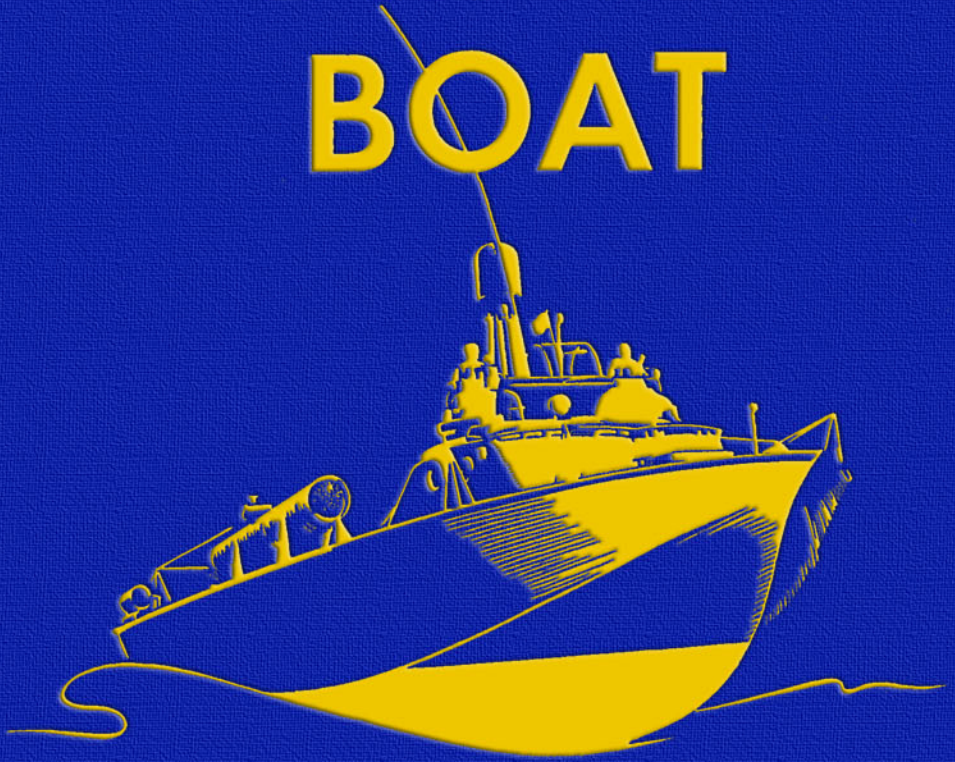
NAVSHIPS
312-0001

PARTS CATALOG

MOTOR TORPEDO BOAT



HIGGINS TYPE

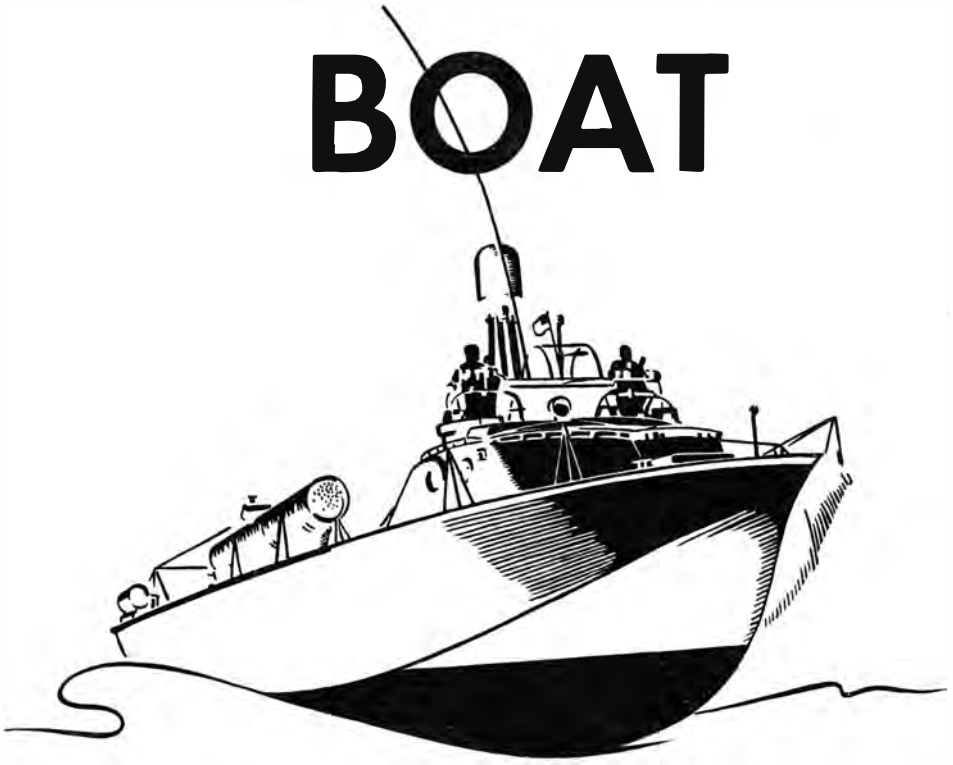
COMPILED BY
U.S. NAVAL SUPPLY DEPOT, MECHANICSBURG, PA.
FOR THE BUREAU OF SHIPS

NAVSHIPS
312-0001

★

PARTS CATALOG

MOTOR TORPEDO BOAT



HIGGINS TYPE

★

COMPILED BY
U. S. NAVAL SUPPLY DEPOT, MECHANICSBURG, PA.
FOR THE BUREAU OF SHIPS

FOREWORD

This Parts Catalog is published to assist in the identification and ordering of spare parts for Higgins Type Motor Torpedo Boats. The compiled data contained in this book can best be used through a complete understanding of the features incorporated, which are illustrated by the following examples:

(1) The item number, as shown on any descriptive page, not only pertains to the list of parts as catalogued under a particular system, but it also references the piece number of the Higgins drawing as recorded on microfilm. Therefore, whenever a figure number and photo number do not appear in this catalog, the part in question may be checked against the microfilm drawing by use of the item number.

(2) All photographs are numbered consecutively from front to back. The figure number pertains to component parts of the photo number in question; namely, in photo number ten (10), which is a disassembled photograph of the Steering Gear Box Assembly, there are forty-one (41) component parts or figure numbers that reference part numbers and page number for the complete description, quantity used per boat, and the boat on which it is used. Conversely, the same procedure may be used in referencing nomenclature and part numbers to an illustration by use of the photo number and figure number, as well as by use of the item number and drawing number for reference to the microfilm for further and more complete information.

This Catalog supersedes and cancels the Higgins portion of parts as listed in the NavShips (816) Booklet—"Lists of Parts Available for Motor Torpedo Boats under Bureau of Ships Cognizance" dated 1 June 1944. Any further additions or deletions will be forwarded in a form that will permit insertion in this binder.

ALPHABETICAL INDEX

	Page
BILGE SYSTEM	46–49
Component Parts	46–47
Lines, Bilge	47–48
Lines, Self Bailer	48–49
COMPRESSOR, AIR	59–64
Installation (Champion Type)	59–62
Installation (Lauson Type)	62–64
ELECTRICAL	67–96
Blowers and Blower Parts	66–67
Fixtures and Electrical Installation	75–77
Generators, Auxiliary, 5.5 KW, Capitol Installation	67–71
Generators, Auxiliary, 2.5 KW, U. S. Motors Installation	71–74
Interchangeability List, Electrical Fixtures	75–77
Parts Component for Electrical Fixtures	77–96
EXHAUST	11–12
Component Parts	11–12
Installation	11–12
Stanchions—Exhaust	12
FASTENINGS	57–59
FIRE FIGHTING EQUIPMENT	54–56
Alfite Type System Installation	54–55
Lux Type System Installation	55–56
FUEL SYSTEM	31–42
Component Parts	31–33
Fuel Tanks	31
Fuel Tank Parts	31–34
Selector Valve Repair Parts	41–42
Telegraph Dials	37
Throttle and Telegraph Controls	34–36
Throttle Fittings	38–41
HARDWARE, MISCELLANEOUS	97–100
HEATING AND VENTILATING	64–67
Blowers and Blower Parts	66–67
Duct Systems	64–65
Heater Installation	64–66
HULL CONSTRUCTION	101–112
Blocks, Butt	107
Blocks, Installation, Rudder and Strut	102–103
Blocks, Muffler Installation	105–106
Bow Stem, Keel and Fastenings	101–112
Chain, Bilge	106
Foundation 20 mm. Gun	106

	Page
HULL CONSTRUCTION—Continued.	
Frames, Intermediate	103
Hatches	109–110
Post, Samson	106–107
Rail Guard	107
MUFFLER	9–11
Component Parts	9–11
Installation	9–11
PIPING ENGINE	23–27
Brackets, Miscellaneous	27
Component Parts, Piping	23–25
Lines, Miscellaneous	25–27
PLUMBING, LAVATORY AND GALLEY	49–52
Component Parts	49–52
Refrigeration	52
STEERING	1–9
Box, Main Steering Gear Parts	2–3
Box, Variable Gear Steering, Parts	7–8
Box, Sprocket Transmission Parts	5–6
Component Parts, Steering	1–2
Drag Link Parts	4–5
Emergency Steering	4
Fittings, Bulkhead, Torque Shaft	6
Installation, Steering	1–2
Idler Sprocket Parts	6
Rudders and Installation	8–9
Rudder Ports and Installation	8–9
Support Bearing Torque Shaft	6
UNDERWATER GEAR, MAIN PROPULSION EQUIPMENT	15–18
Bearings, Rubber	17–18
Bearings, Steady Rest	18
Fastenings, Strut and Shaftlog	18–19
Glands, Bulkhead Seal	17
Glands, Shaftlog	17
Keys, Propeller Shaft	17
Nuts, Propeller Shaft	17
Shafting, Propeller Shaft	16–17
Shaftlogs	16
Struts	15–16
AUXILIARY EQUIPMENT	113–123
Compressor, Westinghouse 3-GW-38	119–123
Compressor Drive, Champion Outboard Model 1H	113–119
CASTINGS AND SPECIFICATIONS	124–128

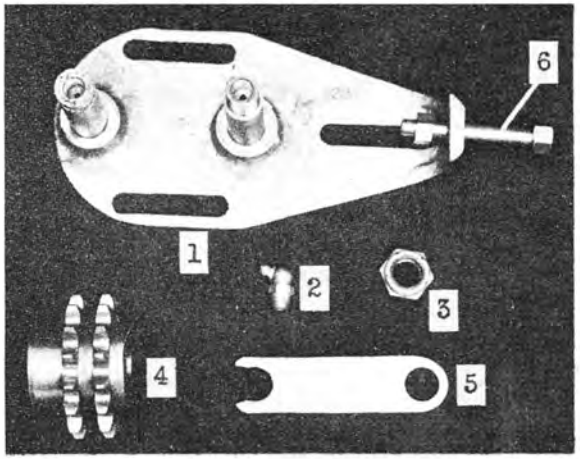


PHOTO 1 (SEE DESCRIPTION PAGE 6)

1 - TB-1961	3 - 42TE108	5 - TB-1962
2 - 1612	4 - TB-1942	6 - TB-3333

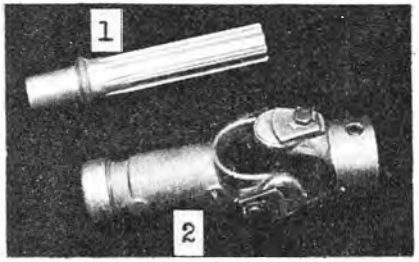


PHOTO 2 (SEE DESCRIPTION PAGE 1)

1 - TB-1926 2 - TB-1927

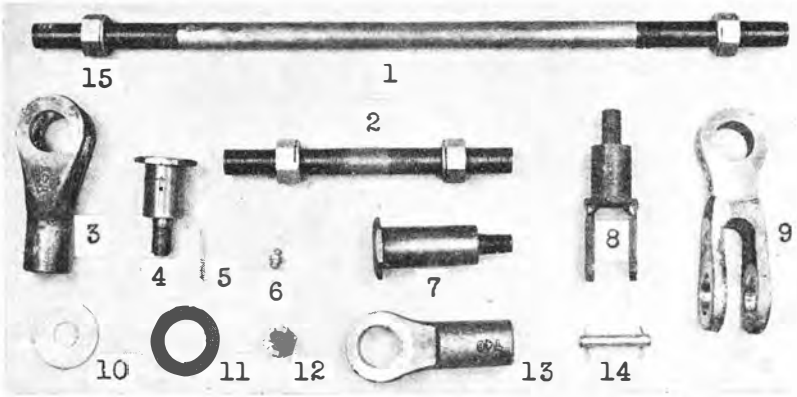


PHOTO 3 (SEE DESCRIPTION PAGE 4 & 5)

1 - TB-1965	6 - 1610	11 - TB-1975
2 - TB-1966	7 - TB-1931	12 - TB-3408
3 - TB-1934	8 - TB-1972	13 - TB-1933
4 - TB-1932	9 - TB-1935	14 - TB-1974
5 - TB-3801	10 - TB-1967	15 - 59-E-164

PHOTO 4 (SEE DESCRIPTION PAGE 6)

1 - TB-1941

PHOTO 5 (SEE DESCRIPTION PAGE 6)

1 - TB-4833 2 - 1610 3 - TB-4831

PHOTO 6 (SEE DESCRIPTION PAGE 1)

1 - TB-1925

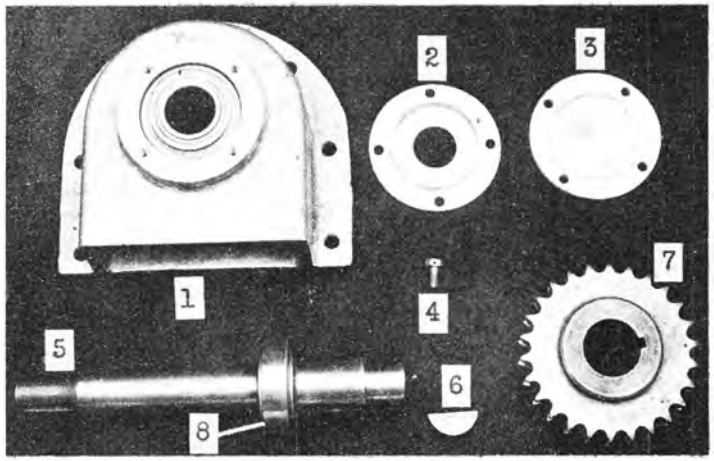


PHOTO 7 (SEE DESCRIPTION PAGE 5 & 6)

1 - TB-1954	4 - TB-3321	7 - TB-1939
2 - TB-1956	5 - TB-1952	8 - TB-1958
3 - TB-1950	6 - TB-3901	

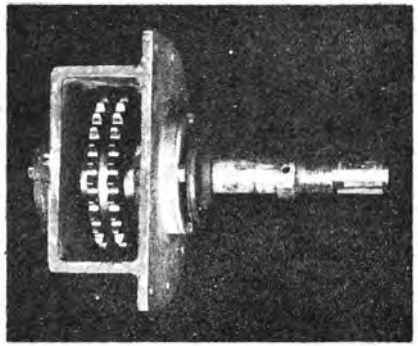


PHOTO 8 (SEE DESCRIPTION PAGE 5)

1 - TB-1964

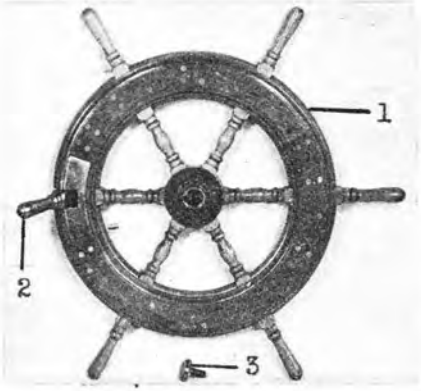


PHOTO 9 (SEE DESCRIPTION PAGE 2)

1 - TB-1909 2 - TB-1959 3 - TB-1960

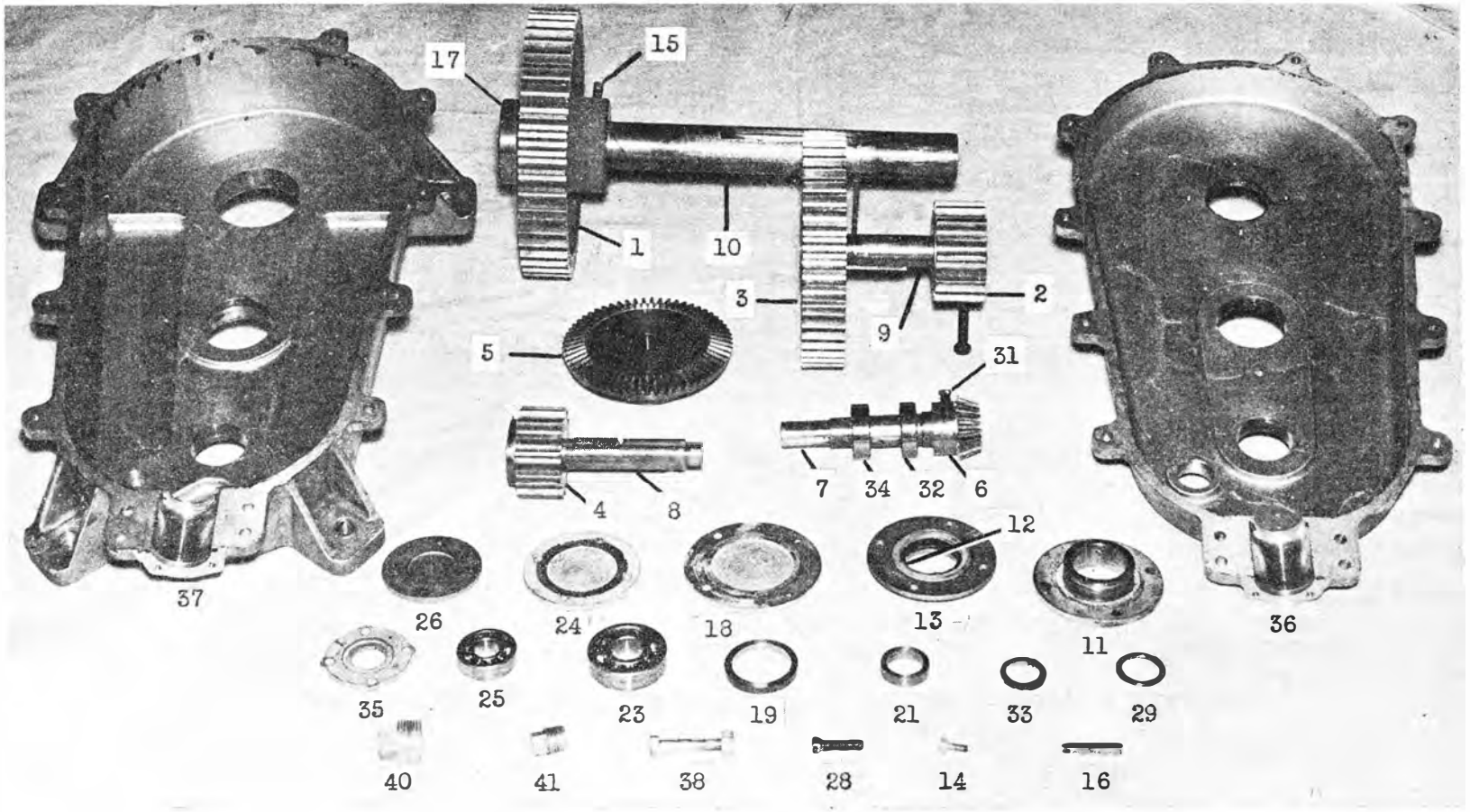


PHOTO 10

PHOTO 10 (SEE DESCRIPTION PAGES 2 and 3)

1 - TB-1901	13 - TB-4804	28 - TB-3334
2 - TB-1902	14 - TB-3322	29 - TB-4814
3 - TB-1903	15 - TB-3329	31 - TB-3328
4 - TB-1904	16 - TB-4805	32 - 6204
5 - TB-1948	17 - 6208	33 - TB-4816
6 - TB-1949	18 - TB-4806	34 - WC-8504
7 - TB-1999	19 - TB-4807	35 - TB-4817
8 - TB-4800	21 - TB-1905	36 - TB-1907
9 - TB-4801	23 - 6305	37 - TB-1908
10 - TB-4802	24 - TB-4811	38 - TB-3335
11 - TB-4803	25 - 6204	40 - TB-4818
12 - TB-1906	26 - TB-4812	41 - TB-4819

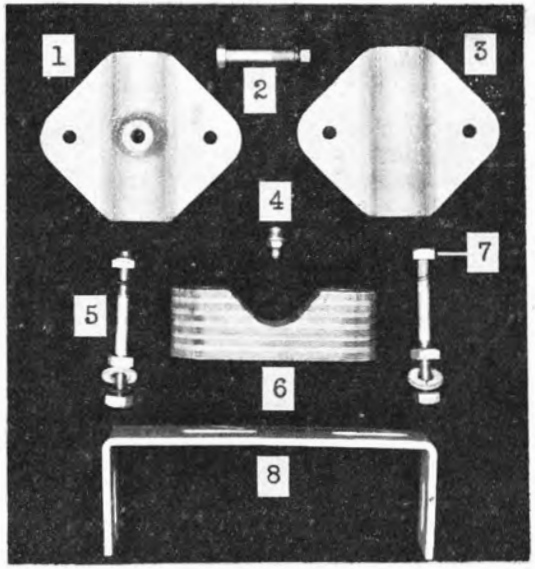


PHOTO 11 (SEE DESCRIPTION PAGES 1 - 6)

1 - TB-4834 4 - 1610 7 - TB-3406
2 - TB-3309 5 - TB-4836 8 - TB-4835
3 - TB-4834 6 - TB-1945

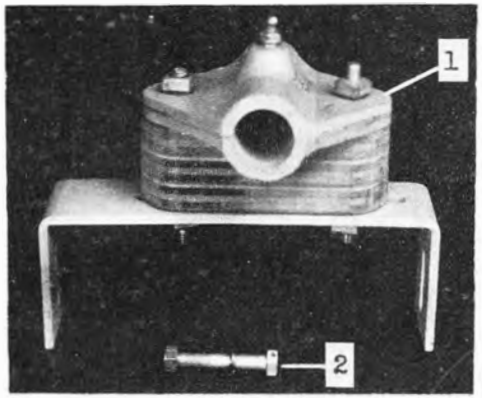


PHOTO 12 (SEE DESCRIPTION PAGE 1)

1 - TB-1944 2 - TB-3309

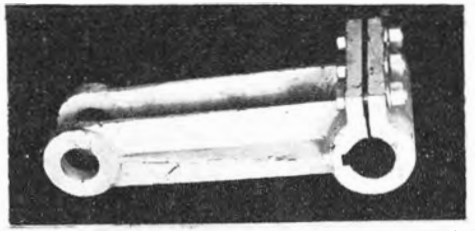


PHOTO 13 (SEE DESCRIPTION PAGE 4)

1 - TB-1930

PHOTO 14 (SEE DESCRIPTION PAGE 9)

1 - TB-1989

PHOTO 15 (SEE DESCRIPTION PAGE 9)

1 - TB-1987

PHOTO 16 (SEE DESCRIPTION PAGE 4)

1 - TB-1929

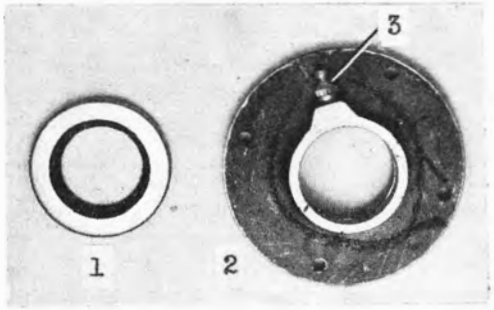


PHOTO 17 (SEE DESCRIPTION PAGE 4)

1 - TB-4824 2 - TB-4823 3 - 1610

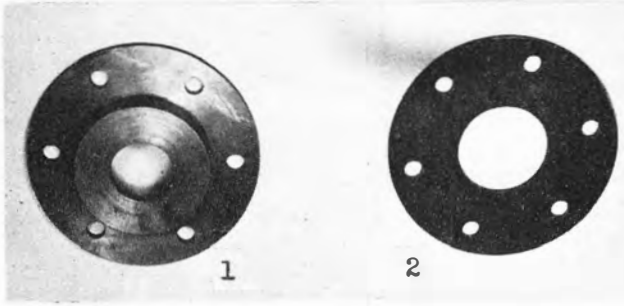


PHOTO 18 (SEE DESCRIPTION PAGE 4)

1 - TB-1978 2 - TB-1979

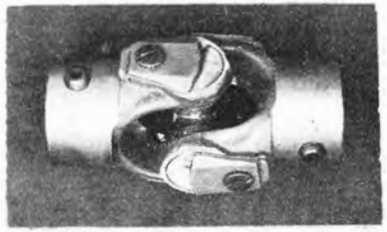


PHOTO 19 (SEE DESCRIPTION PAGE 1)

