.

P/N 05-01047 **\$24.25**



PRIMER LINE

Polyurethane tubing, translucent pink in color. 1/8" ID. For primer systems. P/N 05-01050 **\$0.57/ft.**



PULSE LINE

Connects engine pulse outlet to fuel pump pulse inlet. Outside Diameter: 3/8". Inside Diameter: 1/4". Thickness of the Wall: 3/32" P/N 05-01063 **\$0.68/ft.**



FUEL LINE SPLITTERS/JOINERS

Perfect for feeding from 2 tanks, or for feeding two carburetors from 1 tank. All have standard barbed ends. Made of Delrin. "T" type, 1/4" P/N 05-01051 **\$1.15**
"Y" type, 1/4" P/N 05-01052 **\$1.10**
"T" type, 1/8" P/N 05-01053 **\$1.95**



RUBBER BUSHING

Required for installation of Fuel Flow Elbow described above. P/N 05-01039 **\$0.32**



FUEL FILTER FUNNELS

P/N 05-00026

P/N 05-01054

P/N 05-01055

P/N 05-01371

Mr. Funnel® Fuel Filters are simply amazing. Dirty fuel in.... pure fuel out. It's that easy. The specially designed filter removes water and dirt from gas, even 2-stroke mixtures. Ethanol attracts water more than regular gasoline. Never before has a fuel filter been more important.

Dirt and water are practically unavoidable in stored fuel, causing microbial growth, corrosive acids, electrolysis and rust. These contaminants can plug filters, corrode components, decrease efficient combustion and cause engine shutdown or system failure. When fuel is poured through the Fuel Filter Funnel, water and debris will not pass through the filter's fluoropolymer-coated stainless steel filter. Only filtered fuel flows through to your engine, improving its efficiency, durability, and proper operation. The sump area collects the deflected water and debris for proper disposal. The Fuel Filter Funnel will filter gasoline, diesel, heating oil, kerosene and 2-cycle mixed gas.

| Part No. | Height | Diameter | Flow Rate | Price |
|----------|--------|----------|-----------|----------------|
| 05-00026 | 6.00" | 3.5" | 2.5 gpm | \$17.95 |
| 05-01054 | 8.75" | 5.5" | 3.5 gpm | \$23.95 |
| 05-01055 | 10.00" | 8.5" | 5.0 gpm | \$34.95 |
| 05-01371 | 10.00" | 8.5" | 12-15 gpm | \$52.95 |



WHIRLWIND ROTAX 912/914 PROPELLERS

The WhirlWind GA propeller series are ground pitch adjustable aircraft propellers featuring advanced aerodynamic and composite design. The high gloss urethane surface shows off the quality craftsmanship and attention to detail. The blade design is optimized for maximum efficiency and minimum noise. The blade structure is manufactured from thermoset epoxy/graphite composite matrix. This advanced composite structure ensures high strength and blade accuracy in all flight environments. Only WhirlWind propellers come standard with electroformed Nickel leading edge shields for superior fit and abrasion protection. The hub is CNC machined from aerospace aluminum and is dimensionally certified; all hubs are surface treated with shot peen for increased strength and cycle life and then Anodized for corrosion protection. Specifications: Engines: Rotax 912/914, Diameter: 2 blade - 68-70 in. 3 blade - 64-70 in., Weight: 2 blade - 8 lbs. 3 blade - 11 lbs., HP/RPM: 115@5800

| Description | Part No. | Price |
|--|----------|-------------------|
| Whirlwind Rotax 912/914 3bld Prop 68" LSA | 05-11166 | \$1,528.00 |
| Whirlwind Rotax 912/914 3bld Prop 70" LSA | 05-06850 | \$1,528.00 |
| Whirlwind Rotax 912/914 3bld Prop 75" STOL | 05-12339 | \$1,825.00 |
| Whirlwind Rotax 3 Blade Prop 68" STOL | 05-12340 | \$1,665.00 |
| Whirlwind Rotax 3 Blade Prop 70" STOL | 05-11897 | \$1,665.00 |
| Accessories | | |
| 9" Spinner for prop | 05-06852 | \$325.00 |
| 9.75" Spinner for prop | 05-06853 | \$330.00 |
| 11.3" Spinner for prop | 05-06854 | \$335.00 |



AP



FEED-THRU ANTENNA INSULATOR

Feed-Thru Insulator for lead-in wire from fixed antenna. Type 4125..... P/N 8613..... **\$15.65**



PUSH-IN FUEL TANK VALVE

Standard replacement valve and grommet for plastic or Quicksilver type fuel tanks. Replaces Quicksilver #30280. Right angle valve shut-off with a 1/4 turn of the handle. Requires 33/64" hole in tank. Barb end accepts any 1/4" i.d. fuel line. Supplied with #7030 Grommet. Weight 2 oz. P/N 7027..... **\$6.50**

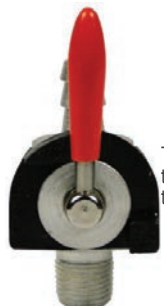


PUSH-IN FUEL TANK VALVE

Same as #7027 valve above in a straight through configuration. Comes with #7030 grommet. Requires 33/64" hole in tank..... P/N 7028..... **\$11.75**

TANK VALVE THREADED 1/8 MPT 90 ELBOW

Tank Valve threads into bottom of tank. 1/8" male pipe threads. 90 degree elbow design accepts any 1/4" id fuel line. 1/4 turn shuts down fuel flow. Weight 2 oz. P/N 8524..... **\$7.50**



TANK VALVE THREADED 1/8 MPT STRAIGHT

Tank Valve threads into bottom of tank. 1/8" male pipe threads. Straight thru design accepts any 1/4" id fuel line. 1/4 turn shuts down fuel flow. Weight 2 oz. P/N 8522..... **\$9.50**

TANK VALVE THREADED 1/4 MPT STRAIGHT

Tank Valve threads into bottom of tank. 1/4" male pipe threads. Straight through design accepts any 1/4" fuel line. 1/4 turn shuts down fuel flow. Weight 2 oz. P/N 8523..... **\$7.50**



COMPACT IN-LINE SHUT OFF VALVE

Ideal for in-line fuel shut off. Handle indicates valve position. Hose barbs accept any 1/4" id fuel line. Must be used with clamps. Brass Construction. Weight 2 oz. P/N 7215..... **\$7.50**



FUEL SHUT OFF VALVE

In Line Fuel Valve for fuel shut off. Ideal for use on panel to cut off fuel flow in a single line. All barbs accept any 1/4" i.d. fuel line. Requires only 1/4 turn to off. Installs in panel thru 1/2" hole. P/N 7031..... **\$11.65**



PAPER SCREEN FUEL FILTER

Lightweight polymer treated paper filter element the filters out the smallest particles. Clear see-thru plastic body for easy inspection. Includes double barb ends for positive sealing to an 1/4" ID fuel line. Measures only 2" long x 1 1/2" diameter. Weight: 1 oz. Made in USA.... P/N 7135..... **\$16.50**



COMPACT HI-FLOW FUEL FILTER

High flow heavy duty nylon fuel filter with fine mesh screen. Hose barb fits 1/4" ID fuel line. See thru design allows for easy inspection of non-replaceable filter element.. P/N 7125..... **\$9.95**



UNIVERSAL IN-LINE FUEL FILTER

In-line style universal fuel filter replaces any 1/4", 5/16" or 3/8" filter. Protects all carbureted engines. Clear body permits visual inspection. NOTE: For use in carbureted gasoline engines only. DO NOT use in fuel injected engines. P/N 15-05826 **\$17.50**



IN-TANK FUEL FILTER

Fine mesh metal screen fuel pick up. Will not seal on side of tank. Fits any 1/4" ID fuel line. Ideal for main or reserve fuel line pick up. P/N 7129..... **\$5.65**



FUEL-CHECK TESTER

Check for the alcohol in fuel in seconds with this handy fuel tester. Alcohol hardens and cracks seals, o rings, and other fuel system parts as well as readily attracts water into the fuel. Fuel-Check detects the presence of alcohol and the percentage in fuel. P/N 8815..... **\$5.95**

Notice: All filters must be inspected on a regular basis as part of a preventative maintenance plan. Gasoline additives and contaminants may cause corrosion or blockage. Inspect all filters and fuel pick ups on a regular basis.



THE ORIGINAL FUEL STOP

The Fuel Stop is a simple tool that snaps onto a standard straw fuel gauge and prevents the gauge from ever slipping into the tank. Works with FuelHawk, or any other 1/2" diameter fuel gauge tube.

It also becomes extremely handy when it's necessary to set the gauge on the wing, as it will stay put and not roll off to disappear into the grass or onto the pavement. The Fuel Stop can be kept separately in your pilot bag to quickly snap onto a gauge that comes with a rental aircraft, or kept permanently installed in your own aircraft for regular use. The Fuel Stop is also shaped like a set of red pilot wings which makes finding the gauge in your pilot bag or aircraft seat pocket a snap.

Have you ever lost a plastic fuel gauge when checking the available fuel in your aircraft? Has it slipped into the tank? Rolled off the wing and then disappeared onto the ground? These are very common occurrences that most pilots don't brag about, but it happens all the time. The Fuel Stop has talked to mechanics that routinely pull them out of aircraft gas tanks. So why take a chance? The Fuel Stop is the cheapest insurance you will ever buy.

Just snap it on and relax. The Fuel Stop also acts as a grip to make handling and checking fuel easier. It's also shaped like a set of pilot's wings that, when installed, makes finding the gauge in the aircraft seat back pocket or your flight bag easy. Add one to your pilot bag of tricks today!

P/N 13-17631 **\$7.95**

SPARK PLUG CADDY



Handy case holds (2) 14mm spark plugs. Small enough to fit into your pocket..... P/N 13-03869 **\$3.95**

SPARK PLUG WRENCH



Loosen or tighten your spark plugs with this handy tool..... P/N 13-03921 **\$3.90**

PLASTIC STARTER HANDLE



Black flexible plastic heavy duty handle. Tested to -40°F P/N 13-03865 **\$6.50**

SPARK PLUG JACK



Rivets or screws to any flat surface and holds two spare 14mm plugs. Tough polycarbonate plastic with spring-loaded plug anchors keeps plugs dry and protects gaps P/N 13-03870 **\$6.50**

NYLON STARTER ROPE



The perfect replacement rope for worn-out manual starters..... P/N 13-03922 **\$0.45 per ft.**

SPARK PLUG CAPS



Original NGK. Black. 5000 ohm resistance. P/N 08-00737 is used on threaded type plugs. P/N 08-04960 is used on solid top plugs. P/N 08-00737 **\$2.75**
P/N 08-04960 **\$2.60**

SPARK PLUG WIRE



High-quality multi-strand copper core unshielded wire. 7mm diameter. For all Rotax® and most other engines. Replaces Rotax® Part No. 965-158. P/N 11-04105 **\$1.10 per ft.**

FLEXDRIVE



PosiFlex coupler for Quicksilver® For 377/477 w/o high-thrust mod P/N 05-01985 **\$269.95**
For all high-thrust mods P/N 05-01986 **\$330.00**

RATIO-RITE CUP



Getting the right oil-to-gas ratio is no problem with this tough polypropylene cup. Just fill the cup with oil to the ratio level desired, and mix with gasoline. Ratios from 16:1 to 50:1. Graduated in ounces and CCs for filling chain cases, etc. 18 oz. capacity. Cup P/N 08-01091 **\$4.35**
Lid P/N 08-03677 **\$1.80**

SAFE-T SYPHON



The Safe-T Siphon works with a 1/2 inch hose and the "pump" is made from copper tubing with a glass marble. This makes it ideal for high capacity siphoning of almost any liquid, including fresh and salt water, gasoline, diesel fuel, oil, etc. P/N 05-22001 **\$8.50**

AIR-TECH ROTAX



GEAR BOX CLUTCH RK400
The primary purpose of the clutch is to disengage the prop from the engine allowing it to start and operate at idle without vibration. When the engine is idling (below 2350 RPM) the prop is not turning. Installation of the clutch replaces the gear box flywheel and the hardy disk. Added weight is approx. 3 Lbs. P/N 10-04811 **\$549.00**

CLUTCH DRUM RK33 FOR GEAR BOX CLUTCH RK400C P/N 15-07402 **\$253.95**

CLUTCH DRIVE BODY RK44 FOR GEAR BOX CLUTCH RK400C P/N 15-08242 **\$246.95**

KEY WEST REGULATOR



Advanced regulator/rectifier circuit provides steady 13.8 volt output regardless of load. Maximum output 220 watts, 16 amps. Accepts AC input from 15 to 100 volts. Can be used with AC strobe.

Features: • Extremely clean filtered DC output • Electronics designed to deliver 16 amps producing 220 watts • Efficiency: No "consumer" or "dummy" load required for proper operation • A beautiful and rugged lightweight package weighs just 16 ounces and is 3.5 x 2.5 x 1 inch • Protection from the environment: complete epoxy encapsulation to insure all-season operation • Ease of installation: crimp type ring terminals and wiring schematics provided with every unit P/N 9105 **\$62.75**

COOLANOL - READY TO USE COOLANT



Mineral deposits from regular tap water can collect on the Rotary Valve Shaft causing the seals to leak. Avoid this costly repair with this ready to use coolant specially designed to meet factory specifications for Rotax liquid cooled engines. "Coolanol" is a pre-blended formulation of 50% premium antifreeze and 50% demineralized water. No need for mixing or diluting. Designed for use with aluminum block engines, Coolanol has a freezing point of -34F to a boiling point of +265F when used with a 15 psi radiator cap. Coolanol contains proven anti-foaming agents and anti-corrosion additives. Coolanol meets the tough new ASTM D-4340 aluminum engine hot surface test specifications which means reduced possibilities for water pump cavitation and overheating. 1/2 Gallon jug P/N 7535 **\$18.70**

CRAZEDPILOT ROTAX 582 GEARBOX BADGE PLATE



Fits E-Drive aka E-Box gearbox AND the C-Box gearbox. Package comes complete with 2 plates, and includes properly threaded bolts with aluminum stand-offs to provide original air ventilation from gearbox. Powder coated for maximum lifespan. P/N 11-13317 **\$38.99**

CRAZEDPILOT ROTAX 503 BADGE PLATE



These Rotax 503 Badge Plates covers that ugly hole in the side of your Rotax gearbox on the side of your Rotax 503 engine. Comes complete with 2 plates, and includes properly threaded bolts with aluminum stand-offs to provide original air ventilation. Powder coated for maximum lifespan. P/N 11-14864 **\$33.50**

ROTAX THROTTLE SPRINGS 6822



A common complaint about the Rotax 912/914 engines is that the throttle return springs are too strong. McFarlane stocks a variety of springs so you can choose the one that best fits your application. All McFarlane throttle controls for Rotax engines include P/N 6822 spring. Less than half the strength of the original stock Rotax springs. Prevents throttle "creep" due to excessive return spring force. Requires 1 per carburetor (2 per engine) Note: Installer is responsible for determining whether this spring is an appropriate substitution for their application. For use on non-certified aircraft. Comes in a pack of two. P/N 05-12477 **\$16.99**



SAME DAY SHIPMENT!
GUARANTEED LOWEST PRICES!
YOUR SOURCE FOR LSA SUPPLIES!



BUZZ MASTER PROP BALANCER



This extremely simple and sensitive tool uses the plum-bob and bevel principle to balance props both vertically and horizontally. It can be carried in a small tool box for easy use in the field and balances props accurately for smooth operation. The precision machined hub works with any prop designed with standard 1" center hole. Illustrated instructions included. P/N 13-17400 **\$29.95**

AP

WARP DRIVE ADVANCED COMPOSITE PROPELLERS



Warp Drive's Advanced Composite Carbon Fiber propeller has a structural strength near that of metal propellers. Because of the stiffness achieved by using carbon fibers, the prop will do very little coning (bending forward) under power. Proper fiber placement allows the prop to flex torsionally for maximum cruise efficiency. The strongly fixed position of the blades along with optimum torsional performance translates into more thrust than conventional propellers.

The interior structure of this new propeller is all carbon fiber - no fiberglass, no foam, no filler - an all carbon fiber matrix combined with top quality hybrid epoxies. Carbon fiber is one of the strongest building materials available. When properly engineered, carbon fiber can achieve the strength and stiffness of a metal part, as demonstrated by its wide range of industrial and aerospace uses.

WARP DRIVE PROPELLER BLADE TYPES

All propellers and blade types are available with Stainless Steel Leading Edge protection as an option at additional cost.

- STANDARD ADVANCED COMPOSITE CARBON FIBER BLADES**
The Standard Carbon Fiber Blades can be used on Rotax, Arrow, VW and similar engines.
- HIGH HORSE POWER ADVANCED COMPOSITE CARBON FIBER BLADES**
The Carbon Fiber HP Blades will be required for use on Lycoming, Continental and some auto conversion engines.

WARP DRIVE HUBS

Warp Drive offers two types of hubs of our propellers. First is our Standard Hub. This is an assembly of anodized aluminum plates and composite clamping blocks. It accommodates standard and custom hub bolt patterns of up to 3 1/8". The second type of hub is the HP Hub. This hub consists of two halves machined from solid aluminum. It is the same weight as the standard hub assembly and can accommodate Rotax, Arrow, VW, SAE I Continental, SAE II Lycoming and custom bolt patterns.

STANDARD CARBON FIBER PROPELLER

| | | | |
|--|-----------------------|--------------------|-----------------|
| 2-Blade Std Carbon Fiber Propeller..... | P/N 05-31920 | \$509.00 | |
| 3-Blade Std Carbon Fiber Propeller..... | P/N 05-31925 | \$760.00 | |
| 4-Blade Std Carbon Fiber Propeller..... | P/N 05-31930 | \$1,062.00 | |
| Replacement Std Carbon Fiber Blade | P/N 05-31935 | \$228.95 | |
| WITH HP HUB | | | |
| P/N 05-31940 | \$795.00 | P/N 05-31945 | \$924.00 |

HIGH HORSE POWER CARBON FIBER PROP WITH HP HUB

| | | |
|---|--------------------|-------------------|
| 2-Blade Carbon Fiber H/P w/HP Hub | P/N 05-31950 | \$972.00 |
| 3-Blade Carbon Fiber HP w/HP Hub | P/N 05-31955 | \$1,225.00 |
| Replacement Carbon Fiber HP | P/N 05-31960 | \$362.00 |
| Mounting Hardware (Rotax) | P/N 05-31965 | \$17.95 |
| Protractor..... | P/N 05-31970 | \$45.50 |
| Non-Standard Hub Pattern..... | P/N 05-31975 | \$47.50 |
| "HP" Hub (purchased separately) | P/N 05-31985 | \$338.00 |

ORDERING A PROPELLER

We request all applicable information below when you are ordering:

- Name, Address, Phone Number(s)
- Vehicle - type, make, model, cruise speed, tractor/pusher,
- Engine - make, horse power,
- Reduction Drive - type, ratio. If there is no reduction drive, (State Prop RPM)
- Hub Requirements - A) Bolt circle dia, B) Number of bolts, C) Bolt dims, D) Center hole dims, E) Drive lug dimensions (if applicable),
- Propeller Description-rotation, diameter, structural limitation of diameter manufacturer's suggested prop description, no. of blades, tractor or pusher.

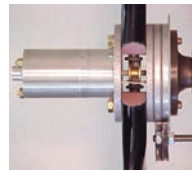
QUICK ADJUST SYSTEM IVOPROPS



The Quick Adjust System Ivoprops allow you to adjust the pitch on the ground in a matter of seconds by turning the screw adjustor in the center of the prop. The supercams are welded on the end of the torsional rods. Each supercam fits into the groove in the screw adjustor. Turning the screw adjustor causes each cam to rotate and turn the torsional rod and thereby twist the blade therefore changing the pitch. Specify aircraft and engine make and model, and propeller diameter.