1 - TB-1928

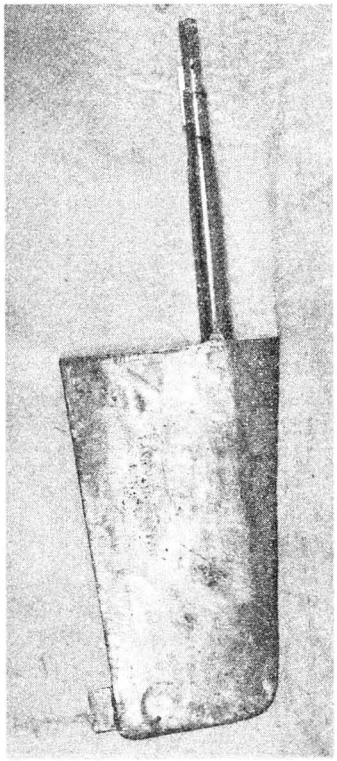


PHOTO 21 (SEE DESCRIPTION PAGE 8)
1 - TB-1946

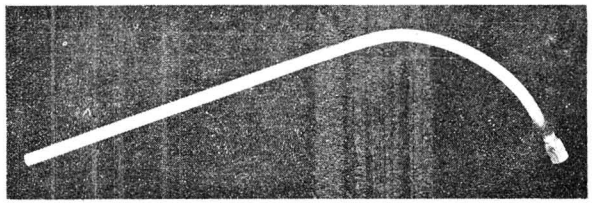


PHOTO 22 (SEE DESCRIPTION PAGE 4)
1 - TB-4821

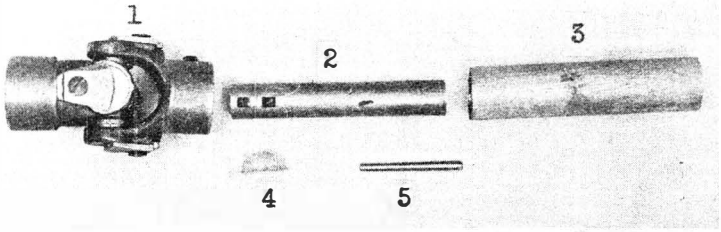


PHOTO 23 (SEE DESCRIPTION PAGE 1)
1 - TB-1928 3 - TB-2917 5 - TB-3803
2 - TB-4852 4 - TB-3901

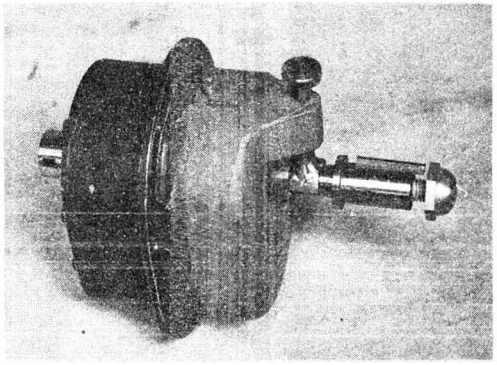


PHOTO 24 (SEE DESCRIPTION PAGE 1)
1 - TB-1910

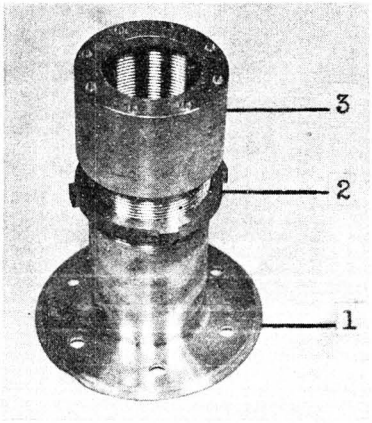


PHOTO 26 (SEE DESCRIPTION PAGE 8)
1 - TB-1982 2 - TB-1980
1 - TB-1983 3 - TB-1981

PHOTO 27 (SEE DESCRIPTION PAGE 4)
1 - TB-4822

PHOTO 28 (SEE DESCRIPTION PAGE 4)
1 - TB-4820

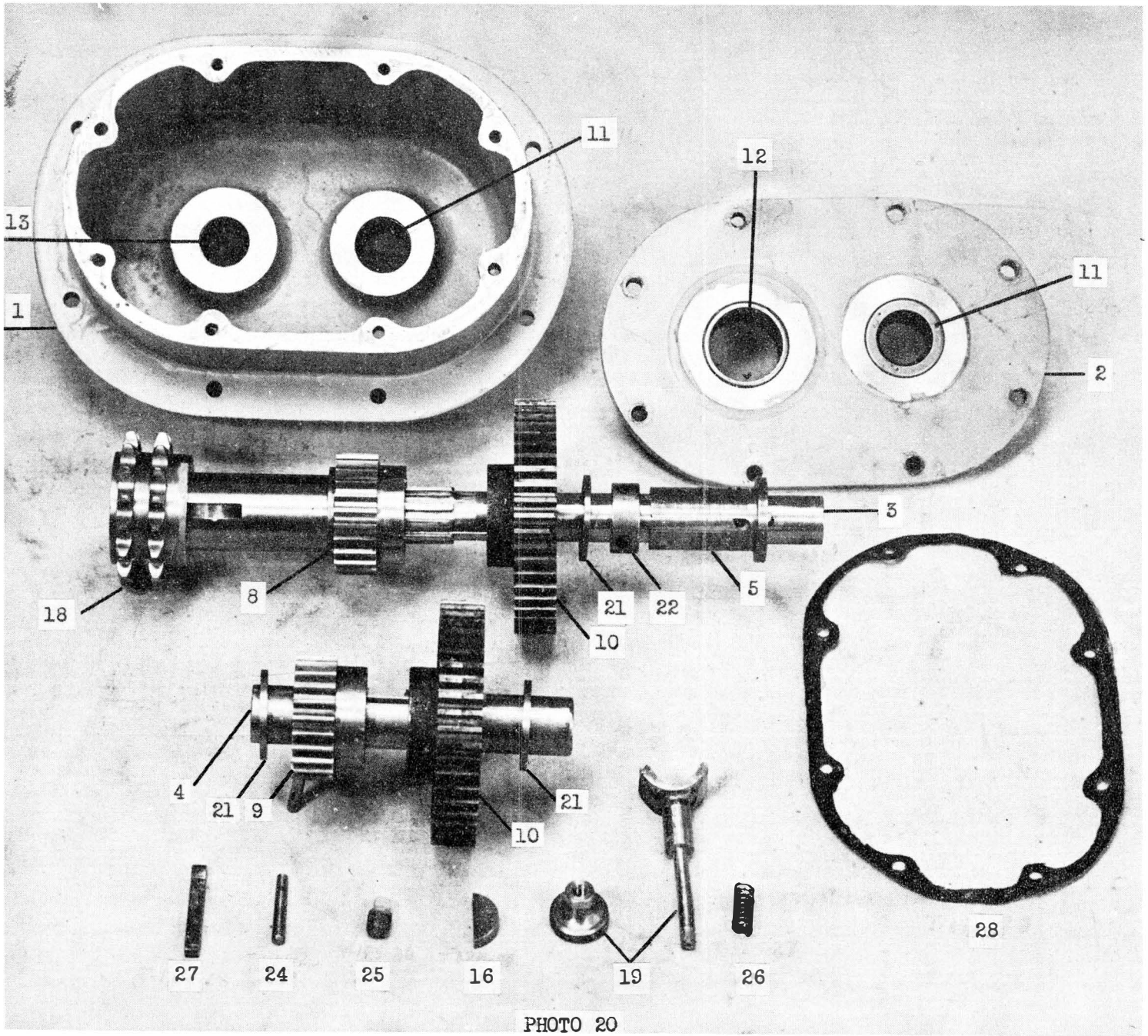


PHOTO 20

PHOTO 20 (SEE DESCRIPTION PAGES 7 and 8)

1 - TB-1911
2 - TB-1912
3 - TB-1990
4 - TB-1991
5 - TB-1992
8 - TB-1913
9 - TB-1914
10 - TB-1915
11 - B-1612
12 - B-2220
13 - B-1412
16 - TB-4839
18 - TB-1922
19 - TB-1923
21 - TB-1924
22 - TB-1940
24 - TB-3802
25 - TB-1995
26 - TB-1996
27 - TB-1997
28 - TB-1998

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-84	RPT 1-12	PT 199-254	PT 265-313	PT 450-485							
	STEERING GEAR SYSTEM															
1	Wheel, steering, mahogany, complete with special Higgins crank-knob.	TB-1909	2602-8K	484571	1	1	1	1	1						1	9
2	Transmission, sprocket cast aluminum. Pattern T-1A and 1B complete	TB-1964	2602-8N	553574	1	2	1	1	1							
3	Idler sprocket cast maganese bronze, Pattern T-15 complete	TB-1941	2602-8N	553574	1	1	1	1	1							
4	Transmission, variable cast aluminum, Pattern T-88A-B complete	TB-1910	2602-8P	553577	1		1	1	1						1	24
5	Chain, Diamond roller D66 - 1/2" x 9/16" DS	TB-1925	2602-8K	484571	26'	26'	26'	26'	26'						1	6
6	Spline Assembly, Mechanics #Z2007VS	TB-1926	2602-8K	484571	1	1	1	1	1						1	2
7	End yoke, Mechanics #5034J	TB-1927	2602-8K	484571	3	3	3	3	3						2	2
8	Cross and bearing assembly, Mechanics #1142004	TB-1928	2602-8K	484571	3	3	3	3	3						1	19
9	Bulkhead fitting, cast brass, Pattern T-16	TB-1943	2602-8N	553574	5	5	5	5	5							
10	Bearing, steady cast aluminum, Pattern T-10	TB-1944	2602-8N	553574	1	1	1	1	1						1	12
10A	Bolt, Hex Head, 3/8" x 3-1/2" NC steady bearing, Installation	TB-3309			3	3	3	3	3						2	11

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-84	RPT 1-12	PT 199-254	PT 265-313	PT 450-485							
	STEERING GEAR SYSTEM (Continued)															
11	Gear box, main steering	TB-1900	2602-8F 2602-8G 2602-8H	484513 484514 484515	1	1	1	1	1							
12	Tubing, torque shaft seamless steel, 1-1/8" OD x 7/8" ID	TB-2917	2602-8K	484571	45'	45'	45'	45'	45'						3	23
13	Rod, torque shaft connecting, 7/8" D. x 24"	TB-4832	2602-8K	484571	1	1	1	1	1						2	23
14	Pins, taper steel #6 - 1-1/8"	TB-3803	2602-8K	484571	12	12	12	12	12						5	23
15	Bolts, carriage galvanized nuts and washers, 1/4" x 2-3/4"	TB-3203	2602-8K	484571	2	2	2	2	2							
16	Screw, cap, steel cadmium plated, 1/4" x 2-3/4" NC	TB-3337	2602-8K	484571	7	7	7	7	7							
17	Nut, elastic stop, 3/8"	29TU066	2602-8K	484571	10	10	10	10	10							
18	Screw, cap, steel cadmium plated, 3/8" x 3-1/2" NC	TB-3338	2602-8K	484571	3	3	3	3	3							
19	Washers, steel cadmium plated, 7/16" ID x 1" OD	TB-3504	2602-8K	484571	3	3	3	3	3							
20	Screw, cap, brass, 1/4" x 1-1/2" NF	TB-3339	2602-8K	484571	20	20	20	20	20							
21	Nut, elastic stop, 1/4"	99U040	2602-8K	484571	20	20	20	20	20							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-84	RPT 1-12	PT 199-254	PT 265-313	PT 450-485					Figure No.	Photo No.
	STEERING GEAR SYSTEM (Continued)														
22	Gun, Alemite grease 6556 Hydraulic hand	TB-4829			1	1	1	1	1						
23	Screw, cap, 1/4"-20NC x 1-1/2" Nuts and Washers, steel cadmium plated	TB-3340			8	8	8	8	8						
24	Handle, steering wheel breakdown	TB-1959			1	1	1	1	1					2	9
25	Screw, handle lock steering wheel breakdown	TB-1960			1	1	1	1	1					3	9

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	STEERING GEAR BOX														
	Steering gear box complete assembly	TB-1900	2602-8G	484514	1	1	1	1							
1	Gear, spur, Boston NK-48	TB-1901	2602-8G	484514	1	1	1	1						1	10
2	Gear, spur, Boston NK-16B	TB-1902	2602-8G	484514	1	1	1	1						2	10
3	Gear, spur, Boston NJ-48	TB-1903	2602-8G	484514	1	1	1	1						3	10
4	Gear, spur, Boston NJ-16B	TB-1904	2602-8G	484514	1	1	1	1						4	10
5	Gear, bevel, Boston L157B-10P-60T	TB-1948	2602-8G	484514	1	1	1	1						5	10
6	Gear, bevel, Boston L157B-10P-20T	TB-1949	2602-8G	484514	1	1	1	1						6	10
7	Shaft, Input, steel	TB-1999	2602-8G	484514	1	1	1	1						7	10
8	Shaft, Intermediate, steel	TB-4800	2602-8G	484514	1	1	1	1						8	10
9	Shaft, Intermediate, steel	TB-4801	2602-8G	484514	1	1	1	1						9	10
10	Shaft, Output, steel	TB-4802	2602-8G	484514	1	1	1	1						10	10
11	Bushing, cadmium plated steel	TB-4803	2602-8G	484514	1	1	1	1						11	10
12	Seal, Oil, Fitzgerald 84304	TB-1906	2602-8G	484514	1	1	1	1						12	10
13	Closure, steel	TB-4804	2602-8G	484514	1	1	1	1						13	10
14	Screw, cap, steel, 1/4" x 3/4"-20 USS	TB-3322	2602-8G	484514	28	28	28	28						14	10
15	Screw, set, steel, 1/4" x 7/8"-20 USS	TB-3329	2602-8G	484514	1	1	1	1						15	10

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					Pt 71-94	Pt 197-254	Pt 265-313	Pt 450-485								
	STEERING GEAR BOX (Continued)															
16	Key, heat treated, 3/8" x 3/8" - 3", steel	TB-4805	2602-8G	484514	1	1	1	1							16	10
17	Bearing, SKF	6208	2602-8G	484514	1	1	1	1							17	10
18	Cover plate, cadmium plate steel	TB-4806	2602-8G	484514	1	1	1	1							18	10
19	Spacer, steel	TB-4807	2602-8G	484514	1	1	1	1							19	10
20	Key, heat treated, steel	TB-4808	2602-8G	484514	2	2	2	2								
21	Spacer, steel	TB-1905	2602-8G	484514	1	1	1	1							21	10
22	Key, heat treated, 1/4" x 1/4" - 1-9/16", steel	TB-4810	2602-8G	484514	1	1	1	1								
23	Bearing, SKF	6305	2602-8G	484514	2	2	2	2							23	10
24	Cover plate, cadimum plated steel	TB-4811	2602-8G	484514	2	2	2	2							24	10
25	Bearing, SKF	6204	2602-8G	484514	2	2	2	2							25	10
26	Cover plate, cadmium plated steel	TB-4812	2602-8G	484514	2	2	2	2							26	10
27	Key, heat treated, 1/4" x 1/4" - 1-3/4", steel	TB-4813	2602-8G	484514	1	1	1	1								
28	Screw, set, 1/4"-20 USS x 1" steel	TB-3334	2602-8G	484514	1	1	1	1							28	10
29	Spacer, steel	TB-4814	2602-8G	484514	1	1	1	1							29	10

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					Pt 71-94	Pt 197-254	Pt 265-313	Pt 450-485								
	STEERING GEAR BOX (Continued)															
30	Key, heat treated, 3/16" x 3/16" - 2-7/64", steel	TB-4815	2602-8G	484514	1	1	1	1								
31	Screw, set, 1/4" USS - 1/2"	TB-3328	2602-8G	484514	1	1	1	1							31	10
32	Bearing, SKF	6204	2602-8G	484514	1	1	1	1							32	10
33	Spacer, steel	TB-4816	2602-8G	484514	1	1	1	1							33	10
34	Bearing, New Departure	WC-8504	2602-8G	484514	1	1	1	1							34	10
35	Cover plate, cadmium plated steel	TB-4817	2602-8G	484514	1	1	1	1							35	10
36	Case top, cast aluminum, Pattern T-17A	TB-1907	2602-8G	484514	1	1	1	1							36	10
37	Case bottom, cast aluminum, Pattern T-17B	TB-1908	2602-8G	484514	1	1	1	1							37	10
38	Bolts, gear case, 3/8" x 2" machine, cadmium plated steel	TB-3335	2602-8G	484514	14	14	14	14							38	10
39	Bolts, monel mounting, 5/8" x 1-3/4" machine	TB-3336	2602-8G	484514	4	4	4	4								
40	Plugs, fill aluminum, 1" std.	TB-4818	2602-8G	484514	1	1	1	1							40	10
41	Plugs, drain aluminum, 1/2" std.	TB-4819	2602-8G	484514	1	1	1	1							41	10
42	Key, woodruff, #810	TB-4830	2602-8G	484514	1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-84	RPT 1-12	PT 199-254	PT 265-313	PT 450-485					Figure No.	Photo No.
	EMERGENCY STEERING														
1	Drag link, tiller connecting, emergency steering	TB-4820			1	1	1	1	1					1	28
2	Tiller, emergency steering	TB-4821			1	1	1	1	1					1	22
3	Rod, connecting, emergency tiller to rudder	TB-4822			1	1	1	1	1					1	27
4	Deck plate, emergency steering, Pattern T-60	TB-4823			1	1	1	1	1					2	17
5	Grease seal, deck plate, emergency steering	TB-4824			1	1	1	1	1					1	17
6	Fitting, Alemite grease, #1610 - 1/8" NPT	1610			1	1	1	1	1					3	17

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	DRAG LINK STEERING														
	Drag link, steering complete	TB-1947	2602-8A	484492	1	1	1	1							
1	Tiller arm, fabricated steel	TB-1929	2602-8A	484492	2	2	2	2						1	16
2	Toggle arm, fabricated steel	TB-1930	2602-8A	484492	1	1	1	1						1	13
3	Cover plate	TB-1977	2602-8A	484492	1	1	1	1							
4	Bearing, rudder, Timken cone	355A	2602-8A	484492	3	3	3	3							
4A	Bearing, rudder, Timken cup	352	2602-8A	484492	3	3	3	3							
5	Rudder, carrier, steel	TB-1978	2602-8A	484492	3	3	3	3						1	18
6	Collar, carrier, steel	TB-1979	2602-8A	484492	3	3	3	3						2	18
7	Pin, toggle arm	TB-1931	2602-8A	484492	1	1	1	1						7	3
8	Pin, connecting	TB-1932	2602-8A	484492	6	6	6	6						4	3
9	Eye, tie rod, manganese bronze, Pattern T-46	TB-1933	2602-8A	484492	1	1	1	1						13	3
10	Clevis, tie rod, manganese bronze, Pattern T-47	TB-1934	2602-8A	484492	3	3	3	3						3	3
11	Spacers, red fibre	TB-1973	2602-8A	484492	6	6	6	6						11	3
12	Nut, castle, 3/4"-16NF, steel cadmium plated	TB-3408	2602-8A	484492	7	7	7	7						12	3

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	DRAG LINK STEERING (Continued)															
13	Nut, elastic stop, 1"-14NF	59-E-164	2602-8A	484492	4	4	4	4							15	3
14	Clevis, male and female, manganese bronze, Pattern T-52	TB-1935	2602-8A	484492	4	4	4	4							9	3
15	Rod, tie steel, 1" D. x 28-1/2"	TB-1965	2602-8A	484492	1	1	1	1							1	3
15A	Rod, tie steel, 1" D. x 10-3/4"	TB-1966	2602-8A	484492	1	1	1	1							2	3
16	Washer, 1/8" x 2-1/2" OD steel	TB-1967	2602-8A	484492	7	7	7	7							10	3
17	Pin, cotter, 1/8" x 1-1/2" steel cadmium plated	TB-3801	2602-8A	484492	7	7	7	7							5	3
18	Fitting, Alemite grease #1610 - 1/8" NPT	1610	2602-8A	484492	7	7	7	7							6	3
19	Spacer, tiller and toggle arms, steel	TB-1968	2602-8A	484492	6	6	6	6								
20	Nut, hex, 1/2" NC steel cadmium plated	TB-1969	2602-8A	484492	9	9	9	9								
21	Screw, set 1/2" x 1"-13 NC square head, cone point, steel cadmium plated	TB-1970	2602-8A	484492	3	3	3	3								
22	Pin, taper #7 - 3-3/4" steel	TB-1971	2602-8A	484492	3	3	3	3								
23	Pin, tiller arm	TB-1972	2602-8A	484492	2	2	2	2							8	3
24	Pin, emergency tiller connecting	TB-1974			2	2	2	2							14	3

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-84	RPT 1-12	PT 197-254	PT 265-313	PT 450-485							
	SPROCKET TRANSMISSION PARTS, STEERING															
	Sprocket Transmission Assembly	TB-1964	2602-8N	553574	1	2	1	1	1							
1	Cover, cast aluminum, Pattern T-1B	TB-1950	2602-8N	553574	1	2	1	1	1						3	7
2	Screw, cap, 1/4"-20 NC 5/8" steel cadmium plated	TB-3321	2602-8N	553574	8	16	8	8	8						4	7
3	Shaft, 1-3/8" x 10-7/8" C.R. steel	TB-1951	2602-8N	553574		1										
4	Shaft, 1-5/8" x 9-15/16" C.R. steel	TB-1952	2602-8N	553574	1	1	1	1	1						5	7
5	Spacer, 1-1/4" x 5/16" steel	TB-1953	2602-8N	553574	1	2	1	1	1							
6	Housing, cast aluminum, Pattern T-1A	TB-1954	2602-8N	553574	1	2	1	1	1						1	7
7	Key, woodruff 1/4" x 1-1/4" steel	TB-3901	2602-8N	553574	2		2	2	2						6	7
8	Sprocket 1/2" pitch, 26 teeth, 4.148 pitch diameter, Style A Diamond	TB-1939	2602-8N	553574	1	1	1	1	1						4 7	23 7
9	Spacer, 1-1/4" x 5/16" steel	TB-1955	2602-8N	553574	1	2	1	1	1							
10	Retainer, bearing, cast aluminum, Pattern T-1C	TB-1956	2602-8N	553574	1	2	1	1	1						2	7
11	Nut, special 1-5/8" hex. x 1-1/2" steel	TB-1957	2602-8N	553574	1	1	1	1	1							
12	Bearing, ND	88506	2602-8N	553574	2	4	2	2	2							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-84	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	VARIABLE STEERING TRANSMISSION														
	Variable steering Transmission Assembly	TB-1910	2602-8P	553577	1	1	1	1							
1	Case bottom, cast aluminum, Pattern T-88A	TB-1911	2602-8P	553577	1	1	1	1						1	20
2	Case top, cast aluminum, Pattern T-88B	TB-1912	2602-8P	553577	1	1	1	1						2	20
3	Shaft, drive, 1-1/8" x 12" C.R. steel	TB-1990	2602-8P	553577	1	1	1	1						3	20
4	Shaft, driven, 1" x 5-3/8" C.R. steel	TB-1991	2602-8P	553577	1	1	1	1						4	20
5	Collar, 1-1/2" D. x 2-1/4" C.R. steel	TB-1992	2602-8P	553577	1	1	1	1						5	20
6	Bushing, splined	TB-4837	2602-8P	553577	2	2	2	2							
7	Bushing, 1-1/8" OD x 3/4" ID - 1-3/4" long, bronze	TB-4838	2602-8P	553577	1	1	1	1							
8	Gear, steel, 24 teeth - 2" P.D.	TB-1913	2602-8P	553577	1	1	1	1						8	20
9	Gear, steel, #ND24B - 24T - 2" P.D.	TB-1914	2602-8P	553577	1	1	1	1						9	20
10	Gear, steel, #ND48 - 48T - 4" P.D.	TB-1915	2602-8P	553577	2	2	2	2						10	20
11	Bearing, needle, Torrington	B-1612	2602-8P	553577	2	2	2	2						11	20
12	Bearing, needle, Torrington	B-2220	2602-8P	553577	1	1	1	1						12	20

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-84	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	VARIABLE STEERING TRANSMISSION (Continued)														
13	Bearing, needle, Torrington	B-1412	2602-8P	553577	1	1	1	1						13	20
14	Seal, oil, #POR15028	TB-1920	2602-8P	553577	1	1	1	1							
15	Seal, oil, #1501	TB-1921	2602-8P	553577	2	2	2	2							
16	Key, woodruff, 1/4" x 1"	TB-4839	2602-8P	553577	3	3	3	3						16	20
17	Screw, set, 1/4"-20 NC - 3/8" hex socket cup point	TB-3327	2602-8P	553577	2	2	2	2							
18	Sprocket, 6D16 Diamond B	TB-1922	2602-8P	553577	1	1	1	1						18	20
19	Lock, bronze, Pattern T-88C	TB-1923	2602-8P	553577	1	1	1	1						19	20
20	Screws, cap, 1/4"-20 NC x 3/4"	TB-3322	2602-8P	553577	8	8	8	8							
21	Bushing, 1-1/2" x 7/8" x 1/8", bronze	TB-1924	2602-8P	553577	3	3	3	3						21	20
22	Collar, 1-1/4" OD x 1/2" steel cadmium plated	TB-1940	2602-8P	553577	1	1	1	1						22	20
23	Screw, set, 1-1/4"-20 NC steel hex socket cup point, 1/4"	TB-1994	2602-8P	553577	4	4	4	4							
24	Taper pin, #4 x 1-1/8" steel	TB-3802	2602-8P	553577	2	2	2	2						24	20
25	Plug, pipe 1/8" steel galvanized	TB-1995	2602-8P	553577	3	3	3	3						25	20

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-84	PT 197-254	PT 265-313	PT 450-485								
	VARIABLE STEERING TRANSMISSION (Continued)															
26	Spring, monel .051 wire	TB-1996	2602-8P	553577	1	1	1	1							26	20
27	Key, brass, 1/4" x 1/4" x 1-7/8"	TB-1997	2602-8P	553577	1	1	1	1							27	20
28	Gasket, housing, 1/32"	TB-1998	2602-8P	553577	1	1	1	1							28	20

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	RUDDER, STEERING															
1	Rudder, port, monel fabricated	TB-1946	2602-8L	484574	1	1	1	1							1	21
2	Rudder, stbd., monel fabricated	TB-1946	2602-8L	484574	1	1	1	1							1	21
3	Rudder, port, complete, cast brass, Pattern T-6ABC	TB-1975	2602-8L	484574	2	2										
4	Rudder, port, complete, cast brass, Pattern T-6ABD	TB-1976	2602-8L	484574			2	2								
5	Locknut, rudder port; cast brass, Pattern T-6A	TB-1980	2602-8L	484574	2	2	2	2							2	26
6	Collar, stuffing, rudder port, cast brass, Pattern 6-B	TB-1981	2602-8L	484574	2	2	2	2							3	26
7	Rudder, port only, cast brass, Pattern T-6C	TB-1982	2602-8L	484574	2	2									1	26
8	Rudder, port only, cast brass, Pattern T-6D	TB-1983	2602-8L	484574			2	2							1	26
9	Bolts, rudder port installation, 1/2" x 5-1/2", monel F.H., SAE	TB-1984	2602-8L	484574	12	12	12	12								
10	Nuts, rudder port installation bolts 1/2" SAE, monel hex	TB-1985	2602-8L	484574	12	12	12	12								
11	Packing, Garlock, 7/16" x 7/16", Flax, #99, Soft WHP	TB-1986	2602-8L	484574	8'	8'	8'	8'								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	RUDDER, STEERING (Continued)														
12	Wrench, special for rudder port stuffing collar	TB-1987	2602-8L	484574	1	1	1	1						1	15
13	Plug, pipe, galvanized, 3/8" SPS	TB-1988	2602-8L	484574	2	2	2	2							
14	Bolt, eye rudder removal, 1/2"	TB-1989	2602-8R	553587	1	1	1	1						1	14
15	Rudder Carrier and Reinforcement Assembly	TB-4825	2602-8J	484542	1	1	1	1							
16	Carrier, rudder	TB-4826	2602-8J	484542	2	2	2	2							
17	Carrier, toggle arm	TB-4827	2602-8J	484542	1	1	1	1							
18	Carrier, gear box	TB-4828	2602-8J	484542	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	MUFFLER, UNDERWATER ASSEMBLY														
1	Muffler, port underwater assembly, bronze, Pattern T-50	TB-1015	2602-7BB	484552	3	3	3	3						1	30
2	Muffler, stbd. underwater assembly, bronze, Pattern T-50	TB-1014	2602-7BB	484552	3	3	3	3						1	30
3	Sleeve, brass, 1" dia. x 6" long, male thread	TB-1009	2602-7BB	484552	6	6	6	6						1	29
4	Washer, brass, 1-3/4" dia. x 1/4" x 1-1/16"	TB-1024	2602-7BB	484552	6	6	6	6						2	29
5	Nut, brass, 1" 14 N.F. thread x 3/4" x 1-1/4", hex	TB-1026	2602-7BB	484552	6	6	6	6						3	29
6	Nut, lock, brass, 14 N.F. thread x 3/8" x 1-1/4", hex	TB-1027	2602-7BB	484552	6	6	6	6						4	29
7	Gland, packing, 1" N.F. thread x 1-1/4", brass, hex	TB-1010	2602-7BB	484552	6	6	6	6						5	29
8	Butterfly, cast brass, Pattern T-53	TB-1011	2602-7BB	484552	6	6	6	6						6	29
9	Rod, brass, 1/2" dia. x 19" long	TB-1028	2602-7BB	484552	6	6	6	6						7	29
10	Lever, butterfly, cast brass, Pattern T-54	TB-1012	2602-7BB	484552	6	6	6	6						8	29
11	Clevis, brass, 1/2" sq. x 2-1/4" long	TB-1013	2602-7BB	484552	6	6	6	6						9	29

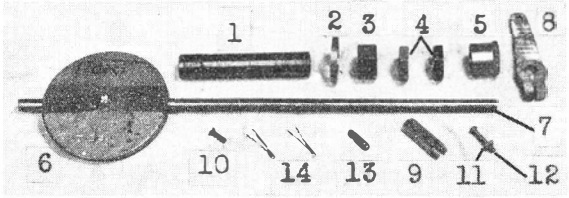


PHOTO 29 (SEE DESCRIPTION PAGES 9 and 11)

1 - TB-1009	6 - TB-1011	11 - TB-1030
2 - TB-1024	7 - TB-1028	12 - TB-1031
3 - TB-1026	8 - TB-1012	13 - TB-1032
4 - TB-1027	9 - TB-1013	14 - TB-1040
5 - TB-1010	10 - TB-1029	

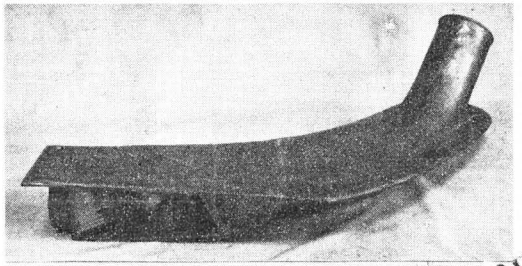


PHOTO 30 (SEE DESCRIPTION PAGE 9)
1 - TB-1015-Port 1 - TB-1014-Stbd.

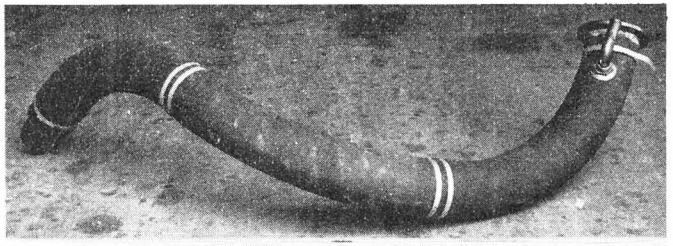


PHOTO 31 (SEE DESCRIPTION PAGE 11)

Exhaust
1 - Port Engine, Port Bank - TB-1006
2 - Port Engine, Stbd. Bank - TB-1005
3 - Stbd. Engine, Port Bank - TB-1002
4 - Stbd. Engine, Stbd. Bank - TB-1001
5 - Center Engine, Port Bank - TB-1004
6 - Center Engine, Stbd. Bank - TB-1003

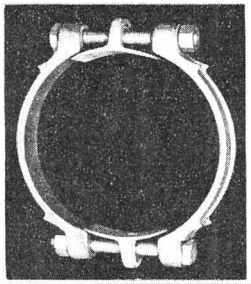


PHOTO 34 (SEE DESCRIPTION PAGE 12)
1 - TB-1008

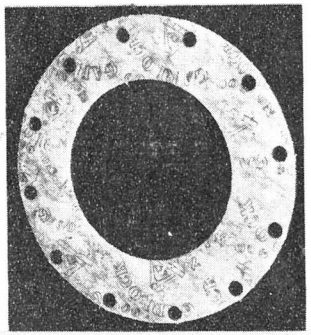


PHOTO 32 (SEE DESCRIPTION PAGE 12)
1 - TB-1007-1/16" 2 - TB-1025-1/8"

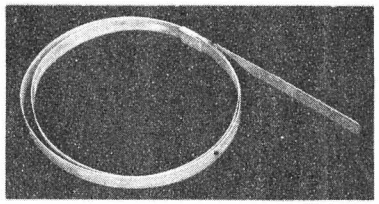
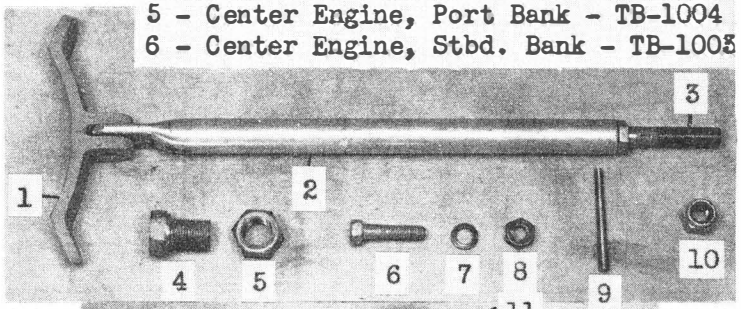


PHOTO 36 (SEE DESCRIPTION PAGE 11)
1 - TB-3101



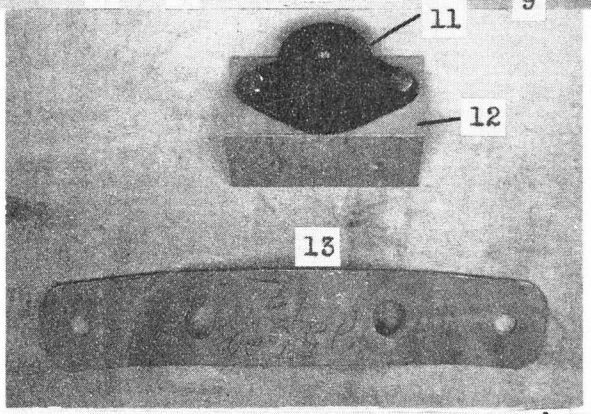


PHOTO 35 (SEE DESCRIPTION PAGE 12)

1 - TB-1048	6 - TB-1053	11 - TB-1059
2 - TB-1049	7 - TB-1054	12 - TB-1060
3 - TB-1050	8 - TB-1055	13 - TB-1061
4 - TB-1051	9 - TB-1056	
5 - TB-1052	10 - TB-1057	

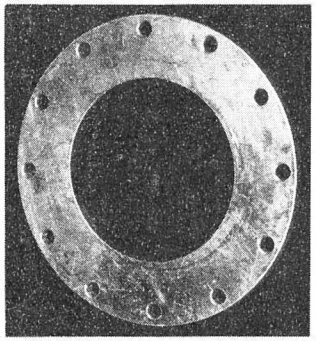


PHOTO 33 (SEE DESCRIPTION PAGE 12)
1 - TB-1022

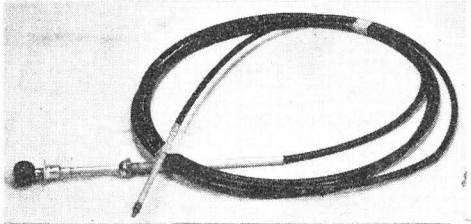


PHOTO 37 (SEE DESCRIPTION PAGE 11)
1 - TB-1016

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	MUFFLER, UNDERWATER ASSEMBLY, (Continued)															
12	Screw, butterfly, brass, 10-24 x 1" F.H.	TB-1029	2602-7BB	484552	18	18	18	18							10	29
13	Nut, butterfly screw, 10-24, hex	TB-1030	2602-7BB	484552	18	18	18	18							11	29
14	Screw, butterfly lever, brass, round head, 1/4" NC 3/4"	TB-1031	2602-7BB	484552	6	6	6	6							12	29
15	Pin, clevis, brass, 1/4" dia.	TB-1032	2602-7BB	484552	6	6	6	6							13	29
16	Pin, cotter, brass, 1/16" x 1"	TB-1040	2602-7BB	484552	6	6	6	6							14	29
17	Screw, brass, muffler fastening, 5/16" N.C. 3-1/2" F.H.	TB-1043	2602-7BB	484552	132	132	132	132								
18	Screw, brass, muffler fastening, 5/16" N.C. x 5-1/2"	TB-1044	2602-7BB	484552	42	42	42	42								
19	Nuts, muffler, fastening screw, elastic stop	TB-1045	2602-7BB	484552	174	174	174	174								
20	Controls, Arens, Muffler Butterfly type LF375-PB - 18'-10" long, 4-1/2" travel	TB-1016			2	2	2	2								
21	Controls, Arens, Muffler Butterfly type LF375-PB - 5'-7" long, 4-1/2" travel	TB-1017			4	4	4	4								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	EXHAUST, PROPULSION ENGINES															
1	Exhaust, propulsion engines complete		2602-7LL	553562	1	1	1	1								
2	Exhaust, port propulsion engine, port bank	TB-1006	2602-7LL	553562	1	1	1	1							1	31
3	Exhaust, port propulsion engine, stbd. bank	TB-1005	2602-7LL	553562	1	1	1	1							2	31
4	Exhaust, stbd. propulsion engine, port bank	TB-1002	2602-7LL	553562	1	1	1	1							3	31
5	Exhaust, stbd. propulsion engine, stbd. bank	TB-1001	2602-7LL	553562	1	1	1	1							4	31
6	Exhaust, center propulsion engine, port bank	TB-1004	2602-7LL	553562	1	1	1	1							5	31
7	Exhaust, center propulsion engine, stbd. bank	TB-1003	2602-7LL	553562	1	1	1	1							6	31
8	Elbows, rubber, exhaust covering 60° - 24 R - 6" ID	TB-1018	2602-7LL	553562	6	6	6	6								
9	Elbows, rubber, exhaust covering 90° - 24 R - 6" ID	TB-1019	2602-7LL	553562	6	6	6	6								
10	Elbows, rubber, exhaust covering 90 - 24 R - 6-1/8" ID	TB-1020	2602-7LL	553562	6	6	6	6								
11	Clamp, hose, galvanized, Punch-lok #OH-28	TB-3101	2602-7LL	553562	36	36	36	36							1	36

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254	PT 265-313	PT 450-485					Figure No.	Photo No.
	EXHAUST, PROPULSION ENGINES (Continued)													
12	Clamp, hose, galvanized, double bolt, King #675	TB-1008	2602-7LL	553562	12	12	12	12					1	34
13	Hose, exhaust, neoprene outside jacket, 6" ID x 6 ply x 12" long	TB-3020	2602-7LL	553562	6	6	6	6						
14	Flange, exhaust, pipe engine end, cast bronze, Pattern T-24	TB-1046	2602-7LL	553562	6	6	6	6						
15	Couplings, exhaust hose, cast brass, Pattern T-45 x 4-1/2"	TB-1021	2602-7LL	553562	6	6	6	6						
16	Couplings, exhaust hose, cast brass, Pattern T-45A x 3"	TB-1047	2602-7LL	553562	12	12	12	12						
17	Gaskets, exhaust, 1/16", #900 Garlock	TB-1007	2602-7LL	553562	12	12	12	12					1	32
18	Gaskets, exhaust, 1/8", #900 Garlock	TB-1025	2602-7LL	553562	12	12	12	12					2	32
19	Spacer, aluminum, 3/8"	TB-1022	2602-7LL	553562	6	6	6	6					1	33
20	Spacer, aluminum	TB-1042	2602-7LL	553562	6	6	6	6						

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254	PT 265-313	PT 450-485					Figure No.	Photo No.
	EXHAUST PIPE STANCHION													
1	Exhaust pipe saddle, Pattern T-61	TB-1048	2602-7EE		12	12	12	12					1	35
2	Pipe, exhaust stanchion	TB-1049	2602-7EE		12	12	12	12					2	35
3	Rod, end	TB-1050	2602-7EE		12	12	12	12					3	35
4	Bushing	TB-1051	2602-7EE		12	12	12	12					4	35
5	Nut, 3/4"-16NF	TB-1052	2602-7EE		12	12	12	12					5	35
6	Bolt, hex head, 3/8" NC	TB-1053	2602-7EE		12	12	12	12					6	35
7	Lock washer, 3/8" standard	TB-1054	2602-7EE		12	12	12	12					7	35
8	Nut, 3/8" NC	TB-1055	2602-7EE		12	12	12	12					8	35
9	Taper pins, #3 x 1"	TB-1056	2602-7EE		48	48	48	48					9	35
10	Nut, elastic stop, #29TU066	TB-1057	2602-7EE		12	12	12	12					10	35
11	Felt, 1/2", white	TB-1058	2602-7EE		12'	12'	12'	12'						
12	Vibro Insulators, type 60	TB-1059	2602-7EE		12	12	12	12					11	35
13	Angle Bracket	TB-1060	2602-7EE		8	8	8	8					12	35
14	Stanchion bracket	TB-1061	2602-7EE		2	2	2	2					13	35

PHOTO 38 (SEE DESCRIPTION PAGE 16)
1 - TB-4035

PHOTO 39 (SEE DESCRIPTION PAGE 15)
1 - TB-4034

PHOTO 40 (SEE DESCRIPTION PAGE 15)
1 - TB-4004

PHOTO 41 (SEE DESCRIPTION PAGE 15)
1 - TB-4005

PHOTO 42 (SEE DESCRIPTION PAGE 15)
1 - TB-4002

PHOTO 43 (SEE DESCRIPTION PAGE 15)
1 - TB-4032

PHOTO 45 (SEE DESCRIPTION PAGE 16)
1 - TB-4057

PHOTO 46 (SEE DESCRIPTION PAGE 15)
1 - TB-4031

PHOTO 47 (SEE DESCRIPTION PAGE 15)
1 - TB-4000

PHOTO 44 (SEE DESCRIPTION PAGES 17&18)
1 - TB-4003-2 1/4" 1 - TB-4033-2"

PHOTO 49 (SEE DESCRIPTION PAGE 18)
1 - TB-4036

PHOTO 48 (SEE DESCRIPTION PAGE 18)
1 - TB-4006

PHOTO 50 (SEE DESCRIPTION PAGE 17)
1 - TB-4059 2 - 4614 3 - 4615

PHOTO 52 (SEE DESCRIPTION PAGE 16)
1 - TB-4010

PHOTO 53 (SEE DESCRIPTION PAGE 16)
1 - TB-4008

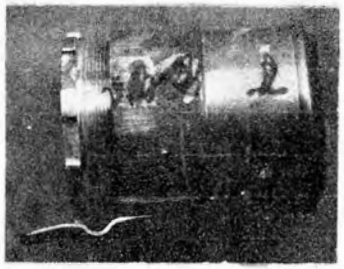


PHOTO 54 (SEE DESCRIPTION PAGE 17)
1 - TB-4040

PHOTO 55 (SEE DESCRIPTION PAGE 16)
1 - TB-4007

PHOTO 56 (SEE DESCRIPTION PAGE 17)
1 - TB-4063

PHOTO 57 (SEE DESCRIPTION PAGE 17)
1 - TB-4009

PHOTO 58 (SEE DESCRIPTION PAGE 16)
1 - TB-4011

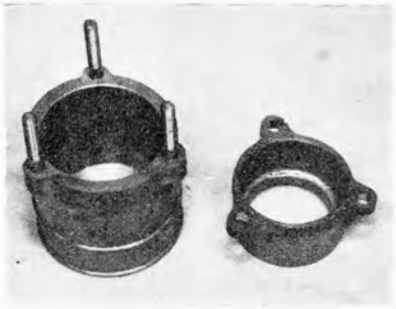


PHOTO 61 (SEE DESCRIPTION PAGE 17)
1 - TB-4013

PHOTO 59 (SEE DESCRIPTION PAGE 16)
1 - TB-4039

PHOTO 60 (SEE DESCRIPTION PAGE 16)
1 - TB-4037

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-214	PT 229-245	PT 215-228	PT 246-254	PT 265-513	PT 450-485			Figure No.	Photo No.
	UNDERWATER GEAR														
1	Strut, Port intermediate, cast manganese bronze, Pattern T-3 (2-1/4" x 5-5/8" x 9")	TB-4000	2602-7FF	484563	1	1	1							1	47
2	Strut, Stbd. intermediate, cast manganese bronze, Pattern T-3 (2-1/4" x 5-5/8" x 9")	TB-4000	2602-7FF	484563	1	1	1							1	47
3	Strut, Port intermediate, cast manganese bronze, Pattern T-86 (2-1/4" x 5-5/8" x 9")	TB-4001	2602-250					1	1						
4	Strut, Stbd. intermediate, cast manganese bronze, Pattern T-86 (2-1/4" x 5-5/8" x 9")	TB-4001	2602-250					1	1						
5	Strut, Port intermediate, cast manganese bronze, Pattern T-93 (2" x 2-5/8" x 8")	TB-4051	2602-7NN	603298						1	1			1	46
6	Strut, Stbd. intermediate, cast manganese bronze, Pattern T-93 (2" x 2-5/8" x 8")	TB-4051	2602-7NN	603298						1	1			1	46
7	Bearing, Keel, cast manganese bronze, Pattern T-85, (2-1/4" x 5-5/8" x 9")	TB-4002	2602-250					1	1					1	42

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-214	PT 229-245	PT 215-228	PT 246-254	PT 265-513	PT 450-485			Figure No.	Photo No.
	UNDERWATER GEAR (Continued) Fwd. Strut														
8	Bearing, Port intermediate, cast manganese bronze, Pattern T-94 (2" x 2-5/8" x 8")	TB-4052	2602-7NN	603298						1	1			1	45
9	Bearing, Stbd. intermediate, cast manganese bronze, Pattern T-94 (2" x 2-5/8" x 9")	TB-4052	2602-7NN	603298						1	1			1	45
10	Strut, Port, main, cast manganese bronze, Pattern T-8 (2-1/4" x 5-5/8" x 9")	TB-4004	2602-7FF	484563	1	1	1	1	1					1	40
11	Strut, Stbd., main, cast manganese bronze, Pattern T-8 (2-1/4" x 5-5/8" x 9")	TB-4004	2602-7FF	484563	1	1	1	1	1					1	40
12	Strut, Port, main, cast manganese bronze, Pattern T-92 (2" x 2-5/8" x 8")	TB-4054	2602-7QQ	603299						1	1			1	39
13	Strut, Stbd., main, cast manganese bronze, Pattern T-92 (2" x 2-5/8" x 8")	TB-4054	2602-7QQ	603299						1	1			1	39
14	Strut, Center, main, cast manganese bronze, Pattern T-7 (2-1/4" x 5-5/8" x 9")	TB-4005	2602-7FF	484563	1	1	1	1	1					1	41

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-214	PT 229-245	PT 215-228	PT 246-254	PT 265-313	PT 450-485			Figure No.	Photo No.
	UNDERWATER GEAR (Continued)														
15	Strut, Center, main, cast manganese bronze, Pattern T-89 (2" x 2-5/8" x 8")	TB-4035	2602-7PP	603300						1	1			1	38
16	Strut, Center, intermediate, cast manganese bronze, Pattern T-90 (2" x 2-5/8" x 8")	TB-4057								1	1			1	45
17	Shaftlog, Center, cast brass for 2-1/4" shaft, Pattern T-5 (Seal Pattern T-65) complete	TB-4007	2602-7P		1	1	1							1	55
18	Shaftlog, Center, cast brass for 2-1/4" shaft, Pattern T-98 (Seal Pattern T-68A & B) complete	TB-4008	2602-7XX					1	1					1	53
19	Shaftlog, Center, cast brass for 2" shaft, Pattern T-91 (Seal Pattern T-96) complete	TB-4037	2602-7NN	603298						1	1			1	60
20	Shaftlog, Port wing, cast brass for 2-1/4" shaft, Pattern T-4 (Seal Pattern T-65) complete	TB-4010	2602-7VV		1	1	1							1	52
21	Shaftlog, Stbd. wing, cast brass for 2-1/4" shaft, Pattern T-4 (Seal Pattern T-65) complete	TB-4010	2602-7VV		1	1	1							1	52

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-214	PT 229-245	PT 215-228	PT 246-254	PT 265-515	PT 450-485			Figure No.	Photo No.
	UNDERWATER GEAR (Continued)														
22	Shaftlog, Port wing, cast brass for 2-1/4" shaft, Pattern T-99 (Seal Pattern T-68A & B) complete	TB-4011	2602-7XX					1	1					1	58
23	Shaftlog, Stbd. wing, cast brass for 2-1/4" shaft, Pattern T-99 (Seal Pattern T-68A & B) complete	TB-4011	2602-7XX					1	1					1	58
24	Shaftlog, Port wing, cast brass for 2" shaft, Pattern T-100 (Seal Pattern T-96) complete	TB-4039	2602-7NN	603298						1	1			1	59
25	Shaftlog, Stbd. wing, cast brass for 2" shaft, Pattern T-100 (Seal Pattern T-96) complete	TB-4039	2602-7NN	603298						1	1			1	59
26	Shaft, main propulsion center, monel, 2-1/4" x 16' - 10-5/8"	TB-4107			1	1	1	1	1						
27	Shaft, main propulsion wing, monel, 2-1/4" x 25'-4-5/8"	TB-4108			2	2	2	2	2						
28	Shaft, main propulsion center, monel, 2" x 16'-8-7/8"	TB-4104								1	1				

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-214	PT 229-245	PT 215-228	PT 246-254	PT 265-313	PT 450-485			Figure No.	Photo No.
	UNDERWATER GEAR (Continued)														
29	Shaft, main propulsion wing, monel, 2" x 25'-2-7/8"	TB-4105								2	2				
30	Nut, 1-1/4" 12 NF-3, propeller end, 2" or 2-1/4" propeller shaft	4614			3	3	3	3	3	3	3			2	50
31	Nut, lock, 1-1/4" 12 NF-3, propeller end, 2" or 2-1/4" propeller shaft	4615			3	3	3	3	3	3	3			3	50
34	Nut, castillated propeller shaft engine end, 1-1/4" 12 NF-3	TB-4059			3	3	3	3	3	3	3			1	50
36	Key, brass, propeller shaft, propeller end, 9/16" x 9/16" x 8"	TB-4028			3	3	3	3	3						
37	Key, brass, propeller shaft, propeller end, 1/2" x 11/32" x 5"	TB-4050								3	3				
38	Key, brass, propeller shaft, engine end, 9/16" x 9/16" x 5-1/2"	TB-4029			3	3	3	3	3						

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-214	PT 229-245	PT 215-228	PT 246-254	PT 265-313	PT 450-485			Figure No.	Photo No.
	UNDERWATER GEAR (Continued)														
39	Key, brass, propeller shaft, engine end, 1/2" x 11/32" x 5"	TB-4051								3	3				
40	Cotter pin, brass, propeller shaft, engine end, 1/4" x 2-3/4"	TB-4061			3	3	3	3	3	3	3				
41	Cotter pin, monel, propeller shaft, propeller end, 1/4" x 2-3/4"	TB-4062			3	3	3	3	3	3	3				
42	Bulkhead seal, galvanized, 2-1/4"	TB-4009			1	1	1	1	1					1	57
42A	Bulkhead seal, galvanized, 2"	TB-4038			1	1	1	1	1						
43	Gland, stuffing, bulkhead seal, Pattern T-65	TB-4063			1	1	1							1	56
44	Gland, stuffing, shaftlog, Pattern T-11A & B	TB-4013	2602-7VV		3	3	3							1	61
45	Gland, stuffing, shaftlog and shaft seal, Pattern T-96	TB-4040	2602-7NN							4	4			1	54
46	Gland, stuffing, shaftlog, Pattern T-68A & B	TB-4012	2602-7SS					4	4						
47	Bearings, Goodrich cutless rubber (2-1/4" x 3-3/8" x 9")	TB-4003			8	8	8	6	6					1	44