- Ultralight Ivoprop (3.5" cord, 48" to 72" diameter) is for engines up to 100 hp.
 - Medium Ivoprop (4.5" cord, 52" to 74" diameter) is for engines around 100HP.
 - Magnum Ivoprop (5.5" cord, 58" to 76" diameter) is a high-horsepower version for engines up to 700 HP.
 - Magnum Paddle Ivoprop (5.5" constant cord, 58" to 84" diameter" is for high-horsepower air boats and bush planes.
- | | | |
|-----------------------------|--------------------|-------------------|
| Magnum 2-Blade Ivoprop..... | P/N 05-33240 | \$2,588.00 |
| Magnum 3-Blade Ivoprop..... | P/N 05-33250 | \$1,450.00 |
| Magnum 6-Blade Ivoprop..... | P/N 05-33260 | \$2,545.00 |

IN-FLIGHT ADJUSTABLE PITCH IVOPROPS



The In-Flight Adjustable Pitch Ivoprop allows the pilot to change the propeller pitch in flight through a toggle switch mounted in the cockpit. Pressing the toggle switch one way sends an electric current through the graphite brushes to the slip rings and finally to an electric motor. Torque from the electric motor is channeled to a planetary gear drive which turns the lead screw. Torsional rods transmit movement from the center of the prop to the outside section of the blades, causing the blade to twist therefore changing pitch. Total time for the full range of adjustment is about 5 seconds. Mounts directly to any Rotax gear box (B or C0 and can be adapted to VW, Subaru, Hirth, Arrow and smaller Lycoming and Continental engines. Older model Ivoprop ground adjustable props can be converted to the In Flight System with the Retrofit Kit. In Flight adjustable hub comes assembled with complete instructions. Weight of 3 blade 72" In Flight Adjustable Prop including all required parts (furnished) is 9 lbs. Specify aircraft and engine make and model, and propeller diameter (48" to 76"). Standard Ivoprop is for engines up to 100 hp. Medium Ivoprop is for engines around 100HP (52"-74" prop dia.). Magnum Ivoprops are a high-horsepower version with wider blades and a bigger hub for engines up to 700 HP (56"-76" prop. dia.).

| | | |
|---|------------------|-------------------|
| Magnum 2-Blade Ivoprop Kit..... | P/N 05-33270.... | \$2,590.00 |
| Magnum 3-Blade Ivoprop Kit..... | P/N 05-33280.... | \$2,927.00 |
| Magnum 6-Blade Ivoprop Kit..... | P/N 05-33290.... | \$4,088.00 |
| Magnum Retrofit Kit for Ground Adjustable Ivoprops..... | P/N 05-33295.... | \$1,688.00 |

ROTAX PROPELLER SPINNERS



For all props with standard Rotax® 75mm bolt pattern. Spinner bulk head is pre-drilled and installs between prop and gearbox flange. Spinner installs with single bolt.

| | | |
|--------------------|----------------|-----------------|
| 4" Diameter | P/N 05-01129.. | \$129.90 |
| 6-3/4" Diameter .. | P/N 05-01132.. | \$228.95 |
| 7" Diameter | P/N 05-04447.. | \$171.75 |

UHS FIBERGLASS SPINNERS



UHS spinners are practical, attractive, and flight proven having enhanced the appearance of many different aircraft. The spinners are available in various diameters for different engine and propeller combinations. For GSC, Ivoprop, Warp Drive, and Power Fin propellers using Rotax, Lycoming, Cont. & Mosler engines, spinners are sent cut out and assembled. **Note: kits include hardware and bulkhead.** For pre-drilled cut-outs we require the following information:

1. Make and size of engine.
2. Make of Propeller.
3. Number of Blades.
4. Size required.

Given adequate information, we can also fabricate spinners for many other propeller-engine combinations. Call with your requirements and we will assess your particular application.

| Size | Description | Part No. | Price | Size | Description | Part No. | Price |
|------|----------------------|----------|-----------------|-------|-------------|----------|-----------------|
| 8" | UHS Spinner | 05-09000 | \$175.00 | 11.5" | Spinner Kit | 05-09700 | \$239.00 |
| 9" | UHS Spinner | 05-09100 | \$195.00 | 12" | UHS Spinner | 05-09400 | \$235.00 |
| 9" | 9P Elongated Spinner | 05-08377 | \$195.00 | 13" | Spinner Kit | 05-09800 | \$255.00 |
| 10" | UHS Spinner | 05-09200 | \$206.00 | 13.5" | UHS Spinner | 05-11995 | \$255.00 |
| 11" | UHS Spinner | 05-09300 | \$235.00 | 14" | UHS Spinner | 05-09500 | \$280.00 |

ULTRA-PROP



Select 2, 3, or 4 blade props. Each blade is moulded from a high strength glass-reinforced composite. High efficiency airfoil design means high thrust from a 59" diameter prop. One set of pitch blocks included, additional blocks available in 1° increments. Universal hubs made from high strength composite. Accommodates most popular bolt-mounting patterns. Each prop comes complete with all assembly and mounting hardware, and complete instructions. Black blades and hub are beautifully complemented by high impact polyester spinner. Blades can be trimmed to length, allowing custom prop diameters as small as 48".

| Description | Part No. | Price | Description | Part No. | Price |
|----------------|----------|----------|----------------|----------|----------|
| Kit 2 Blade LH | UP102L | \$293.95 | Kit 2 Blade RH | UP102R | \$293.95 |
| Kit 3 Blade LH | UP103L | \$293.95 | Kit 3 Blade RH | UP103R | \$337.00 |
| Kit 4 Blade LH | UP104L | \$293.95 | Kit 4 Blade RH | UP104R | \$340.00 |
| Kit 5 Blade LH | 05-06455 | \$293.95 | Kit 5 Blade RH | 05-06456 | \$567.00 |
| Kit 6 Blade LH | 05-06457 | \$293.95 | Kit 6 Blade RH | 05-06458 | \$619.00 |

ACCESSORIES

| Description | Part No. | Price |
|-----------------------|----------|---------|
| Pitch Block Set 9 DG | UP9 | \$11.95 |
| Pitch Block Set 10 DG | UP10 | \$11.95 |
| Pitch Block Set 11 DG | UP11 | \$11.95 |
| Pitch Block Set 12 DG | UP12 | \$8.50 |
| Pitch Block Set 13 DG | UP13 | \$9.50 |
| Pitch Block Set 14 DG | UP14 | \$11.95 |
| Pitch Block Set 15 DG | UP15 | \$11.95 |
| Pitch Block Set 16 DG | UP16 | \$11.95 |
| Pitch Block Set 17 DG | UP17 | \$11.95 |
| Pitch Block Set 18 DG | UP18 | \$8.50 |
| Bolt Sleeve Set | UPSLEEVE | \$3.85 |
| Hardware Pack | UPHDW | \$7.50 |
| Replace LH Blade | UP105P | \$86.90 |
| Replace Blade RH | UP105T | \$86.75 |
| Hub half 2 Blade | UP1072 | \$42.50 |
| Hub Half 3 Blade | UP1073 | \$42.50 |
| Hub Half 4 Blade | UP1074 | \$42.50 |

ULTRA-PROP SPINNER



Kit includes white polyester spinner, mounting bracket, and all extra hardware for installation. Specify Quick-silver MX belt drive type with 1/4 inch mounting hardware or Rotax gear drive with 5/16 or 8 mm mounting hardware.

Note: Designed for use on Ultra-Prop only.
 1/4" MX P/N 05-04958..... **\$67.75**
 5/16" Rotax P/N 05-04959..... **\$67.75**

SIMPSON AVIATION RESTRAINTS



Complete harness systems from Simpson Performance features 5-point aviation harnesses for a wide variety of experimental aircraft, aerobatic planes and historical/military restoration planes. Simpson aviation harnesses are a premier line made in the USA and backed by Simpson's 60 years of experience and research in motorsports safety.

SIMPSON CAMLOCK HARNESS SYSTEM

| Description | Part No. | Price |
|---|----------|----------|
| 5-Point - Individual Shoulder Pull Down | 13-21670 | \$320.00 |
| 5-Point - Individual Shoulder Pull Up | 13-21671 | \$320.00 |
| 5-Point - Y Shoulder Pull Down | 13-21672 | \$320.00 |
| 5-Point - Y Shoulder Pull Up | 13-21673 | \$320.00 |
| 6-Point - Individual Shoulder Pull Down | 13-21674 | \$337.00 |
| 6-Point - Individual Shoulder Pull Up | 13-21675 | \$337.00 |
| 6-Point - Y Shoulder Pull Down | 13-21676 | \$337.00 |
| 6-Point - Y Shoulder Pull Up | 13-21677 | \$337.00 |
| 7-Point - Individual Shoulder Pull Down | 13-21678 | \$354.00 |
| 7-Point - Individual Shoulder Pull Up | 13-21679 | \$354.00 |
| 7-Point - Y Shoulder Pull Down | 13-21680 | \$354.00 |
| 7-Point - Y Shoulder Pull Up | 13-21681 | \$354.00 |

SIMPSON LATCH AND LINK SYSTEM

| Description | Part No. | Price |
|---|----------|----------|
| 5-Point - Individual Shoulder Pull Down | 13-21658 | \$235.95 |
| 5-Point - Individual Shoulder Pull Up | 13-21659 | \$235.95 |
| 5-Point - Y Shoulder Pull Down | 13-21660 | \$235.95 |
| 5-Point - Y Shoulder Pull Up | 13-21661 | \$235.95 |
| 6-Point - Individual Shoulder Pull Down | 13-21662 | \$269.95 |
| 6-Point - Individual Shoulder Pull Up | 13-21663 | \$252.95 |
| 6-Point - Y Shoulder Pull Down | 13-21664 | \$252.95 |
| 6-Point - Y Shoulder Pull Up | 13-21665 | \$252.95 |
| 7-Point - Individual Shoulder Pull Down | 13-21666 | \$269.95 |
| 7-Point - Individual Shoulder Pull Up | 13-21667 | \$269.95 |
| 7-Point - Y Shoulder Pull Down | 13-21668 | \$269.95 |
| 7-Point - Y Shoulder Pull Up | 13-21669 | \$269.95 |

VISIT US AT WWW.CPS-PARTS.COM FOR ADDITIONAL COLORS AND YOUR AIRCRAFT APPLICATION.

SEAT BELT/HARNESS SET FOR HOMEBUILTS



Specially designed for the VariEze, this popular combination is also used in the Long-EZ, Quickie, Q2, Cozy, Sea Hawk and several other homebuilts. The belts are made to fit snugly, and the aluminum end fittings save weight. Order two sets for all above aircraft except Quickie which uses one set. Not FAA approved for certificated aircraft. P/N 13-01300 **\$395.00 Set**

ENGINE OR PROPELLER BALANCE MASTER



Balance Masters® are Patented, Designed, Manufactured and Distributed in the U.S.A. and are easy-to-install devices for propellers and Rotax engines. These devices cut the vibration factor on ultralight aircrafts by as much as 50 percent when both balancers are installed.

Balance Masters® are weighted with a high density liquid mass (Quick Silver). The physical principles of centrifugal and gyroscopic forces explain the action of the Balance Masters®. With the Balance Masters installed, the weighted liquid mass (Quick Silver) in the apparatus shifts during spinning, and adjusts to compensate for imbalances due to such factors as changes in flying conditions or warpage in the propeller, from nicks and rocks during takeoffs and landings. The Propeller Balance Masters® mounts on the propeller shaft or gear box in conjunction with the propeller. It is less than 7 inches in diameter.

Off-Set Prop Balancer P/N 15-05828 **\$138.50**
 Balancer for engine Rotax 912, 914 P/N 15-09450 **\$168.00**
 Balancer for engine Rotax 377, 447, 503 P/N 15-05261 **\$149.95**
 Balancer for engine Rotax 582, 618 P/N 15-05260 **\$149.95**



AZUSA BRAKES FOR AZUSA 5" & 6" WHEELS



These 4.5" brakes have a long actuating arm, 5/8" mounting hole, and bonded lining. Available in anchor style w/ built-in anchor & 2 cable mounting ears, or round style which features a round aluminum backing plate. Platform required w/ 5" Azusalite.

| Part No. | Description | Price |
|----------|----------------------------|---------|
| 06-03415 | Anchor Style Brake #2208 | \$39.90 |
| 06-03420 | Round Style Brake #2270A | \$41.95 |
| 01-00169 | Brake Assy. 2272A (Right) | \$38.75 |
| 01-00306 | Brake Assy. 2272A (Left) | \$40.50 |
| 06-03425 | Brake Arm #2263 | \$1.54 |
| 06-03430 | Spring #2264 | \$0.74 |
| 06-03435 | Cam #8235 | \$4.65 |
| 06-03440 | Platform #2259A | \$8.50 |
| 06-03445 | Lined Shoes (1/side) #2260 | \$19.50 |

AZUSA BRAKES FOR AZUSA 8" WHEELS



These 5" brakes are used on Azusa #1175 wheels only. Features a round aluminum backing plate and actuating arm which allows for 8 positions.

| Part No. | Description | Price |
|----------|----------------------------|---------|
| 06-03450 | Round Style Brake #2530 | \$37.80 |
| 06-03455 | Brake Arm #2537 | \$4.75 |
| 06-03460 | Spring #2539 | \$0.75 |
| 06-03465 | Cam #2533 | \$7.95 |
| 06-03470 | Lined Shoes (1/side) #2538 | \$18.65 |

HOMEBUILT TIRES & TUBES

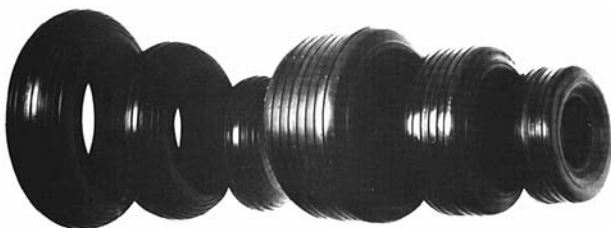


These industrial tires & tube assemblies from Goodyear are used on a unique variety of homebuilt & ultralight aircraft airplanes. Sold as set of tire & tube only.

| Dimensions | Ply | Part No. | Price |
|-----------------|-------|----------|----------|
| 4.10 x 3.50 x 4 | 4 PLY | 06-10830 | \$35.50 |
| 3.40 x 3.00 x 5 | 4 PLY | 06-10840 | \$21.90 |
| 11 x 4.00 x 5 | 2 PLY | 06-10860 | \$38.25 |
| 13.5 x 6.00 x 6 | 2 PLY | 06-10870 | \$35.50 |
| 4.80 x 4.00 x 8 | 4 PLY | 06-10880 | \$28.00 |
| 4.10 x 3.50 x 5 | -- | 06-00714 | \$12.50 |
| 11 x 4.50 x 6 | -- | 06-00716 | \$15.85 |
| 4.80 x 4.00 x 8 | -- | 06-00720 | \$12.90 |
| 20 x 7.00 x 8 | 2 PLY | 06-01596 | \$146.75 |

*2008 tire superseded by Carlisle.

TIRES & TUBES FOR ULTRALIGHTS



TIRES

| Part No. | Nom. Size | W | Dia. | Price |
|----------|-----------|------|-------|---------|
| 06-00361 | 300 x 4 | 3.2" | 10.0" | \$39.80 |
| 06-00362 | 400 x 5 | 3.9" | 10.5" | \$21.60 |
| 06-00366 | 800 x 6 | 6.0" | 16.3 | \$98.75 |

TUBES

| Part No. | Size | Price | Part No. | Size | Price |
|----------|--------|---------|----------|-------|---------|
| 06-00761 | 300x4 | \$21.85 | 06-00356 | 600x6 | \$27.95 |
| 06-00355 | 3.50x5 | \$13.90 | 06-00358 | 800x6 | \$38.75 |



AZUSA RIBBED / FLAT PROFILE TIRES

Azusa Ribbed/Flat Profile Tires. Price per tire. Note: These are not automotive tires, extra inflation precautions are required.

| Size / Tire | Ply / Width | OD* / Innertube | Part No. | Price |
|---------------------|-------------|-----------------|----------|---------|
| 11-400 X 5 / 7164 | 2 / 3.2" | 10.5" / 7131 | 06-01571 | \$22.85 |
| 11-400 X 5 / 7046 | 4 / 3.9" | 10.5" / 7131 | 06-00362 | \$21.60 |
| 11-400 X 5 / 7046-8 | 8 / 4" | 10.8" / 7131 | 06-01573 | \$31.50 |
| 13-500 X 6 / 7168 | 2 / 4.8" | 12.6" / 7133 | 06-01568 | \$27.85 |
| 410/350 x 6 | 4 / 4.0" | 12.5 / 7039 | 06-00074 | \$18.50 |
| 13-500 X 6 / 7018 | 4 / 4.8" | 12.6" / 7133 | 06-01572 | \$24.95 |
| 13-650 X 6 / 7031 | 4 / 6.0" | 12.5" / 7141 | 06-01575 | \$38.80 |
| 15-600 X 6 / 7169 | 2 / 5.9" | 14.8" / 7125 | 06-01576 | \$35.85 |
| 16-650 x 8 / 7024-2 | 2 / 6.4" | 16.4" / 7118 | 06-01609 | \$43.75 |
| 16-650 X 8 / 7024-2 | 2 / 6.4" | 16.4" / 7118 | 06-01579 | \$43.75 |
| 18-850 X 8 / 7002 | 4 / 8.0" | 16.5" / 7120 | 06-01580 | \$58.50 |
| 18-950 X 8 / 7027 | 4 / 8.0" | 17.4" / 7120 | 06-01581 | \$65.50 |

| Tubes | Part No. | Price |
|--------------------------------|----------|---------|
| Azusa Tube #7133 410/350X6 | 06-00075 | \$7.95 |
| Azusa Tube #7131 340/300 X 5 | 06-00822 | \$7.95 |
| Azusa Tube #7120 18-950 X 8 | 15-04731 | \$24.50 |
| Azusa Tube #7116 11-600 X 5 | 15-06300 | \$12.90 |
| Azusa Tube #7141 410/350X6 | 06-01590 | \$11.50 |
| Azusa Tube #7125 15-600 X 6 | 15-04869 | \$11.55 |
| Azusa Tube #7138 800 X 6 | 06-01592 | \$21.65 |
| Azusa Tube #7118 16-650/750 X8 | 06-01593 | \$15.90 |

HEGAR NOSE WHEELS



6" SPUN ALUMINUM NOSE WHEEL - The 6" Spun Aluminum nose wheel with 5/8 bearings. Comes centered when using the MX o-ring standard wheel hub but can also be purchased with the MX offset hub (no o-ring with offset hub. Requires the use of a tube. Comes complete with nuts, bolts, washers, valve stem, o-rings if required and the MX hub. May also be used as main wheels.

P/N 06-01274..... \$89.80

HEGAR MASTER CYLINDERS



5" SINGLE LEVER MASTER CYLINDER - 5" single lever, foot operated. Designed for single braking. Stock unit has 1/2" bore. 5/8" and 3/4" bore are available as a special order. P/N 06-01277..... \$94.75

5" DUAL LEVER MASTER CYLINDER - 5" dual lever, foot operated. Designed for differential braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes.
1/2" P/N 06-01278..... \$177.75
5/8" P/N 06-01611..... \$176.75

7" SINGLE LEVER MASTER CYLINDER - 7" single lever, hand operated. Designed for single braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes.
P/N 06-01279..... \$89.75

7" DUAL LEVER MASTER CYLINDER - 7" dual lever, hand operated. Designed for differential braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes. P/N 06-01280..... \$177.75

LG

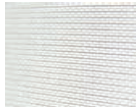
AIRCRAFT SPRUCE - WORLD'S LARGEST DISTRIBUTOR OF POLY-FIBER PRODUCTS



This FAA approved process utilizing Poly-Fiber Dacron polyester and the unique "Poly" line of finishes assures a beautiful, durable, weather-resistant cover job every time. Documented time tested results by the professionals. The Poly-Fiber Covering Process was issued Supplemental Type Certificate No. SA-1008-WE in 1965 and this number will apply to all aircraft.

Note: Formerly known as Stits covering process. Only Poly-Fiber materials may be used through the topcoat paint to comply with STC requirements. Poly-Fiber finishes are required for approval. Poly-Fiber is approved for use on most certified aircraft. To be sure, check the Master Eligibility List in the latest revision of Poly-Fiber Procedure Manual No. 1.

POLY-FIBER FABRIC UNCERTIFIED LIGHT



1.87 oz/sq. yard. Lightweight fabric recommended for covering ultralight aircraft. This fabric will be unstamped. It is not approved for certified aircraft except on plywood surface. 72" Width P/N 09-02001.....**\$9.65 /Lineal Yd.**

MEDIUM WEIGHT



2.79 oz/sq. yard. Standard fabric recommended for normal service on all types of aircraft regardless of speed, wing loading or horsepower.

P/N 09-01600.....**\$13.50 /Lineal Yd.**

HEAVY DUTY



3.40 oz/sq. yard. Recommended for severe operating conditions and very high wing loading aircraft where a very tough, durable, low elongation, high tension fabric is required and weight is not critical. Great for agricultural, aerobatic and bush planes. 72" Width..... P/N 09-01700.....**\$14.70 /Lineal Yd.**

POLYESTER PADDING

Non-woven, 45" wide, 3 oz. per yard. Used under fabric on wing leading edge and turtle deck to smooth rough surfaces..... P/N 09-01750 **\$11.60**

POLY-FIBER POLYESTER PINKED EDGE TAPES

| Part No. | Style # | Roll Width | Roll Length | Price. |
|----------|---------|------------|-------------|----------------|
| 09-02200 | Med. | 1" | 25 yds. | \$18.50 |
| 09-02400 | Med. | 1-1/2" | 25 yds. | \$20.50 |
| 09-02450 | Med. | 2" | 25 yds. | \$25.50 |
| 09-02500 | Med. | 2" | 50 yds. | \$33.20 |
| 09-02900 | Med. | 3" | 25 yds. | \$32.00 |
| 09-03300 | Med. | 4" | 25 yds. | \$37.50 |
| 09-03350 | Med. | 6" | 25 yds. | \$49.50 |
| 09-02300 | Light | 1" | 25 yds. | \$18.55 |
| 09-02350 | Light | 1-1/2" | 25 yds. | \$20.50 |
| 09-02705 | Light | 2" | 25 yds. | \$25.50 |
| 09-02700 | Light | 2" | 50 yds. | \$33.20 |
| 09-03100 | Light | 3" | 25 yds. | \$32.00 |
| 09-03400 | Light | 4" | 25 yds. | \$37.50 |
| 09-03545 | Light | 6" | 25 yds. | \$49.50 |
| 09-03565 | Bias | 2" | 25 yds. | \$35.80 |
| 09-03570 | Bias | 3" | 25 yds. | \$50.90 |
| 09-03580 | Bias | 4" | 25 yds. | \$63.75 |

POLY-FIBER TAPES, CORD & THREAD



| | Item | P/N | Yds. Spool | Price |
|------------------|----------------|----------|------------|----------------|
| Reinforcing Tape | 1/4" Wide | 09-03500 | 60 | \$67.10 |
| | 3/8" Wide | 09-03600 | 60 | \$69.75 |
| | 1/2" Wide | 09-03700 | 60 | \$74.75 |
| Rib Lacing Cord | (Std. Round) | 09-03800 | 296 | \$49.85 |
| | Rib Cord, Flat | 09-03810 | 500 | \$49.80 |
| Sewing Thread | Machine | 09-03900 | 500 | \$17.50 |
| | Hand | 09-04000 | 250 | \$15.50 |
| Anti-Chafe | 1" Wide | 09-02110 | 30 | \$20.50 |

HEAVY INTER-RIB BRACING TAPE

Non-adhesive polyester twill tape for inter-rib bracing. Twice as strong as cotton tape. 36 yd. rolls. 1/2" Wide P/N 09-40912 **\$35.50**



AIRCRAFT FABRIC COVERING

Aircraft Fabric Covering is a must for anyone who wants to cover their own airplane. This 2-hour comprehensive DVD presents every aspect of the Poly-Fiber™ fabric covering process in detail, and in easy-to-understand language. From preparing the airplane for covering to spraying on the colors, you are guided step by step through the entire process by a professional EAA SportAir fabric instructor. When used in conjunction with the Poly-Fiber manual, Aircraft Fabric Covering removes the mystery surrounding this important process in the construction or restoration of your airplane.

Information covered includes: • Preparing surfaces • Attaching the fabric • Tightening the fabric • Applying the first coat of Poly-Brush • Tying rib-lacing knots • Applying finishing tapes • Spraying UV-blocking chemical • Poly-Spray • Applying the color coats. DVD P/N 13-40428 **\$39.95**

THE POLY-FIBER PRACTICE KIT



If you're thinking of building a fabric-covered airplane but are wondering what the covering process is like, this is the perfect answer. You get a practice frame, fabric, tapes, needles, rib lacing cord, thermometer, instructions, and all the coatings you need to work through the Poly-Spray stage. There's enough of everything to do the entire process twice. You'll see how easy and enjoyable fabric covering really is.