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 71-94	PT 197-214	PT 229-245	PT 215-228	PT 246-254	PT 265-313	PT 450-485				
	UNDERWATER GEAR (Continued)														
48	Bearings, Goodrich cutless rubber (2" x 2-5/8" x 9")	TB-4033								9	9			1	44
49	Bearings, Steady rest, Dodge Timken, S-1 expansion double interlock, 2-1/4"	TB-4006			2	2	2	3	3					1	48
50	Bearings, Steady rest, Dodge Timken, S-1 expansion double interlock, 2"	TB-4036								3	3			1	49
51	Screws, set, rubber bearing, cone point, 3/8" x 1/2", USS monel	TB-4030			16	16	16	12	12	18	18				
52	Hose, shaftlog coupling, 5 ply x 4" ID x 6"	TB-3017			3	3	3	3	3						
53	Hose, shaftlog coupling, 5 ply x 3-1/2" ID x 6"	TB-3016								3	3				
54	Clamps, shaftlog hose for 4", 5 ply hose	TB-3105			6	6	6	6	6						
55	Clamps, shaftlog hose for 3-1/2", 5 ply hose	TB-3104								6	6				

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 71-94	PT 197-214	PT 229-245	PT 215-228	PT 246-254	PT 265-313	PT 450-485				
	SHAFTLOG AND STRUT FASTENINGS														
1	Bolts, intermediate wing strut, monel countersunk head, 5/8" x 5-1/2"	TB-4015			16	16	16	16	16	16	16				
2	Nuts, monel for Item 1, 5/8"	TB-4015A			32	32	32	32	32	32	32				
3	Bolts, main wing strut, monel countersunk head, 5/8" x 6"	TB-4017			20	20	20	20	20	20	20				
4	Nuts, monel for Item 3, 5/8"	TB-4017A			40	40	40	40	40	40	40				
5	Bolts, main center strut, monel countersunk head, 5/8" x 7-1/2"	TB-4016			10	10	10	10	10	10	10				
6	Nuts, monel for Item 5	TB-4016A			20	20	20	20	20	20	20				
7	Bolts, center shaftlog, monel countersunk head, 3/8" x 7"	TB-4021			30	30	30								
8	Nuts, monel for Item 7, 3/8"	TB-4021A			30	30	30								
9	Screws, center shaftlog, Everdur bronze flathead wood, 2-1/2", #16	TB-4025			3	3	3								
10	Bolts, wing shaftlogs, monel countersunk head, 3/8" x 5-1/2"	TB-4020			64	64	64								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 71-94	PT 197-214	PT 229-245	PT 215-228	PT 246-254	PT 255-313	PT 450-485				
	SHAFTLOG AND STRUT FASTENINGS (Continued)														
11	Nuts, monel for Item 10, 5/8"	TB-4020A			64	64	64								
12	Screws, wing shaftlog, Everdur bronze flathead wood, 2-1/2", #16	TB-4025			6	6	6								
13	Bolts, wing shaftlog, carriage, monel, 1/4" x 3-1/2"	TB-4058						60	60	60	60				
14	Nuts, monel for Item 13, 1/4"	TB-4058A						60	60	60	60				
15	Bolts, center shaftlog carriage, monel, 5/16" x 6"	TB-4024						25	25	25	25				
16	Nuts, monel for Item 15, 5/16"	TB-4024A						25	25	25	25				
17	Flange, Reverse Gear (Packard)	A-58898			3	3	3	3	3	3	3				
18	Flange, 2-1/4" Reverse Gear to propeller shafting adapting	A-61536			3	3	3	3	3						

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 71-94	PT 197-214	PT 229-245	PT 215-228	PT 246-254	PT 255-313	PT 450-485				
	SHAFTLOG AND STRUT FASTENINGS (Continued)														
19	Flange, 2" Reverse Gear to propeller shafting adapting	A-63257								3	3				
20	Bolts, 7/16"-20 x 5/16" Reverse Gear propeller flange adapter bolts	A-61231			24	24	24	24	24	24	24				
21	Nuts, 7/16"-20 slotted Reverse Gear propeller flange bolt	A-1315			24	24	24	24	24	24	24				
22	Pin, cotter, 3/32" Reverse Gear propeller Flange adapting	A-1180			24	24	24	24	24	24	24				

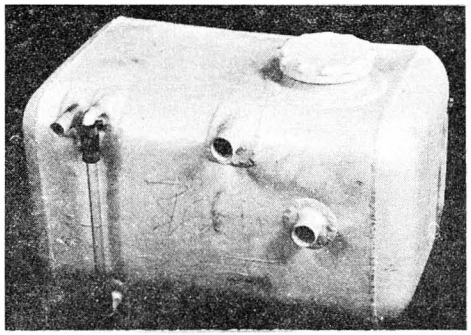


PHOTO 62

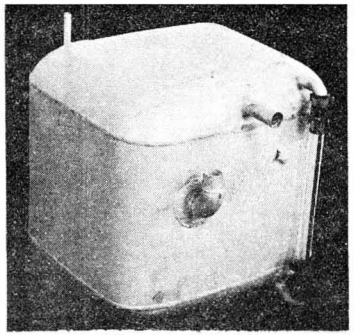


PHOTO 63

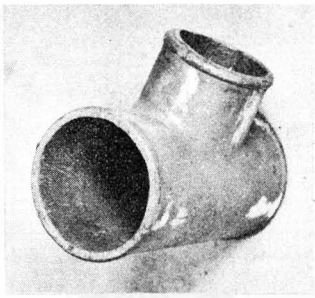


PHOTO 64

PHOTO	SEE DESCRIPTION PAGE	PART NUMBER
62	23	1 - TB-1119
63	24	1 - TB-1122
64	23	1 - TB-1100
65	25	1 - TB-1132
66	27	1 - TB-1186
67	23	1 - TB-1129
68	23	(1 - TB-1106-3¼"
		(1 - TB-1107-3-3/4"
69	23	1 - TB-1109
70	25	1 - TB-1134
71	25	1 - TB-1135
72	25	1 - TB-1130
73		1 - TB-
74	23	1 - TB-1110
75	25	1 - TB-1133
76	24	1 - TB-1101
77	23	1 - TB-1104
78	25	1 - TB-1131
79	24	1 - TB-1103
80	27	(1 - TB-1184
		(2 - TB-1185

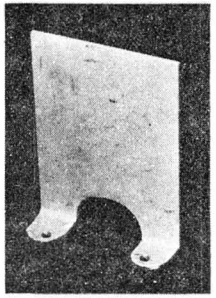


PHOTO 65

PHOTO 66

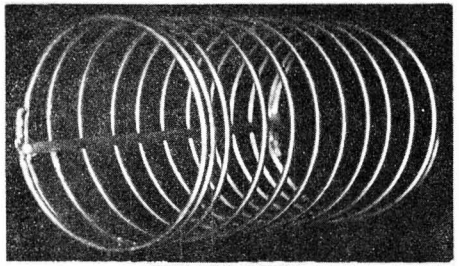


PHOTO 67

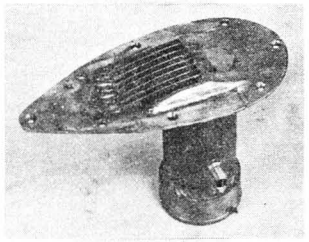


PHOTO 69

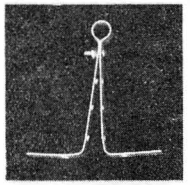


PHOTO 70

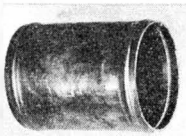


PHOTO 71

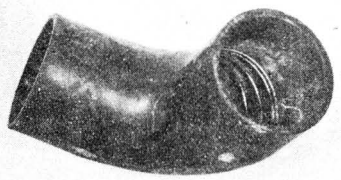


PHOTO 68

PHOTO 75

PHOTO 76

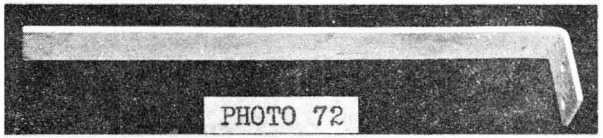


PHOTO 72

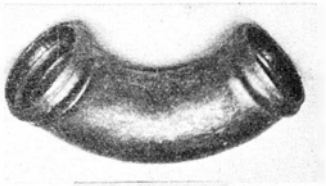


PHOTO 73

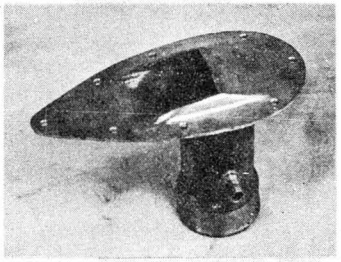


PHOTO 74

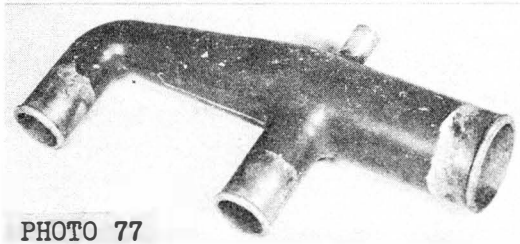


PHOTO 77

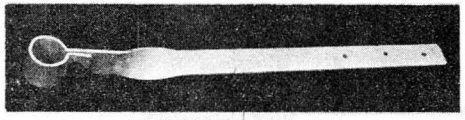


PHOTO 78

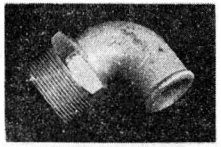


PHOTO 79

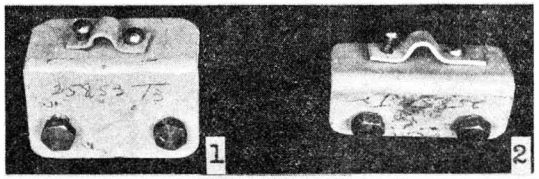


PHOTO 80

PHOTO 80A (SEE DESCRIPTION PAGE 26)
TB-1151

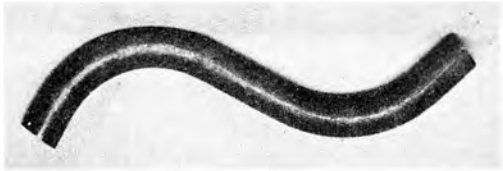


PHOTO 80B (SEE DESCRIPTION PAGE 26)
TB-1156

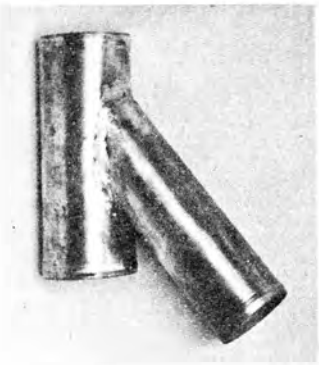


PHOTO 80C (SEE DESCRIPTION PAGE 23)
TB-1136

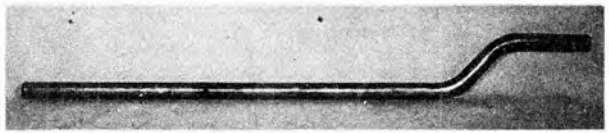


PHOTO 80E (SEE DESCRIPTION PAGE 26)
TB-1159

PHOTO 80F (SEE DESCRIPTION PAGE 27)
TB-1173

PHOTO 80G (SEE DESCRIPTION PAGE 26)
TB-1165

PHOTO 80D (SEE DESCRIPTION PAGE 26)
TB-1157

PHOTO 80H (SEE DESCRIPTION PAGE 26)
TB-1167

PHOTO 80J (SEE DESCRIPTION PAGE 27)
TB-1171

PHOTO 80K (SEE DESCRIPTION PAGE 26)
TB-1162

PHOTO 80L (SEE DESCRIPTION PAGE 25)
TB-1147

PHOTO 80M (SEE DESCRIPTION PAGE 26)
TB-1161

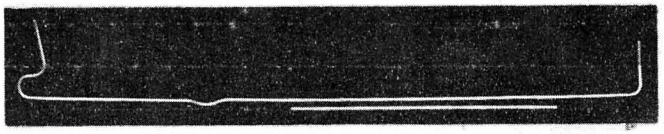


PHOTO 80N (SEE DESCRIPTION PAGE 27)
TB-1168

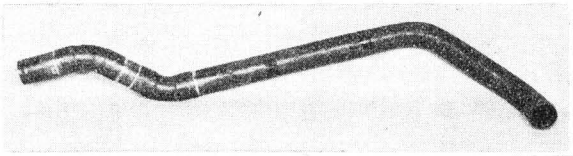


PHOTO 80P (SEE DESCRIPTION PAGE 25)
TB-1146

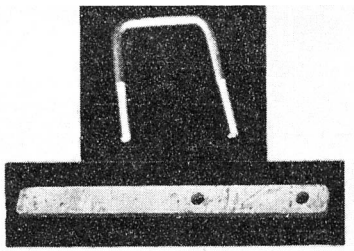


PHOTO 80Q (SEE DESCRIPTION PAGE 27)
TB-1177

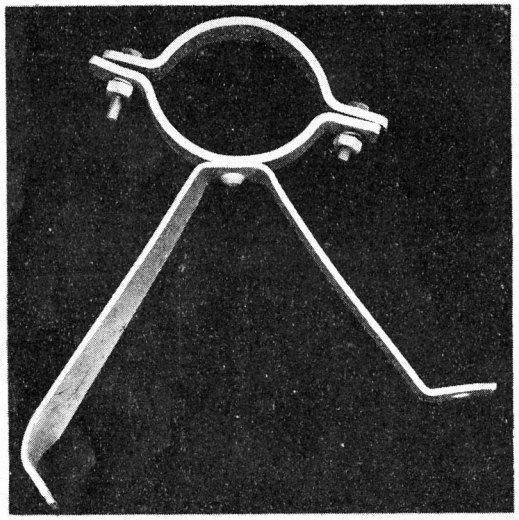


PHOTO 80R (SEE DESCRIPTION PAGE 27)
TB-1182

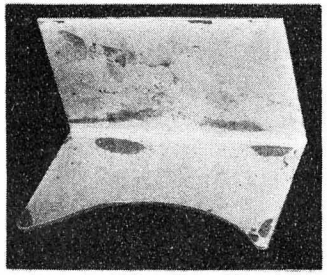


PHOTO 80S (SEE DESCRIPTION PAGE 27)
TB-1180

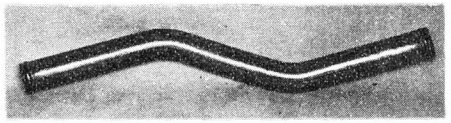


PHOTO 80U (SEE DESCRIPTION PAGE 26)
TB-1160

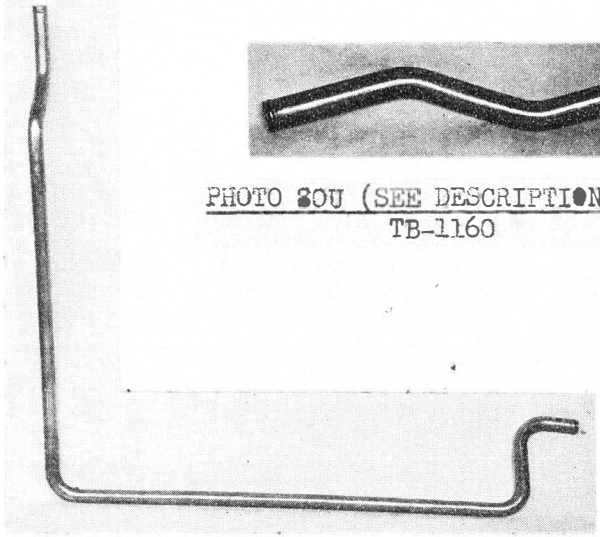


PHOTO 80T (SEE DESCRIPTION PAGE 25)
TB-1143

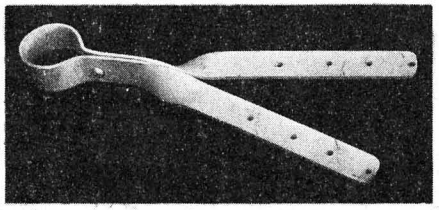


PHOTO 80V (SEE DESCRIPTION PAGE 27)
TB-1178

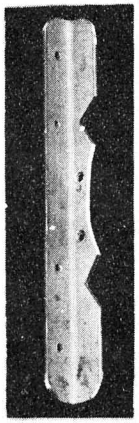


PHOTO 80W (SEE DESCRIPTION PAGE 27)
TB-1179

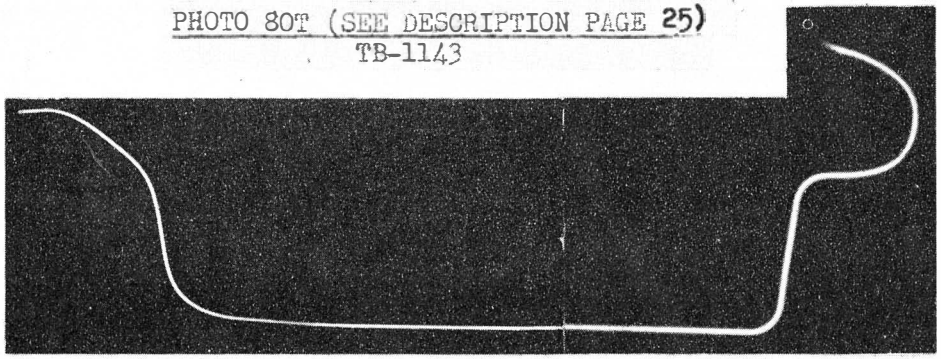


PHOTO 80X (SEE DESCRIPTION PAGE 26)
TB-1164

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	ENGINE PIPING															
1	Ell, rubber moulded Hycar complete with spring wire insert, 3-1/4" - 90°	TB-1106	2602-7JJ	553553	12	12	12	12							1	68
1A	Insert, spring wire rubber ell	TB-1129	2602-7JJ	553553	12	12	12	12							1	67
2	Exchanger, Heat, Harrison #HE12522H301, Navy furnished	A-64087	2602-7JJ	553553	3	3	3	3								
3	Thermostat, fresh water by-pass, Navy furnished	A-61748	2602-7JJ	553553	3	3	3	3								
4	Manifold, water, cast aluminum, Pattern T-9	TB-1104	2602-7S		3	3	3	3							1	77
5	Tee, cast aluminum, Pattern T-22, 3-1/4" x 3-1/4" x 2-1/2"	TB-1100	2602-7S		2	2									1	64
5A	Branch Y, copper, 3-1/4" x 3-1/4" x 2-1/2"	TB-1136	2602-7EEE	603269			2	2							1	80C
6	Hose, radiator, 3-1/4" ID	TB-3018	2602-7JJ	553553	3'	3'	3'	3'								
7	Hose, radiator, 2-3/8" ID	TB-1137	2602-7JJ	553553	2'	2'	2'	2'								
8	Hose, radiator, 1" ID	TB-1138	2602-7JJ	553553	2'	2'	2'	2'								
9	Hose, radiator, 2" ID	TB-3013	2602-7JJ	553553	3'	3'	3'	3'								
10	Tubing, aluminum, 1" OD	TB-2913	2602-7JJ	553553	27'	27'	27'	27'								

ITEM NO.	NOMENCLATURE	PART NC.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	ENGINE PIPING (Continued)															
11	Tubing, copper, 3-1/8" OD	TB-2911	2602-7JJ	553553	18'	18'	18'	18'								
12	Tubing, copper, 2-5/8" OD	TB-2910	2602-7JJ	553553	6'	6'	6'	6'								
13	Clamps, stainless, hose Actus adjustable	TB-3100	2602-7JJ	553553	266	266	266	266								
14	Tubing, copper, 1-3/8" OD	TB-2907	2602-7JJ	553553	25'	25'	25'	25'								
15	Ells, rubber, moulded, 3-3/4" ID 90° complete with spring wire insert	TB-1107	2602-7JJ	553553	6	6	6	6							1	68
16	Hose, radiator, 1-3/8"	TB-3008	2602-7JJ	553553	3'	3'	3'	3'								
17	Ell, male, cast brass, 3/8" sweat copper, 1/2" SPS-C409	TB-1108	2602-7JJ	553553	2	2	2	2								
18	Scoop, inlet, cast brass, 3-3/4", Pattern T-69, complete with strainer	TB-1109	2602-7S		3	3	3	3							1	69
19	Scoop, outlet, cast brass, 3-3/4", Pattern T-69	TB-1110	2602-7JJ	553553	3	3	3	3							1	74
20	Filter, oil intake, Navy furnished	A-61819	2602-7JJ	553553	3	3	3	3								
21	Tank, oil sump, aluminum, port, 30 gal.	TB-1119	2602-7N	484512	2	2	2	2							1	62
21A	Tank, oil sump, aluminum, stbd., 30 gal.	TB-1181			1	1	1	1							1	62

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	ENGINE PIPING (Continued)														
22	Hose, radiator, 3-3/4" ID	TB-3019	2602-7JJ	553553	5'	5'	5'	5'							
23	Hose, radiator, 2-1/8" ID	TB-3014	2602-7JJ	553553	4'	4'	4'	4'							
24	Tank, fresh water expansion, aluminum, 15 gal.	TB-1122	2602-7N	484512	3	3	3	3						1	63
25	Tubing, copper, 2-1/8" OD	TB-2909	2602-7JJ	553553	18'	18'	18'	18'							
26	Filter, oil outlet (Packard)	A-61533	2602-7JJ	553553	3	3	3	3							
27	Tubing, copper, 3-5/8" OD	TB-2912	2602-7JJ	553553	18'	18'	18'	18'							
28	Tubing, aluminum, 1/2" OD	TB-2914	2602-7JJ	553553	52'	52'	52'	52'							
29	Thermostat, oil by-pass (Packard)	A-62785	2602-7JJ	553553	3	3	3	3							
30	Hose, radiator, 1/2" ID	TB-3001	2602-7JJ	553553	3'	3'	3'	3'							
31	Adapter, cast aluminum, 1-1/2" hose, 1-1/2" SPS, Pattern T-19	TB-1101	2602-7JJ	553553	6	6	6	6						1	76
32	Exchanger, Heat, Harrison oil HE11522H302, Navy furnished	A-62586	2602-7JJ	553553	3	3	3	3							
33	Ell, adapting, 1-1/2" hose x 1-1/2" SPS 90°, cast aluminum, Pattern T-21	TB-1102	2602-7S	484518	3	3	3	3							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	ENGINE PIPING (Continued)														
34	Ell, adapting, 1-3/4" hose x 1-1/2" SPS, cast aluminum, Pattern T-21A	TB-1103	2602-7JJ	553553	3	3	3	3						1	79
35	Tubing, aluminum, 1-3/4" OD	TB-2916	2602-7JJ	553553	16'	16'	16'	16'							
36	Hose, oil, synthetic, 1-1/2" ID	TB-3009	2602-7JJ	553553	8'	8'	8'	8'							
37	Hose, oil, synthetic, 1-3/4" ID	TB-3011	2602-7JJ	553553	5'	5'	5'	5'							
38	Hose, oil, synthetic, 1" ID	TB-3007	2602-7JJ	553553	2'	2'	2'	2'							
39	Tee, 1-1/2" x 1-1/2", cast aluminum, Pattern T-20	TB-1111	2602-7S		3	3	3	3							
40	Tubing, aluminum, 1-1/2" OD	TB-2915	2602-7JJ	553553	20'	20'	20'	20'							
41	Tubing, aluminum, 1/4" OD	TB-5569	2602-7JJ	553553	42'	42'	42'	42'							
42	Nut, flare type, 1/4" tube	TB-1219	2602-7JJ	553553	3	3	3	3							
43	Ell, flare, 1/4" C x 1/4" SPS	TB-1113	2602-7JJ	553553	3	3	3	3							
44	Ell, copper tube, 2" - 90° #C407, sweat	TB-1114	2602-7JJ	553553	2	2	2	2							
45	Adapter, wrought #C404, 3/8" sweat x 3/8" SPS	TB-1115	2602-7JJ	553553	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					Pt 71-94	Pt 197-254	Pt 265-515	Pt 450-485								
	ENGINE PIPING (Continued)															
46	Sea water control lever bracket	TB-1130	2602-7JJ	553553	3	3	3	3							1	72
47	Bracket, fresh water line manifold to expansion tank	TB-1131	2602-7JJ	553553	2	2	2	2							1	78
48	Bracket, filter oil and gas	TB-1132	2602-7JJ	553553	9	9	9	9							1	65
49	Bracket, oil return line	TB-1133	2602-7JJ	553553	3	3	3	3							1	75
50	Bracket, fresh water return line	TB-1134	2602-7JJ	553553	3	3	3	3							1	70
51	Nipple, 3-1/2" water intake to cooler	TB-1135	2602-7JJ	553553	3	3	3	3							1	71
52	Cap fill fitting, oil sump tank	TB-1117	2602-7HHH	603277	3	3	3	3								
53	Flange fill fitting, oil sump tank	TB-1118	2602-7HHH	603277	3	3	3	3								
54	Cap cleanout fitting, oil sump tank and expansion tank	TB-1117	2602-7HHH	603277	6	6	6	6								
55	Flange cleanout fitting, oil sump tank and expansion tank	TB-1118	2602-7HHH	603277	6	6	6	6								
56	Fitting, sight gauge oil sump tank and expansion tank, T-27	TB-1121	2602-7HHH	603277	12	12	12	12								
57	Gauge, sight, oil sump tank and expansion, 3/4" glass Pyrex	TB-1120	2602-7HHH	603277	6	6	6	6								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					Pt 71-94	Pt 197-254	Pt 265-515	Pt 450-485								
	ENGINE PIPING (Continued)															
58	Hose, sight gauge connecting, 3/4" ID	TB-3003	2602-7HHH	603277	6'	6'	6'	6'								
59	Clamps, Actus st. steel sight gauge hose, oil sump and expansion tanks	TB-3100	2602-7HHH	603277	27	27	27	27								
60	Fill fitting, Pattern T-26, expansion tanks	TB-1123	2602-7HHH	603277	3	3	3	3								
61	Line, oil vent, port motor, section A, Higgins #554	TB-1141	2602-7EEE	603269	1	1	1	1								
62	Line, oil vent, port motor, section B, Higgins #555	TB-1142	2602-7EEE	603269	1	1	1	1								
63	Line, oil vent, center motor, Higgins #556	TB-1143	2602-7EEE	603269	1	1	1	1							1	80T
64	Line, oil vent, stbd. motor, Higgins #557	TB-1144	2602-7EEE	603269	1	1	1	1								
65	Line, oil strainer to motor inlet, port motor, Higgins #558	TB-1145	2602-7EEE	603269	1	1	1	1								
66	Line, oil strainer to motor inlet, center motor, Higgins #559	TB-1146	2602-7EEE	603269	1	1	1	1							1	80P
67	Line, oil strainer to motor inlet, stbd. motor, Higgins #560	TB-1147	2602-7EEE	603269	1	1	1	1							1	80L

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	ENGINE PIPING (Continued)															
68	Line, motor outlet to Purolator, port motor, Higgins #561	TB-1148	2602-7EEE	603269	1	1	1	1								
69	Line, thermostat to sump tank, port motor, Higgins #570	TB-1156	2602-7EEE	603269	1	1	1	1								80B
70	Line, thermostat to sump tank, center motor, Higgins #571	TB-1157	2602-7EEE	603269	1	1	1	1							1	80D
71	Line, thermostat to sump tank, stbd. motor, Higgins #572	TB-1158	2602-7EEE	603269	1	1	1	1								
72	Line, water discharge to exhaust pipe	TB-1159	2602-7EEE	603269	6	6	6	6							1	80E
73	Line, fresh water manifold to thermostat, wing motor	TB-1161	2602-7EEE	603269	2	2	2	2							1	80M
74	Line, fresh water manifold to thermostat, center motor	TB-1162	2602-7EEE	603269	1	1	1	1							1	80K
75	Line, fresh water supply, wing motor	TB-1163	2602-7EEE	603269	2	2	2	2								
76	Line, fresh water supply, center motor	TB-1164	2602-7EEE	603269	1	1	1	1							1	80X
77	Line, motor outlet to Purolator, stbd. motor, Higgins #563	TB-1149	2602-7EEE	603269	1	1	1	1								
78	Line, motor outlet to Purolator, center motor	TB-1160	2602-7EEE	603269	1	1	1	1							1	80U

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	ENGINE PIPING (Continued)															
79	Line, thermostat tee to bottom of oil cooler, port motor, Higgins #564	TB-1150	2602-7EEE	603269	1	1	1	1								
80	Line, thermostat tee to bottom of oil cooler, center motor, Higgins #565	TB-1151	2602-7EEE	603269	1	1	1	1								80A
81	Line, thermostat tee to bottom of oil cooler, stbd. motor, Higgins #566	TB-1152	2602-7EEE	603269	1	1	1	1								
82	Line, thermostat to top of oil cooler, port motor, Higgins #567	TB-1153	2602-7EEE	603269	1	1	1	1								
83	Line, thermostat to top of oil cooler, center motor, Higgins #568	TB-1154	2602-7EEE	603269	1	1	1	1								
84	Line, thermostat to top of oil cooler, stbd. motor, Higgins #569	TB-1155	2602-7EEE	603269	1	1	1	1								
85	Line, fresh water, expansion tank to manifold, stbd. motor	TB-1165	2602-7EEE	603269	1	1	1	1							1	80G
86	Line, fresh water, expansion tank to manifold, port motor	TB-1166	2602-7EEE	603269	1	1	1	1								
87	Line, fresh water, expansion tank to manifold, center motor	TB-1167	2602-7EEE	603269	1	1	1	1							1	80H

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	ENGINE PIPING (Continued)															
88	Line, expansion tank vent, Section A & B, center motor	TB-1168	2602-7EEE	603269	1	1	1	1							1	80N
89	Line, expansion tank vent, port motor	TB-1169	2602-7EEE	603269	1	1	1	1								
90	Line, expansion tank vent, stbd. motor	TB-1170	2602-7EEE	603269	1	1	1	1								
91	Line, fresh water thermostat to by-pass tee, wing motor	TB-1171	2602-7EEE	603269	2	2	2	2							1	80J
92	Line, fresh water thermostat to by-pass tee, center motor	TB-1172	2602-7EEE	603269	1	1	1	1								
93	Line, heat exchanger to salt water discharge scoop, center motor	TB-1173	2602-7EEE	603269	1	1	1	1							1	80F
94	Line, heat exchanger to salt water discharge scoop, wing motor	TB-1174	2602-7EEE	603269	2	2	2	2								
95	Line, intake scoop to heat exchanger, wing motor	TB-1175	2602-7EEE	603269	4	4	4	4								
96	Line, intake scoop to heat exchanger, center motor	TB-1176	2602-7EEE	603269	2	2	2	2								
97	Bracket, oil thermostat, wing motor	TB-1176A	2602-7EEE	603269	2	2	2	2								
98	Bracket, oil thermostat, center motor	TB-1177	2602-7EEE	603269	1	1	1	1							1	80Q

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	ENGINE PIPING (Continued)															
99	Bracket, salt water line support, heat exchanger to salt water pump	TB-1178	2602-7EEE	603269	5	5	5	5							1	80V
100	Bracket, heat exchanger	TB-1179	2602-7EEE	603269	4	4	4	4							1	80W
101	Bracket, oil cooler	TB-1180	2602-7EEE	603269	8	8	8	8							1	80S
102	Bracket, fresh water manifold	TB-1182	2602-7EEE	603269	1	1	1	1							1	80R
103	Bracket, Arens Controls, scoop	TB-1184			2	2	2	2							1	80
104	Bracket, Arens Controls, scoop	TB-1185			1	1	1	1							2	80
105	Bracket, panel, sea water and spark control	TB-1186			1	1	1	1							1	66

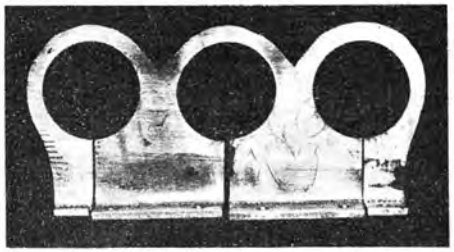


PHOTO 81 (SEE DESCRIPTION PAGE 34)
1 - TB-1269

PHOTO 82
(SEE DESCRIPTION PAGE 34)
1 - TB-1268

PHOTO 83
(SEE DESCRIPTION PAGE 34)
1 - TB-1267

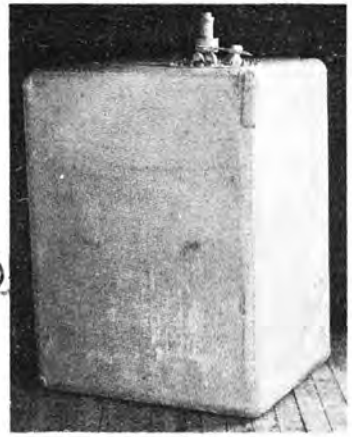


PHOTO 84 (SEE DESCRIPTION PAGE 31)
1 - TB-1202-Port 1 - TB-1201-Stbd.

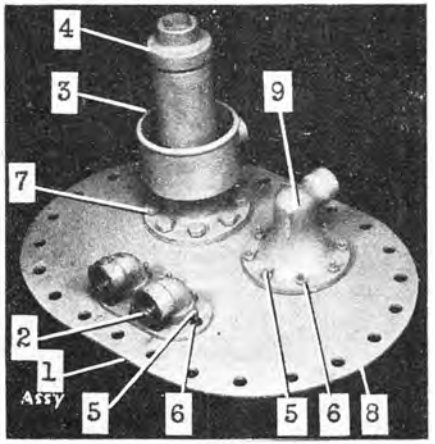


PHOTO 87 (SEE DESCRIPTION PAGES 31 and 33)

1 - TB-1253	4 - TB-1235	7 - TB-1275
2 - TB-1232	5 - TB-1273	8 - TB-1204
3 - TB-1234	6 - TB-1274	9 - TB-1233

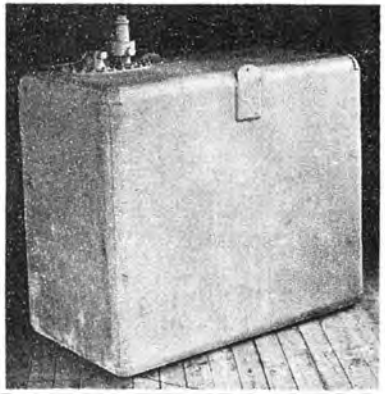


PHOTO 85 (SEE DESCRIPTION PAGE 31)
1 - TB-1200-Port 1 - TB-1203-Stbd.

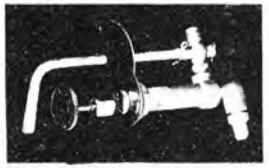


PHOTO 86 (SEE DESCRIPTION PAGE 32)
1 - TB-1227

PHOTO 88 (SEE DESCRIPTION PAGE 34)
1 - TB-1266

PHOTO 91 (SEE DESCRIPTION PAGE 33)
1 - TB- 1231

PHOTO 89 (SEE DESCRIPTION PAGE 34)
1 - TB-1247

PHOTO 90 (SEE DESCRIPTION PAGE 32)
1 - TB-1225

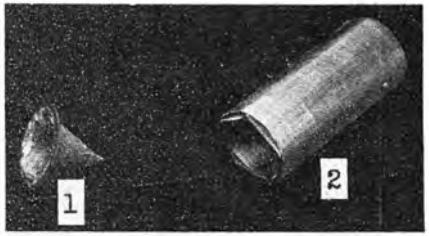


PHOTO 92 (SEE DESCRIPTION PAGE 33)
1 - TB-1254 2 - TB-1255

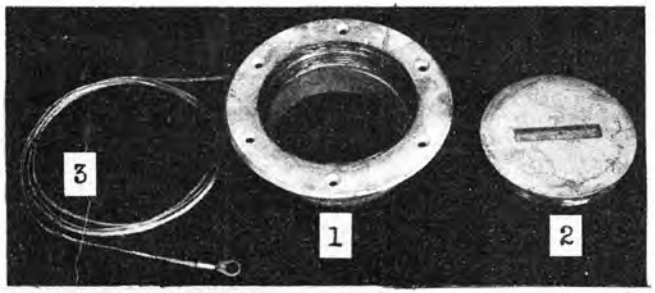


PHOTO 93 (SEE DESCRIPTION PAGES 31 and 33)
1 - TB-1237 2 - TB-1236 3 - TB-1272

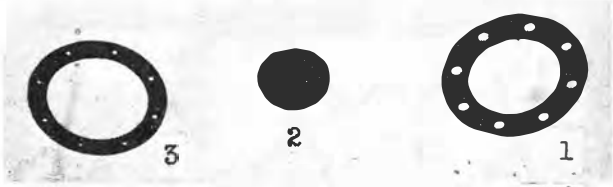


PHOTO 94 (SEE DESCRIPTION PAGE 33)
1 - TB-1241 2 - TB-1244 3 - TB-1242

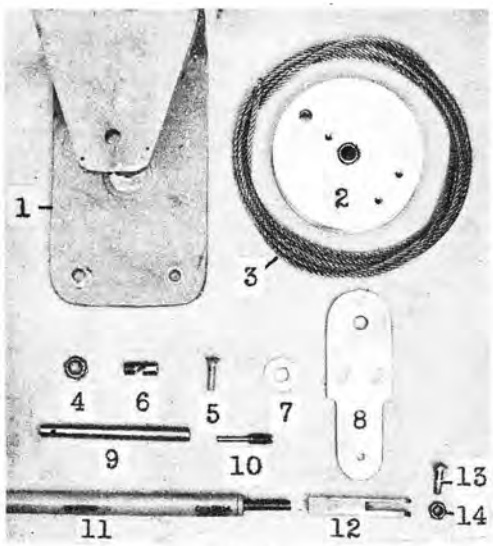


PHOTO 95

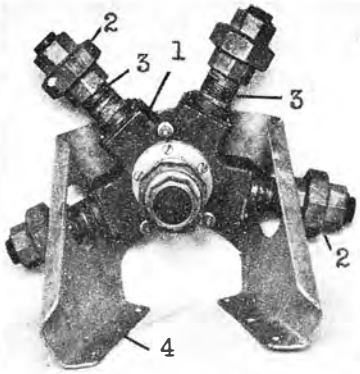


PHOTO 96

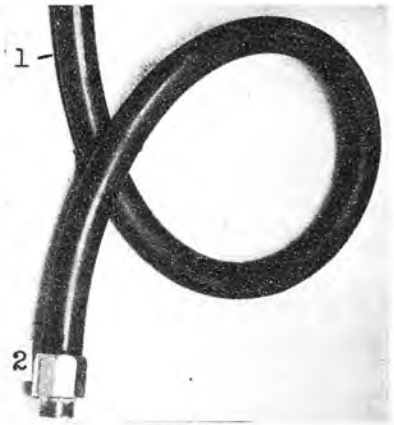


PHOTO 97

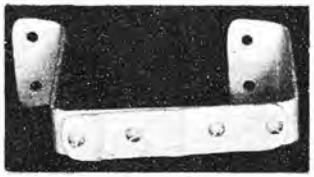


PHOTO 99

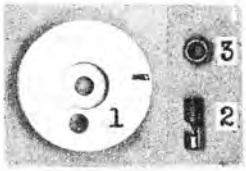


PHOTO 100

PHOTO 98

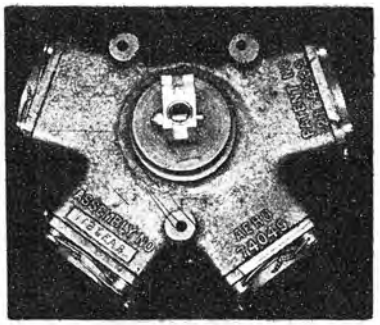


PHOTO 104

PHOTO 105

PHOTO 101

PHOTO 102

PHOTO 103

PHOTO 106

PHOTO 107

PHOTO 108

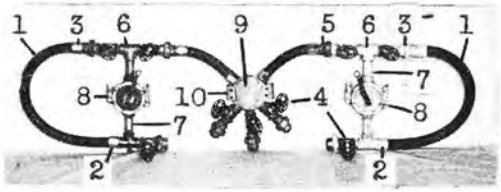


PHOTO 109

PHOTO 110

PHOTO 95 (SEE DESCRIPTION PAGES 38, 39 and 41)

1 - TB-1363	6 - TB-1370	11 - TB-4603
2 - TB-1364	7 - TB-1398	12 - TB-4604
3 - TB-1304	8 - TB-1369	13 - TB-4605
4 - 42E048	9 - TB-1372	14 - TB-4606
5 - TB-3313	10 - TB-1371	

PHOTO	SEE DESCRIPTION PAGE	PART NUMBER
96	31, 32 and 37	1 - TB-1212
		2 - TB-1209
		3 - TB-1220
		4 - TB-4608
97	31	1 - TB-1206
		2 - TB-1214
98	32	1 - TB-1246
99	41	1 - TB-4622
100	38 and 39	1 - TB-1366
		2 - TB-1370
		3 - 42E048
101	32	1 - TB-1250
102	41	1 - TB-4615
103	32	1 - TB-1270
104	31	1 - TB-1212
105	41	1 - TB-4619
106	41	1 - TB-4621
107	41	1 - TB-4620
108	31	1 - TB-1248

PHOTO 109 (SEE DESCRIPTION PAGES 31, 32 and 34)

1 - TB-1206	5 - TB-1220	9 - TB-1225
2 - TB-1214	6 - TB-1223	10 - TB-1266
3 - TB-1209	7 - TB-1251	
4 - TB-1222	8 - TB-1246	

PHOTO 110 (SEE DESCRIPTION PAGE 41)

1 - TB-4618

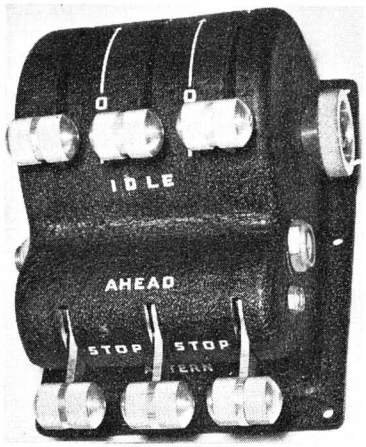
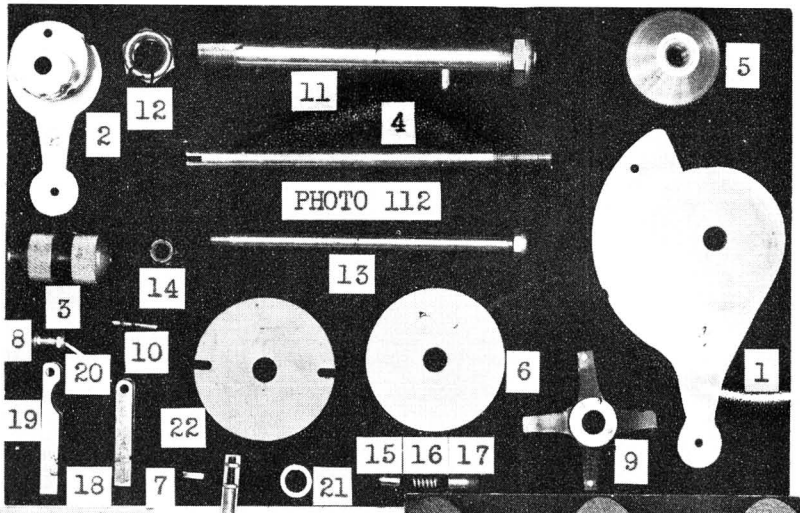
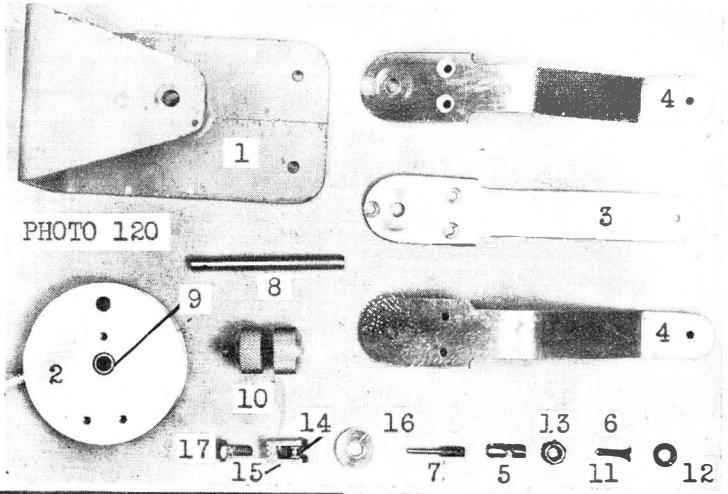
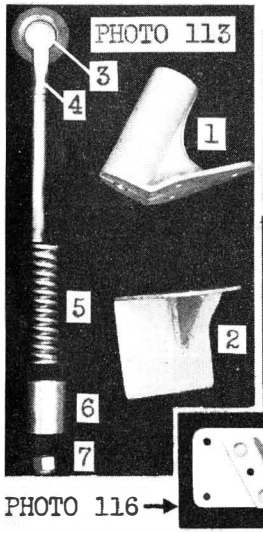
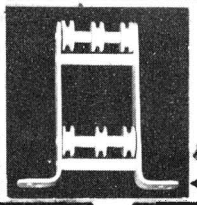


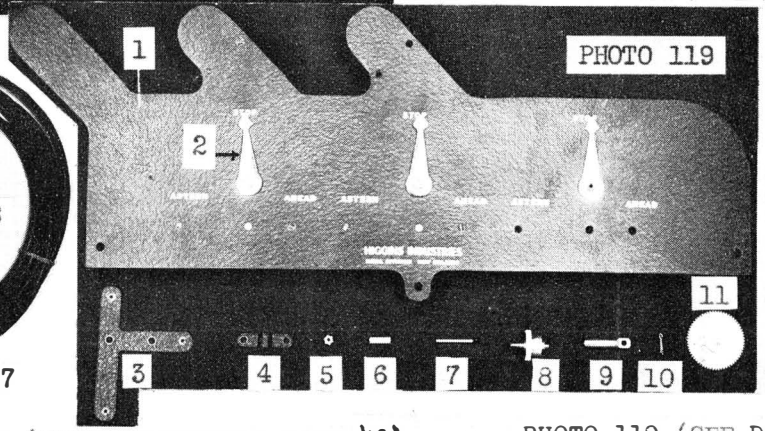
PHOTO 111

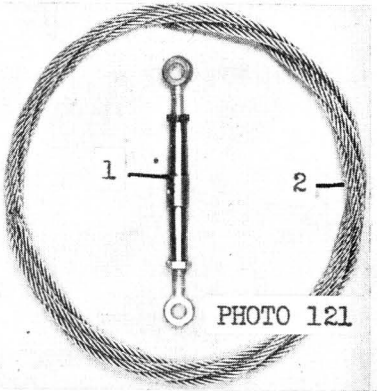












← PHOTO 115 PHOTO 117

PHOTO 116 →

PHOTO 111 (SEE DESCRIPTION PAGE 34)

1 - TB-1307

PHOTO 112 (SEE DESCRIPTION PAGES 34-36)

1 - TB-1319	8 - TB-1344	16 - TB-1309
2 - TB-1320	9 - TB-1308	17 - TB-1336
3 - TB-1321	10 - TB-1331	18 - TB-1337
4 - TB-1322	11 - TB-1332	19 - TB-1343
5 - TB-1323	12 - 42-TE-126	20 - 22TM02
6 - TB-1324	13 - TB-1327	21 - TB-1339
7 - TB-1325	14 - 42-TE-064	22 - TB-1347
	15 - TB-1335	

PHOTO 113 (SEE DESCRIPTION PAGE 40)

1 - TB-1305	3 - TB-1311	6 - TB-1391
2 - TB-4600	4 - TB-1392	7 - 42-EO-80
	5 - TB-1306	

PHOTO 114 (SEE DESCRIPTION PAGE 40)

1 - TB-4601

PHOTO 115 (SEE DESCRIPTION PAGE 39)

1 - TB-1399

PHOTO 116 (SEE DESCRIPTION PAGE 40)

1 - TB-1397

PHOTO 117 (SEE DESCRIPTION PAGE 40)

1 - TB-1395

PHOTO 118 (SEE DESCRIPTION PAGE 37)

1 - TB-1315 1 - TB-1316

PHOTO 119 (SEE DESCRIPTION PAGE 37)

1 - TB-1349	5 - 99TM02	8 - TB-1312
2 - TB-1356	6 - TB-1354	9 - TB-1357
3 - TB-1355	7 - TB-3314	10 - TB-1358
4 - TB-1360		11 - TB-1313

PHOTO 120 (SEE DESCRIPTION PAGES 38 and 39)

1 - TB-1365	7 - TB-1371	12 - TB-1375
2 - TB-1364	8 - TB-1372	13 - 42E048
3 - TB-1367	9 - B-59	14 - TB-1378
4 - TB-1368	10 - TB-1373	15 - TB-1379
5 - TB-1370	11 - TB-1374	16 - TB-1398
6 - TB-3313		17 - TB-3321

PHOTO 121 (SEE DESCRIPTION PAGE 39)

1 - TB-1302 2 - TB-1304

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	FUEL SYSTEM															
1	Tank, fuel Fwd. port, aluminum, 800 gal.	TB-1200	2602-7W	484533	1	1	1	1							1	85
2	Tank, fuel Fwd. stbd., aluminum, 800 gal.	TB-1201	2602-7W	484533	1	1	1	1							1	85
3	Tank, fuel Aft., port, aluminum, 700 gal.	TB-1202	2602-7W	484533	1	1	1	1							1	84
4	Tank, fuel Aft., stbd., aluminum, 700 gal.	TB-1203	2602-7W	484533	1	1	1	1							1	84
5	Cover, fuel tank manhole (700 and 800)	TB-1204	2602-7W	484533	4	4	4	4							8	87
6	Fill, fuel tank fitting (700 & 800) Pattern T-40	TB-1234	2602-7W	484533	4	4	4	4							3	87
6A	Cap, fuel tank fill fitting (700 & 800) Pattern T-41	TB-1235	2602-7W	484533	4	4	4	4							4	87
7	Vent, fuel tank fitting (700 & 800) Pattern T-39 complete with back-fire trap	TB-1233	2602-7W	484533	4	4	4	4							9	87
8	Outlet, fuel tank fitting (700 & 800) Pattern T-42	TB-1232	2602-7W	484533	4	4	4	4							2	87
9	Deck plate, fuel fill, Pattern T-63A	TB-1237	2602-7W	484533	4	4	4	4							1	93