P/N 09-06220 **\$59.95**

POLY-FIBER SOLVENTS & CLEANERS

METL-SOL C-2200 METAL SURFACE CLEANER



A strong solvent blend formulated to remove oil, silicone, wax and other contaminants from all metal surfaces before priming. Not for painted surfaces. This FAA approved process utilizing Poly-Fiber Dacron fabrics and the unique "Poly" line of finishes assures a beautiful, durable, weather-resistant cover job every time. Documented time tested results by the professionals. The Poly-Fiber Covering Process was issued Supplemental Type Certificate No. SA-1008-WE in 1965 and this number will apply to all aircraft.

Quart P/N 09-40710 **\$22.70**
Gallon P/N 09-40720 **\$66.75**

C-2210 PAINT SURFACE CLEANER



A mild solvent blend formulated to remove oil, silicone, wax and other contaminants from all painted or primed surfaces. Also removes tape gum from painted surfaces and acrylic windshield materials.

Quart P/N 09-40810 **\$17.95**
Gallon P/N 09-40820 **\$49.50**

310 ALKALINE DETERGENT CLEANER



Highly recommended as an alkaline metal cleaner for removing greases and oils. Also a very good cleaner for interior cabins and vinyl upholstery, as well as a wide variety of household applications to remove waxes, dirt, and stains. Furnished as a concentrate for 32:1 dilution with water. Lemon scented and not harmful to your hands.

Quart P/N 310-QT **\$13.50**
Gallon P/N 310-1G **\$36.50**

POLY-FIBER MEK



Solvent used to remove coatings for repairs, for clean up, and to release cemented seams. NOT used to thin or reduce any products.

Quart P/N 09-40835 **\$18.90**
Gallon P/N 09-40845 **\$45.70**



POLY-BRUSH
FLAMMABLE A pink translucent, 1 part air drying resin used for the first 2 or 3 coats to penetrate and seal the fabric weave and assure good adhesion. Also used to attach the finishing tapes and reinforcing patches. Brush on initial coat thinned 3:1 with reducer. Subsequent coats are thinned 3:1 with reducer and applied with a spray gun to avoid brush marks & cut application time.

| | | | |
|-------------------------------|-----------------|-------------------------------|-----------------|
| Tinted | | Untinted | |
| Quart..... P/N 09-04100..... | \$28.50 | Quart..... P/N 09-04110..... | \$28.50 |
| Gallon..... P/N 09-04200..... | \$93.75 | Gallon..... P/N 09-04210..... | \$93.75 |
| 5 Gal..... P/N 09-04300..... | \$533.00 | 5 Gal..... P/N 09-04350..... | \$467.00 |



POLY-SPRAY
FLAMMABLE A high-solids aluminum-pigmented, 1 part, air drying resin used after the Poly-Brush preliminary coating to protect fabric from UV and prepare for a smooth finish.

Thin 4:1.

| | | |
|--------------------------|-------------------|-----------------|
| Poly Spray (Qt.)..... | P/N 09-04400..... | \$28.10 |
| Poly Spray (Gal.)..... | P/N 09-04500..... | \$91.95 |
| Poly Spray (5 Gal.)..... | P/N 09-04600..... | \$456.00 |



POLY-FIBER REDUCERS
FLAMMABLE A blend of solvents used for viscosity and drying control of Poly-Brush, Poly-Spray and Poly-Tone. Blend #R-65-75 is recommended as the standard reducer in normal weather, 65°-75°F. #RR-8500 is a retarder-reducer with slower drying time. Recommended for temp above 85° & warm humid weather.

| | | | |
|------------------------------|-----------------|------------------------------|-----------------|
| #65-75 | | #RR-8500 | |
| Qt..... P/N 09-04700..... | \$22.50 | Qt..... P/N 09-04750..... | \$21.55 |
| Gal..... P/N 09-04800..... | \$52.75 | Gal..... P/N 09-04850..... | \$53.75 |
| 5 Gal..... P/N 09-04900..... | \$253.75 | 5 Gal..... P/N 09-04950..... | \$252.95 |



POLY-FIBER BLUSH RETARDER BR-8600
FLAMMABLE This blended solvent improves flow-out and prevents blushing under high temperature or high humidity conditions. Improves gloss. Important Notice: All mixed paints are special order and are non-returnable.

| | | |
|---------------------|-------------------|----------------|
| BR-8600 (Qt.)..... | P/N 09-40830..... | \$21.00 |
| BR-8600 (Gal.)..... | P/N 09-40840..... | \$53.90 |



POLY-TAK CEMENT
FLAMMABLE Excellent cement for all types of fabrics. Shelf life unopened is 2 years.

| | | |
|-------------|-------------------|-----------------|
| Pint..... | P/N 09-05110..... | \$18.70 |
| Quart..... | P/N 09-05000..... | \$30.50 |
| Gallon..... | P/N 09-05100..... | \$109.80 |



POLY-TONE® FINISH
A durable semi-gloss, 1-part, air drying flexible paint available in over 50 popular aircraft colors. Recommended as the standard finish for the Poly-Fiber cover process. Also may be used over suitably primed metal components of fabric covered aircraft. Fabric damage is more easily repaired when Poly-Tone finish is used. All pigments are non-bleeding or fading. Will not oxidize with age. Poly-Tone is always thinned to 4 to 1 with Poly Fiber Reducer (65-75 or 8500).

POLY-TONE FINISHES

| | | |
|---|------------------|----------------|
| 4 Whites: | QUART | GALLON |
| Insignia White (#105)..... | \$29.65 | \$97.79 |
| Juneau White (#110)..... | \$29.50 | \$95.25 |
| Glacier White (#117)..... | \$29.50 | \$97.75 |
| Daytona White (#120)..... | \$29.50 | \$98.50 |
| All other colors (Color Card #50)..... | No Charge | |

TO ORDER POLYTONE:

Create the part number for the Polytone you require: Color-PQ (for Quart) or Color-PG (for Gallon)
Example: 100-PQ is 1 Quart of Color #100

POLY-TONE U.V. BLOCKING

FLAMMABLE Used for additional UV Protection in ultralight airplanes. 1 fl.oz. blocks 1 Quart Polytone
1/2 Pint Blocker (8 fluid oz.)..... P/N 09-02053..... **\$26.50**

POLY-TONE REJUVENATOR

FLAMMABLE RJ-1200 Quart..... P/N 09-05200..... **\$29.50**
Gallon..... P/N 09-05300..... **\$88.75**

IMPORTANT NOTICE:

ALL mixed paints are special order and are non-returnable.



STITS EPOXY PRIMER (GREEN) EP-420/EP-430

This green primer is fast drying, corrosion inhibiting, and has application and curing qualities down to 35°F. It is a heavy duty chemical and solvent resistant amine cured primer. Mixing ratio is 2 parts base, 1 part catalyst. Order in kits.

| | | |
|--|-------------------|-----------------|
| Quart Kit (Yields 2 1/2 quarts) | P/N 09-00352..... | \$97.75 |
| Incl. catalyst and reducer..... | | |
| Gallon Kit (Yields 2 1/2 Gallons) | P/N 09-00353..... | \$328.95 |
| Incl. catalyst and reducer..... | | |

| | | |
|------------------|-------------------------------|-----------------|
| Base: | Quart..... P/N 09-05605..... | \$53.75 |
| | Gallon..... P/N 09-05610..... | \$183.75 |
| Catalyst: | Pint..... P/N 09-05615..... | \$23.95 |
| | Quart..... P/N 09-05620..... | \$40.50 |
| | Quart..... P/N 09-01163..... | \$20.50 |
| | Gallon..... P/N 09-01108..... | \$64.75 |

Reducer E-500 (Reduce 50%)



STITS EPOXY PRIMER (WHITE) EP-420/EP-430

This white heavy duty chemical and solvent resistant amine cured primer, the excellent primer from Stits is fast drying and corrosion inhibiting. It can be applied and cured to temperatures down to 35°F. Mixing ratio is 2 parts base, 1 part catalyst.

| | | |
|--|-------------------|-----------------|
| Quart Kit (Yields 2 1/2 quarts) | P/N 09-00285..... | \$97.75 |
| Incl. catalyst and reducer..... | | |
| Gallon Kit (Yields 2 1/2 Gallons) | P/N 09-00438..... | \$326.95 |
| Incl. catalyst and reducer..... | | |

| | | |
|------------------|-------------------------------|-----------------|
| Base: | Quart..... P/N 09-05625..... | \$53.75 |
| | Gallon..... P/N 09-05630..... | \$181.95 |
| Catalyst: | Pint..... P/N 09-05615..... | \$23.95 |
| | Quart..... P/N 09-05620..... | \$40.50 |
| | Quart..... P/N 09-01163..... | \$20.50 |
| | Gallon..... P/N 09-01108..... | \$64.75 |

Reducer E-500 (Reduce 50%)



STITS EPOXY VARNISH EV-400/EV-410

An excellent clear gloss epoxy varnish for interior and exterior use. It provides superior weather durability and excellent chemical and solvent resistance. Can be used over a one component varnish primer if desired. Mixing ratio is 2 parts base, 1 part catalyst. Can be ordered as a kit which includes base, catalyst and reducer, or each component separately.

| | | |
|--|-------------------|-----------------|
| Quart Kit (Yields 2-1/2 quarts) | P/N 09-00349..... | \$89.50 |
| Incl. catalyst and reducer..... | | |
| Gallon Kit (Yields 2-1/2 Gallons) | P/N 09-00350..... | \$304.95 |
| Incl. catalyst and reducer..... | | |

| | | |
|------------------|-------------------------------|-----------------|
| Base: | Quart..... P/N 09-05645..... | \$48.50 |
| | Gallon..... P/N 09-05650..... | \$171.75 |
| Catalyst: | Pint..... P/N 09-05655..... | \$20.50 |
| | Quart..... P/N 09-05660..... | \$34.65 |
| | Quart..... P/N 09-01163..... | \$20.50 |
| | Gallon..... P/N 09-01108..... | \$64.75 |

Reducer E-500 (Reduce 50%)



UV-550 URETHANE VARNISH KIT

Important Notice: All mixed paints are special order and are non-returnable. **Kit Includes:** • 09-05665 - UV-550 poly-fiber varnish quart • 09-05400 - U-865 Stits catalyst 1/2 pint • 09-05800 - UR-826 urethane retarder quart.

| | | |
|--------------------------------------|---------------------|-----------------|
| Varnish Only (Quart)..... | P/N 09-05665..... | \$56.65 |
| Varnish & Catalyst Kit (Gallon)..... | P/N 09-05272-K..... | \$317.00 |



EPOXY ACCELERATOR EX-501

A chemical curing accelerator for use in EP-420 Epoxy Primer and EV-400 Epoxy Varnish according to directions on base component listing. Reduces polymerization time, not solvent evaporation. 1/2 Pint..... P/N 09-04650..... **\$20.40**



POLY-FIBER ESO ENGINE STORAGE OIL

A fine lubrication and preservative oil used to prevent corrosion in internal combustion engines during extended storage. MIL-21260.

| | | |
|-------------|-------------------|----------------|
| Gallon..... | P/N 09-42455..... | \$89.00 |
|-------------|-------------------|----------------|

POLY-FIBER 60"X 48" FINE MESH PAINT STRAINER CONES

Poly-Fiber 60x48 filter mesh paint strainer cone.
P/N 09-02115..... **\$0.81**

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POLY FIBER AEROTHANE

A tough, flexible, high-gloss two part polyurethane especially formulated for fabric covered aircraft and marine surfaces subject to flexing loads. Recommended as a premium quality fabric finish over Stits Poly-Fiber covered aircraft. Wet look, high gloss. Aerothane requires catalyst, which is sold separately, and will be offered to you at the time of purchase. If you currently have an adequate supply please notify a sales rep or note it on your online order. Aerothane additives are also sold separately, but must be requested as needed.

| AERO-THANE (All Paint 3/4 filled cans) | | | |
|--|----------------|----------|----------|
| Size | Color | Part No. | Price |
| Quart | Insignia White | 105-AQ | \$43.80 |
| Gallon | Insignia White | 105-AG | \$143.10 |
| Quart | Juneau White | 110-AQ | \$43.50 |
| Gallon | Juneau White | 110-AG | \$142.95 |
| Quart | Glacier White | 117-AQ | \$41.50 |
| Gallon | Glacier White | 117-AG | \$141.95 |
| Quart | Daytona White | 120-AQ | \$44.25 |
| Gallon | Daytona White | 120-AG | \$143.95 |

| CLEAR AERO-THANE AO-100 (All paints 3/4 filled cans) | | | |
|--|-------|-----------|----------|
| Size | Color | Part No. | Price |
| 3/4 Quart Paint | Clear | AO-100-QT | \$48.95 |
| 3/4 Gallon Paint | Clear | AO-100-1G | \$166.10 |

| AERO-THANE ADDITIVES | | | |
|--------------------------|----------|----------|----------|
| Description | Size | Part No. | Price |
| Urethane Catalyst U-865 | 1/2 Pint | 09-05400 | \$33.50 |
| Urethane Catalyst U-865 | Quart | 09-05500 | \$104.85 |
| Urethane Reducer UE-820 | Quart | 09-05600 | \$23.95 |
| Urethane Reducer UE-820 | Gallon | 09-05700 | \$73.75 |
| Urethane Retarder UR-826 | Quart | 09-05800 | \$38.65 |
| Urethane Retarder UR-826 | Gallon | 09-05900 | \$104.75 |

TO ORDER AEROTHANE:

Create the part number for the Aerothane you require: Color-A-Q (quart) or G (gallon). Add -K (kit) if catalyst is required. Example: 100-A-Q-K is 1 quart of color #100 with catalyst included.



POLY-TONE/AEROTHANE ENAMEL FLATTENER

Used to make Aerothane and Enamel match the semi gloss finish of Polytone, or to make either Aerothane, Polytone and Enamel Full Military Flat. Use 1 Pint, to flatten 1 Quart

P/N 09-02052 \$29.60

Use 1 Qt. & 1 Pint, to flatten 1 Gallon..... \$52.75
P/N 09-02051 \$52.75



CALIBRATION THERMOMETER

Thermometer is accurate from 100°F to 400°F / 50°C to 200°C. Easy-to-read dial. Adjustable pan clip. Durable stainless steel.

P/N 09-37475 \$14.50



COVERITE 21ST CENTURY SEALING IRON

This is the Coverite 21st Century Iron used to apply fabric or film onto model airplane kits.

Specifications:

- Input Voltage: 110V AC US Standard
- Minimum Wattage: 4.8 W rms
- Maximum Wattage: 174 W rms

P/N 09-05640 \$52.75

AIRCRAFT FABRIC SEALING IRON 110V



A digital thermostatic controlled sealing iron with easy to read LCD display. 110 Volt Sealing Iron.
P/N 09-04837 \$54.95



VISCOSITY CUP

The Ford #4 viscosity cup is used for measuring the viscosity of paints and finishes to ensure a flawless finish.

P/N 09-04776 \$11.75

POLY-FIBER COLORS AVAILABLE

Each color group in chart below is listed from light to darker shades. Free Poly-Fiber color chart available on request. Color Card #50.

CLEAR

100..... (Aerothane Only)

WHITE

105..... Insignia White (Eagle White)
110..... Juneau White
117..... Glacier White (Federal 17038)
120..... Daytona White

CREAM

132..... Sun Valley Ivory
125..... Tucson Cream
131..... Diana Cream

YELLOW

242..... Ag Cat Yellow
136..... Lemon Yellow
139..... Federal Yellow
145..... Lockhaven Yellow
240..... Champion Yellow
Titanine Yellow
Orange Yellow (Schweizer Yellow) (Thrush Yellow) (Orange Yellow)
143..... Cub Yellow
146..... J3 OEM Yellow

ORANGE

142A..... Eagle Yellow (Orange)
182..... Pumpkin Orange
183..... International Orange
180..... Cruiser Orange

RED

189..... Madrid Red
187..... Eagle Red
191..... Pontiac Red (Toreador Red)
190..... Tennessee Red (Federal 11136) (Insignia Red)
195..... Santa Fe Red (Maroon)
196..... Boston Maroon
197..... Stinson Maroon

PURPLE

361..... Eagle Purple

BROWN

205..... Bermuda Tan
203..... Elsinore Brown

BLUE

165..... Lakeland Blue
170..... Bahama Blue
173..... AN Blue (True Blue) (Federal 15102)
318M..... Piper Trainer Blue
177..... Eagle Blue
176..... Insignia Blue (Federal 15044 Blue)

GREY/SILVER

210..... Polar Grey
220M..... Nevada Silver
213A..... Federal 36321 Grey
213..... Ag Cat Grey
219..... Jasper Grey
222M..... Rancho Silver

BLACK

215..... Dakota Black (Eagle Black)

MILITARY CAMOUFLAGE

212..... Oak Green
208..... Federal 14087 (Olive Drab)
208A..... Federal 24064 Green

GREEN

157..... Cuby Sport Trainer (Green)
151..... Everglades Green
156..... Portland Green
160..... Forest Green
208..... Federal Green

GOLD

301M..... Reno Gold

TO ORDER

POLY-FIBER COLORS:

Simply specify Poly-Fiber color number from chart above, either PolyTone or AeroThane, and quart or gallon.

IMPORTANT NOTICE:

Poly-Fiber and Randolph Coatings are now manufactured by Consolidated Coatings Co. and current colors do NOT all match original Randolph colors. If matching an old color is required, please match it to a current color card or send in a sample of old color for custom matching.

ALL mixed paints are special order and are non-returnable.



BLACK & DECKER THE CLASSIC IRON

With a classic design and a wide range of convenient features, The Classic™ iron brings simplicity and style back to ironing. A SmarTemp™ indicator light ensures you're ironing at the right temperature, while the 3-way auto shutoff provides added security and peace of mind.

Heats up to 180°

Features: • Wrinkle-Fighting Power • Aluminum Soleplate • Steam On/Off Button • Ironing Made Easy • 3-Way Auto Shutoff •

Anti Drip • Fabric Guide Button Groove • Pivoting Cord P/N 09-00980 \$58.75



IRON KIT

Includes: • 09-37400: Hobbico Fabric Iron 110V • 09-03785: 360 degree Fabric Iron • 09-37450: Silicone Heat Sink Compound 1oz syringe • 09-37475: Poly-Fiber Calibration Thermometer.

P/N 09-37420 \$166.95

SILICONE HEAT SINK COMPOUND



For more accurate thermal transfer during iron calibration. 1 oz. Syringe.

P/N 09-37450 \$16.00





POLY-FIBER MARK II FOR METAL

(NOT FOR USE ON FABRIC) - Use Mark II for Metal is available in the same 50 colors as Poly-Fiber Poly-Tone and Randolph Colored Butyrate Dope. Mark II is used over primed metal or composite parts and is too brittle to be used over fabric. Mark II is a tough, long-lasting topcoat paint. Although Mark II is a two-part catalyzed paint, it is not catalyzed with an isocyanate, thus normal safety equipment (a charcoal filtered spray mask) is sufficient. You do not have to use a supplied air respirator when spraying Mark II. Packaging: Mark II comes in three-part kits: part one is a can of the colored paint; part two is a separate can with an equal volume of Mixing Liquid, and part three is a thinner to be used to prevent orange peel.

| Color | Quart | Price | Gallon | Price |
|------------------------------|----------|----------|----------|----------|
| Clear Base for Tinting | 09-03869 | \$58.75 | 09-03871 | \$165.05 |
| Metallic Base for Tinting | 09-03872 | \$59.75 | 09-03873 | \$165.05 |
| 105 Insignia White | 09-03876 | \$148.95 | 09-03877 | \$473.95 |
| 110 Juneau White | 09-03878 | \$148.95 | 09-03879 | \$442.95 |
| 117 Glacier White | 09-03880 | \$149.95 | 09-03881 | \$474.95 |
| 120 Daytona White | 09-03882 | \$149.95 | 09-03883 | \$444.95 |
| 125 Tucson Cream | 09-03884 | \$148.95 | 09-03885 | \$440.95 |
| 131 Diana Cream | 09-03886 | \$148.95 | 09-03887 | \$442.95 |
| 132 Sun Valley Ivory | 09-03888 | \$148.95 | 09-03889 | \$442.95 |
| 136 Lemon Yellow | 09-03890 | \$160.95 | 09-03891 | \$491.95 |
| 139 Federal Yellow | 09-03892 | \$152.95 | 09-03893 | \$458.95 |
| 140 Orange Yellow | 09-03894 | \$157.95 | 09-03895 | \$479.95 |
| 142A C. Eagle Yellow/Orange | 09-03896 | \$153.95 | 09-03897 | \$463.95 |
| 143 Club Yellow | 09-03898 | \$153.95 | 09-03899 | \$463.95 |
| 145 Lockhaven Yellow | 09-03901 | \$151.95 | 09-03902 | \$454.95 |
| 146 J3 OEM Yellow | 09-03903 | \$153.95 | 09-03904 | \$463.95 |
| 151 Everglades Green | 09-03905 | \$158.95 | 09-03906 | \$480.95 |
| 156 Portland Green | 09-03907 | \$154.95 | 09-03908 | \$466.95 |
| 157 Cuby Sport Trainer Green | 09-03909 | \$159.95 | 09-03910 | \$487.95 |
| 160 Forest Green | 09-03911 | \$151.95 | 09-03912 | \$455.95 |
| 165 Lakeland Blue | 09-03913 | \$149.95 | 09-03914 | \$444.95 |
| 170 Bahama Blue | 09-03915 | \$151.95 | 09-03916 | \$454.95 |
| 173 AN (True) Blue | 09-03917 | \$151.95 | 09-03918 | \$455.95 |
| 176 Insignia Blue | 09-03919 | \$155.95 | 09-03920 | \$468.95 |
| 177 Christen Eagle Blue | 09-03921 | \$154.95 | 09-03922 | \$466.95 |
| 180 Cruiser Orange | 09-03923 | \$155.95 | 09-03924 | \$470.95 |
| 182 Pumpkin Orange | 09-03925 | \$154.95 | 09-03926 | \$467.95 |
| 183 International Orange | 09-03927 | \$155.95 | 09-03928 | \$469.95 |
| 187 Christen Eagle Red | 09-03929 | \$159.95 | 09-03930 | \$486.95 |
| 189 Madrid Red | 09-03931 | \$156.95 | 09-03932 | \$475.95 |
| 190 Tennessee Red | 09-03933 | \$158.95 | 09-03934 | \$481.95 |
| 191 Pontiac Red | 09-03935 | \$158.95 | 09-03936 | \$480.95 |
| 195 Santa Fe Red | 09-03937 | \$155.95 | 09-03938 | \$471.95 |
| 196 Boston Maroon | 09-03939 | \$157.95 | 09-03940 | \$478.95 |
| 197 Stinson Maroon | 09-03941 | \$158.95 | 09-03942 | \$483.95 |
| 203 Elsinore Brown | 09-03943 | \$148.95 | 09-03944 | \$440.95 |
| 205 Bermuda Tan | 09-03945 | \$148.95 | 09-03946 | \$442.95 |
| 208 Olive Drab | 09-03947 | \$148.95 | 09-03948 | \$441.95 |
| 208A Federal Green | 09-03949 | \$149.95 | 09-03950 | \$445.95 |
| 210 Polar Grey | 09-03951 | \$148.95 | 09-03952 | \$442.95 |
| 212 Oak Green | 09-03953 | \$149.95 | 09-03954 | \$447.95 |
| 213 AG Cat Grey | 09-03955 | \$148.95 | 09-03956 | \$440.95 |
| 213A Federal Grey | 09-03957 | \$148.95 | 09-03958 | \$443.95 |
| 215 Dakota Black | 09-03959 | \$146.95 | 09-03960 | \$433.95 |
| 219 Jasper Grey | 09-03961 | \$148.95 | 09-03962 | \$443.95 |
| 220M Nevada Silver | 09-03963 | \$141.95 | 09-03964 | \$409.95 |
| 222M Rancho Silver | 09-03965 | \$141.95 | 09-03966 | \$410.95 |
| 240 Champion Yellow | 09-03967 | \$148.95 | 09-03968 | \$443.95 |
| 242 AG Cat Yellow | 09-03969 | \$153.95 | 09-03970 | \$460.95 |
| 301M Reno Gold | 09-03971 | \$154.95 | 09-03972 | \$572.00 |
| 318M Piper Trainer Blue | 09-03973 | \$147.95 | 09-03974 | \$435.95 |
| 361 Christen Eagle Purple | 09-03975 | \$158.95 | 09-03976 | \$482.95 |