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	FUEL SYSTEM (Continued)															
9A	Cap, fuel fill deck plate, Pattern T-63B	TB-1236	2602-7W	484533	4	4	4	4							2	93
10	Hose, fuel fill boot, 5" ID x 1/8" Wall, Hycar	TB-1207	2602-7W	484533	4	4	4	4								
11	Connection, thru hull, brass screw type 1"	TB-1208	2602-7W	484537	8	8	8	8								
12	Union, pipe, brass, 1" SPS	TB-1209	2602-7W	484533	29	29	29	29							2	96
13	Cone, tubing, #AN-800-24 - 1/4"	TB-1277	2602-7W	484533	3	3	3	3								
13A	Nut, tubing, cone #AN-805-24 - 1/4"	TB-1210	2602-7W	484533	3	3	3	3								
14	Valve, PK4 Selector type	TB-1212	2602-7W	484533	2	2	2	2							1	96
15	Indicator, fuel selector valve	TB-1248	2602-7HH	484533	2	2	2	2							1	108
16	Coupling, male brass chrome plated, Scoville full flow, 1"	TB-1214	2602-7W	484533	56	56	56	56							2	97
17	Hose, Hycar wire inserted, static proof, 1" ID x 2-1/2" long	TB-1206	2602-7W	484533	3	3	3	3							1	97
18	Adapter, hose male, Chase #403, bushed, 1" hose x 1" SPS	TB-1213	2602-7W	484533	1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-515	PT 450-485							Figure No.	Photo No.
	FUEL SYSTEM (Continued)															
19	Clamps, hose stainless steel, Actus adjustable	TB-3100	2602-7W	484535	16	16	16	16								
20	Line, Fuel primer, 1/4" x 2' c/w fittings	TB-1216	2602-7W	484535	3	3	3	3								
21	Fitting, bulkhead, Neoprene	TB-1250	2602-97		10	10	10	10							1	101
21A	Fitting, bulkhead, brass rings	TB-1270													1	103
22	Insert, male, brass, 1/4" x 7/16" - 20 SAE	TB-4616	2602-7W	484535	3	3	3	3								
23	Nut, tube flared, 1/4"	TB-1219	2602-7W	484535	3	3	3	3								
24	Nipple, galvanized, 1" x close	TB-1220	2602-7W	484535	26	26	26	26							3	96
25	Pump, Wobble D4 fuel system	TB-1246	2602-7W	484535	2	2	2	2							1	98
26	Ell, female flare type, 1/4" C x 1/4" SPS, #69F	TB-1221	2602-7W	484535	3	3	3	3								
27	Valve, gate, brass, 1" SPS	TB-1222	2602-7W	484535	7	7	7	7							4	109
28	Tubing, copper, 1/8" OD	TB-2900	2602-7W	484535	57'	57'	57'	57'								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-515	PT 450-485							Figure No.	Photo No.
	FUEL SYSTEM (Continued)															
29	Tee, brass, 1" SPS	TB-1223	2602-7W	484535	4	4	4	4							6	109
30	Ell, male, 1/4" C x 1/4" SPS, flare type 69F	TB-1224	2602-7W	484535	3	3	3	3								
31	Manifold, fuel, cast aluminum, Pattern T-38	TB-1225	2602-7W	484535	3	3	3	3							1	90
32	Ferrule, hose, #625 long 1/4"	TB-1226	2602-7W	484535	1	1	1	1								
33	Hose, Hycar 2 braid oil 1/4" - 6" long	TB-1205	2602-7W	484535	1	1	1	1								
34	Hose, fuel, Hycar Delmar 1" wire inserted, static proof	TB-1206	2602-7W	484535	155'	155'	155'	155'							1	109
35	Tubing, copper, 1/4" OD x 36"	TB-2901	2602-7W	484537	1	1	1	1								
36	Nipple, pipe, galvanized, 1" x 6"	TB-1251	2602-7W	484537	4	4	4	4							7	109
37	Union, 1/4" nut and cone, Packard	TB-1252	2602-7W	484537	3	3	3	3								
38	Primer, 3 Engine Lunkenheimer #1481	TB-1227	2602-7W	484537	1	1	1	1							1	86
39	Nut, brass tubing compression type 1/4"	TB-1210	2602-7W	484537	3	3	3	3								
39A	Ferrule, brass tubing compression type 1/4"	TB-1211	2602-7W	484537	3	3	3	3								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-486						Figure No.	Photo No.
	FUEL SYSTEM (Continued)														
40	Union, half, 1/4" C x 1/4" SPS	TB-1228	2602-7W	484537	1	1	1	1							
41	Nut, brass tubing compression type 1/8"	TB-1229	2602-7W	484537	5	5	5	5							
41A	Ferrule, brass tubing compression type 1/8"	TB-1276	2602-7W	484537	5	5	5	5							
42	Ell, Street, galvanized, 1" SPS	TB-1230	2602-7W	484537	5	5	5	5							
43	Ell, female, bronze, 1" C x 1" SPS complete with hose adapter	TB-1231	2602-7W	484537	2	2	2	2						1	91
44	Bonding strip, fuel fill deck plate	TB-1272	2602-7W	484537	4	4	4	4						5	93
45	Screw, cap, 1/4" NC x 1-1/4" St. Steel, outlet fitting and vent fitting	TB-1273	2602-7W	484537	64	64	64	64						5	87
46	Nut, 1/4" NC, cap screw vent and outlet fitting, st. steel	TB-1274	2602-7W	484537	64	64	64	64						6	87
47	Screw, cap, 1/2"-13 NC st. steel, fill fitting	TB-1275	2602-7W	484537	24	24	24	24						7	87
48	Fuel tank manhole assembly including fuel fill, fill cap, back-fire trap, and outlet fitting	TB-1253	2602-7W	484537	4	4	4	4						1	87

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	FUEL SYSTEM (Continued)														
49	Screen, Vent and back-fire trap	TB-1254	2602-7W	484537	4	4	4	4						1	92
50	Screen, fill pipe	TB-1255	2602-7W	484537	4	4	4	4						2	92
51	Gaskets, Hycar, manhole cover fuel tank	TB-1240	2602-7W	484537	4	4	4	4							
52	Gaskets, Hycar, outlet fitting fuel tank	TB-1243	2602-7W	484537	4	4	4	4							
53	Gaskets, Hycar, Vent and back-fire trap, fuel tank	TB-1242	2602-7W	484537	4	4	4	4						3	94
54	Gaskets, Hycar, fill fitting	TB-1241	2602-7W	484537	4	4	4	4						1	94
55	Gaskets, Hycar, fill fitting cap	TB-1244	2602-7W	484537	4	4	4	4						2	94
56	Assembly, fill and suction including fuel tank manhole assembly, fill pipe, high and low suction pipes	TB-1256	2602-7W	484537	4	4	4	4							
57	Pipe, fill, aluminum (800 gal. tanks)	TB-1257	2602-7W	484537	2	2	2	2							
58	Pipe, fill, aluminum (700 gal. tanks)	TB-1258	2602-7W	484537	2	2	2	2							
59	Pipe, aluminum, high suction (800 gal. tanks)	TB-1259	2602-7W	484537	2	2	2	2							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-515	PT 450-485						Figure No.	Photo No.
	FUEL SYSTEM (Continued)														
60	Pipe, aluminum, high suction (700 gal. tanks)	TB-1260	2602-7W	484537	2	2	2	2							
61	Pipe, aluminum, low suction (800 gal. tanks)	TB-1261	2602-7W	484537	2	2	2	2							
62	Pipe, aluminum, low suction (700 gal. tanks)	TB-1262	2602-7W	484537	2	2	2	2							
63	Clamps, high and low suction (700 & 800 gal. tanks)	TB-1263	2602-7W	484537	4	4	4	4							
64	Clamps, air bell	TB-1264	2602-7W	484537	4	4	4	4							
65	Key, deck plate, fuel fill	TB-1265	2602-7W	484537	1	1	1	1							
66	Bracket, fuel manifold	TB-1266	2602-7W	484537	1	1	1	1						1	88
67	Grommets, fuel line	TB-1247	2602-7W	484537	2	2	2	2						1	89
68	Bracket, fuel line, single straight type	TB-1267	2602-7W	484537	2	2	2	2						1	85
69	Bracket, fuel line, single angle type	TB-1268	2602-7W	484537	2	2	2	2						1	82
70	Bracket, fuel line, triple angle	TB-1269	2602-7W	484537	2	2	2	2						1	81

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-515	PT 450-485						Figure No.	Photo No.
	THROTTLE AND TELEGRAPH CONTROLS														
	Throttle and telegraph control assembly, Pattern T-45	TB-1507	2602-12-C-B	484520-22	1	1	1	1						1	111
1	Housing, cast aluminum, Pattern T-45	TB-1518	2602-12-C-B	484520-22	1	1	1	1							
2	Lever, throttle, aluminum	TB-1519	2602-12-C-B	484520-22	3	3	3	3						1	112
3	Lever, telegraph, aluminum	TB-1520	2602-12-C-B	484520-22	3	3	3	3						2	112
4	Knob, throttle and telegraph lever	TB-1521	2602-12-C-B	484520-22	6	6	6	6						3	112
5	Shaft, throttle lever	TB-1522	2602-12-C-B	484520-22	1	1	1	1						4	112
6	Knob, friction adjustment	TB-1525	2602-12-C-B	484520-22	1	1	1	1						5	112
7	Nut, elastic stop, friction adjustment knob, 1/2"	42-D56-080	2602-12-C-B	484520-22	1	1	1	1							
8	Disc, friction, red fiber, 1/8" D x 3"	TB-1524	2602-12-C-B	484520-22	3	3	3	3						6	112
9	Key, lock shaft, 1/8" x 1/8" x 7/16", st. steel	TB-1525	2602-12-C-B	484520-22	1	1	1	1						7	112

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	THROTTLE AND TELEGRAPH CONTROLS (Continued)														
10	Pin, telegraph lever slot, st. steel	TB-1326	2602-12-C-B	484520-22	3	3	3	3							
11	Spring, throttle tension adjustment, Phos. Bronze	TB-1308	2602-12-C-B	484520-22	3	3	3	3						9	112
12	Collar, spring throttle tension adjustment, st. steel	TB-1328	2602-12-C-B	484520-22	3	3	3	3							
13	Screw, set, spring collar adjustment #5 x 1/4" - hex head, cup point, st. steel	TB-1329	2602-12-C-B	484520-22	3	3	3	3							
14	Pin, stay, throttle shaft, st. steel	TB-1331	2602-12-C-B	484520-22	1	1	1	1						10	112
15	Shaft, lock, 3/4" x 7-3/16" - st. rod	TB-1332	2602-12-C-B	484520-22	1	1	1	1						11	112
16	Pins, lock, 5/16" x 7/8", st. steel	TB-1333	2602-12-C-B	484520-22	3	3	3	3							
17	Nut, lock shaft, elastic stop, 3/4", cadmium plated	42-TE-126	2602-12-C-B	484520-22	2	2	2	2						12	112

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	THROTTLE AND TELEGRAPH CONTROLS (Continued)														
18	Shaft, telegraph, 3/8" x 6-3/4", st. steel	TB-1327	2602-12-C-B	484520-22	1	1	1	1						13	112
19	Nut, telegraph shaft, elastic stop, 3/8", cadmium plated	42-TE-064	2602-12-C-B	484520-22	2	2	2	2						14	112
20	Bell crank and click, telegraph, st. steel	TB-1334	2602-12-C-B	484520-22	3	3	3	3							
21	Poppet, telegraph bell and click, st. steel	TB-1335	2602-12-C-B	484520-22	3	3	3	3						15	112
22	Spring, helical, poppet, monel wire	TB-1309	2602-12-C-B	484520-22	3	3	3	3						16	112
23	Screw, set, 7/16" NF x 15/16" st. steel	TB-1336	2602-12-C-B	484520-22	3	3	3	3						17	112
24	Clevis, throttle, 3/8" x 2-1/4" st. steel	TB-1337	2602-12-C-B	484520-22	3	3	3	3						18	112
25	Pin, Dowel, 1/8" x 1-1/4", st. steel	TB-1338	2602-12-C-B	484520-22	12	12	12	12							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	THROTTLE AND TELEGRAPH CONTROLS (Continued)														
26	Spacer, telegraph shaft, aluminum, 1/8"	TB-1539	2602-12-C-B	484520-22	3	3	3	3						21	112
27	Spacer, telegraph shaft, 7/16" aluminum	TB-1540	2602-12-C-B	484520-22	1	1	1	1							
28	Spacer, telegraph shaft, 3/8" aluminum	TB-1541	2602-12-C-B	484520-22	1	1	1	1							
29	Spacer, telegraph shaft, 5/16" aluminum	TB-1542	2602-12-C-B	484520-22	1	1	1	1							
30	Screw, machine, Throttle and Telegraph, lever knobs, 10-24 x 1" fillister head, st. steel	TB-5519	2602-12-C-B	484520-22	6	6	6	6							
31	Clevis, telegraph, 3/8" x 2-1/4", st. steel	TB-1543	2602-12-C-B	484520-22	3	3	3	3						19	112
32	Bolt, clevis, AN-23-9A, steel, cadmium plated	TB-1544	2602-12-C-B	484520-22	6	6	6	6						8	112

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	THROTTLE AND TELEGRAPH CONTROLS (Continued)														
33	Nut, clevis bolt, elastic stop, 10-32	22TM02	2602-12-C-B	484520-22	6	6	6	6						20	112
34	End, rod, AN-490-8	TB-1545	2602-12-C-B	484520-22	6	6	6	6							
35	Link, drag, WD-4130 x 1/2", 20 gauge, seamless steel tube, 20' long	TB-1546	2602-12-C-B	484520-22	1	1	1	1							
36	Disc, throttle, friction red fiber, 1/8" x 5" dia.	TB-1547	2602-12-C-B	484520-22	3	3	3	3						22	112
37	Pin, 3/32" x 9/32", brass	TB-1548	2602-12-C-B	484520-22	6	6	6	6							
38	Shaft, cam, 3/8" x 6-3/4", st. steel	TB-4609	2602-12J	603275			1	1							
39	Cam, 3/4" OD x 1/2", st. steel	TB-4610	2602-12J	603275			3	3							
40	Screw, set, #10, hex socket, steel	TB-4611	2602-12J	603275			3	3							
41	N t, elastic stop, 3/8" - 16 NC	TB-4612	2602-12J	603275			2	2							
42	N t, hex, 3/8" - 16 NC	TB-4613	2602-12J	603275			1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-315	PT 450-485								
	TELEGRAPH DIALS															
	Dial, Telegraph assembly complete	TB-1549	2602-14A	484558	1	1	1	1							1	119
1	Dial, only, 1/8" x 12" x 28", 17 st. aluminum	TB-1550	2602-14A	484558	1	1	1	1								
2	Shaft, needle indicator, 5/16" x 1-5/16", st. steel	TB-1551	2602-14A	484558	3	3	3	3								
3	Shaft, st. steel, 3/8" x 1"	TB-1552	2602-14A	484558	3	3	3	3								
4	Pin, 3/16" x 5/8", st. steel	TB-1553	2602-14A	484558	3	3	3	3								
5	Spacer, 1/4" OD x 1/8" ID x 3/4", aluminum tubing	TB-1554	2602-14A	484558	9	9	9	9							6	119
6	Brace, aluminum sheet	TB-1555	2602-14A	484558	3	3	3	3							3	119
7	Screw, machine, #6-1-1/8" flat head, 32 thread, cadmium plated	TB-3514	2602-14A	484558	15	15	15	15							7	119
8	Nut, elastic stop, 6/32"	22M-62	2602-14A	484558	15	15	15	15								
9	Nut, elastic stop, 5/16"	99TM-02	2602-14A	484558	3	3	3	3							5	119
10	Indicator, dial, brass	TB-1556	2602-14A	484558	3	3	3	3							2	119
11	Clevis, 3/8" x 3/8" x 1-5/8", st. steel	TB-1557	2602-14A	484558	3	3	3	3							9	119

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-315	PT 450-485								
	TELEGRAPH DIALS (Continued)															
12	Gear, spur, 1" P.D., Boston H-3252	TB-1512	2602-14A	484558	3	3	3	3							8	119
13	Gear, spur, 2" P.D., Boston H-3264	TB-1513	2602-14A	484558	3	3	3	3							11	119
14	Pin, cotter, 1/16" x 1/2", brass	TB-1558	2602-14A	484558	3	3	3	3							10	119
15	Clip, 1/16" x 1/2" x 3", aluminum	TB-1559	2602-14A	484558	3	3	3	3								
16	Clip, 1/16" x 3/4" x 9", aluminum	TB-1560	2602-14A	484558	3	3	3	3							4	119
17	Controls, Arens, 16'-9", FC-125 - 1-3/4" travel	TB-1514	2602-14A	484558	1	1	1	1							1	118
18	Controls, Arens, 17'-6", FC-125 - 1-3/4" travel	TB-1515	2602-14A	484558	2	2	2	2							1	118
18A	Controls, Arens, 18'-4", FC-125 - 1-3/4" travel	TB-1516	2602-14A	484558	2	2	2	2								
19	Screw, machine, round head, #8 - 3/4", brass	TB-4607	2602-14A	484558	6	6	6	6								
20	Screw, set, 5/16" x 1/2", headless cup point	TB-5582	2602-14A	484558	2	2	2	2								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-515	PT 450-485							Figure No.	Photo No.
	LEVELOMETERS															
1	Levelometer, fuel level gauge, complete with pump, fw'd stbd. fuel tank	TB-1279			1	1	1	1								
2	Levelometer, fuel level gauge, complete with pump, fw'd port fuel tank	TB-1278			1	1	1	1								
3	Levelometer, fuel level gauge, complete with pump, aft. stbd. fuel tank	TB-1281			1	1	1	1								
4	Levelometer, fuel level gauge, complete with pump, aft. port fuel tank	TB-1280			1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-515	PT 450-485							Figure No.	Photo No.
	THROTTLE FITTINGS															
1	Bracket, throttle sheave, cast aluminum, Pattern T-44, complete	TB-1500	2602-12H	553573	2	2	2	2								
1A	Bracket, throttle sheave only, Pattern T-44	TB-1563	2602-12H	553573	2	2	2	2							1	95
2	Sheave, throttle, 3-1/2" x 9/16"	TB-1564	2602-12H	553573	3	3	3	3							2	95
3	Sheave, bell crank, 3-1/2" x 9/16"	TB-1565	2602-12H	553573	3	3	3	3								
4	Sheave, carburetor	TB-1566	2602-12H	553573	3	3	3	3							1	100
5	Lever, center throttle, aluminum	TB-1567	2602-12H	553573	1	1	1	1							3	120
6	Lever, wing throttle, aluminum	TB-1568	2602-12H	553573	2	2	2	2							4	120
7	Lever, bell crank	TB-1569	2602-12H	553573	3	3	3	3							8	95
8	Lock, cable, stainless steel	TB-1570	2602-12H	553573	9	9	9	9							6	95
9	Screw, machine, 6-32 x 5/8" flat head, cadmium plated steel	TB-3515	2602-12H	553573	18	18	18	18							5	95
10	Pin, lock, stainless steel, 1/4" x 1-1/4"	TB-1571	2602-12H	553573	2	2	2	2							10	95

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-515	PT 450-485								
	THROTTLE FITTINGS (Continued)															
11	Shaft, throttle control, st. steel, 5/16" x 5-5/8"	TB-1572	2602-12H	553573	2	2	2	2							9	95
12	Bearing, needle, Torrington	B-59	2602-12H	553573	6	6	6	6							9	120
13	Knob, aluminum, throttle lever, engine room	TB-1573	2602-12H	553573	3	3	3	3							10	120
14	Screw, machine, 10-24 x 1-1/4" flat head, cadmium plated steel	TB-1574	2602-12H	553573	3	3	3	3							11	120
15	Washers	AN-970-4	2602-12H	553573	8	8	8	8								
16	Spacer, aluminum	TB-1575	2602-12H	553573	4	4	4	4							12	120
17	Nut, elastic stop, 5/16" - 24 NF	42-TE0-54	2602-12H	553573	9	9	9	9								
18	Nut, elastic stop, 1/4"-28 NF	42-E0-48	2602-12H	553573	8	8	8	8							4	95
19	Bolt, 1/4"-28 x 3", #AN-4-30A	TB-1576	2602-12H	553573	4	4	4	4								
20	Bolt, 1/4"-28 x 2-5/8", #AN-4-25A	TB-1577	2602-12H	553573	4	4	4	4								
21	Turnbuckle, body, Fiege 319 - 1/8" stainless, complete with #390 sockets	TB-1502	2602-12H	553573	6	6	6	6							1	121
22	Stud End Socket (See Item 21)				12	12	12	12								
23	Cable, stainless steel, 1/8" - 7 x 19	TB-1504	2602-12H	553573	240'	240'	240'	240'							3 5	95 164

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-515	PT 450-485								
	THROTTLE FITTINGS (Continued)															
24	Sheave, brass, 9/16" x 1/4"	TB-1578	2602-12H	553573	1	1	1	1							14	120
25	Clevis, 1/2" x 1/2" x 7/8", brass	TB-1579	2602-12H	553573	1	1	1	1							15	120
26	Washer, red fiber	TB-1598	2602-12H	553573	1	1	1	1							7	95
27	Screw, cap, 1/4" x 20 NC x 5/8" cadmium plated steel	TB-3521	2602-12H	553573	1	1	1	1							17	120
28	Washer, 1/4" steel cadmium plated	TB-3502	2602-12H	553573	1	1	1	1								
29	Washer, 1/4" lock, steel cadmium plated	TB-1580	2602-12H	553573	1	1	1	1								
30	Pin, 1/8" x 9/16" brass	TB-1581	2602-12H	553573	1	1	1	1								
31	Bracket, large throttle line hanger complete	TB-1599	2602-12H	553573	1	1	1	1							1	115
31A	Bracket, large throttle line hanger	TB-1582	2602-12H	553573	2	2	2	2								
32	Spacer, brass, 3/8" x 2-3/4"	TB-1583	2602-12H	553573	2	2	2	2								
33	Shaft, large throttle line hanger assembly, 1/4" x 2-3/4", brass	TB-1584	2602-12H	553573	2	2	2	2								
34	Sheave, 5/16" x 1", aluminum	TB-1585	2602-12H	553573	6	6	6	6								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	THROTTLE FITTINGS (Continued)														
35	Spacer, brass, 1/2" x 1/16"	TB-1586	2602-12H	553573	4	4	4	4							
36	Nut, brass, 1/4" - 20 NC	TB-1587	2602-12H	553573	8	8	8	8							
37	Bracket, throttle line bulkhead offset complete	TB-1597	2602-12H	553573	1	1	1	1						1	116
37A	Bracket, aluminum bulkhead offset	TB-1588	2602-12H	553573	1	1	1	1							
38	Bracket, aluminum bulkhead offset	TB-1589	2602-12H	553573	1	1	1	1							
39	Sheave, #AN-210-3A	TB-1511	2602-12H	553573	2	2	2	2							
40	Bolt, clevis, #AN-24-24A	TB-1590	2602-12H	553573	1	1	1	1							
41	Bolt, 1/4"-28 x 1", hex head steel cadmium plated	TB-3501	2602-12H	553573	3	3	3	3							
42	Nut, elastic stop, 1/4"-28 NF	42-TE-048	2802-12H	553573	4	4	4	4							
43	Throttle line take-up unit complete	TB-4601	2602-12H	553573	1	1	1	1						1	114
43A	Housing, throttle line take-up, cast aluminum, Pattern T-35	TB-1305	2602-12H	553573	3	3	3	3						1	115
44	Sleeve, throttle line take-up, 1-3/8" x 1-3/4", aluminum	TB-1391	2602-12H	553573	3	3	3	3						6	115
45	Rod and clevis take-up	TB-1592	2602-12H	553573	3	3	3	3						4	115

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	THROTTLE FITTINGS (Continued)														
46	Bolt, clevis, 1/4"-28 x 1-3/4"	AN-24-28A	2602-12H	553573	3	3	3	3							
46A	Bracket, mounting, throttle take-up	TB-4600	2602-12H	553573	3	3	3	3						2	115
47	Nut, elastic stop, 1/2" x 20 NF	42EO-80	2602-12H	553573	3	3	3	3						7	115
48	Nut, elastic stop, 1/4" x 28 NF	42EO-48	2602-12H	553573	12	12	12	12							
49	Spring, throttle line take-up	TB-1506	2602-12H	553573	3	3	3	3						5	115
50	Sheaves, #AN-210-3A	TB-1511	2602-12H	553573	6	8	6	8						3	115
51	Bolt, 1/4"-28 x 3-1/8"	AN4-31A	2802-12H	553573	9	9	9	9							
52	Washer	AN-970-4	2602-12H	553573	9	9	9	9							
53	Sheaves, AN-210-3A	TB-1511	2602-12H	553573	2	2	2	2							
54	Bolt, clevis, #AN-24-28A, 1/4"-28 x 1-5/8"	TB-1594	2602-12H	553573	1	1	1	1							
55	Nut, elastic stop, 1/4"-28	42EO-48	2602-12H	553573	1	1	1	1							
56	Bracket, offset, cast aluminum, T-48, complete assy.	TB-1595	2602-12H	553573	1	1	1	1						1	117
56A	Bracket, only, cast aluminum, Pattern T-48	TB-1596	2602-12H	553573	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	THROTTLE FITTINGS (Continued)															
57	Bell crank unit complete	TB-4602	2602-12H	555575	1	1	1	1								
58	Bell crank throttle drag link shaft	TB-4603	2602-12H	555575	3	3	3	3							11	95
59	Bell crank throttle drag link shaft clevis	TB-4604	2602-12H	555575	6	6	6	6							12	95
60	Bell crank throttle drag link shaft clevis bolt	TB-4605	2602-12H	555575	6	6	6	6							13	95
61	Bell crank throttle drag link shaft clevis nut	TB-4606	2602-12H	555575	6	6	6	6							14	95
62	Bracket, selector valve	TB-4608	2602-12H	555575	2	2	2	2							4	96
63	Bolts, 1/4" x 5", selector valve mounting	TB-4617	2602-12H	555575	12	12	12	12								
64	Bracket, Wobble pump, stbd.	TB-4618	2602-12H	555575	1	1	1	1							1	110
65	Bracket, Wobble pump, port.	TB-4619	2602-12H	555575	1	1	1	1							1	105
66	Sheave, selector valve	TB-4620	2602-12H	555575	2	2	2	2							1	107
67	Handle, selector,valve, Pattern T-77	TB-4621	2602-12H	555575	2	2	2	2							1	108
68	Shaft, selector valve extension	TB-4614	2602-12H	555575	2	2	2	2								
69	Collar, selector valve extension shaft	TB-4615	2602-12H	555575	2	2	2	2							1	102
70	Bracket, telegraph control wire bracket	TB-4622	2602-12H	555575	2	2	2	2							1	99