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POLY-FIBER REPAIR KIT

- Includes: 1 1" Dope Brush
 1 Pint Poly-Tak
 1 Quart Poly-Spray
 1 Quart Poly-Brush
 1 Quart Reducer (Specify 65-75 or 8500)
 1 Yard Medium Fabric
 4 Sheets #400 Sandpaper
 1 3" Curved Needle
 10 Feet 2" Surface Tape
 1 Thread
 With #65-75 Reducer P/N 09-06210 \$110.95
 With #8500 Reducer P/N 09-06215 \$110.95

CECONITE FABRIC REPAIR KIT



Ceconite 101 P/N 09-00299 \$176.95

Kit Includes:

| | | | |
|---------|--------------------------------|----------|--------------------------|
| 1 | 1" Brush | 1 quart | 286 Nitrate Thinner |
| 1 | 3" Curved Needle | 1 quart | Super Seam Fabric Cement |
| 1 | 3M Wetordry Sandpaper 413 | 2 quarts | 286 Butyrate Thinner |
| 1 quart | G-6302 Rand Nitrate Dope Grain | 1 quart | W-8350 Non-Taut Butyrate |
| 1 yard | Ceconite 101 (3.4 70") | 1 Yard | Stits Hand Sewing Thread |
| 1 quart | Rand O- Fill G6303 | 5 Yards | 2" C102 Straight Tape 2" |

Ceconite 102 P/N 09-06225 \$176.95

Kit Includes:

| | | | |
|---------|-------------------------------|----------|--------------------------|
| 1 | 1" Brush | 1 quart | Nitrate Thinner |
| 1 | 3" Curved Needle | 1 quart | W-8350 Non-Taut Butyrate |
| 1 yard | Ceconite 102 (2.6oz) | 2 quarts | Butyrate Thinner 970 |
| 1 sheet | 3M Wetordry Sandpaper 413 | 1 quart | Rand-O-Fill G-6303 QT |
| 1 quart | Super Seam Fabric Cement | 6 Yard | C102 Straight Tape 2" |
| 1 quart | G-6302 N/T Nitrate Dope Grain | 1 | Ceconite Hand Thread 250 |

FABRIC COVERING TOOL KIT

This kit includes the items most commonly needed to complete your Poly-Fiber covering project.



Kit Includes: 4 - 1" Disposable Brushes, 3 - 2" Disposable Brushes, 4 - 2" opening 6" long Spring Clamps, 1 - CB-9 Pinking Shears, 10 - 1/2" Glue/Acid Brushes, 1 - Black & Decker Classic Iron, 1 Hobbico Fabric iron 110V, 1 - Silicone heat sink compound, 1 -

Thermometer, 1 - 12" Straight Needle, 1 - 12" Curved Tip Needle, 1 - 6" Curved Needle, 2 - Gallon Paint Saver Lids, 1 - V-plore 330 series mask only, 1 - X-plore P100 Combo cart pkg. P/N 09-06230 \$202.95



POLY FIBER COVERING KIT

The Poly Fiber Covering Kit includes all of the materials generally required to recover a wide variety of small aircraft (see list below) except the fabric and topcoat. Poly-Fiber offers both Polytone and Aerothane topcoats in many colors. When you order this Covering Kit, you can also order the presewn fabric envelope or fabric yardage you will need to cover the aircraft. We are the best choice for your covering materials requirements. Count on Poly Fiber's largest distributor Aircraft Spruce!

Note: This kit is for aircraft requiring about 45 yards of fabric. Quantity required vary by aircraft. Verify quantity shown are correct for your aircraft before ordering kit. P/N 09-02046 \$2,872.00



POLY-FIBER MARK II MIXING LIQUID

Mixing liquid is a combination of catalyst and thinner to be used only with Mark II for Metal paint. Included in Mark II kits above, but also available separately. See directions for mixing, thinning, and application above. Shelf life is two years in unopened package.

Quart P/N 09-03695 \$65.45
 Gallon P/N 09-03696 \$231.95

POLY-FIBER MARK II THINNER

Used to thin Mark II for Metal paint after it has been combined with Mark II Mixing liquid. Included in Mark II kits above, but also available separately. Thinning is generally unnecessary when Mark II is sprayed. However, if orange peel results, you may use Mark II Thinner with 5 parts mixed Mark II paint. Shelf life is four years in unopened storage.

Pint P/N 09-03697 \$18.00
 Quart P/N 09-03698 \$23.10
 Gallon P/N 09-03699 \$58.75





FALCON TURN COORDINATOR (ELECTRIC)

3-1/8" cut out, 3-3/4" long. Small and lightweight, excellent for homebuilt aircraft. For 14V or 28V systems. Features power out warning flag. Unlighted. Includes electrical plug connector and cable clamp. Unlit 0° Panel..... P/N 10-22510 \$677.00



WINTER SLIP INDICATORS

The basic flight instrument for co-ordinated turns. Available in two styles: Rectangular model fits easily in cramped panel space. Square model matches a 2-1/4" instrument hole, fits on either side of the panel. Both feature finely crafted metal cases and precision ball and tube assemblies.
Square P/N 10-03812..... \$89.95
Rectangle..... P/N 10-03857..... \$89.95



BANK INDICATORS (BALL TYPE)

In turning, instantly register slightest departure from the correct banking angle. Bank scale has white markings on black background. New manufacture. Available in 2 models:

10°-10° Scale, 2.25" between mounting holes... P/N 10-00600 \$114.85
20° - 20° Scale, 5" between mounting holes..... P/N 10-00700 \$59.80



UMA AIRSPEED INDICATORS (NON-TSO'D)

These quality UMA, non-TSO'd airspeed indicators are available in MPH.
Note: An inverter is required for the Internal Lighting Option (P/N 10-02083 UMA 14V LIGHT INVERTER)

| Description | Dial | Part No. | Price |
|-------------|------------|----------|----------|
| 3-1/8" | 20-80 mph | 10-04905 | \$216.95 |
| 3-1/8" | 20-100 mph | 10-04910 | \$216.95 |
| 3-1/8" | 20-120 mph | 10-04915 | \$216.95 |
| 3-1/8" | 20-140 mph | 10-04920 | \$216.95 |
| 3-1/8" | 20-160 mph | 10-04925 | \$216.95 |

FALCON 3-1/8" SINGLE RANGE AIRSPEEDS



Falcon Gauge Airspeed Indicators have been one of the most chose flight instruments by kit plane builders and pilots. There are many great advantages to using these gauges: excellent slow speed characteristics; very progressive increments; a variety of ranges, light weight; short length, and affordable price. All Falcon Gauge Airspeed Indicators are housed in an aluminum case and consist of all metal parts. Available ranges: mph, knots, km/hr; single range reading or dual range readings. Non-TSO'd.

| Model No. | Length | Range | Part No. | Price |
|-----------|-------------|-------------|----------|----------|
| ASI080M-3 | 2.2"/56.5mm | 0-80 MPH | 10-02905 | \$229.95 |
| ASI100M-3 | 2.2"/56.5mm | 0-100 MPH | 10-02910 | \$299.95 |
| ASI120M-3 | 2.2"/56.5mm | 0-120 MPH | 10-02915 | \$229.95 |
| ASI140M-3 | 3.5"/97.3mm | 0-140 MPH | 10-02916 | \$227.85 |
| ASI150M-3 | 2.2"/56.5mm | 0-150 MPH | 10-02225 | \$229.95 |
| ASI160M-3 | 3.5"/97.3mm | 0-160 MPH | 10-02917 | \$243.95 |
| ASIO80N-3 | 3.5"/97.3mm | 0-80 Knots | 10-02896 | \$229.95 |
| ASI100N-3 | 2.2"/56.5mm | 0-100 Knots | 10-02897 | \$229.95 |
| ASI120N-3 | 2.2"/56.5mm | 0-120 Knots | 10-02898 | \$224.95 |
| ASI140N-3 | 3.5"/97.3mm | 0-140 Knots | 10-02899 | \$239.95 |
| ASI160N-3 | 3.5"/97.3mm | 0-160 Knots | 10-02900 | \$244.95 |

FALCON 2-1/4" MINIATURE AIRSPEEDS



Falcon Gauge Miniature Airspeed Indicators are designed for ultralights. They offer ultralight pilots an affordable alternative to other higher priced indicators found in the market today without compromising the pilot's needs for a quality gauge that provides accuracy, light weight, compactness and safety. Their excellent slow speed performance provides an extra measure of safety by assuring accurate speed readings when flying low or critical stall speeds. Weight: approx. 2.8 oz. or 80g Length: 2-9/16" or 41mm

| Model No. | Range | Part No. | Price |
|-----------|-------------|----------|----------|
| ASI050M-2 | 0-80 MPH | 10-02605 | \$179.95 |
| ASI100M-2 | 0-100 MPH | 10-02610 | \$179.95 |
| ASI120K-2 | 0-120 KPH | 10-04198 | \$179.95 |
| ASI140K-2 | 0-140 KPH | 10-02226 | \$179.95 |
| ASI120N-2 | 0-120 KNOTS | 10-04069 | \$179.95 |



SKYSPORTS 3 1/8" SINGLE RANGE AIRSPEEDS

Skysports airspeed indicators are lightweight, reliable, and are housed in short length aluminum cases. They give accurate indications at slow speeds and are available in a variety of ranges. These airspeed indicators are excellent for a wide range of experimental and ultralight aircraft. Non-TSO'd. Size: 3 1/8" Length: 3.5in/97.3mm Weight: 10.2oz/290g

| Model No. | Length | Range | Part No. | Price |
|-----------|--------|------------|----------|----------|
| BK-33 | 97.3mm | 20-180 MPH | 10-05394 | \$278.95 |
| BK-9C | 58mm | 20-180 MPH | 10-05409 | \$274.95 |
| BK-7B | 58mm | 20-120 MPH | 10-05406 | \$274.95 |
| BK-31 | 97.3mm | 20-140 MPH | 10-05392 | \$321.00 |
| BK-6C | 58mm | 20-150 MPH | 10-05405 | \$310.00 |
| BK-12 | 58mm | 20-80 KNT | 10-05381 | \$310.00 |
| BK-13A | 58mm | 20-100 KNT | 10-05384 | \$310.00 |
| BK-14A | 58mm | 0-120 KNT | 10-05386 | \$278.95 |
| BK-3A | 97.3mm | 20-140 KNT | 10-05399 | \$312.00 |
| BK-15 | 97.3mm | 0-160 KNY | 10-05387 | \$280.95 |
| BK-34 | 97.3mm | 30-180 KNT | 10-05395 | \$324.00 |
| BK-5A | 97.3mm | 30-220 KNT | 10-05404 | \$322.00 |
| BK120-1B | 58mm | 30-150 KPH | 10-05383 | \$327.00 |
| BK150-1A | 58mm | 30-150 KPH | 10-05388 | \$278.95 |
| BK200-1A | 58mm | 0-200 KPH | 10-05389 | \$278.95 |
| BK300 | 58mm | 40-300 KPH | 10-05391 | \$322.00 |



HALL WINDMETER

Designed for hang gliders but can be mounted on low speed aircraft as an airspeed indicator. Easy to read. Mounting bracket clamps to 7/8 or 1 1/8" dia. tube. Short bracket is 3" long, Long bracket 15" long.

Wind Meter (0-55 mph) P/N 10-04100 \$18.85
Wind Meter (0-80 mph) P/N 10-04105 \$18.85
Short Bracket P/N 10-04200 \$5.95
Long Bracket P/N 10-04300 \$6.75

WINTER MINIATURE ALTIMETERS



The mini altimeter is a remarkable instrument. Through the use of an accurate single pointer design, the 0-5,000 and 0-10,000 altimeters are able to squeeze precision and reliability into a 2-1/4" instrument which is less than 2" deep. All altimeters are designed with Kollsman windows, glass faces, precision jewelled movements and a rugged combination metal and plastic case. Static porting is standard. 0-5000 ft. Altimeter, Millibar
P/N 10-24105 \$587.00



FALCON VERTICAL SPEED INDICATORS



Falcon Gauge Vertical Speed Indicators (Rate of Climb), have been installed in thousands of planes. Available in climb ranges from 2,000 feet per minute to 3,000 feet per minute, and 10 meters per second. This precision aircraft instrument provides immediate climb and descent information with an easy to read dial and is extremely reliable and durable. Over several decades, they have been servicing and satisfying pilots

and kit plane builders worldwide.

The 2-1/4" altimeter is perfect for the ultra-light models and where space and weight are a factor of consideration.

| Part No. | Size | Range | Length | Weight | Price |
|----------|--------|-----------------|-------------|---------|----------|
| 10-05352 | 3 1/8" | 2,000 ft/min | 4.25"/105mm | 12.7 oz | \$259.95 |
| 10-02246 | 3 1/8" | 10 meter/second | 4.25"/105mm | 12.7 oz | \$259.95 |

UNHEATED PITOT TUBES



STRAIGHT TYPE - Flange-mounted through leading edge of spar. Aluminum tube 24" long, 1/4" dia. May be cut to shorten.

P/N 15133..... \$22.50



L-SHAPED TYPE - Flange mounted L-shaped model for under-the-wing mounting. 1/4" dia. aluminum tube.

P/N 15135..... \$31.75



L-SHAPED PITOT-STATIC TUBE - Same design with static tube added. For pitot tube cover order #15220 or 10-02100 (flip up).

P/N 15144..... \$37.80



STRAIGHT TYPE PITOT-STATIC TUBE Clamp-mounted for leading edge of wing. 14-1/2" long. May be shortened, formed or shaped to best angle of attack. 1/4" dia. aluminum tubes. All installation hardware furnished.

P/N 10-01800 \$29.70



STRUT TYPE PITOT-STATIC TUBE - Simple L-shaped design for clamping to strut. 1/4" dia. aluminum tubes.

P/N 10-01900 \$35.50

RITE ANGLE BASIC SYSTEM AOA



The RiteAngle Basic, is a high quality AOA system for aircraft without flaps. This is the most accurate low cost AOA system available to customers today.

Note: The Basic system is for aircraft without flaps only. The RiteAngle™ Basic uses electronics not available during earlier designs of RiteAngle™ systems. Although operationally similar to prior RiteAngle products, the RiteAngle Basic is a totally new, more efficient, economical design. It is a modern up to date system, that accurately determines your aircraft's angle of attack. This series uses our proven, easy-to-understand, five LED display. Green indicates Safe, Amber indicates Caution, and Red indicates Danger. The "On Speed" AOA, 1.3 Vso will be correct, regardless of bank angle, density altitude, or any of the other variables where the airspeed might be inaccurate. P/N 11-10388..... \$395.00

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UMA 2-1/4" SINGLE EGT GAUGES

These highly reliable and lightweight gauges are self-contained, requiring no external power source. Specify probe size and type. Standard markings are black and white.

2-1/4" EGT Gauge

| | | |
|-----------------------------|--------------|----------|
| 700-1700°F- 90° Sweep..... | P/N 10-22275 | \$169.75 |
| 700-1700°F- 270° Sweep..... | P/N 10-02427 | \$170.75 |

Type K EGT Probes

| | | |
|---|--------------|---------|
| 1-5/8" - 2-1/2" Clamp..... | P/N 10-04791 | \$93.75 |
| 1-2" Clamp..... | P/N 10-00966 | \$93.75 |
| 8mm, Bayonet-Rotax..... | P/N 10-00967 | \$93.75 |
| Optional internal lighting for all UMA 2-1/4", 3-1/8" instruments (except altimeter)..... | P/N 11-07239 | \$56.75 |

AIRPATH COMPASSES



Factory-new Airpath compasses as used in almost all production aircraft. 2.25" size.

| Model | Mounting | Lighting | Part No. | Price |
|----------|----------|----------|----------|----------|
| C2300 | Panel | None | 10-01340 | \$166.80 |
| C2300-L4 | Panel | 12V Red | 10-01341 | \$194.85 |



FALCON AIRCRAFT COMPASSES

These compasses are very similar to the Airpath C2300 & C2400 style compasses above but are priced more economically. New manufacture. Not certified. Northern Hemisphere

| Size | Model | Description | Part No. | Price |
|--------|---------|----------------------|----------|----------|
| 2-1/4" | MCPN-2 | Panel Mount | 10-02067 | \$108.95 |
| 2-1/4" | MCPN-2L | Panel Mount, Lighted | 10-02069 | \$117.95 |



FALCON NON-TSO'D VERTICAL CARD COMPASSES

It is easy to read presentation and see the complete 360 degree dial in proper relation to your aircraft heading. 14V, lighting. 2-1/4"

| Model | Description | Part No. | Price |
|-------------|---|----------|----------|
| MCVC-2L-A | Improved for install on metal aircraft, 12-14V light | 10-04173 | \$329.00 |
| MCVC-2L-A-M | Improved for install on metal aircraft, 12-14V light with bracket | 10-04174 | \$294.95 |
| 30-V-0001 | Vertical Card Compass Universal Mounting Bracket | 10-04175 | \$31.50 |

PRECISION VERTICAL CARD COMPASS



The Precision Vertical Card Compass is a totally new concept for today's aircraft. It is a dry compass, designed to replace the float/liquid type compass; no more leaking fluid or backward azimuth readings. It uses eddy current damping and as such has no overshoot. It consists of a 2" vertical rotating dial which is compared with a fixed miniature airplane (lubber line) to present the magnetic heading of the aircraft at all times. Heading information is more natural because the heading is read at the 12 o'clock position and off the nose of the miniature aircraft. The compass card rotates and presents all quadrants in their true relation to line of flight. Requires no power (except for lighting) to operate. Fully TSO'd. Installed in many current production aircraft and helicopters. Size: 2-7/8"H x 2-3/8"W x 2-1/8"D. Wt. 0.6 lb. After installation, compass must be compensated using standard compensation procedures. Also used in sailplanes. **Bracket / mount is required for installation and is not included with unit.**

| | | |
|-------------------------------------|--------------|----------|
| 14V..... | P/N 10-00421 | \$345.00 |
| 28V..... | P/N 10-00423 | \$345.00 |
| Precision Aviation Gauge Mount..... | P/N 10-07500 | \$29.95 |
| Universal Overhead Bracket Kit..... | P/N 10-07600 | \$29.95 |

ROCHESTER OIL TEMPERATURE GAUGES



Rochester oil temperature gauges have matte-white dial with black bezel. Mount in 2-1/16" dia. hole. New manufacture. Furnished with one 5/8-18UNF X 5/8-18UNF adapter nut. Available in the following temperature ranges and capillary lengths.

| | | | |
|---------------------------------|------------------------------------|---------------|----------|
| P/N 10-11600..... | 100-250°F..... | 60" Cap..... | \$89.99 |
| P/N 10-11700..... | 100-250°F..... | 72" Cap..... | \$117.75 |
| P/N 10-11800..... | 00-250°F..... | 144" Cap..... | \$116.75 |
| P/N 10-11900..... | 100-250°F..... | 48" Cap..... | \$114.75 |
| Adapter Nuts Only: | 44-0024 5/8-18UNF x 5/8-18UNF..... | | \$11.95 |



2" VDO WATER TEMP GAUGE

2" VDO Water Temp Gauge Ranges from 100F to 250F. Fits 2-1/16" or 2-5/8" cutout. Requires 12 volts D/C to function.

P/N 10-01647 \$34.95



CHT
Scaled 0-600°F
2-1/4" CH131 P/N 10-01426 \$95.75
2" CH130..... P/N 10-01425 \$71.90



DUAL CHT
Scaled 0-600°F
2-1/4" CH141 P/N 10-01429 \$121.95
2" CH140..... P/N 10-01428 \$123.75



EGT
Scaled 800-1700° F
2-1/4" EG131 P/N 10-01464 \$92.75
2" EG130..... P/N 10-01463 \$71.90



DUAL EGT
2-1/4" EG141 P/N 10-01467 \$117.95
2" EG140..... P/N 10-02093 \$121.75



DUAL CHT/EGT
2-1/4" CE141..... P/N 10-01409 \$121.95
2" CE140..... P/N 10-01408 \$116.75

VDO GAUGES & PROBES



EXHAUST GAS TEMP.
2-1/4" P/N 10-01462 \$179.95
2" P/N 10-01461 \$167.85
250 -1650°F
With weld-on Boss type probe



OIL PRESSURE
2-1/4" P/N 10-01570 \$123.95
2" P/N 10-01567 \$109.95
Includes 1/8NPT sender



OIL TEMP.
2-1/4" P/N 10-01583 \$83.95
2" P/N 10-01579 \$73.50
Includes 1/8NPT probe



AMMETER - 12 VDC
2-1/4" P/N 10-02335 \$72.75
2" P/N 10-02334 \$59.95
No shunt required



VOLTMETER-12 VDC
2-1/4" P/N 10-01638 \$66.50
2" P/N 10-01637 \$53.75
With color arc

VDO GAUGES & PROBES



FUEL LEVEL-10-180 OHM
2-1/4" P/N 10-01485 \$51.75
2" P/N 10-00825 \$38.50
Order only P/N 10-04788 probes
for this instrument.