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	SELECTOR VALVE PARTS															
	PK4 Fuel Selector Valve Parts															
1	Valve, poppet PK4 complete	125914			2	2	2	2								
2	Body Assembly	74050			2	2	2	2								
3	Bushing	115977			8	8	8	8								
4	Pin, Dowel	125894			2	2	2	2								
5	Pin, Dowel	125842			2	2	2	2								
6	Body	74049			2	2	2	2								
7	Shaft Assembly	104079			2	2	2	2								
8	Shaft	104080			2	2	2	2								
9	Washer	240115			2	2	2	2								
10	Pin	54067			2	2	2	2								
11	Pin, cotter	AN380-2-2			2	2	2	2								
12	Nut	AN320-3			2	2	2	2								
13	Cam	44031			2	2	2	2								
14	Bushing	124206			2	2	2	2								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	SELECTOR VALVE PARTS (Continued)														
15	Valve Assembly	54051			8	8	8	8							
16	Plunger	54050			8	8	8	8							
17	Seal	113984			8	8	8	8							
18	Seal Washer	113986			8	8	8	8							
19	Ring, retaining	113987			8	8	8	8							
20	Cover, poppet valve	54082			2	2	2	2							
21	Gasket, cover	44029			2	2	2	2							
22	Spring, valve	44032			8	8	8	8							
23	Fitting, cap, 1" SPS	113988			8	8	8	8							
24	Gasket, fitting cap	113989			8	8	8	8							
25	Seat spring	44028			8	8	8	8							
26	Ring, lock	113994			8	8	8	8							
27	Washer, fuel cock control	64161			2	2	2	2							
28	Plate, Index	74003			2	2	2	2							
29	Plate, stop	64089			2	2	2	2							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	SELECTOR VALVE PARTS (Continued)														
30	Retainer, seal	64044			2	2	2	2							
31	Spring, index	64079			2	2	2	2							
32	Yoke	67590			2	2	2	2							
33	Pin, taper	940166			2	2	2	2							
34	Screw, flat head	AN505-10-7			10	10	10	10							
35	Screw, drilled head	AN503-10-8			32	32	32	32							
36	Wire lock	AN995-41-10			8	8	8	8							
37	Thread protector	112444-1"			8	8	8	8							
38	Nut, #8-36, elastic stop	364836			2	2	2	2							
39	Lock washer, shakeproof	AN936C-10			2	2	2	2							
40	Ring lock	54136			2	2	2	2							
41	Bearing, Torrington	B-108			2	2	2	2							
42	Seal ring	X34A3-590-8			2	2	2	2							
43	Spring	933-18			8	8	8	8							
44	Lock washer	935-10			32	32	32	32							

PHOTO 125 (SEE DESCRIPTION PAGE 46)
1 - TB-2001

PHOTO 126 (SEE DESCRIPTION PAGE 47)
1 - TB-1509

PHOTO 127 (SEE DESCRIPTION PAGE 46)
1 - TB-2005

PHOTO 128 (SEE DESCRIPTION PAGE 48)
1 - TB-2029

PHOTO 129 (SEE DESCRIPTION PAGE 48)
1 - TB-2030

PHOTO 130 (SEE DESCRIPTION PAGE 46)
1 - TB-2000

PHOTO 131 (SEE DESCRIPTION PAGE 46)
1 - TB-2006

PHOTO 132 (SEE DESCRIPTION PAGE 48)
1 - TB-2031

PHOTO 133 (SEE DESCRIPTION PAGE 48)
1 - TB-2032

PHOTO 134 (SEE DESCRIPTION PAGE 46)
1 - TB-2004

PHOTO 136 (SEE DESCRIPTION PAGE 49)
1 - TB-2033

PHOTO 135 (SEE DESCRIPTION PAGE 46)
1 - TB-2011

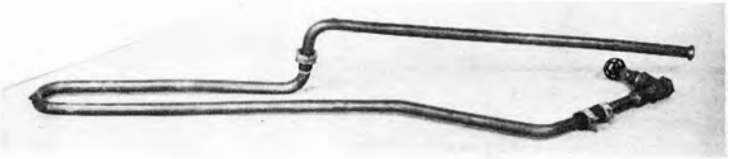


PHOTO 137 (SEE DESCRIPTION PAGE 49)
1 - TB-2034

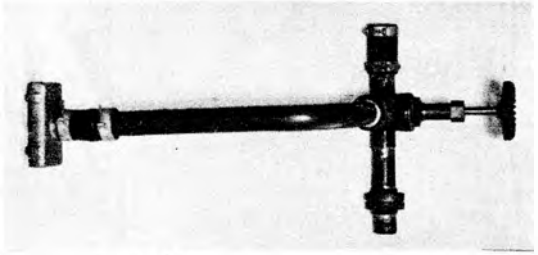


PHOTO 138 (SEE DESCRIPTION PAGE 48)
1 - TB-2035

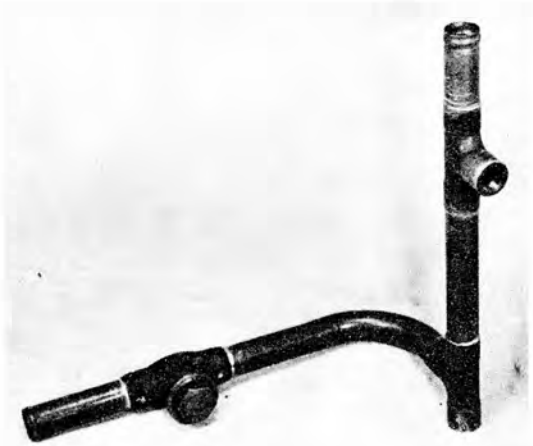


PHOTO 139 (SEE DESCRIPTION PAGE 48)
1 - TB-2036

PHOTO 140 (SEE DESCRIPTION PAGE 48)
1 - TB-2037

PHOTO 141 (SEE DESCRIPTION PAGE 47)
1 - TB-2038

PHOTO 142 (SEE DESCRIPTION PAGE 48)
1 - TB-2039

PHOTO 143 (SEE DESCRIPTION PAGE 48)
1 - TB-2040

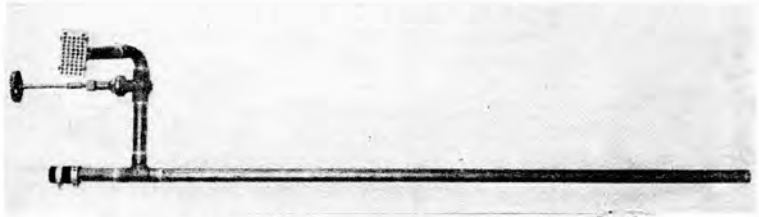


PHOTO 144 (SEE DESCRIPTION PAGE 47)
1 - TB-2041

PHOTO 145 (SEE DESCRIPTION PAGE 48)
1 - TB-2042

PHOTO 146 (SEE DESCRIPTION PAGE 48)
1 - TB-2043

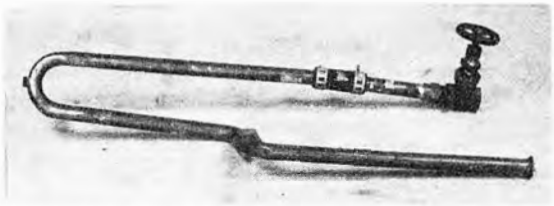


PHOTO 147 (SEE DESCRIPTION PAGE 48)
1 - TB-2044

PHOTO 148 (SEE DESCRIPTION PAGE 48)
1 - TB-2047

PHOTO 149 (SEE DESCRIPTION PAGE 48)
1 - TB-2035

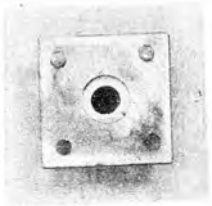


PHOTO 150 (SEE DESCRIPTION PAGE 47)
1 - TB-2024

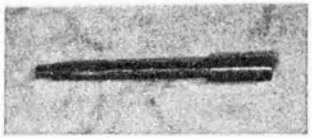


PHOTO 150A (SEE DESCRIPTION PAGE 47)
1 - TB-2023

PHOTO 153 (SEE DESCRIPTION PAGE 48)
1 - TB-2046

PHOTO 151 (SEE DESCRIPTION PAGE 47)
1 - TB-2015

PHOTO 152 (SEE DESCRIPTION PAGE 48)
1 - TB-2045

PHOTO 154 (SEE DESCRIPTION PAGE 48)
1 - TB-2048

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	BILGE SYSTEM															
1	Strainer, bilge, Horizontal type, 1-1/4", hose	TB-2000	2602-7T	484528	2	2	2	2							1	130
2	Valve, gate #1319, 1-1/4", sweat	TB-1512	2602-7T	484528	7	7	7	7								
3	Strainer, bilge, Vertical, 1-1/4", hose	TB-2001	2602-7T	484528	5	5	5	5							1	125
4	Tubing, copper, 1-3/8" OD	TB-2907	2602-7T	484528	63'	63'	63'	63'								
5	Hose, radiator, 1-3/8" ID	TB-3008	2602-7T	484528	21'	21'	21'	21'								
6	Tee, sweat #W411, 1-1/4"	TB-1511	2602-7T	484528	7	7	8	8								
7	Ell, sweat 90°, #407s, 1-1/4"	TB-2002	2602-7T	484528	4	4	3	3								
8	Fitting, bulkhead, 1-3/8" ID	TB-2018	2602-10	484551	5	5	5	5								
9	Clamps, hose stainless Actus adjustable	TB-3100	2602-7T	484528	44	44	44	44								
10	Ell, male sweat 90° C409, 1-1/2"	TB-1505	2602-7T	484528	1	1	1	1								
11	Pump, bilge Willis P1450, Navy Type	TB-2004	2602-7T	484528	1	1	1	1							1	134
12	Pump, Higgins turbine type, brass, 1-1/4" SPS complete with 3-1/2" dia. sheave	TB-2005	2602-7T	484528	1	1	1	1							1	127
13	Connection, thru hull hose connection #P1890, 1-1/2"	TB-2006	2602-7T	484528	1	1	1	1							1	131

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	BILGE SYSTEM (Continued)															
14	Adapter, Sweat #C404, 1-1/4" C x 1-1/4" SPS	TB-2007	2602-7T	484528	2	2	2	2								
15	Valve, gate, brass, 3/4" SPS	TB-2008	2602-7T	484528	3	3	3	3								
16	Hose, radiator, 7/8" ID	TB-3005	2602-7T	484528	3'	3'	3'	3'								
17	Tubing, copper, 7/8" OD	TB-2905	2602-7T	484528	16'	16'	16'	16'								
18	Ell, sweat copper #407 - 1-1/4"	TB-2013	2602-7T	484528	2	2	2	2								
19	Fitting, bulkhead, 3/4"	TB-2019	2602-10	484528	2	2	2	2								
20	Adapter, pipe, male, 3/4" C x 3/4" SPS	TB-2009	2602-7T	484528	3	3	3	3								
21	Clamps, hose stainless, Actus adjustable	TB-3100	2602-7T	484528	16	16	16	16								
22	Nut, lock, brass, 3/4" SPS	TB-2010	2602-7T	484528	4	4	4	4								
23	Bailer, self, brass, Pattern T-64, 3/4"	TB-2011	2602-57		4	4	4	4							1	135
24	Valve, check horizontal swing, sweat, 1-1/4"	TB-1520	2602-7T	484528	1	1	1	1								
25	Scoop, Intake, brass, 1-1/4"	TB-1515	2602-7T	484528	1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	BILGE SYSTEM (Continued)														
26	Valve, gate, brass, 1-1/4" SPS	TB-2220	2602-7T	484528	1	1	1	1							
27	Valve, gate, brass, sweat, 1-1/2"	TB-2012	2602-7T	484528	1	1	1	1							
28	Bibb, hose, male, brass, 3/4"	TB-1509	2602-7T	484528	1	1	1	1						1	126
29	Plug, female pipe, 1-1/2" x 3/4" SPS	TB-2021	2602-7X		1	1	1	1							
30	Valve, check horizontal swing, sweat 1-1/2"	TB-1526	2602-7T	484528	1	1	1	1							
31	Tubing, copper, 1-5/8" OD	TB-2908	2602-7T	484528	4'	4'	4'	4'							
32	Hose, radiator, 1-5/8" x 4"	TB-3010	2602-7T	484528	4	4	4	4							
33	Tee, copper, W4ll, 1-1/2" sweat	TB-1506	2602-7T	484528	2	2	2	2							
34	Clamps, hose, Actus	TB-3100	2602-7T	484528	8	8	8	8							
35	Adapter, hose, 1-1/4" x 1-1/4" SPS	TB-2022	2602-7X		1	1	1	1							
36	Extension, valve stem, brass, 3/8" x 18"	TB-2023	2602-7T	484528	2	2	2	2						1	150A
37	Fitting, bulkhead valve stem extension shaft	TB-2024	2602-7T	484528	2	2	2	2						1	150
38	Hose, radiator, 7/8" ID x 2"	TB-3005	2602-7T	484528	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	BILGE SYSTEM (Continued)														
39	Seacock, Wilcox 1506, brass, 3/4"	TB-2015	2602-7T	484528	1	1	1	1						1	151
40	Hose, radiator, 7/8" ID x 6"	TB-3005	2602-7T	484528	1	1	1	1							
41	Plate, 2" x 2" - 1/8" brass	TB-2025	2602-7T	484528	2	2	2	2							
42	Valve, gate, brass, 1/2" SPS	TB-1400	2602-7T	484528	1	1	1	1							
43	Nuts, lock, brass, 1/2" SPS	TB-2016	2602-7T	484528	2	2	2	2							
44	Nipple, pipe, brass, 1/2" x 1-3/4" SPS	TB-2026	2602-7T	484528	1	1	1	1							
45	Adapter, 1-1/4" x 1-1/4" male st. C404	TB-2007	2602-7AAA	553597			1	1							
46	Ell, 1-1/2" - 45° copper, Chase 407AS	TB-2027	2602-7AAA	553597			1	1							
47	Ell, 1-1/2" - 90° copper, Chase 407S	TB-2028	2602-7AAA	553597			1	1							
48	Line, section, main bilge, engine room at forward bulkhead, complete as shown	TB-2038	2602-7AAA	553597	1	1	1	1						1	141
49	Line, section, main bilge drain, aft tank compartment, complete as shown	TB-2041	2602-7AAA	553597	1	1	1	1						1	144

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485							
	BILGE SYSTEM (Continued)														
50	Line, section, main bilge drain, store room, complete as shown	TB-2042	2602-7AAA	553597			1	1						1	145
51	Line, section, main bilge, crew's quarters, complete as shown	TB-2047	2602-7AAA	553597	1	1	1	1						1	148
52	Line, section, main bilge, ward room, complete as shown	TB-2035	2602-7AAA	553597	1	1	1	1						1	138
53	Line, section, main bilge at bilge pump, engine room, complete as shown	TB-2036	2602-7AAA	553597	1	1	1	1						1	139
54	Line, section, main bilge, engine room at after bulkhead, complete as shown	TB-2037	2602-7AAA	553597	1	1	1	1						1	140
55	Line, section, main bilge, ward room, complete as shown	TB-2035	2602-7AAA	553597	1	1	1	1						1	149
56	Line, section, main bilge, forward tank compartment, complete as shown	TB-2045	2602-7AAA	553597	1	1	1	1						1	152
57	Line, section, straight, main bilge, forward tank compartment, complete as shown	TB-2046	2602-7AAA	553597	1	1	1	1						1	153

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485							
	BILGE SYSTEM (Continued)														
58	Line, section, main bilge, store room, complete as shown	TB-2048	2602-7AAA	553597	1	1								1	154
59	Line, section from sea water intake to hand pump intake, complete as shown	TB-2039	2602-7AAA	553597	1	1	1	1						1	142
60	Line, section from bilge pump outlet to overboard discharge line, complete as shown	TB-2040	2602-7AAA	553597	1	1	1	1						1	143
61	Line, section from main line check valve section to pump intakes, complete as shown	TB-2043	2602-7AAA	553597	1	1	1	1						1	146
62	Discharge, hand bilge pump to main overboard	TB-2030	2602-7AAA	553597	1	1	1	1						1	129
63	Bracket, bilge pump, turbine type	TB-2031	2602-7AAA	553597	1	1	1	1						1	132
64	Line, section, self bailer, aft tank compartment, complete as shown	TB-2044	2602-7AAA	553597	1	1	1	1						1	147
65	Line, self bailer, aft tank compartment, complete as shown	TB-2029	2602-7AAA	553597	1	1	1	1						1	128
66	Line, self bailer, engine room, complete as shown	TB-2032	2602-7AAA	553597	1	1	1	1						1	133

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	BILGE SYSTEM (Continued)															
67	Fitting, self bailer, adapting	TB-2033	2602-7AAA	553597	5	5	5	5							1	136
68	Line, self bailer, forward tank compartment, complete as shown	TB-2034	2602-7AAA	553597	1	1	1	1							1	137

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	LAVATORY AND GALLEY PLUMBING															
1	Tank, 50 gallon fresh water, aluminum, potable	TB-1116	2602-10	484531	3	3	3	3							1	161
2	Pump Galley, WC5385, Brass C.P.	TB-2200	2602-10	484531	1	1									1	155
2A	Pump Galley, Perko 1040	TB-2219	2602-10A	553598			1	1								
3	Tubing, aluminum, 1/2" OD	TB-2914	2602-10	484531	25'	25'	25'	25'								
4	Hose, radiator, 1/2" ID x 3-1/2" long	TB-3001	2602-10	484531	8	8	8	8								
5	Pump lavatory, WC5384	TB-2201	2602-10	484531	2	2									1	156
5A	Pump lavatory, Perko 1044	TB-5600	2602-10A	553598			2	2								
6	Basin, Vesco Lavatory, enameled steel	TB-2202	2602-10	484531	2	2	2	2							1	162
7	Hose, radiator, 7/8" ID x 3-1/2" long	TB-3005	2602-10	484531	8	8	8	8								
8	Tubing, copper	TB-2905	2602-10	484531	17'	17'	17'	17'								
9	Fitting, bulkhead, 3/4"	TB-2209	2602-10	484531	1	1	1	1								
10	Connection, thru hull, 1-1/4" SPS #P1890 brass	TB-1504	2602-10	484531	2	2										
10A	Connection, thru hull, 1-1/2" SPS #P1890 brass	TB-2221	2602-10A	553598			2	2								
11	Scoop, hi-speed, brass, 3/4", Pattern T-64	TB-2203	2602-57		3	3	3	3							1	160

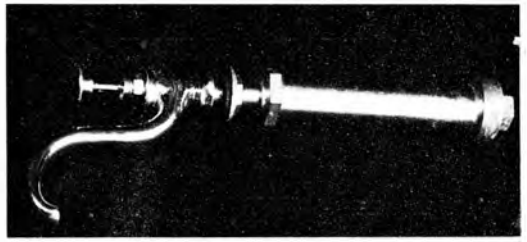


PHOTO 155 (SEE DESCRIPTION PAGE 49)
1 - TB-2200

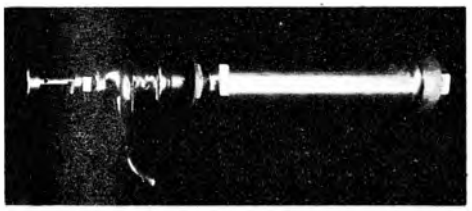


PHOTO 156 (SEE DESCRIPTION PAGE 49)
1 - TB-2201

PHOTO 159 (SEE DESCRIPTION PAGE 51)
1 - TB-1516

PHOTO 161 (SEE DESCRIPTION PAGE 49)
1 - TB-1116

PHOTO 157 (SEE DESCRIPTION PAGE 52)
1 - TB-1601 2 - TB-1600

PHOTO 160 (SEE DESCRIPTION PAGE 49)
1 - TB-2203

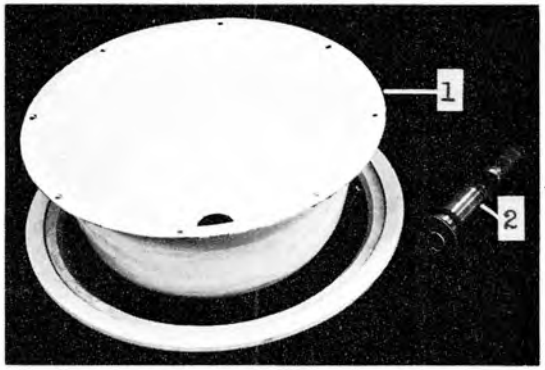


PHOTO 162 (SEE DESCRIPTION PAGES 49 and 51)
1 - TB-2202 2 - TB-2216

PHOTO 158 (SEE DESCRIPTION PAGE 51)
1 - TB-2205

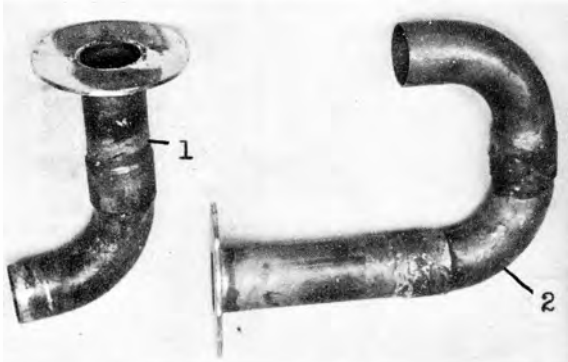


PHOTO 163 (SEE DESCRIPTION PAGE 51)
1 - TB-2215 2 - TB-2217

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254	PT 265-313	PT 450-485					Figure No.	Photo No.
	LAVATORY AND GALLEY PLUMBING (Continued)													
12	Adapter, male, 3/4" C x 3/4" SPS brass C404S	TB-2009	2602-10	484531	3	3	3	3						
13	Valve, gate, 1-1/4" brass SPS	TB-1512	2602-10	484531	2	2								
13A	Valve, gate, 1-1/2" brass SPS	TB-1514	2602-10A	553598			2	2						
14	Valve, gate, 1/2" brass SPS	TB-1400	2602-10A	553598	2	2	5	5						
15	Adapter, male, 1-1/4" C x 1-1/4" SPS brass C404	TB-2007	2602-10	484531	2	2								
15A	Adapter, male, 1-1/2" C x 1-1/4" SPS brass C404	TB-2222	2602-10A	553598			2	2						
16	Adapter, male, 1/2" C x 1/2" SPS brass C404	TB-2204	2602-10	484531	2	2	2	2						
17	Hose, radiator, 1-3/8" ID x 4"	TB-3008	2602-10	484531	3	3								
17A	Hose, radiator, 1-1/2" ID x 4"	TB-2223	2602-10A	553598			3	3						
18	Fitting, bulkhead, 1-1/4"	TB-2210	2602-10	484531	1	1								
18A	Fitting, bulkhead, 1-1/2"	TB-2224	2602-10A	553598			1	1						
19	Tubing, copper, 1-3/8" OD	TB-2907	2602-10	484531	7'	7'								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254	PT 265-313	PT 450-485					Figure No.	Photo No.
	LAVATORY AND GALLEY PLUMBING (Continued)													
19A	Tubing, copper, 1-5/8" OD	TB-2908	2602-10A	553598			7'	7'						
20	Tubing, 5/8" OD copper	TB-2904	2602-10	484531	13'	13'	13'	13'						
21	Hose, radiator, 5/8" x 3"	TB-3002	2602-10	484531	4	4	4	4						
22	Fitting, bulkhead, 1/2"	TB-2211	2602-10	484531	1	1	1	1						
23	Toilet, Wilcox #1504	TB-2205	2602-10	484531	2	2	2	2					1	158
24	Sink, galley	TB-2202	2602-10	484531	1	1	1	1						
25	Scoop, intake hi-speed, #8572 - 1/2"	TB-1516	2602-10	484531	2	2	2	2					1	159
26	Fitting, bulkhead, 3/8"	TB-2212	2602-10	484531	3	3	3	3						
27	Clamps, Actus adjustable stainless steel	TB-3100	2602-10	484531	56	56	56	56						
28	Tail piece, Lavatory Basin, crew's quarters	TB-2215	2602-10	484531	1	1	1	1					1	163
28A	Tail piece, Lavatory Basin, officers' quarters	TB-2216	2602-10	484531	1	1	1	1					2	162
28B	Tail piece, Galley Basin	TB-2217	2602-10	484531	1	1	1	1					2	163

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	LAVATORY AND GALLEY PLUMBING (Continued)														
29	Valve, gate 1/2" sweat type, brass	TB-2214	2602-10	484531	2	2	2	2							
30	Plug, pipe, 1/2" SPS galvanized	TB-2229	2602-10	484531	3	3									
30A	Ell St. 90° - 3/8" SPS, galvanized	TB-2225	2602-10A	553598			3	3							
31	Adapter, male, 3/8" C x 3/8" SPS brass #404	TB-1115	2602-10	484531	2	2	3	3							
32	Tubing, copper, 1/2" OD	TB-2903	2602-10	484531	1'	1'	1'	1'							
33	Valve, gate, 3/4" SPS	TB-2008	2602-10	484531	3	3	3	3							
34	Bushing, 1/2" x 3/8", galvanized	TB-2227	2602-10A	553598			3	3							
35	Nipple	TB-2228	2602-10A	553598			3	3							
36	Toilet handle complete with fulcrum	TB-2206													
37	Toilet repair kits	TB-2207													
38	Toilet seat and cover	TB-2208													
39	Toilet pump complete	TB-2218													

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	REFRIGERATION														
1	Galley unit complete including stove, sink, and refrigerator	TB-2226			1	1	1	1							
2	Refrigerator complete including Mills compressor	TB-1601			1	1	1	1						1	157
3	Stove complete 24V D.C.	TB-1600			1	1	1	1						2	157
4	Compressor, Mills	TB-1602			1	1	1	1							256
5	Brushes, for compressor motor TB-1602	TB-1603			1	1	1	1							
6	Gauge, pressure, 2-1/2"	TB-1606			1	1	1	1							
7	Bearings, sets, compressor motor TB-1602	TB-1604			1	1	1	1							
8	Union, brass, 1/4" tubing compression type	TB-1607			1	1	1	1							
9	Adapter, #N646F - 1/4" x 1/4"	TB-1608			1	1	1	1							
10	Adapter, #N646F - 1/4" x 1/8"	TB-1609			1	1	1	1							
11	Gauge, Marsh, 2-1/2" compound, 30 to 150 lb. range	TB-1610			1	1	1	1							
12	Freon, 25 lb. tanks	TB-1611			1	1	1	1							
13	Motor, compressor for TB-1602	TB-1605			1	1	1	1							