WATER TEMP.
2-1/4" P/N 10-01646 \$49.95
2" P/N 15-07657 \$62.50



HOURLY METER-12VDC
2-1/4" P/N 10-01505 \$66.50
2" P/N 10-01504 \$53.80
With minute hand



FLUID TEMPERATURE GAUGE
2" P/N VDO180902D \$72.85
Includes 96" capillary tubing and
adapter kit.



VDO PROBES
VDO Float Probes - 240 ohms.. P/N 10-00826 \$67.75
Fuel Probe Mounting Ring..... P/N 10-01502 \$39.50
VDO Temperature Probes - 1/8NPT
Water Probe 1/8" NPT P/N 10-01648 \$14.70
Oil Probe 1/8" NPT P/N 10-01580 \$21.50
VDO CHT Probe - Type "J"
14mm ring type..... P/N 10-01439 \$38.50
VDO EGT Probe - Type "K"
Weld-on Boss P/N 10-01461 \$167.85
Oil Pressure Sender 1/8" NPT .. P/N 10-01568..... \$55.75

IN

STANDARD MICROFLIGHT ENGINE GAUGES

Standard gauges are a low cost solution for monitoring engine performance. The gauges on this and part of the next page are light-weight, inexpensive alternatives. These gauges are not temperature compensated; changes in ambient temperature will affect their readings. Unlike our MICRO-1000 gauges, they do require shock mounting. All gauges come with a 1-year warranty which covers any malfunction. Prices include probes with 4-ft. leads. Gauges leads may be extended with 18-gauge wire. "C" at end of P/N indicates temperature scale in degrees celsius.



CYLINDER HEAD TEMP.
2-1/4", 0-700°F... P/N CH004..... \$59.95
2-1/4", 0-350°C... P/N CH004C... \$96.75
Includes probe



EXHAUST GAS TEMP.
2-1/4", 600-1700°F
P/N EG004 \$77.75
2-1/4", 400-900°C
P/N EG004C \$85.00
Includes probe



DUAL CHT
2-1/4" P/N CH005 \$85.00
2-1/4" P/N CH005C \$113.95
Includes probe



DUAL EGT
2-1/4" P/N EG005 \$143.95
Includes probe



STANDARD MICROFLIGHT ENGINE GAUGES

Standard gauges are a low cost solution for monitoring engine performance. The gauges on this and part of the next page are light-weight, inexpensive alternatives. These gauges are not temperature compensated; changes in ambient temperature will affect their readings. Unlike our MICRO-1000 gauges, they do require shock mounting. All gauges come with a 1-year warranty which covers any malfunction. Prices include probes with 4-ft. leads. Gauges leads may be extended with 18-gauge wire. "C" at end of P/N indicates temperature scale in degrees celsius.



0-8000 RPM TACHOMETER

3-1/8" for 2-cycle engines for single Ignition Ducatti Ignition.

P/N TA023..... \$98.75

For lighting coil operation
No power required.



0-8000 RPM TACHOMETER

2-1/4" for 2-Stroke Engines
Single Ignition (all) ..P/N TA006 ..\$80.75
Ducati IgnitionP/N TA021 ..\$77.75

For lighting coil operation
No power required.



CHT/EGT COMBINATION

2-1/4"P/N CE003 \$147.95
2-1/4"P/N CE003C..... \$129.95

Includes probe



CHT PROBE

"J" type sending unit with 4-ft. lead.
14 mmP/N CP001 \$28.50
10 mmP/N CP002 \$17.50

IN



CYLINDER HEAD TEMP.

2", 0-700°FP/N CH001\$56.85
2", 0-350°C.....P/N CH001C.....\$56.85

Includes probe



EXHAUST GAS TEMP.

2", 600-1700°F.. P/N EG001..... \$68.75
2", 400-900°C...P/N EG001C. \$108.95

700-1700°F
Includes probe



CHT/EGT COMBINATION

2"P/N CE001 \$119.95
2"P/N CE001C..... \$119.95

Includes probes



EGT PROBE

"K" type sending unit with 4-ft. lead.
P/N EP001..... \$33.50
8 mm threaded EGT Probe (for new
2-stroke Rotax)... P/N EP002.... \$36.65



DUAL CHT

2"P/N CH002 \$105.95
2"P/N CH002C \$105.95

Includes probes



DUAL EGT

2"P/N EG002 \$137.95
2"P/N EG002C \$137.95

Includes probes



DUAL TACH/EGT

2" round gauge
Tachometer - Universal for single or
dual ignition.
EGT range: 700-1700°F
EGT probe (clamp type).
P/N ET002R..... \$122.75



0-8000 RPM TACHOMETER

2" for 2-Stroke Engines Single Ignition
(all)P/N TA001..... \$73.80
Ducati Ignition
P/N TA020..... \$71.75

For lighting coil operation



ROTAX 912 2-1/4" CHT GAUGE FARENHEIT

Rotax 912 CHT Temp – F. For use with VDO sensor only. Red: 270-300. Yellow: 100-150, 220-270. Green: 130-220 Diameter: 57mm (2.25 in.). Motor: 912S. P/N 15-06646..... \$116.85



ROTAX 912UL 2-1/4" CHT GAUGE

IM-549 - Water Temperature Indicator (CHT) Rotax 912 engine (80HP) and 914.57 mm - Scale in °F. Designed specifically for Rotax 912 (80HP) and 914 with silkscreen red areas green and yellow. Diameter 57mm, 100-300° F range, distance between 2° F indications in central area. Supply voltage 8-35V DC. It works with sensors that come from the factory with Rotax engines. P/N 15-08392..... \$120.75



ROTAX 912 2-1/4" EGT GAUGE FARENHEIT

A540 Rotax 912 EGT Temp – F. For use with Aviasport Sender only. Red: 1500-2000. Yellow: 600-1100. Green: 1100-1450. Diameter: 57mm (2.25 in) P/N 15-05922..... \$182.75

OTHER ROTAX EGT GAUGES

| | | |
|---|-------------------|----------|
| IM-774 2" EGT 300-1000 C Rotax 914..... | P/N 15-08550..... | \$109.99 |
| IM-775 2-1/4 EGT 300-1000 C Rotax 914..... | P/N 15-08551..... | \$119.75 |
| IM-776 2 Dual EGT 300-1000 C Rotax 912..... | P/N 15-08552..... | \$118.75 |
| IM-777 2-1/4 Dual EGT 300-1000 C Rotax 912..... | P/N 15-08553..... | \$121.75 |
| IM-778 2 Dual EGT 300-1000 C Rotax 914..... | P/N 15-08554..... | \$118.75 |
| IM-779 2-1/4 Dual EGT 300-1000 C Rotax 914..... | P/N 15-08555..... | \$121.75 |
| IM-780 2 EGT 600-1800 F Rotax 912..... | P/N 15-08556..... | \$112.95 |
| IM-781 2-1/4 EGT 600-1800 F Rotax 912..... | P/N 15-08557..... | \$123.80 |
| IM-782 2 1/4 Dual EGT 500-1300 F Rotax 503..... | P/N 15-08558..... | \$129.99 |
| IM-783 2.25 Dual EGT 500-1300 F Rotax 582..... | P/N 15-08559..... | \$129.95 |



ROTAX 912 2-1/4" OIL PRESSURE GAUGE PSI

A572 Rotax 912 Oil Pressure – PSI. For VDO Sender only. Red: 0-12, 90-150 psi. Yellow: 75-90 psi. Green: 30-75 psi. Diameter: 57mm (2.25 in) P/N 15-05924..... \$116.85



ROTAX 912/914 OIL PRESSURE GAUGE

• 2 Oil Pressure • Ideal for use on Rotax 912/914 • Ranges from 0-80psi • Includes 1/8 male NPT sender • Fits 2 1/16 cutout • Completely electrical • Requires 12 volts D/C..... P/N 15-06319..... \$122.75



ROTAX 912 2-1/4" OIL TEMPERATURE GAUGE FARENHEIT

A558 Rotax 912 Oil Temp. For use with VDO Sender only. Red: 90-120, 280-320. Yellow: 120-190, 230-270. Green: 190-230. Note: Not for 912S and 914 engines. See "Alternate Items" part number 15-08399. Diameter: 57mm (2.25 in.) Motor: 912S/914..... P/N 15-05926..... \$116.85



ROTAX 912 2-1/4" TACHOMETER

A105 Rotax 912 Tachometer. 0-7000 rpm. Electronic Connection only. Red: 0-1200, 5800-7000. Yellow: 1200-1800, 5500-5800. Green: 1800-5500. P/N 15-05932..... \$145.85



ROTAX 912 3-1/8" TACHOMETER

A149 Rotax 912 Tachometer - 3-1/8". 0-7000 range. Electronic connection only. Red: 0-1200, 5800-7000. Yellow: 1200-1800, 5500-5800. Green: 1800-5500. P/N 15-05930..... \$155.75



ROTAX 912 2-1/4" VOLTMETER

A562 Rotax 912 Voltmeter. Red: 8-10, 14-16 volts. Yellow: 10-11, 13-14 volts. Green: 11-13 volts. P/N 15-06650..... \$115.75



ROTAX 912 2-1/4" FUEL PRESSURE GAUGE BAR

A564 ROTAX 912 Fuel Pressure Bar. Requires Sender below. Red: 0-1.5, 4-6 bar. Green: 1.5 – 4.0 bar. Diameter: 57mm (2.25 in.). Sensor: 7 PSI. P/N 15-06647..... \$127.75



FUEL PRESSURE SENDER - 1/8 NPT

A603 Aviasport Fuel Pressure Sender. 1/8" NPT threads. P/N 15-06648..... \$185.95



ROTAX 912 EGT 4 READING KIT

The IM-553 instruments have been designed especially to measure the EGT in Rotax® engines 912. Includes the IM-580 EGT Connection Box. 300-1000°C P/N 15-08617..... \$184.99



ROTAX 912UL 912 ULS 2-1/4" EGT KIT

The IM-540 instruments have been designed especially to measure the EGT in Rotax® engines 912. Includes the IM-580 EGT Connection Box. 800-1800°F P/N 15-08620..... \$181.75



ROTAX 912 2" INCH FUEL PRESSURE KIT

The IM-584 have been designed especially to measure the FUEL Pressure in Rotax® engines 912 (Series). Includes the IM-604 Sensor. The display areas are divided into red, green and yellow zones in line with Rotax limits. 0-6 Bar. P/N 15-08624..... \$298.95



ROTAX 912 2-1/4" INCH FUEL PRESSURE KIT

Unlike mechanical instruments fuel pressure, electronic instruments use a high precision sensor to be installed close to the engine, avoiding cabin carry fuel lines. Includes the IM-604 Sensor. P/N 15-08629..... \$423.00



ROTAX 914 3 EGT 4 READING KIT

The IM-576 instruments have been designed especially to measure the EGT in Rotax® engines 914. Includes the IM-580 EGT Connection Box. The instruments use a pointer that turns 240°, which gives them great resolution. Their display areas are divided into red, green and yellow zones in line with the ROTAX limits. 600-1800 °F. P/N 15-08623..... \$184.95

AVIASPORT ROTAX EGT TYPE K SENSORS



Probe for the measurement of the temperature of exhaust (EGT) for all ROTAX engines. It has a thread metric 8 and it can be installed directly on the M8 nuts that come from manufacturers some 912 and 914 engines. On the outlets that do not have these nuts, it is necessary to weld a nut M8. Stainless steel jacket. 6 ft P/N 15-09438..... \$56.75
9 ft P/N 15-09439..... \$63.75



AVIASPORT ROTAX EGT TYPE K SENSOR WITH CLAMP

Probe type clamp "K". Designed for engines ROTAX 447/503/582, you don't need welding. Simply drill the holes and tighten the clamp. Protected with stainless steel mesh. 2 meters cable length. P/N 15-09440..... \$55.65

IN



AVMAP ENGIBOX FOR ROTAX

The EMS for ROTAX engines

With an update rate of five times per second, Engibox measures and displays the engine parameters to warn you instantly if any measurement exceeds the engine limits.

Data are recorded and stored in the internal memory (up to 160 hours). Download the free Engibox mobile App to get Instant Support Service*.

EngiBOX is a light and compact engine monitor displaying

• Exhaust Gas Temperature (EGT) • Revolutions per Minute (RPM) • Manifold Pressure (MAP) • Oil Pressure • Oil Temperature / Air Temperature • Cylinder Head Temperature (CHT) / Coolant Temperature (CT)

Without Probe P/N 11-13657 **\$749.00**
With Probe P/N 11-16537 **\$1,100.00**

Accessories:

EGT Probe (1) P/N 11-16544 **\$68.75**
Set of 4 Probes P/N 11-16545 **\$231.95**
EGT Ext. Cable (6.5) P/N 11-16546 **\$33.75**



SKYSPORTS CAPACITIVE FUEL SYSTEMS

The Skysports fuel monitoring system is a capacitance system which has no float and no moving parts except the needle on the gauge. Used in hundreds of various ultralight, homebuilt, and military aircraft, these fuel systems have been very popular due to their accuracy and durability. The Skysports fuel probe electronically measures the level of fuel in the tank, and sends the signal through the wire harness to the gauge. Available for single or dual tank use and for 12 or 24 volt operation. The system includes the gauge, probe, 8 ft. wire harness, mounting hardware, & instructions. The SkySports 240-33ohm fuel systems are no longer available. They have been replaced with a new 0-5V system. These new systems, (listed below) can be used on both 12 or 24 volt aircraft. The older 240-33ohm gauge and probes are not interchangeable with the new 0-5V gauge or probes. However the installation of the systems are the same.

Note: The Skysports 240-33ohm older style probes are only available as special order upon request.

IN

ROUND GAUGE SYSTEMS



SQUARE GAUGE SYSTEMS



INDIVIDUAL COMPONENTS



| Description | Part No | Price |
|-------------------------------------|----------|-----------------|
| 2" Round 6" Straight Probe | 10-04509 | \$270.66 |
| 2" Round 12" Straight Probe | 10-04495 | \$256.56 |
| 2" Round 24" Straight Probe | 10-04496 | \$196.46 |
| 2" Round 12" with 3" Bendable Probe | 10-04497 | \$279.46 |
| 2" Round 24" with 3" Bendable Probe | 10-04498 | \$280.46 |
| 2" Round 12" with 5" Bendable Probe | 10-04499 | \$185.46 |
| 2" Round 24" with 5" Bendable Probe | 10-04501 | \$255.46 |

| Description | Part No | Price |
|--|----------|-----------------|
| 2-1/4" Square 6" Straight Probe | 10-04511 | \$283.66 |
| 2-1/4" Square 12" Straight Probe | 10-04502 | \$269.56 |
| 2-1/4" Square 24" Straight Probe | 10-04503 | \$209.46 |
| 2-1/4" Square 12" with 3" Bendable Probe | 10-04504 | \$292.46 |
| 2-1/4" Square 24" with 3" Bendable Probe | 10-04505 | \$293.46 |
| 2-1/4" Square 12" with 5" Bendable Probe | 10-04506 | \$198.46 |
| 2-1/4" Square 24" with 5" Bendable Probe | 10-04507 | \$268.46 |

| Description | Part No | Price |
|------------------------|----------|-----------------|
| 2" Gauge Only | 10-04119 | \$76.95 |
| 2-1/4" Gauge Only | 10-01246 | \$89.95 |
| 12" Straight Probe | 10-03758 | \$149.85 |
| 6" Straight Probe | 10-03753 | \$163.95 |
| 24" Straight Probe | 10-03773 | \$89.75 |
| 12" with 3" bend probe | 10-03746 | \$172.75 |
| 24" with 3" bend probe | 10-03774 | \$173.75 |
| 12" with 5" bend probe | 10-03761 | \$78.75 |
| 24" with 5" bend probe | 10-03776 | \$148.75 |
| Installation Kit | 10-03731 | \$29.75 |

MGL CAPACITANCE FUEL LEVEL SENDERS

MGL Avionics Capacitance Probe is available in 12" or 24" long. The senders can be bent above the black mark on the probe (first several inches only), and they can be cut to length.

12 inch Sender P/N 11-14306 **\$69.50**
24 inch Sender P/N 11-14307 **\$65.00**



FUEL LEVEL SYSTEM BY DATCON

This Datcon fuel gauge and senders are designed for use with 12 volt electrical systems in automotive, marine and homebuilt aircraft applications. The gauges have a round 2" diameter case with chrome bezel. Mounting brackets and instructions are furnished. 240-33 Ohms. Gauge No. 100177 with steel case P/N 100177 **\$58.75**
Lighting Kit (12V) P/N 06215-00 **\$8.50**



UNIVERSAL SENDER FOR DATCON GAUGES

This Fuel Level Sender has removable mounting plate which can rotate 180° to mount on either right hand or left hand position. For tanks 6"-15" deep. P/N 05-16710 **\$51.95**



POWERSONIC BATTERIES



P/N 11-03153

Power Sonic sealed maintenance-free batteries allow safe, trouble-free operation in any position. You never need to add electrolyte; gases generated during over charge are recombined in a unique "oxygen cycle". Under normal operating conditions, 4 or 5 years of dependable service can be expected in standby applications, or between 200 and 1000 charge/discharge cycles, depending on depth of discharge. Temp. range: -76° to +140°F.

3-AMP BATTERY - Model: Powersonic PS-1230, PPS SKU: 35L116S1
Shipping Weight: 3 lbs, Dimensions: 5.23"L x 2.64"W x 2.36"H, Voltage: 12 Volts, Capacity: 3 Amp Hour(s), Chemistry: Lead.

P/N 11-03153 \$29.95

18-AMP BATTERY - Model: Powersonic PS-12180NB, PPS SKU: 35L105S3,
Shipping Weight: 14 lbs, Dimensions: 7.13"L x 2.99"W x 6.57"H, Voltage: 12 Volts, Capacity: 18 Amp Hour(s), Chemistry: Lead.

P/N 11-03154 \$73.75

26-AMP BATTERY - Model: Powersonic PS-12260NB, PPS SKU: 35L107S1,
Shipping Weight: 18 lbs, Dimensions: 6.56"L x 6.97"W x 4.92"H, Voltage: 12 Volts, Capacity: 26 Amp Hour(s), Chemistry: Lead

P/N 11-03155 \$102.75

AEROVOLTZ AI SERIES EXPERIMENTAL INTELLIGENT LITHIUM BATTERY



The Artificial Intelligence (AI) Series from Aerovoltz. The next-generation AI series of Intelligent Lithium batteries provide extended service life, less resistance, which means faster starts and quicker recharging if the battery is drawn down for any reason. The new case design has more robust DUAL terminals and is all-welded connections internally. Battery Management System (BMS)

All NEW Aerovoltz Intelligent Lithium Batteries contain a BMS system. A battery management system is an electronic management system inside the battery that manages the charging of the Battery by protecting it from overcharging, balancing the cells during the charging process and make sure the battery operates in a safe environment.

The **AVAI-270** is designed for your two-cycle applications or back up battery for avionics..... P/N 11-17465 \$178.56

The **AVAI-360** is designed to be strong enough for all two-cycle applications and for some of your smaller four strokes like the Rotax 912-914 and Jabiru series 4 cylinder engines..... P/N 11-17466 \$229.99

The **AVAI-480** is designed to be strong enough for all two-cycle applications and for some of your smaller four strokes like the Rotax 912-914 and Jabiru series 4 cylinder and 6 cylinder engines, and 4 cylinder Lycoming and 4 cylinder Continentals..... P/N 11-17467 \$299.99

AEROVOLTZ BALANCE CHARGER KIT



The only charger on the market designed specifically to work with the Aerovoltz battery. The primary advantage is the balance charging function. The Balance mode balances the voltage of each cell or cell pack while charging. By balance charging your you insure that the battery is operating at its maximum power. Periodic balance charging can also double the expected life of your battery. This charger is not required to operate your Battery, but it is highly recommended.

120V P/N 11-13081 \$114.85
240V P/N 11-13082 \$116.75

ANTIGRAVITY 16 CELL SMALL CASE BATTERY



480 Cranking Amps. It is the smallest 16-Cell lithium battery made at only 4.5" Length x 3.25" Depth and 5.25" height (to the top of the terminals) P/N 11-12104 \$260.99

ANTIGRAVITY 20 CELL OEM YTX12-20 BATTERY



600 Cranking Amp and extremely compact size 5.8" Length x 3.4" Depth and 5.12" height (to the top of battery).... P/N 11-12105 \$422.99

ODYSSEY DRYCELL BATTERIES



11-01651

11-02233



11-01945

Odyssey batteries, with an eight year design life saves you time and money because you do not have to replace your battery as often. It is also the ONLY battery that is capable of delivering a large number of deep cycles – up to 400 when fully discharged or up to 500 when discharged to 80%. Odyssey battery will maintain up to 50% state of charge after 2 years if stored at room temperature (77°F). At temperatures lower than 77°F, storage times will be even longer. The cranking power of Odyssey batteries is double to triple that of equally sized conventional batteries,

even when the temperature is as low as -40°F. 2 Year Warranty.

Note: MJ=Metal Jacket. See website for additional Specs.

| Part No. | Model | Dimensions | Weight | Price |
|----------|----------|----------------------------|----------|----------|
| 11-08080 | PC-625 | 6.7" x, 3.90" x 6.89" | 13.2 | \$140.99 |
| 11-08081 | PC-545 | 7/8" x 3-3/16" x 5-1/8" | 11.7 | \$112.99 |
| 11-08082 | PC-545MJ | 7.0" x 3-3/8" x 5-1/8" | 12.6 | \$127.99 |
| 11-02233 | PC-680 | 7.15" x 3.00" x 6.65" | 15.4 lbs | \$128.99 |
| 11-05173 | PC-925 | 6-15/32" X 6-7/8" X 4-7/8" | 24 lbs | \$187.99 |
| 11-17113 | PC-925L | 6.64" x 7.05" x 5.04" | 28 lbs | \$179.95 |
| 11-01651 | PC-925MJ | 6-9/16"x 6-7/8" x 5-11/16" | 24 lbs | \$200.99 |

METAL JACKET (TRAY)



For Odyssey 680Amp battery... P/N 11-02234 \$22.50

HOLD DOWN BRACKET FOR ODYSSEY 680AMP BATTERY



This hold down bracket for the Odyssey PC 680 battery can be easily mounted in any orientation. Color: Black
P/N 11-01853 \$38.75

YUASA BATTERY Y50-N18L-A-CX



The Yumicron CX generates more power, requires less maintenance, and lasts longer than any other conventional battery. Specifications: Battery Family: Yumicron CX, Battery Type: Y50-N18L-A-CX, Voltage: 12 Capacity: 20 Dimensions: 8.125" x 3.5625" x 6.4375" Weight: 11.2 lbs. Metric Dimensions: 205mm x 90mm x 162mm Metric Weight: 5.1 kg, Acid Volume: 47.3 oz., Amps: 2 Electrolyte needed: 47.3 oz. P/N 11-09496 \$109.75

YUASA BATTERY YB12C-A



YB12C-A YUASA Battery ships dry acid required. 12V, 5"d x 18"w x 14"h. Weight is 5.0 lbs.
P/N 11-07542 \$59.95

BATTERY TERMINAL TOOL



This unique tool is designed to provide positive tightening of battery terminals on all popular brands of lead/acid aircraft batteries without over-torquing and without the danger of an electrical short. The tool is made from steel for rugged service and is fully insulated with a rubber hand grip for protection against electrical shorts. P/N 12-16200 \$21.95

BATTERY CORROSION GUARD



Battery Corrosion Guard forms a thin protective coating that will neutralize battery acid on all treated areas. It is an excellent way to clean the battery, hold down straps, and all metal parts you want to protect including cables, clamps, box, and posts. Excellent for aluminum battery boxes. Widely used in the aircraft, truck, and boat industries.

3 oz. can..... P/N 11-00310 \$16.65
8 oz. can..... P/N 11-00320 \$24.75
11 oz. can..... P/N 11-09615 \$31.50

PULSETECH POWERPULSE



PowerPulse is not a charger. It's a performance device designed to help batteries charge faster and provide maximum performance and power. Used extensively by the consumers and the U.S. Military worldwide for almost ten years. The PowerPulse system can also be used together with an existing charging system. In fact, it will work even faster and stronger. This means batteries can be both charged and desulfated at the same time.

12V P/N 11-07464 \$46.75
24V P/N 11-10461 \$49.95

MICROBURST SERIES LIGHTING FROM WHELEN

LED Wingtip and Tail Lighting for Experimental and Light Sport Aircraft.
MB3 (Red or Green) .21 lbs., .45 amp (avg). Forward facing Wingtip Nav, with CometFlash 180° LED-Strobe and rear facing white Nav.
MB2 (Red or Green) .20 lbs., .40 amp (avg). Forward facing Wingtip Nav with MB2G Green CometFlash 180° LED-Strobe.
MB1WT White, .15 lbs., .35 amp (avg). Nav taillight with CometFlash 180° LED-Strobe. Utilizes same mounting as all (A500/A555 Style).



MICROBURST I TAIL LIGHT ASSEMBLY
LEDs are lightweight, low current and incredibly bright, vibration and moisture resistant... the ideal lighting technology for experience and LSA aircraft. MB1WT Single Taillight
P/N 11-08472..... **\$249.95**



MICROBURST III KIT MB3R & MB3G LIGHTING
LEDs are lightweight, low current and incredibly bright, vibration and moisture resistant... the ideal lighting technology for experimental and LSA aircraft. MicroBurst III Kit MB3K 1 MB3R (R) and 1 MB3G (G)
P/N 11-08473..... **\$449.00**



MICROBURST II KIT MB2R & MB2G LIGHTING
LEDs are lightweight, low current and incredibly bright, vibration and moisture resistant. the ideal lighting technology for experimental and LSA aircraft. MicroBurst II Kit MB2K 1 MB2R (R) and 1 MB2G (G).
P/N 11-08474..... **\$359.00**



MICROBURST II WITH TAIL LIGHT KIT (MB2G & MB1WT)
LEDs are lightweight, low current and incredibly bright, vibration and moisture resistant... the ideal lighting technology for experimental and LSA aircraft. MicroBurst II with Taillight Kit MB2KWT 1 MB2R (R) and 1 MB2G (G) plus 1 MB1WT Taillight.
P/N 11-08475..... **\$549.00**

UAVIONIX SKYSENSOR INTEGRATED WINGTIP ADS-B IN SYSTEM



The skySensor EXP is the ADS-B in companion to the skyBeacon ADS-B out solution. This experimental-only wingtip ADS-B in receiver provides an easy to install path for dual band ADS-B in. The skySensor replaces your existing aircraft position light and uses the existing mounting location, breaker, and wiring while integrating an LED Navigation and Anti-Collision strobe light. The Wi Fi signal generated allows you to view 978 MHz and 1090 MHz traffic within your existing mobile flight software. Experimental Aircraft Only.
P/N 11-16576..... **\$750.00**

UAVIONIX TAILBEACON NAV LIGHT ADS-B OUT



uAvionix tailBeacon is the latest all-in-one ADS-B solution from uAvionix. Remove your standard rear position light and replace with the tailBeacon for ADS-B compliance. It is a 2020 compliant, near zero-install, Class B1S ADS-B UAT transmitter and WAAS GPS integrated into a rear position light. The power transcoder decodes replies from legacy Mode C and Mode S transponders. Experimental Aircraft Only
P/N 11-16575..... **\$1,649.00**



AVEO POWERBURST DAYLIGHT SET

At only 26 millimeters in height (1.024 inch) the PowerBurst™ DayLite is a value wingtip 3-in-1 LED light – Navigation / Position / Strobe that does not sacrifice anything in performance or standards as other economy-priced lights. The exclusive and highly advanced optics and chrome reflector system, unmatched power and LED management circuitry, and Aveo's famous lowest-drag profile in the industry are all combined into a product that gives you unmatched POWER and FEATURES. Lower, narrower and shorter PLUS much lighter than industry lights in this category! For Experimental Use Only. Not approved for installation on certified aircraft. This is not a TSO certified light.

Features: • 3-in-1 Nav/Position/Strobe • Extremely lightweight • Unmatched circuit technology • Waterproof • Vibration-proof • Shock-proof • Dust-proof • Limited 3yr Warranty - Product must be registered within 30 days of purchase.
P/N 05-04877..... **\$459.00**



AVEO RED BARON MINI LED LIGHT

The RedBaron Mini™ is a cousin to the RedBaronXP™, the world's smallest and brightest total coverage LED anticollision light. The new RedBaron Mini™ resulted from requests by high-performance racing aircraft, super lightweight UAVs in the defense industry, and aircraft/helicopter manufacturers who wanted an upper and lower anti-collision light due to mounting area constraints. The answer came in this incredible new light, only 27 mm high and only 110 grams in weight. Exceeding all TSO intensity requirements and all DO-160F environmental requirements, the RedBaron Mini™ is now the world's smallest anti-collision light.

White P/N 11-10534..... **\$489.00**
Red P/N 11-15481..... **\$489.00**



AVEO POSISTROBE XP™ TAIL / RUDDER LED LIGHT

• 2-in-1 Position & Strobe light ideal for tail, rudder or rear facing mounts • Optics designed for FAA/CAO/EASA requirements • 9-32 volt input range • No external power supply or strobe unit, an Aveo world first • Light synchronization feature • Minimum drag profile • Unbreakable Diamidium™ encapsulation • Exclusive limited aircraft Lifetime Warranty • Unmatched circuit technology • Advanced computer and goniophotometer engineered optics.
Red P/N 11-08127..... **\$467.00**
White P/N 11-08134..... **\$467.00**



AIRCRAFT SEXTANT NAV SYSTEM WITH CONSTANT + FAST STROBE 40W

These bulbs are standard parts and have been designed to meet the requirements of TSO-C30c. Complete combination navigation and strobe lights for your aircraft. Emitter Types: Cree LED's. Turn on first: Constant lighting / Turn on second time <3s: Fast Strobe. Switch between modes in fog/cloud etc P/N 11-14934..... **\$547.00**



NAVSTROBE AIRCRAFT NAVIGATION SYSTEM

2 Modes: Constant & Fast Strobe.
Kit Includes: • 2ea. Wingtip combination navigation and strobe light (BA15sWcs-10w-A-1512) • 1ea. White tail-fin combination navigation and strobe light (BA15sWcs-10w-1156) • 2ea. Lens cover gaskets (Sextant A450) • 1ea. Dielectric grease pouch (Sextant 31880)
P/N 11-16470..... **\$166.80**



NAVSTROBE PAR 36 LED LANDING LIGHT

Aircraft PAR36 Landing Light, 220w, 109, 400 LM LEDs. These are non-TSO'd..... P/N 11-14745..... **\$209.95**



NAVSTROBE PAR 36 LED TAXI LIGHT

Aircraft PAR36 Taxi Light, 220w, 109, 400 LM LEDs. These are non-TSO'd..... P/N 11-14744..... **\$221.95**

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AEROLEDS AEROSUN LANDING LIGHT NON-TSO



The AeroSun™ is a wing-mounted LED (Light Emitting Diode) landing light with a built-in wig wag mode in addition to its standard operation as a landing/taxi light. The AeroSun™, constructed of extruded aluminum, is a very intense light source that uses 12 high power LEDs to produce up to 3960 lumens of light using just 36 Watts of power. The product is ideal for installations in aluminum aircraft or composite aircraft where some airflow within the wing cutout exists. Typical installations include aircraft such as RV8,9,10; Zenith, Kitfox and Sonex. NON-TSO. P/N 11-11359..... **\$325.00**

AEROLEDS MICROSUN LANDING LIGHT



The Microsun is a very intense light source that uses three high powered LED's to produce 1800+ lumens of light using 30 Watts of power. It is a small compact light that projects a lot of light and was designed for landing, taxi and recognition. The MicroSun can be installed in the leading edge, wingtip cutout, landing gear or in the cowl on an aircraft and has a built in "wig-wag" or "pulse" feature. Each MicroSun light uses less than half the power of an equivalent 55W halogen light while producing more usable light. The LED light sources last up to 50,000 hours of constant operation, so you will never have to replace this light once it has been installed. It will outlast both Halogen and HID lamps. NON-TSO..... P/N 11-07779..... **\$350.00**

AEROLEDS SUNRAY PLUS LANDING LIGHT



The SunRay Plus is a wing-mounted LED (Light Emitting Diode) landing light with a built-in wig wag feature in addition to its standard operation as a landing/taxi light. The SunRay Plus is a very intense light source that uses 4 high power LED's to produce up to 1,000+ lumens of light and 30,000 candela using 10 watts of power. Each SunRay Plus light uses less than half the power of an equivalent 55 watt halogen light while producing more usable light in a more narrow beam. The LED light source last up to 50,000 hours of constant operation, so you will never have to replace this light once it has been installed. It will outlast both Halogen and HID lamps. The SunRay Plus is protected against overheating with a built in protection circuit, is protected from lightning transients and ESD, voltage spikes, reverse voltage, and undervoltage conditions. NON-TSO.

Landing Light..... P/N 11-09348..... **\$295.00**
Mount Kit P/N 11-12037..... **\$35.00**

AEROLEDS AEROSUN VX LANDING LIGHT FOR RV



The Aerosun Vx is a high intensity wingtip landing/taxi/recognition light designed specifically for the Van's RV family of airplanes. Each unit draws 60 Watts of power and generates over 5000 lumens of light per wingtip. The lights include a built-in wig-wag controller for a synchronized recognition light mode. The Vx can be installed in any RV-6, RV-7, or RV-8 that has a set of W-715-1 fiberglass wingtip fairings with the 6" wide light cove. The Aerosun Vx can also be installed in the RV-9, RV-10, and RV-14 models but require using a conversion kit which is sold separately that enlarges the size of the light cove to accept the Vx. See Options. Non-TSO. P/N 11-12921..... **\$895.00**

AEROLEDS POLARIS LED NAV BULB FMA-PMA



AeroLEDs is proud to introduce Polaris, an FAA-PMA approved all-LED replacement for the legacy incandescent navigational lamps.

Note: 12v replaces the A7512-12, W1290-14, T7512-12, CMA7512-12, ML7512-12, UA-7512-12, M25309-7512.

24v replaces the W1290-28, T7512-24, CMA7512-24, A7512-24, ML7512-24, 972.72.54.508, MIL-L-6363/2, 6240-01-390-4921, 6240-01-143-8650, MS25309-7512, AN3122-1524, 1524, 040-0046, 753-478.

Specifications: • Voltage: 9-18VDC / 18-32VDC • Current: 0.46A @ 14VDC / 0.37A @ 28VDC • Power: 7 Watts / 10 Watts • Pulse/WigWag: N/A • Synchronization: N/A • Lumens: 500 lm • Nav Light: Exceeds TSO C-30C Type I & II • MTBF: >30,000 Hours • Length: 2.0" • Width: 1.3" • Depth: 1.1" • Weight: 1.1 oz • Heat Sink Material: Aluminum/Black Powder Coat • Lens Material: Clear LSR Mounting BAY15S Socket • Temperature Range: -55C to +70C

| Description | Part No. | Price |
|----------------------------|----------|-----------------|
| 12V - LED Nav Bulb FMA-PMA | 11-17571 | \$119.00 |
| 24V - LED Nav Bulb FMA-PMA | 11-17572 | \$119.00 |

AEROLEDS PULSAR NS STROBES



The Pulsar NS (Navigation and Anti-collision Strobe) lights are designed to be installed on the wingtip or in the wingtip cut outs of an aircraft. The SunTail (Anti-collision Strobe and Position) light for the tail of the aircraft is recommended with the Pulsar NS lights. The strobes on the SunTail and Pulsar NS lights will sync to strobe together. Non-TSO.

Experimental Versions:

| Description | Part No. | Price |
|------------------|----------|-----------------|
| 12V Pair | 11-15278 | \$895.00 |
| 12V (Left Only) | 11-15859 | \$447.50 |
| 12V (Right Only) | 11-15860 | \$447.50 |
| 24V Pair | 11-15279 | \$929.00 |
| 24V (Left Only) | 11-15862 | \$447.50 |
| 24V (Right Only) | 11-15863 | \$447.50 |

AEROLEDS PULSAR NSP STROBES



The experimental Pulsar NSP (Navigation/Anti-collision Strobe/Position) wingtip lights are designed to be installed on the wingtips of an aircraft where the navigation (red and green) and position (white) lights can be seen to determine the direction of the aircraft.

EXPERIMENTAL VERSIONS:

| Description | Part No. | Price |
|-----------------------|----------|-----------------|
| 12V (Left) Unit Only | 11-15864 | \$464.50 |
| 12V (Right) Unit Only | 11-15865 | \$464.50 |
| 12V Pair Unit Only | 11-15280 | \$929.00 |
| 24V (Left) Unit Only | 11-15866 | \$464.50 |
| 24V (Right) Unit Only | 11-15867 | \$464.50 |
| 24V Pair Unit Only | 11-15281 | \$929.00 |

AEROLEDS PULSAR STROBES



The Pulsar LED navigation and anticollision light assembly is designed with 4 forward navigation LEDs, 2 rear position LEDs, and 18 LEDs mounted beneath the anticollision lens.

| Description | Part No. | Price |
|-------------|--------------|-------------------|
| 12V | P/N 11-17138 | \$996.00 |
| 24V | P/N 11-17139 | \$1,422.00 |

AEROLEDS SUNTAIL WHITE POSITION STROBES



The experimental SunTail (Anti-collision Strobe and white Position) light has been designed for the tail of the aircraft. The SunTail is recommended with the Pulsar NS 180 (Navigation/ Anti-collision Strobe) lights. Available for 14V and 28V electrical systems. Non-TSO.

| Description | Part No. | Price |
|--------------------------|----------|-----------------|
| 12V - White Experimental | 11-15268 | \$395.00 |
| 24V - White Experimental | 11-15269 | \$395.00 |

AEROLEDS RV KITS



Four different kits from which to choose. All kits do not require power supply.

| Description | Part No. | Price |
|---|----------|-------------------|
| Included in RV Kit Option 1: Pulsar NS90 Pair (Nav/Strobe) for wingtip cut out SunTail (Position/Strobe) for the rudder | 11-09921 | \$1,245.00 |
| Included in RV Kit Option 2: Pulsar NS90 pair (Nav/Strobe) for wingtip cut out SunTail (Position/Strobe) for the rudder Two Aerosun (landing/taxi/recognition lights) | 11-09922 | \$1,895.00 |
| Included in RV Kit Option 3: Pulsar NS90 pair (Nav/Strobe) for wingtip cut out SunTail (Position/Strobe) for the rudder Two Sunray Plus (landing/recognition lights) for wingtips | 11-09923 | \$1,835.00 |
| Included in RV Kit Option 4: Pulsar Exp pair (Nav/Position/Strobe) for external wing-tips Two Aerosun (landing/taxi/recognition lights) | 11-09924 | \$1,400.00 |

ICOM A16 VHF COM AIR BAND TRANSCEIVER



The A16 is built tough and rugged like all Icom radios. It is the smallest radio with the loudest audio on the market, featuring 1500 mW of powerful clear audio. Packed with 6 watts of power for longer range, the A16 is also waterproof to IP67 standards. The A16 is the ideal flight companion for the student pilot, for ground crew with one hand operation on the flight line, or as a back up in your ditch bag. Its 2400mAh Li-ion battery lasts over 17 hours, and the radio includes a sit-in rapid charger.

Standard P/N 11-17236 **\$259.99**
with Bluetooth P/N 11-17237 **\$299.99**

ICOM A25C VHF AIR BAND COM RADIO



The A25C is a powerful air band handheld with 6 watts of power and an IP57 waterproof rating; weather cannot stop these radios. The handheld includes a large 2350mAh Li-ion battery, providing a long operating time. The easy-to-use interface and large 2.3-inch LCD display combine to provide stress-free programming and in-flight operation. Frequencies: TX (COM); 118.00-136.975MHz. RX (COM); 108.00-136.975MHz. RX (Weather); 161.650-163.275MHz Channel spacing: 8.33/25KHz. Channels: 200 (20CH x 10 banks). Battery life: 2350mAh Li-ion battery, up to 10.5 hours. Typical operation with Tx:Rx:Stand-by duty ratio = 5:5:90. Power save ON. Version: Communications only.

110V (Rechargeable Battery) ... P/N 11-15459 **\$449.99**
220V (Rechargeable Battery) ... P/N 11-15460 **\$449.99**
A25C Sport (AA Battery Pack) .. P/N 11-16533 **\$299.99**

ICOM A25N VHF AIR BAND NAV / COM / GPS RADIO WITH BLUETOOTH



The A25N is a powerful air band handheld with 6 watts of power and an IP57 waterproof rating; weather cannot stop these radios. The handheld includes a large 2350mAh Li-ion battery, providing a long operating time. The easy-to-use interface and large 2.3-inch LCD display combine to provide stress-free programming and in-flight operation. This handheld features built-in Bluetooth®, GPS and VOR navigation. Output power: 6W typ. (PEP), 1.8W (CW). Frequencies: TX (COM); 118.00-136.975MHz. RX (COM/NAV) ; 108.00-136.975MHz. RX (Weather) ; 161.650-163.275MHz. Channel spacing: 8.33/25KHz. Channels: 200 (20CH x 10 banks). Battery life: 2350mAh Li-ion battery, up to 10.5 hours. Typical operation with Tx:Rx:Stand-by duty ratio = 5:5:90. (Bluetooth OFF, GPS ON). Version: Communications

plus navigation. Large easy to use LCD. The A25's large 2.3-inch LCD provides user-friendly, graphic screens. The day mode allows pilots to view the screen in direct sunlight and the night mode makes it easy to read in the dark.

110V P/N 11-15461 **\$499.00**
220V P/N 11-15462 **\$499.99**
BP289 AA Battery Case P/N 11-16396 **\$45.50**
OPC2144 Right Angle Adapter P/N 11-16395 **\$27.65**
OPC2379 Headset Adapter for A25 P/N 11-17252 **\$69.95**

SKYCOM 200E - 2 PLACE PORTABLE INTERCOM



Portable & Compact • Pilot/Co-Pilot Volume Controls • Adjustable Squelch Circuit • Fail Safe Mode • Easy Battery Access • Powered by 9V Battery • 25-30 Hours Battery Life

SkyCom 200 2-Place Intercom
P/N 11-11860 **\$89.95**

SkyCom 200 4-Place Intercom
P/N 11-11865 **\$118.95**

SOFTCOMM PORTABLE INTERCOMS



These top quality, economical intercom systems are perfect for any type aircraft and are compatible with any standard headset. Features include automatic on/off power, panel controls for volume and gain and a pilot isolate switch (ATC-4 only). The intercoms are 9V DC portable or panel mountable with pilot and copilot transmit as a standard feature. These intercoms can be used with other equipment to record instructions or play cassette music. The new model of the ATC-2 has reduced size and weight, and a front-panel mounted PTT switch. The improved ATC-4 and ATC-6 also have a new dual transmit design. All units have aux power cord and stereo cable. With pilot isolate and push-to-talk switch. Model ATC-2T is a 2-place portable intercom designed for the student pilot. It has a recording feature that allows all CFI and ATC instruction to be recorded on a standard cassette player for future study. It is 9V battery powered and is compatible with all general aviation headsets and radios.

2-Place Portable (mono) ATC-2Y P/N 11-05818 **\$199.95**
4-Place Portable (stereo)ATC-4S P/N 11-05905 **\$292.95**

YAESU FTA 250L VHF HANDHELD RADIO



The Yaesu FTA-250L is an affordable, compact (COMM ONLY) Airband transceiver. Featuring an extremely rugged Polycarbonate housing with an IPX5 Waterproof rating for use in harsh environments with rain, splash and spray. Loud 700mW audio output guarantees that radio calls will not be missed even in noisy environments. 8.33kHz Narrow Band capable, with a huge programmable 250 channel capacity memory bank. The FTA-250L comes programmed with Yaesu's exclusive E20 Easy to Operate menu system making the radio a pleasure to operate without the use of a manual. The intuitive operating system is further complimented by the high resolution Dot Matrix display and the bright, fully Lit, sunlight viewable backlight. Value packaged with a High Capacity (1950mAh) Li-ion battery, Headset adapter, belt clip, 100-240VAC charger, 12VDC charger / power cable, with drop in charging cradle. The Yaesu FTA-250L is backed by an industry leading 3 year waterproof warranty. ... P/N 11-15413 **\$199.95**
FTA 250L Programming Cable P/N 11-16535 **\$24.50**

YAESU FTA 450L VHF HANDHELD RADIO



5W TX output. Large 1.7" x 1.7" Dot matrix Display. Back-lit Keypad and Display. 800 mW Audio Output. 200 Memory Channels. 8.33kHz Narrow Band compatible. IPX5 Waterproof rating. Includes High-Capacity 1800mAh Li-ion battery. Includes Alkaline battery tray (6 x AA). NOAA Weather Channels with WX alert. PC programmable..... P/N 11-14905 **\$236.95**

YAESU VERTEX FTA 550 VHF HANDHELD



The YAESU FTA-550 is packed with features, yet very affordable. Boasting an oversize full dot matrix LCD display, the FTA-550 Airband Transceiver provides full communication on the Aircraft communications Band and additionally provides VOR and ILS navigation features on the "NAV" band. The FTA-550 includes NOAA weather band monitoring and the capability of programming up to 200 memory channels with a quick and easy channel recall feature. The brand new easy to operate menu system is icon driven making it simple to navigate through all of the powerful features this transceiver has to offer. Additionally the FTA-550 can easily be reprogrammed in minutes using the optional PC Programming software and the supplied USB programming cable.

Features: • Easy to Operate Menu system • Huge Dot Matrix Display (160 x 160 dots) • VOR Navigation Display • 200 Memory channels with up to 15 Alphanumeric characters.

Specifications: • 25kHz & 8.33kHz spacing • 5 Watts TX Output Power (Airband: AM 5W P.E.P. type, 1.5W carrier) • Huge 1.7" x 1.7" Full Dot Matrix display (160 x 160 Dots) • ILS Navigation Display • NOAA Weather Channel receive* • NOAA Weather Alert* • 200 Memory Channels with 15 alphanumeric characters • Back-lit Keypad and display with dimmer • Water Protection -IPX5 Rating • Loud Audio (800 mW).

AA Battery Version P/N 11-12461 **\$198.95**
Li Ion Battery Version 110V P/N 11-12460 **\$298.00**
Li Ion Battery Version 220V P/N 11-12530 **\$294.95**

FLIGHTCOM IISX PORTABLE INTERCOM



The IISX is the world's most popular 2-place, portable intercom. The modular design offers expansion capability to the backseat if needed. • Expandable to 4-place portable with optional SR-4 expansion module • Auxiliary inputs and outputs for music or recording flight information • Low-battery indicator and pilot isolate • Uses aircraft power or 9-volt battery

Flightcom IISX 2 place includes: • IISX Intercom • Cigarette lighter adapter • Co-pilot transmit cable

Flightcom IISX 4 place includes: • All parts in the 2 place • SR-4 expansion module

Flightcom IISX 2 Place P/N 11-08700 **\$119.00**
Flightcom IISX 4 Place P/N 11-08710 **\$144.95**
SR-4 Remote Expansion module P/N 11-04260 **\$46.80**

FLIGHTCOM 403LSA INTERCOM



2-place stereo activated intercom enhances the fun of flying, as well as safety, by optimizing communication clarity. Features include 2-place capability, instant music muting, and pilot isolate so you can focus on your flight. Easy to use and designed to fit almost anywhere in the panel. Switches provided in installation kit allow individual headphone positions to select either stereo or mono mode. Weight: 5.0 oz. Size: 5 in. L X 2.4 in. W X 1.2 in. H Power Requirements: 0.16 amp, 12-28 VDC

403LSA P/N 11-07871 **\$189.00**

AV

SKYCOM & SKYPRO HEADSETS

SKYCOM I SERIES

Was first offered over 10 years ago and is designed around the traditional, oval-shaped headset design used for over 40 years in aviation. It features a steel headband, large headpad, and metal yoke/pivot system. Earseals mount around a protruded flange and are easily replaceable. The reversible boom mounts on the side of the cup and offers two styles on the models offered.

All models offer electrets N/C mics and a one year warranty. The ANR model offers over 15dB of additional cancellation using a detachable 9 volt battery module

| | | |
|---------------------------|--------------|----------|
| Skycom 40-A: 18 oz, 24 dB | P/N 11-09099 | \$89.95 |
| Skycom 80-A: 18 oz, 23 dB | P/N 11-09098 | \$239.00 |
| Skycom ANR: >15 dB ANR | P/N 11-02214 | \$129.95 |

REPLACEMENT EAR SEALS

These seals fit SKYCOM H-40A, SKYCOM ANR, and SKYPRO H-80A headsets.

| | | |
|--------------------------------|--------------|-------------|
| Replacement Gel Ear Seals ... | P/N 11-04680 | \$24.95/pr. |
| Replacement Foam Ear Seals ... | P/N 11-04681 | \$11.95/pr. |

HEADSET/INTERCOM PACKAGES

SKYCOM PACKAGE #1

• 2 Skycom H-40A Headsets • 1 Skycom 400 Intercom (portable) • Headset Bag • Push-To-Talk Switch P/N 11-11885 **\$533.00**

SKYPRO PACKAGE #2

• 2 Sky Pro Headsets • 1 Skycom 400 Intercom (portable) • Headset Bag • Push-To-Talk Switch P/N 11-11890 **\$524.00**

DAVID CLARK H10-13.4 HEADSET

Provides David Clark quality without the hot spots, clamping, or weight discomfort. Features a certified noise reduction rating of 23 dB and weighs only 13.4 oz. Drastically reduced headband force, new soft air-flow pillow headpad, fit-flo gel ear seals, M-7A noise cancelling electret mic, and low profile volume controls with detect settings. 5 yr warranty.

| | |
|--|----------|
| P/N H10-13.4 | \$336.42 |
| P/N H10-13.4S (stereo) | \$342.47 |
| P/N H10-13H (Helicopter, 5ft. coiled cord) | \$356.42 |

FLIGHTCOM DENALI D50ANR HEADSET

At less than 14oz, this headset is the lightest ANR model available. Denali's ComLeather™ ear seals help abate noise and offer a comfortable fit. The sleek ear domes stay securely in place, reducing side force. This ANR model also has SPS – a digital power management circuit. The SPS conserves battery life by shutting off the ANR circuit when not in use. Full passive performance is maintained when the ANR circuit is off. ANR model achieves additional 18-20dB at certain key low frequencies. P/N 11-10818 **\$359.00**

FLIGHTCOM DENALI D90ANR HEADSET

At less than 14oz, this headset is the lightest ANR model available. Denali's ComLeather™ ear seals help abate noise and offer a comfortable fit. Includes dual inputs that support cell phone and Aux connections for communication and entertainment. Automatic muting ensures that all incoming transmissions are instantly heard. Uses two always available AA-size batteries for up to 50 hours of continuous ANR use.

Also has SPS – a digital power management circuit. The SPS conserves battery life by shutting off the ANR circuit when not in use. Full passive performance is maintained when the ANR circuit is off. ANR model achieves additional 18-20dB at certain key low frequencies. P/N 11-10817 **\$449.00**

FLIGHTCOM 4DX CLASSIC

The 4DX Classic is an entry-level headset with classic Flightcom ruggedness. With an easy-to-position wire articulated boom and a ventilated foam rubber headpad and combined liquid and foam ear seals, the 4DX Classic is comfortable and affordable. Noise canceling electret microphone • Single-volume control • Stereo/mono switchable • NRR 24dB • Weighs 16.9 ounces • Mic muff and cloth ear seal covers included • Three-year warranty P/N 11-17110 **\$109.00**

COMTRONICS HEADSETS



MODEL-3100 HEADSET - Comtronics Model-3100 Headset has a 34 dB noise attenuation rating making it one of the quietest passive headsets on the market today. The electret noise-canceling Microphone has state-of-the-art voice quality and is compatible with all current Comtronics intercoms and radio interface cables. Headset cables can be terminated with a single plug or configured with two plugs for general aviation use. Ear muffs can be adjusted up or down. All Comtronics helmets and headsets are designed for high noise environments and open cockpit flying including ultralights, powered parachutes, auto-gyros and all sport planes. Weight: 1 lb. (Black) P/N 11-07425 **\$239.95**



MODEL-3000 HEADSET - The Model-3000 Headset offers 30 dB noise attenuation • They are light-weighted and have dark green muffs • Ear seals are fluid foam-filled cushions and very comfortable • Can be fitted with our PRO-COM Helmet. • Gel/Foam Ear Seals are optionally available • This headset can also be used for high noise environments • Weight: 1 lb. (Dark Green) P/N 11-09942 **\$210.75**



PRO-LITE SUPERIOR STEREO HEADSET - This headset uses either ultralight or general aviation audio and has a second pair of speakers for High Fidelity Stereo Music. Outstanding audio! • Music Speakers Frequency Response: 15 - 25000 Hz • 3.5 mm Stereo Music Jack on Ear Cup • Comes with Music Cord • Comfortable • Gel/Foam Ear Seals can be added for extra comfort and noise attenuation • NRR 33 - 45 dB • Can also be used with our PRO-COM Helmet • Weight: 1 lb. w/ Electret Mic (Blue) P/N 11-09943 **\$289.95**
Listening Only (Blue) P/N 11-07429 **\$189.95**



COM-AIR MODEL-5000 GENERAL AVIATION HEADSET • Similar to Model-3100 Headset • General Aviation Plugs and Audio • Can also be fitted with our PRO-COM Helmet • Also available is a General Aviation - to - Ultralight Adapter • Gel/Foam Ear Seals can be added • Weight: 1 lb. (Black) P/N 11-09944 **\$315.00**

BOSE A20® ANR HEADSETS - WITH BLUETOOTH



The A20 Aviation Headset is engineered to be more comfortable and provide more noise reduction than any headset we've ever made, while still delivering the clear audio you expect from Bose. And now there are more features than ever, including: a Bluetooth audio and communications interface; customizable audio prioritization control; intuitive "plug-and-play" operation; a high-performance microphone and an optional coil cord.

| | | |
|-----------------|--------------|------------|
| Dual GA Plugs | P/N 11-08724 | \$1,095.95 |
| Lemo 6-Pin Plug | P/N 11-08725 | \$1,095.95 |
| Helicopter Plug | P/N 11-08726 | \$1,095.95 |

ZULU 3



The most comfortable, most durable headset Lightspeed has ever made. Performance ear seals are tapered to provide a more natural fit, for greater comfort and stability. Plush ear seals provide 20% more surface area than competitors, for a better seal around glasses frames and a more comfortable distribution of side pressure. Larger cup cavity provides 50% more space for your ears, allowing the entire ear to fit comfortably inside

| | | |
|----------------------------|--------------|----------|
| Bluetooth Dual GA Plugs | P/N 11-14868 | \$850.00 |
| Bluetooth Lemo Plugs | P/N 11-14870 | \$850.00 |
| Bluetooth U-174 Heli Plugs | P/N 11-14871 | \$850.00 |



DAVID CLARK DC ONE-X HEADSET The DC ONE-X headset features the perfect combination of comfort, technology and durability. From the moment you put it on, you'll notice the difference. The feel of plush, leatherette ear seals that enclose your ears in comfort. The soft, Outlast® fabric, vented head pad that actually absorbs heat buildup to keep you cool during long flights. The advanced, Hybrid Electronic Noise Cancellation technology that delivers extraordinary ANR performance. The rugged, yet lightweight alloy suspension system with adjustable headband and swivel hinge stirrups to ensure a personalized fit.

| | | |
|----------------------------------|--------------|----------|
| OneX Dual Plug Battery Powered | P/N 11-14296 | \$895.00 |
| OneX 6 Pin Plug Aircraft Powered | P/N 11-14297 | \$895.00 |
| OneXH for Helicopters | P/N 11-14901 | \$875.00 |
| Leatherette Ear Seals | P/N 11-15265 | \$37.90 |

AV



COMTRONICS HELMETS



COMTRONICS ULTRA-PRO HF HELMET - The ULTRA-PRO HF Helmet is superb for open cockpit flying. This helmet is completely enclosed and comes standard with a clear full face shield. It offers super coverage and also protects the microphone from wind noise. It has a quick release button for the face shield, rear exhaust diffuser, adjustable top vent, ultra-plush interior, padded D-Ring straps, UV protective clear coated paint and is DOT approved. The helmet interior has a comfortable liner, built-in ear cups with a pair of 2-inch speakers to enhance

audio reception and built-in electret microphone. This helmet can be installed with either Ultralight or General Aviation audio. Noise canceling microphone. Available Sizes: Small, Medium, Large, XL and XXL. Color choices: White, Metallic Silver, Wine, Gloss Black and Flat Black. Sizes available: Small, Medium, Large, X-Large, and XX-Large specify color & size..... **\$479.00**

TO DETERMINE HAT SIZE, measure around your head just above the ears and eyebrows.

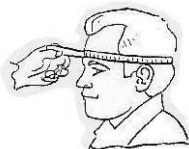
Take this dimension in inches and divide by 3.14. This will give your hat size.

EXAMPLE:

For a head measuring 23.5 inches - dividing 23.5 by 3.14 yields 7.48 - 7.48 equates to a 7-1/2 hat size.

See chart below to convert from hat size to helmet size.

| NOMINAL SIZE | HAT SIZE |
|--------------|------------------|
| SMALL | 6-5/8" to 6-7/8" |
| MEDIUM | 6-7/8" to 7-1/8" |
| LARGE | 7-1/8" to 7-3/8" |
| X-LARGE | 7-3/8" to 7-5/8" |
| XX-LARGE | 7-5/8" & UP |



COMTRONICS ULTRA-PRO FULL FACE - Comtronics Full Face fiberglass helmets are complimented by an Air Channel technology vent system, quick release shield system, padded chin bar, adjustable chin and top vents, rear exhaust vents, breath spoiler, padded D-ring retention system, UV clear protects paint and graphics, and DOT approved. The helmet interior has a comfortable liner, built-in ear cups with a pair of 2-inch speakers to enhance audio reception and built-in electret microphone. This Full Face Helmet does an excellent job of cutting out wind noise making it much easier to hear. These helmets can be fitted with either Ultralight or General Aviation audio installed. Noise canceling microphone. Color choices: White, Silver, Red, Wine, Gloss Black and Flat Black. Sizes available: Small, Medium, Large, X-Large, and XX-Large. See sizing chart above. **\$569.95**

COMTRONICS ACCESSORIES

| Description | Part No. | Price |
|--|----------|---------|
| Coiled Cord - Helmet/Headset Option | 11-07438 | \$57.95 |
| Gel/Foam Ear Seal Cushions | 11-07439 | \$47.95 |
| Face Shield - Clear | 11-07440 | \$49.75 |
| Face Shield - Smoke | 11-07441 | \$49.75 |
| Ultra Paq II - Heavy duty pack for the Ultra-Com II intercom | 11-07442 | \$44.95 |
| Dual Paq II - Heavy duty pack for the Dual-Com II intercom | 11-07443 | \$58.95 |
| Peak Visor | 11-07444 | \$8.60 |
| Windscreen - Foam / Dynamic | 11-07445 | \$11.95 |
| Windscreen - Foam / Electret | 11-07447 | \$12.75 |
| Windscreen - Leather / Electret | 11-07448 | \$11.95 |
| Dynamic adapter - Ultralight To Dual GA | 11-09433 | \$94.75 |
| Electret adapter - Ultralight To Dual GA | 11-08645 | \$92.50 |

COMTRONICS INTERFACE CABLE

Interface cables are designed to connect our helmets or intercoms to your transceiver. Different interface and custom cables available.

| Cable For: | Part No. | Price |
|------------------------|----------|----------|
| Icom A6/A24/A14 | 11-07450 | \$137.75 |
| Vertex VXA 220/300/710 | 11-02562 | \$17.75 |



COMTRONICS HELMETS COMTRONICS ULTRA-PRO STANDARD -

The ULTRA-PRO Standard Helmet also has a plush fully upholstered liner and beaded foam inner shell with the new ultra-soft chin pad design. A feature unique to the Comtronics ULTRA-PRO Standard Helmet, the flip-out ear muffs allow easy entry and ability to converse with a student or passenger while making pre-flight inspections. Muffs have an elastic band over the ear cup enabling the wearer to pull muffs more tightly against the ear. Helmet chin straps are available with "D" rings

or quick-disconnect snaps. They are compatible with all Comtronics intercoms and radio interface cables. Each helmet comes with a black peak visor. Available Sizes: Small, Medium, Large, XL and XXL. Color choices: White, Silver, Wine, Gloss Black and Red. Sizes available: Small, Medium, Large, X-Large, and XX-Large specify color & size..... **\$375.00**

MARK 4 SILVER CROSS GOGGLES



All leather face mask, colour matched head bands, Split lenses, bright polished and chrome plated frames, Sliding Nose Bridge Adjustment.

P/N 13-06000..... **\$99.85**

Replacement Lenses for Silver Cross Goggles

Clear, set of 2..... P/N 13-06100..... **\$34.80**
Smoke, Set of 2..... P/N 13-06200..... **\$39.75**

WORLD WAR II RAF FLYING GOGGLES



A faithful Replica incorporating dark brown soft leather face mask stitched to the RAF blue painted solid brass frames. The traditional Split Lenses

P/N 13-05860..... **\$89.95**

VINTAGE AVIATOR GOGGLES



Soft Brown or Black Leather face Mask, Hand Stitched to silver or black painted solid brass frames. Screw adjustment on nose bridge

P/N 13-06310..... **\$89.95**

LEATHER FLYING HELMETS



MODEL 711

GOATSKIN HELMET FOR DAVID CLARK HEADSETS

Note: Specify size by completing part no. with -S, -M, -L

Small (19"-20") Med.(21"-22") Large(23"-24")

Black (Small)..... P/N 11-10505-S..... **\$89.95**

Black (Medium)..... P/N 11-10505-M..... **\$89.95**

Black (Large)..... P/N 11-10505-L..... **\$89.95**

Black (X-Large)..... P/N 11-10505-1..... **\$89.95**

Brown (Small)..... P/N 11-10510-S..... **\$89.95**

Brown (Medium)..... P/N 11-10510-M..... **\$89.95**

Brown (Large)..... P/N 11-10510-L..... **\$89.95**

Brown (X-Large)..... P/N 11-10510-1..... **\$97.75**

LYNX PILOT SYSTEM LEATHER HELMET



A soft leather helmet with padded chamois lining for use with a Pilot System headset. The helmet is fitted over the headset and combines with it to form an integrated assembly. Hand made to resemble a second world war fighter helmet. and weighing only 270 grams, this helmet is ideal for use in classic open-cockpit aircraft.

Standard (55-59cm).... P/N 11-11196..... **\$383.00**

Large (5-63cm)..... P/N 11-05364..... **\$469.00**

AV



EXPERTS IN LIGHTSPORT AVIATION

SAME DAY SHIPMENT!
GUARANTEED LOWEST PRICES!
YOUR SOURCE FOR LSA SUPPLIES!



LYNX MICRO SYSTEM

The Micro System is a unique self contained intercom system which is plug and play compatible with any radio. This equipment is extremely popular for use in open cockpit aircraft and is the market leader for use in ultralight, powered parachutes, etc.

MICROSYSTEM COMPONENTS

| Part No. | System Equipment | Description | Price | Part No. | System Equipment | Description | Price |
|----------|-----------------------|--|-----------------|----------|------------------------------------|--|-----------------|
| 11-05346 | Micro System Headset | Self contained intercom headset.white* | \$683.00 | 11-05359 | Headset Exten. Lead | Used to extend the headset leads. | \$112.75 |
| 11-05350 | Micro System Helmet | EU certified protective helmet. S | \$299.95 | 11-05360 | Panel Exten. Lead | Extension lead with panel socket. | \$145.75 |
| 11-05351 | Micro System Helmet | EU certified protective helmet. M | \$299.00 | 11-05361 | Headset Panel Adap. | Converts lead socket into panel. | \$104.75 |
| 11-05352 | Micro System Helmet | EU certified protective helmet. L | \$298.95 | 11-05362 | Headset Lead Splitter | Used to connect several headsets together. | \$195.75 |
| 11-05353 | Micro System Helmet | EU certified protective helmet. XL | \$299.95 | 11-05363 | Headset Lead Comb. | Connects several interface units together. | \$195.00 |
| 11-05354 | Helmet Visor Standard | Attaches to the helmet with screw fixings. | \$109.75 | 11-05365 | Helmet Goggles | For use with either type of helmet. | \$136.75 |
| 11-09310 | High Visibility Visor | For use with Lynx helmets large | \$89.95 | 11-05366 | Double Helmet Bag | Large bag for complete systems. | \$175.00 |
| 11-11196 | High Visibility Visor | For use with Lynx helmets standard | \$469.00 | 11-07092 | Radio Splitter + Coiled Radio Lead | Connects in-line with a headset and provides connections for an additional device. | \$519.00 |
| 11-05364 | Leather Helmet | Soft leather helmet for headset large | \$469.00 | 11-07093 | Coiled Radio Leads | Connecting different radios to portable interface equipment. | \$44.50 |
| 11-05347 | Headset Coup. Adap. | Connects two headsets together. | \$58.75 | 11-07094 | Straight Radio Leads | Connecting different radios to portable interface equipment. | \$42.00 |
| 11-05348 | Headset Switch Adap. | Switch-on a single headset. | \$26.50 | 11-07095 | Car Charger | Charges two headsets at the same time. | \$119.75 |
| 11-05349 | Dual Charger | Wall charger headsets. | \$128.75 | 11-07096 | Audio Output Lead | Connecting professional recording equipment to the Micro System | \$36.50 |
| 11-05356 | Visor Extension | Wind deflector chin guard for visor. | \$52.75 | | | | |
| 11-05357 | Helmet Bag | Cloth bag for a helmet and visor. | \$15.75 | | | | |
| 11-05358 | Headset Bag | Cloth bag to protect a headset. | \$15.65 | | | | |

*See Website for other colors

MICROSYSTEM ACCESSORIES

| Part No. | Radio Equipment | Description | Price |
|----------|------------------------------|---|-----------------|
| 11-05368 | Twin Jack Adapter | Converts the headset to twin jack plugs. | \$229.95 |
| 11-05369 | Audio Adapter | Connects a Walkman or mobile telephone. | \$415.00 |
| 11-05370 | Radio Adapter * | Connects one headset to a radio. | \$493.00 |
| 11-05371 | Radio Interface unit * | Connects one or two headsets to a radio. | \$518.00 |
| 11-05378 | Radio/Power Interface unit * | Powers two headsets and a radio. For Type B connections only and these radios: ICOM A3, A22, A6, A24 and ICA5, A23 with the CT-44 adapter. Vertex Standard VXA-100, 120, 150, 200, 210 with the CT-44 adapter. All other radios will require special order. | \$478.00 |
| 11-05372 | Velcro Mount PTT Switch | Velcro fixing PTT Switch. | \$99.85 |
| 11-05373 | Screw Mount PTT Switch | Screw fixing PTT Switch. | \$59.95 |
| 11-05374 | PTT Extension Lead | Two Metre extension lead for PTT Switch. | \$73.75 |
| 11-05375 | PTT Connector and Lead | Special PTT connector with two metre lead. | \$33.00 |
| 11-05376 | Audio Input/Output Lead | Connects a Walkman to an Audio Adapter or Power Interface. | \$46.50 |
| 11-05377 | Mobile Telephone Lead * | Connects a mobile telephone to an Audio Adapter. | \$54.50 |
| 11-05379 | Power Supply Lead | Connects aircraft battery to Power Interface. | \$54.50 |
| 11-05380 | Power Supply Filter | Used to filter aircraft power supply. | \$135.75 |
| 11-05381 | Large Power Filter | Used with very noisy power supply. | \$65.75 |
| 11-05382 | Radio Power Filter | Used to prevent feed-back with Icom A2/A20 Radios. | \$105.00 |
| 11-05383 | Radio Power Adapter 11V13 | Used to connect Icom A6/A24 radios to a Power Interface. | \$133.75 |
| 11-05384 | VHF Antenna -Short Flexible | Antenna for use with airband radios. | \$128.95 |
| 11-05385 | VHF Antenna -1/4 Wave Whip | Antenna for use with airband radios. | \$119.85 |
| 11-05386 | Antenna Extension Lead | Five metre extension for antenna. | \$63.75 |
| 11-05387 | Adapter LA-25 | Used to connect Cobra FRS and GMRS radios. | \$86.00 |
| 11-05388 | Adapter LA-30 | Used to connect Yaesu VXA 100 radios. | \$86.00 |
| 11-05389 | Adapter LA-44 | Used to connect Yaesu VXA 100/120/150/200/210/220 radios. | \$86.00 |
| 11-05390 | Adapter CT-44 | Used to connect Icom A5/A6/A23/A24 radios. | \$46.50 |
| 11-05391 | Adapter CT-91 | Used to connect Vertex Standard radios. | \$46.50 |
| 11-05392 | Adapter CT-96 | Used to connect Yaesu VXA 300/700 radios. | \$46.50 |
| 11-05393 | Power Lead Adapters | Used to connect various radios to a Power Interface. | \$51.00 |

*Please specify the make and model that will be used with this product.

HELMET SIZES:

To obtain the correct size of helmet, use a tape measure to measure the circumference of your head just above the ears.

Small: 55-57cm / 22 Inches

Medium: 57-59cm / 23 Inches

Large: 59-61cm / 23.5 Inches

Extra Large: 61-63cm / 24.5 Inches

LYNX RELAI SYSTEM



The relai System is a range of headsets and helmets for direct connection to hand-portable radios. This equipment also provides the facility to use a helmet with the headset and is used mainly by pilots of single seat aircraft, Paramotor pilots and airport ground crew. Headset Colors: Black, White, Grey, Red, Pink, Blue, Yellow or Green *Please specify the make and model of radio that will be used with the Relai System Headset.

| Part No. | Description | Price |
|----------|---|-----------------|
| 11-05398 | Relai System Headset + Radio Module. | \$491.00 |
| 11-05400 | Lynx Avionics Relai System headsets to be used with the following radios: Alinco, Cobra, Delcom, Icom A2/A20/A21, JRC, Maxon, Motorola, Radio Shack, Yaesu FT-23R, YAESU 2000 | \$17.00 |
| 11-05401 | Lynx Avionics Relai System headsets to be used with the following radios: ICOM A3/A4/A6/A22/A24 ICOM A5/A23 | \$46.00 |
| 11-05402 | Allows Lynx Avionics Relai System headsets to be used with the following radios: ICOM A3/A4/A6/A22/A24/ ICOM A5/A23 | \$17.00 |

NOTE: Relai System uses the same helmet, helmet visor, visor extension, leather helmet, helmet goggles, helmet bag, headset bag, and double helmet bag as the Micro System. Order part numbers as shown for Micro System Components.

For additional information on these accessories, please go to our website.

LYNX ACCESSORIES

| Part No. | Spare Parts | Description | Price |
|----------|---|--|----------------|
| 11-05403 | Ear Seals Type 1 Foam (Two) | For use with all Lynx headsets | \$24.75 |
| 11-05404 | Ear Seals Type 2 Gel (Two) | For use with all Lynx headsets | \$44.65 |
| 11-05405 | Microphone Wind Shield Large (37mm Ø) | Used in an open cockpit. For use with all Lynx headsets. | \$13.50 |
| 11-05406 | Microphone Wind Shield - Small (25mm Ø) | Used in an enclosed cockpit. For use with all Lynx headsets. | \$10.50 |



TIE-DOWNS - CHOCKS - WINDSOCKS



FLY TIES TIE DOWNS

FlyTies Tie Downs Rated "Top Choice" by Aviation Consumer

FlyTies® unique design allows quick insertion and quick removal using the easy-out extraction tool provided. Rugged, die-cast steel rods are 3/8" x 14" for deeper penetration into harder ground. Cumulative load capacity is 3,600 lbs. Kit includes 3 eas. Delrin hubs, 9 eas. steel rods, 3 ea. 3/8" x 12' ropes, easy-out extraction tool, and rugged compact canvas tote bag. Complete kit weighs only 6 lbs. (less than 1 gal of Avgas) and has a lifetime warranty. P/N 13-22751 \$99.95



"THE CLAW" TIE-DOWN SYSTEM

Advanced Aircraft Anchoring System – The Claw® Aircraft Tiedown kit comes complete with three earth anchors, rope, spikes, hammer and canvas carry bag. The Harder You Pull, The More It Grips The Earth. Features: Easy installation...Easy removal. No more

struggling with screw-in anchors The "Claw®" is designed exclusively for aircraft. The "Claw®" system has a 3600 lb. combined capacity. The last tie down you will ever have to buy - Lifetime Warranty, Tremendous holding strength. The harder you pull, the more The "Claw®" grips. Ideal for all aircraft, Works in hard clay, sandy soil or anything in between Large foot print spreads the load over a larger area for maximum holding power, Low profile will not puncture tires. Complete System weighs only 8 lbs (Including Hammer), Light-weight aircraft aluminum with hardened corrosion resistant die cast zinc plated steel spikes 25 ft 3/8" dia. solid braid polyester rope, Anchoring System hammer doubles as removal tool The "Claw®" includes: Bag that is easy to carry and store that contains: 3 Anchors; 9 spikes; 1 hammer; 25-ft rope Wt: 8 lbs.

P/N 13-02448 \$89.95



16" CORKSCREW TIEDOWN KIT

A versatile, general-purpose spiral anchor made from cold, rolled steel. Design for lightweight applications. Folding ring reduces profile to minimize obstruction in high traffic areas. Bright orange color powder coating resists corrosion and helps provide added visibility. Use

to secure small tents, trees, recreational use and patio furniture. Features: • High pull force performance; 500 pounds per anchor (results may vary dependent on soil types) • Installs in most soils in minutes • Lightweight, individual weight of 1 lb 13 oz. or 5 lbs. 7 oz. per kit • This kit includes: three 16" corkscrew tiedown anchor, one 3/8" nylon tiedown rope, and one tiedown bag - all complete with a manual including installation instructions!

P/N 13-09652..... \$59.75

NELSON AIRCRAFT TIE-DOWNS

• Three 15" welded (not bent) steel anchors with sharp tips for easy installation • Three 15' nylon ropes- Cordura, Int'l. Orange, 8"x15" case • Wt: 4 lbs.

P/N 13-00663 \$81.50

TIE DOWN ANCHORS



The Storm Force Aircraft Tie Down System is the STRONGEST, LIGHTEST, and BEST aircraft tie down available, and is compatible with all types of small aircraft. The Storm Force Tie Down Kit is perfect for aircraft under 3500lbs gross weight; for twin engine

aircraft and aircraft above 3500lbs gross weight checkout our Storm Force XL. Storm Force Aircraft Tie Downs are manufactured using lightweight yet extremely durable materials in order to provide pilots with exactly what they need to secure their aircraft with confidence. Capable of supporting 4200 lbs or more of force per unit, the Storm Force Aircraft Tie Down leaves the competition in the dust. Durable Powder Coating Light-Weight Design P/N 13-21608 \$64.95

AIRCRAFT TIE DOWNS

Three 17" x 3/8" plated steel cork screw stakes. Three 10' x 3/8" polypropylene ropes. Cloth draw string bag.. P/N 13-06634 \$31.50

AIRCRAFT TIE-DOWN - RED



These Aircraft Tie-Downs offer strong, durable, and easy to use tie downs for any weather condition. These tie downs are rated up to 3,000lbs. and tighten up with one quick pull. A sliding cap protects the buckle from freezing during cold weather and keeps grit out during windy field conditions. Each kit comes with: * Three 9 foot long tie down straps * Choice of tie down strap colors: black, red, or royal blue * A Dupont Cordura carrying bag with choice of colors; black, forest green, red, royal blue or navy. Embroidery is available for an additional \$5. Color is Red. P/N 13-06328..... \$74.75

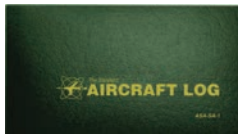


27" VINYL WINDSOCK

Features 27" long x 6-1/2" diameter fluorescent orange vinyl sock. Aluminum mast adjusts from 33" to 54" and up to 12 ft. with extension kit. Perfect for private strip, helicopters, or runway threshold.

Complete Windssock w/frame P/N 13-20015 \$59.95
Replacement Sock P/N 13-20025 \$22.85

ASA AIRCRAFT LOG BOOKS - HUNTER GREEN



Designed to keep records of the entire aircraft in order: inspections, tests, repairs, alterations, ADs, service bulletins, and equipment additions, removals or exchanges.

SA-1 Soft Cover; 7.25"x 4"; 64 pgs P/N 13-32375 \$4.75
SA-2 Hard Cover; 7.75"x 5-5/8"; 96 pgs P/N 13-32384 \$9.95

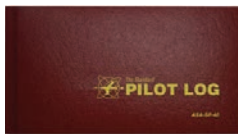
STANDARD PILOT LOG BOOK - BLACK



The finest and most versatile logbooks for aviators. ASA's logbooks have been "The Standard" of the industry for over 30 years and comply with the FAA's recordkeeping requirements. With so many options, there is a logbook that's right for you. Versatile, easy-to-use and flexible enough to fit any pilot's needs, student or ATP. Includes all instructor endorsements. Hard cover, black, 8" x 4 1/2", 100 pages.

P/N 13-32365 \$7.95

ASA STANDARD PILOT LOG - BURGUNDY



The finest and most versatile logbooks for aviators. ASA's logbooks have been "The Standard" of the industry for over 30 years and comply with the FAA's recordkeeping requirements. With so many options, there is a logbook that's right for you. Versatile, easy-to-use and flexible enough to fit any pilot's needs, student or ATP. Includes all instructor endorsements. Hard cover, burgundy, 7-1/2" x 4", 100 pages.

P/N 13-32360 \$9.75

WIND WIZARD WIND SPEED INDICATOR

ECONOMY MODEL – ACCURATE & COMPACT



A single scale eliminates the need to shift back and forth between two scales when wind conditions are variable or gusty. Conveniently calibrated in miles/hour, meters/ second and Beaufort. Expanded in the lower wind speed range of 0-20 MPH (0-8.9 meters/sec). Slips easily into a shirt or coat pocket. Safety wrist strap gives added security in stronger winds, and stores out of the way in the folding handle.

Constructed of high impact plastic and corrosion resistant metals. It comes with leather-like carrying case. No Batteries needed.

P/N 13-18520 \$49.99

WEATHER FLOW WIND METER



The WeatherFlow Wind Meter is an anemometer that fits in your pocket. It's the first hardware product we have created for the general wind- & weather-addicted community.

It's compatible with iPhone, iPad, iPod, and all major Android (coming soon) devices. And you are going to love it. It's operating range extends from the smallest puff (2 mph) to well over hurricane force winds (125 mph). P/N 13-14788 \$34.95

PS

ASA SPORT PILOT DVD



Learn proper preflight procedures and how to perform a routine preflight inspection of a light-sport aircraft (LSA) airplane to ensure a safe and enjoyable flight. Follow a routine preflight inspection to learn the proper way to ensure a safe, enjoyable flight. Sport Pilot expert Paul Hamilton role-plays as the student embarking on his first flight in a fixed wing LSA. Instructor Jeff Reynolds takes Paul through an easy-to-follow and comprehensive preflight inspection. This straightforward presentation is truly informative and educational for the beginner pilot, as well as the experienced aviator wanting a refresher or transitioning aircraft. Preflight Fixed Wing DVD.

P/N 13-04192 **\$34.50**

ASA ROTAX 912 ENGINE INTRODUCTION



This DVD by Paul Hamilton introduces the use and maintenance on Light-Sport Aircraft (LSA) of the ROTAX 912 engine. Many engine problems seen in the field are preventable with proper operation and maintenance and the 912 is no exception. This DVD is particularly useful to maintenance professionals, pilots and flight instructors operating ROTAX-powered Light Sport Aircraft.

Answers frequently asked questions based on years of operational and maintenance experience and outlines typical procedures every owner, operator and mechanic should know. This DVD is the only one of its kind in the rapidly growing LSA market, and it caters to the do-it-yourself experience of flying this category of aircrafts. P/N 13-04747 **\$23.50**

SPORT PILOT: CHOOSING THE LIGHT-SPORT AIRCRAFT THAT'S RIGHT FOR YOU



This DVD production and booklet compare the LSA types as well as their ultralight cousins to help pilots make a truly informed decision on which light-sport aircraft is right for them. It explains what ultralights and LSA are, provides

parameters to evaluate the viewer's situation and factors to consider (including cost, athletic ability, previous aviation experience, time to learn, transportation, storage, and airfield options), and provides an overview and introduction to each of the light-sport aircraft types. Includes beautiful full-color booklet with aircraft photo and comparison tables. Total running time 00:41:00

P/N 13-03467 **\$5.75**

DEEP INSIDE YOUR ROTAX INSTRUCTIONAL DVD



You can now see and understand what procedures are involved with the 150 and 300 hour inspection/rebuild services. Alan points out the places carbon accumulates, where the common areas of wear occur, and other signs indicating the possibility of potential failures. The specialized Rotax engine tools are demonstrated as to their function in removing various internal components. Installation and maintenance tricks are also demonstrated and explained for the purpose of heading off future engine failures that can lead to disaster. P/N 13-03370 **\$34.95**

..... P/N 13-03370 **\$34.95**

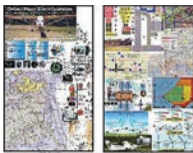
ROTAX 912 INSTALLATION TIPS & TECHNIQUES



This presentation explains the most important details of preparing and installing the popular Rotax 912 family of four stroke engines in your experimental homebuilt aircraft. This reliable, high performance engine will only perform safely if installed properly as specified by the Rotax installation guide. The important details in this guide are often misunderstood or even ignored completely resulting in catastrophic engine failures and dangerous flying situations. DVD Running time: 1.5 hours

P/N 13-04183 **\$35.95**

SPORT PILOT ENCYCLOPEDIA



Can be used three ways: 1) SP Prep = full immersion rapid prep for the written, 2) SP Encyclopedia = thorough review of relevant FAA publications essential to both the written and the oral exams, and/or 3) both as entertaining and informative leisure reading. The narrative is laced with humor, personal anecdotes, and frank sometimes blunt language that keeps the reader alert and involved while feeling secure and comfortable as if in the company of an experienced friend and mentor. Actual NTSB accident reports are woven into the discussion.

P/N 13-03706 **\$9.95**

WEATHER TO FLY FOR SPORT PILOTS WITH PAUL HAMILTON



Sport pilots fly lower and slower than General Aviation pilots. As a result, weather plays a critical factor in flying. The straightforward and beautiful presentation features time-lapsed cinematography of cloud formations, in-air footage, and animations. This DVD simplifies complex weather concepts as well as illustrates consequences of pilot judgment, in a 5-step system specific to Sport Pilots and light-sport aircraft operations. Pilots will learn to forecast local conditions, interpret weather information accurately, make better decisions about "whether to fly", and learn to recognize trends. Includes booklet with worksheets for an interactive learning experience. Companion product to ASA's Sport Pilot Logbook. Total running time 01:20:12

P/N 13-03468 **\$42.95**

PRACTICAL TEST STANDARDS: SPORT PILOT



This is ASA's Sport Pilot Practical Test Standards for Airplane, Weight-Shift Control, Powered Parachute and Flight Instructor. The FAA Practical Test Standards are used by instructors, students, and examiners to prepare for, review, take, or issue the checkride. Includes both the FAA-S-8081-29 for Airplane and FAA-S-8081-31 for Weight-Shift Control and Powered Parachute (effective December 2004), applicable to both Sport Pilots and Sport Instructors. 296 pages..... P/N 13-05855..... **\$7.50**

SPORT PILOT KIT



Gleim's Sport Pilot Kit is designed to help expedite training for the sport pilot certificate. Contains everything you need (except airplane and instructor) Offers an all-in-one package at an affordable price. Save money by purchasing all required materials together.

P/N 13-03449 **\$108.75**

GLEIM DELUXE SPORT PILOT KIT WITH ONLINE GROUND SCHOOL



Set Contents: Flight Bag, Gleim Cap, Flight Computer, FAR/AIM, Logbook, Online Communication Course, Gleim Online Ground School for Sport, Pilot Handbook, Plotter, Sport Pilot Flight Maneuvers and Practical Test Prep book, 2nd Ed., Sport Pilot FAA Knowledge Test book, 2012 Ed., Sport Pilot Knowledge Test Prep Software Download, Sport Pilot Student Certificate Course, Sport Pilot Syllabus book, 3rd Ed., Sport Pilot Training Record book, Security-Related Airspace Course.

P/N 13-11645 **\$184.95**

GLEIM PRIVATE PILOT KIT



Designed to help you expedite your training for your private pilot certificate. A complete training program at a price you can afford. "User-friendly" self-study materials that are carefully designed to make it easy for you to learn and understand.

Private Pilot Kit With Online Test P/N 13-22229 **\$136.75**
 Deluxe Private Pilot Kit..... P/N 13-11647 **\$186.00**
 Deluxe Private Pilot Kit w/Audio Review..... P/N 13-11646 **\$219.95**

ASA THE COMPLETE PRIVATE PILOT KIT



The ASA Student Pilot Kit provides total preparation for Part 61 and Part 141 programs, and all items are discounted from their individual prices. The kit includes the following products:

- The Complete Private Pilot by Bob Gardner
- The Complete Private Pilot Syllabus
- Student Flight Record: Private
- Visualized Flight Maneuvers Handbook for High-Wing Aircraft (Low-Wing available on request)
- Standard Pilot Logbook
- Ultimate Rotating Plotter
- Fiberboard E6-B flight computer
- Private Oral Exam Guide
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- Student Pilot Guide
- Student Flight Record..... P/N 13-02271 **\$71.85**

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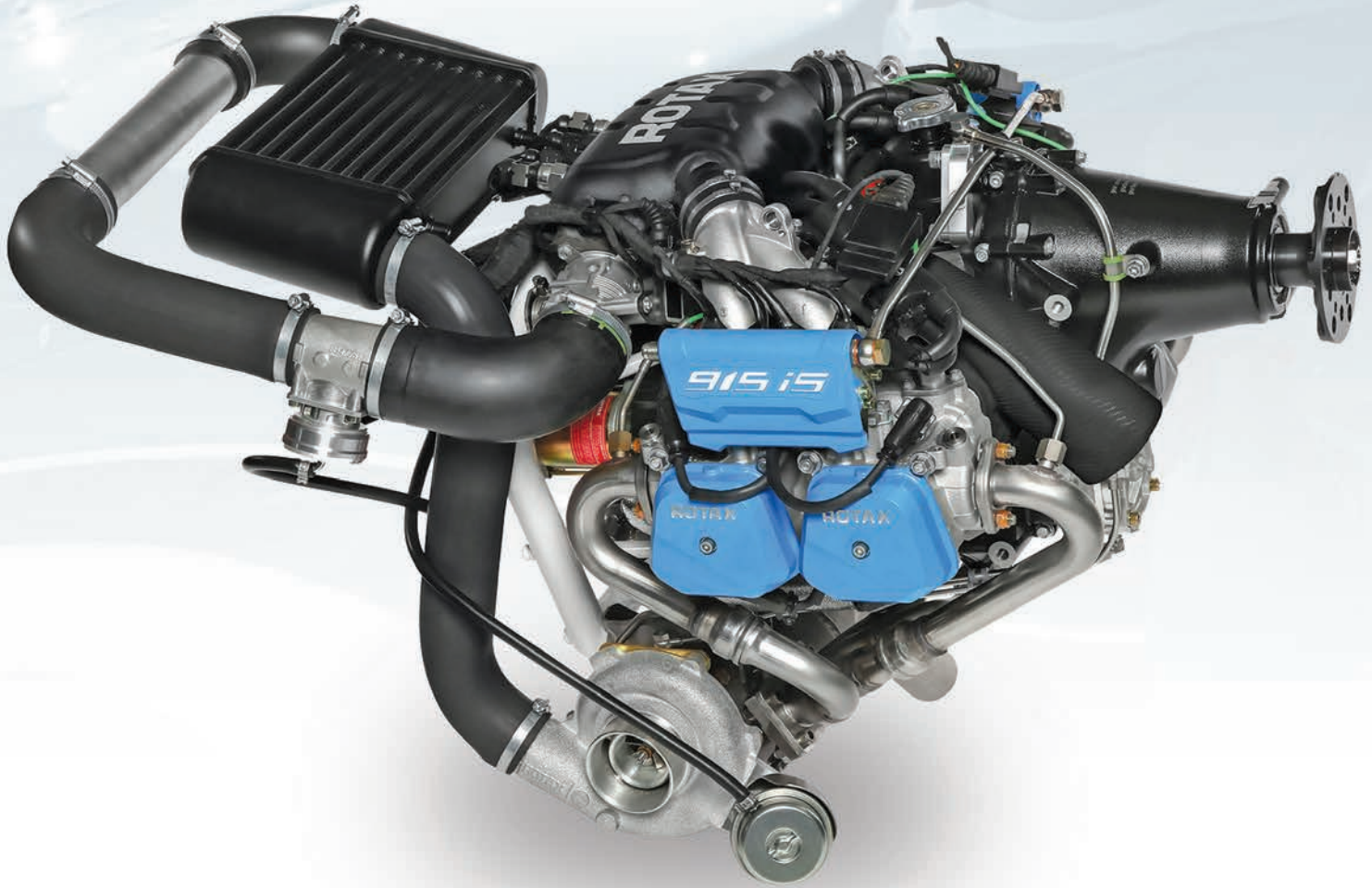
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