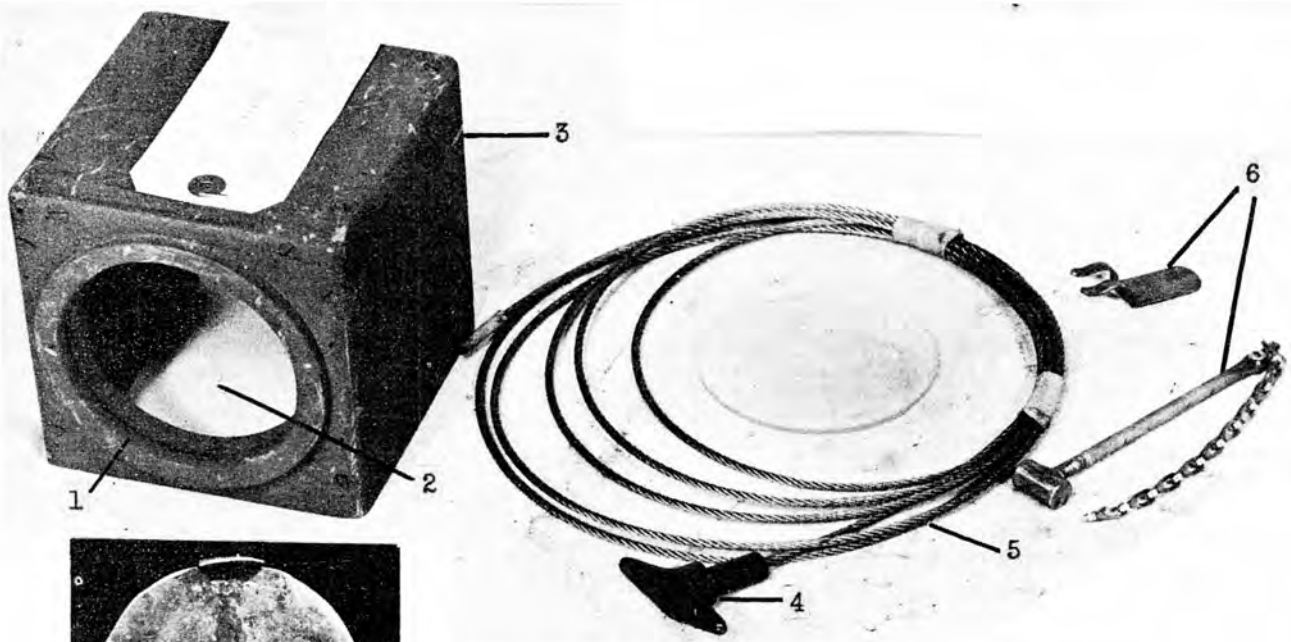


PHOTO 164 (SEE DESCRIPTION PAGES 39, 54 and 56)

1 - TB-2330
2 - TB-2322
3 - TB-2319
4 - TB-2314
5 - TB-1304
6 - TB-2318

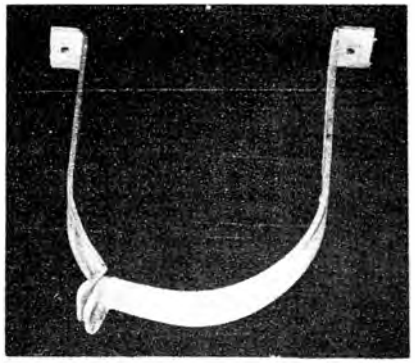


PHOTO 165(SEE DESCRIPTION PAGE 56)

1 - TB-2331

PHOTO 166(SEE DESCRIPTION PAGE 56)

1 - TB-2332

PHOTO 168(SEE DESCRIPTION PAGE 55)

1 - TB-2323

PHOTO 167(SEE DESCRIPTION PAGE 54)

1 - TB-2316

PHOTO 169(SEE DESCRIPTION PAGE 54)

1 - TB-2315

PHOTO 170(SEE DESCRIPTION PAGE 56)

1 - TB-2334

PHOTO 171(SEE DESCRIPTION PAGE 56)

1 - TB-2333

PHOTO 172(SEE DESCRIPTION PAGE 56)

1 - TB-2324

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 71-94										
	CO2 SYSTEM (ALFITE)														
1	System, YG 35 lb., alfite	TB-2310	2602-13	484532	2										
2	Tee, brass, 1/2" SPS	TB-2335	2602-13	484532	6										
3	Adapter, male, 1/2" C x 1/2" SPS, brass #404	TB-2204	2602-13	484532	7										
4	Ell, 90° - 1/2" sweat St. #407s	TB-2300	2602-13	484532	3										
5	Tubing, copper, 5/8" OD	TB-2904	2602-13	484532	65'										
6	Tee, sweat, 1/2" W-411	TB-1401	2602-13	484532	10										
7	Ell, sweat type #407 - 1/2" - 90°	TB-2301	2602-13	484532	3										
8	Adapter, female, 1/2" C x 1/2" SPS (C.403)	TB-2302	2602-13	484532	9										
9	System, yacht, YG 75 lb.	TB-2311	2602-13	484532	1										
10	Nut, 5/8" flare type	TB-2303	2602-13	484532	3										
11	Union, half, 5/8" C x 1/2" SPS, flare	TB-2613	2602-13	484532	1										
12	Nuts, lock pipe 1/2" SPS	TB-2016	2602-13	484532	2										
13	Ell, flare 90° - 5/8" C x 1/2" SPS	TB-2304	2602-13	484532	2										
14	Nipples, pipe 1/2" SPS x 2" brass	TB-2608	2602-13	484532	4										

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 71-94										
	CO2 SYSTEM (ALFITE)														
15	Adapter, female, 1/2" C x 3/8" SPS, #403	TB-2312	2602-13	484532	1										
16	Nuts, lock, 3/8" SPS, brass	TB-2313	2602-13	484532	10										
17	Handle, pull cable, Pattern T-25, brass	TB-2314	2602-13	484532	6									4	164
18	Pipe, 3/8" SPS, brass	TB-2400	2602-13	484532	4'										
19	Adapter, male, 1/2" x 3/8" SPS, #404	TB-2305	2602-13	484532	2										
20	Ell, sweat, 1/2" C x 3/8" SPS, 90° - C409	TB-2306	2602-13	484532	2										
21	Union, male, 1/2" C x 1/2" SPS, #C402M	TB-2307	2602-13	484532	1										
22	Union, 1/2" x 1/2", brass, #402	TB-2308	2602-13	484532	2										
23	Pulley, elbow type, alfite	TB-2315	0602-13	484532	7									1	169
24	Pulley, brass, Wilcox 575, size 3	TB-2316	2602-13	484532	3									1	167
25	Nipples, brass, 3/8" x 2"	TB-2317	2602-13	484532	4										
26	Breaker, glass, brass	TB-2318	2602-13	484532	4									6	164

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS								Figure No.	Photo No.
					Pt 71-94									
	CO2 SYSTEM (ALFITE) (Continued)													
27	Box, deck type pull	TB-2319	2602-13	484532	2								3	164
28	Box, bulkhead type pull	TB-2320	2602-13	484532	2									
29	Glass, pull box, single strength, 3-3/4" dia.	TB-2322	2602-13	484532	4								2	164
30	Nozzles	TB-2323	2602-13	484532	15								1	168
31	Switch pressure	TB-2324	2602-13	484532	2								1	172

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS								Figure No.	Photo No.
					Pt 197-254	Pt 265-313	Pt 450-485							
	CO2 SYSTEM (LUX)													
1	Lux 35 lb. Fire Ext. System	TB-2325	2602-13A	553589	2	2	2							
2	Coupling, 1/2" pipe, brass	TB-2604	2602-13A	553589	3	3	3							
3	Tee, 1/2" pipe	TB-2336	2602-13A	553589	6	6	6							
4	Union, half, 1/2" x 1/2", flare type	TB-2308	2602-13A	553589	2	2	2							
5	Nut, tube flare, 1/2"	TB-2326	2602-13A	553589	4	4	4							
6	Tube, copper, 1/2" OD	TB-2903	2602-13A	553589	5'	5'	5'							
7	Union, half, 1/2" C x 3/8" SPS, brass flare	TB-2327	2602-13A	553589	2	2	2							
8	Pulley #3, brass, WC-575	TB-2316	2602-13A	553589	7	7	7						1	167
9	Pulley, ell type	TB-2315	2602-13A	553589	9	9	9						1	169
10	Adapter, male, pipe 3/8" C x 3/8" SPS, brass 404	TB-1115	2602-13A	553589	2	2	2							
11	Pipe, brass, 3/8"	TB-2400	2602-13A	553589	4'	4'	4'							
12	Nipple, pipe, brass, 3/8" x short	TB-2317	2602-13A	553589	2	2	2							
13	Nut, pipe lock, 3/8" brass	TB-2313	2602-13A	553589	10	10	10							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 197-254	PT 265-313	PT 450-485									
	CO2 SYSTEM (LUX) (Continued)															
14	Handles, pull box, Pattern T-95	TB-2314	2602-13A	553589	6	6	6								4	164
15	Ell, male, 1/2" SPS x 5/8" C, 90° flare	TB-2304	2602-13A	553589	2	2	2									
16	Tubing, 5/8" OD, copper	TB-2904	2602-13A	553589	63'	63'	63'									
17	Nut, tube, 5/8" flare	TB-2303	2602-13A	553589	3	3	3									
18	Adapter, female, 1/2" C x 1/2" SPS, C403	TB-2302	2602-13A	553589	9	9	9									
19	Nipple, brass, 1/2" x short, SPS	TB-2608	2602-13A	553589	3	3	3									
20	Nut, pipe lock, 1/2"	TB-2016	2602-13A	553589	2	2	2									
21	Ell, st., 1/2" - 90°, #407s	TB-2300	2602-13A	553589	2	2	2									
22	Adapter, male, 1/2" C x 1/2" SPS, #404	TB-2204	2602-13A	553589	4	4	4									
23	Nozzle, CO2	TB-2323	2602-13A	553589	15	15	15								1	168
24	Lux, 75 lb., fire ext. system	TB-2328	2602-13A	553589	1	1	1									
25	Union, half 5/8" C x 1/2" SPS, brass, flare	TB-2613	2602-13A	553589	1	1	1									
26	Ell, 90° - 1/2, #407	TB-2301	2602-13A	553589	2	2	2									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 197-254	PT 265-313	PT 450-485									
	CO2 SYSTEM (LUX) (Continued)															
27	Pulley, swivel, #WC381, brass	TB-2329	2602-13A	553589	1	1	1									
28	Breaker, glass, with clip	TB-2318	2602-13A	553589	4	4	4								6	164
29	Box, pull, deck type	TB-2319	2602-13A	553589	2	2	2								3	164
30	Box, pull, bulkhead type	TB-2320	2602-13A	553589	2	2	2									
31	Glass, pull box, 3-3/4" dia.	TB-2322	2602-13A	553589	4	4	4								2	164
32	Switch, automatic pressure	TB-2324	2602-13A	553589	2	2	2								1	172
33	Tee, chase, Wall - 1/2" sweat	TB-1401	2602-13A	553589	8	8	8									
34	Rim, glass, pull box	TB-2330	2602-13A	553589	4	4	4								1	164
35	Bracket, Portable Extinguisher, 15 lb.	TB-2331	2602-13A	553589	3	3	3								1	165
36	Strap, Portable Extinguisher, 15 lb.	TB-2332	2602-13A	553589	3	3	3								1	166
37	Cutter head, alfite	TB-2333	2602-13A	553589	3	3	3								1	171
38	Cutter head, Lux	TB-2334	2602-13A	553589	3	3	3								1	170

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS				
					PT 71-94	PT 197-254	PT 265-313	PT 450-485	
	FASTENING SCHEDULE								
1	Bolts, carriage, sheer bracket, galvanized, 1/4" x 1 3/4"	TB-3211	2602-6A	553552	940	940	940	940	
2	Bolts, carriage, chine bracket, galvanized, 1/4" x 1-3/4"	TB-3211	2602-6A	553552	600	600	600	600	
3	Bolts, carriage, chine bracket, galvanized, 1/4" x 3-1/2"	TB-3205	2602-6A	553552	382	382	382	382	
4	Bolts, carriage, chine bracket, galvanized, 1/4" x 2-1/4"	TB-3212	2602-6A	553552	382	382	382	382	
5	Bolts, carriage, floor frames, galvanized, 1/4" x 2-3/4"	TB-3203	2602-6A	553552	945	945	945	945	
6	Bolts, carriage, frames thru keel, galvanized, 3/8" x 9"	TB-3213	2602-6A	553552	80	80	80	80	
6A	Bolts, carriage, frames thru keel, galvanized, 3/8" x 16-1/2"	TB-3214	2602-6A	553552	80	80	80	80	
7	Washers, aluminum special, 3/16" x 2" x 3"	TB-3508	2602-6A	553552	80	80	80	80	
8	Bolts, carriage, sheer to frame, galvanized, 5/16" x 6"	TB-3215	2602-6A	553552	132	132	132	132	
9	Bolts, carriage, chine to frame, everdur, 5/16" x 4-1/2"	TB-3216	2602-6A	553552	138	138	138	138	

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS				
					PT 71-94	PT 197-254	PT 265-313	PT 450-485	
	FASTENING SCHEDULE (Continued)								
10	Screws, flathead wood, everdur, 1-1/4", #10	TB-3706	2602-6A	553552	500	500	500	500	
11	Screws, flathead wood, everdur, 2-1/2", #12	TB-3707	2602-6A	553552	100	100	100	100	
12	Carriage bolts, Stringer, galvanized, 5/16" x 11"	TB-3217	2602-6A	553552	300	300	300	300	
12A	Carriage bolts, Stringer, galvanized, 5/16" x 13"	TB-3218	2602-6A	553552	300	300	300	300	
13	Carriage bolts, water tight bulkhead, 1/4" x 2-1/2"	TB-3202	2602-6A	553552	692	692	692	692	
14	Bolts, carriage, water tight bulkhead, galvanized, 1/4" x 2-3/4"	TB-3203	2602-6A	553552	250	250	250	250	
15	Bolts, carriage, longitudinal bulkhead, galvanized, 1/4" x 2-3/4"	TB-3203	2602-6A	553552	550	550	550	550	
16	Bolts, carriage, longitudinal bulkhead, galvanized, 1/4" x 3"	TB-3204	2602-6A	553552	550	550	550	550	
17	Bolts, carriage, water tight bulkhead stiffners, galvanized, 1/4" x 5-1/2"	TB-3208	2602-6A	553552	275	275	275	275	

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS				
					PT 71-94	PT 197-254	PT 265-313	PT 450-485	
	FASTENING SCHEDULE (Continued)								
18	Nails, inner planking, 1-1/4"	TB-3605	2602-6A	553552	1/2 K	1/2 K	1/2 K	1/2 K	
19	Screws, flat head wood, everdur, 2-1/2", #16	TB-4025	2602-6A	553552	8392	8392	8392	8392	
20	Staples, bottom planking, copper	TB-3606	2602-6A	553552	4000	4000	4000	4000	
21	Screws, flathead wood, everdur, side planking, 2-1/2", #14	TB-3709	2602-6A	553552	6000	6000	6000	6000	
22	Staples, side planking, copper	TB-3607	2602-6A	553552	6000	6000	6000	6000	
23	Carriage bolts covering boards, galvanized, 1/4" x 7"	TB-3220	2602-6A	553552	240	240	240	240	
24	Screws, flathead wood, everdur, deck planking, 2", #10	TB-3710	2602-6A	553552	400	400	400	400	
25	Screws, flathead wood, everdur, deck planking, 2", #12	TB-3711	2602-6A	553552	4650	4650	4650	4650	
26	Staples, deck planking, copper	TB-3608	2602-6A	553552	4000	4000	4000	4000	
27	Screws, guard rail, everdur, 1-1/4", #10	TB-3706	2602-6A	553552	300	300	300	300	
28	Screws, guard rail, everdur, 3", #18	TB-3712	2602-6A	553552	1000	1000	1000	1000	

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS				
					PT 71-94	PT 197-254	PT 265-313	PT 450-485	
	FASTENING SCHEDULE (Continued)								
29	Bolts, carriage, galvanized, 1/4" x 4-1/2"	TB-3221	2602-6A	553552	500	500	500	500	
30	Screws, flathead wood, chine angle, everdur, 1", #10	TB-3713	2602-6A	553552	2100	2100	2100	2100	
31	Bolts, carriage toe rail, galvanized, 1/4" x 4-1/4"	TB-3221A	2602-6A	553552	26	26	26	26	
32	Screws, flathead wood cap to lower cap, everdur, 1-1/2", #10	TB-3732	2602-6A	553552	75	75	75	75	
33	Screws, flathead machine butt block, everdur, 1/4" x 2"	TB-5598	2602-6A	553552	1300	1300	1300	1300	
34	Bolts, carriage angle to stringer, galvanized, 1/4" x 2-3/4"	TB-3203	2602-6A	553552	334	334	334	334	
35	Bolts, carriage angle to frame, galvanized, 1/4" x 2-1/4"	TB-3212	2602-6A	553552	720	720	720	720	
36	Rivets, deck, copper, flathead, 1-1/8", #9	TB-3609	2602-6A	553552	15000	15000	15000	15000	
37	Rivets, bottom, copper flathead, 1-1/4, #8	TB-3610	2602-6A	553552	12000	12000	12000	12000	

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS				
					PT 71-94	PT 197-254	PT 265-313	PT 450-485	
	FASTENING SCHEDULE (Continued)								
38	Rivets, side, copper flathead, 1-1/8", #8	TB-3611	2602-6A	553552	12000	12000	12000	12000	
39	Bolts, carriage, charthouse sill, galvanized, 1/4" x 4-1/2"	TB-3221	2602-6A	553552	200	200	200	200	
40	Screws, flathead wood, everdur, charthouse top, 1", #8	TB-3714	2602-6A	553552	200	200	200	200	
41	Screws, flathead wood, everdur, charthouse side, 1-1/4", #8	TB-3715	2602-6A	553552	150	150	150	150	

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 277-288								Figure No.	Photo No.
	AIR COMPRESSOR INSTALLATION (3GW WESTINGHOUSE OUTBOARD MOTOR DRIVEN)													
1	Fitting, thru hull, 3/4", brass, hose type	TB-1406	2602-7ZZ	603272	1									
2	Hose, radiator, 7/8" ID, 5 ply	TB-3005	2602-7ZZ	603272	1'									
3	Muffler	TB-1452	2602-7ZZ	603272	1								1	178
4	Exhaust	TB-1453	2602-7ZZ	603272	1								1	181
5	Reducer, galvanized, 1" x 3/4" SPS	TB-1431	2602-7ZZ	603272	1									
6	Nipple, galvanized pipe, 1" x 6"	TB-1432	2602-7ZZ	603272	1									
7	Ell, 3/8" C x 3/8" SPS, flare type	TB-1402	2602-7ZZ	603272	5									
8	Nut, tube flare, 3/8" brass	TB-1405	2602-7ZZ	603272	10									
9	Cooler, air	TB-1433	2602-320		1								1	180
10	Tubing, 3/8" OD, copper	TB-2902	2602-7ZZ	603272	11'									
11	Tubing, copper, 1/4" OD	TB-2901	2602-7ZZ	603272	25'									
12	Tubing, copper, 5/8" OD	TB-2904	2602-7ZZ	603272	10'									

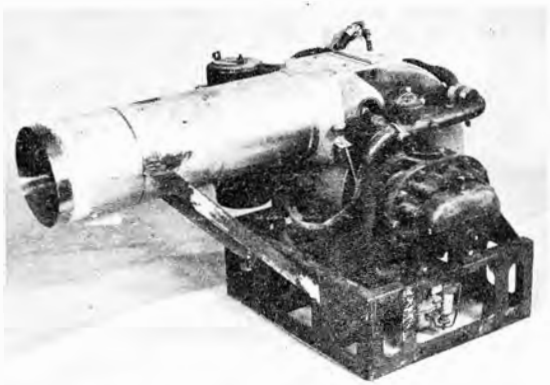


PHOTO 173 (SEE DESCRIPTION PAGE 65)
1 - TB-1719

PHOTO 174
(SEE DESCRIPTION PAGE 63)
1 - TB-1414

PHOTO 175
(SEE DESCRIPTION PAGE 62)
1 - TB-1448

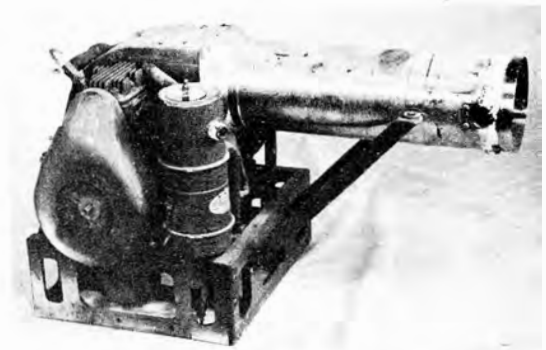


PHOTO 176 (SEE DESCRIPTION PAGE 65)
1 - TB-1720

PHOTO 177 (SEE DESCRIPTION PAGE 64)
1 - TB-1451

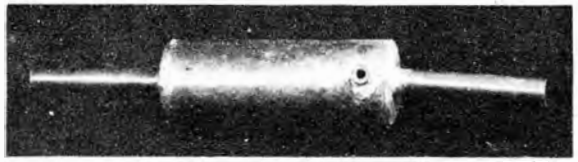


PHOTO 178 (SEE DESCRIPTION PAGE 59)
1 - TB-1452

PHOTO 179 (SEE DESCRIPTION PAGE 73)
1 - TB-1518

PHOTO 180 (SEE DESCRIPTION PAGE 59)
1 - TB-1433

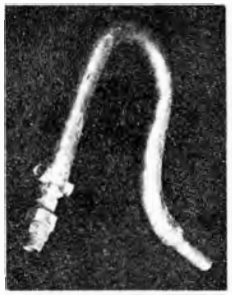


PHOTO 181 (SEE DESCRIPTION PAGE 59)
1 - TB-1453

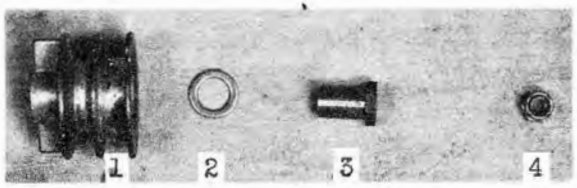


PHOTO 182 (SEE DESCRIPTION PAGE 66)
1 - TB-1721
2 - TB-1723
3 - TB-1722
4 - TB-1724

PHOTO 183 (SEE DESCRIPTION PAGE 62)
1 - TB-1519

PHOTO 184 (SEE DESCRIPTION PAGE 62)
1 - TB-1454

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 277-288										
	AIR COMPRESSOR INSTALLATION (3GW WESTINGHOUSE OUTBOARD MOTOR DRIVEN (Continued)														
13	Tubing, copper, 3/16" OD	TB-2918	2602-7ZZ	603272	4'										
14	Union, half, 3/16" C x 1/4" SPS, flare	TB-1434	2602-7ZZ	603272	1										
15	Nut, tube, 3/16"	TB-1435	2602-7ZZ	603272	1										
16	Valve, 1/4" SPS, gate, brass, pipe	TB-1407	2602-7ZZ	603272	1										
17	Bushing, reducing, 1/2" x 3/8" SPS	TB-2600	2602-7ZZ	603272	1										
18	Fill, deck plate, 1-1/2"	TB-1436	2602-7ZZ	603272	1										
19	Adapter, male, 1-1/2" x 1-1/2", Chase #404, sweat	TB-1437	2602-7ZZ	603272	1										
20	Tubing, copper, 1-5/8" OD	TB-2908	2602-7ZZ	603272	4'										
21	Hose, 1-5/8" ID, neoprene	TB-1438	2602-7ZZ	603272	6"										
22	Bushing, reducing, 1/2" x 3/8" SPS, galvanized	TB-1439	2602-7ZZ	603272	1										
23	Nipple, 3/8" x 3", brass	TB-1440	2602-7ZZ	603272	1										
24	Valve, gate, 3/8" SPS	TB-1523	2602-7ZZ	603272	1										

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 277-288										
	AIR COMPRESSOR INSTALLATION (3GW WESTINGHOUSE OUTBOARD MOTOR DRIVEN) (Continued)														
25	Union, half, 3/8" x 3/8", flare type	TB-1441	2602-7ZZ	603272	1										
26	Union, half, 3/8" C x 1/4" SPS, flare type	TB-1442	2602-7ZZ	603272	1										
27	Bushing, reducing, 3/8" x 1/4" SPS, galvanized	TB-1443	2602-7ZZ	603272	1										
28	Ell, male, 90°-1/4" x 1/4", flare	TB-1404	2602-7ZZ	603272	2										
29	Nuts, flare tube, 1/4"	TB-1219	2602-7ZZ	603272	4										
30	Union, 1/4" C x 1/4" C, flare type	TB-1444	2602-7ZZ	603272	1										
31	Hose, neoprene, 5/8" ID	TB-1445	2602-7ZZ	603272	8"										
32	Fitting, thru hull, 1/2" hose type	TB-1446	2602-7ZZ	603272	1										
33	Clamp, hose Actus, stainless steel	TB-3100	2602-7ZZ	603272	8										
34	Tee, pipe, 1/2", brass	TB-2615	2602-7ZZ	603272	1										
35	Valve, gate, 1/2" SPS, brass	TB-1400	2602-7ZZ	603272	1										
36	Scoop, hi-pressure, 1/2" SPS, brass	TB-1516	2602-7ZZ	603272	1										
37	Ell, 1" SPS, galvanized	TB-1447	2602-7ZZ	603272	1										

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS								Figure No.	Photo No.
					Pt 277-288									
	AIR COMPRESSOR INSTALLATION (3GW WESTINGHOUSE OUTBOARD MOTOR DRIVEN) (Continued)													
38	Strainer, 3/8" fuel, C1A, aluminum, Spec. 4000	TB-1519	2602-7ZZ	603272	1								1	183
39	Tank, air compressor fuel	TB-1448	2602-7ZZ	603272	1								1	175
40	Compressor, air, Westinghouse - Champion 3GW - 38 complete with outboard motor	TB-1417	2602-7ZZ	603272	1									
41	Fitting, tank outlet, Pattern T-30	TB-1124	2602-7ZZ	603272	1									
42	Fitting, tank drain, Pattern T-31	TB-1125	2602-7ZZ	603272	1									
43	Tubing, 1-3/4" OD, copper	TB-1449	2602-7ZZ	603272	2'									
44	Flange, 3-3/4" Dia. x 1/8", aluminum	TB-1450	2602-7ZZ	603272	1									
45	Line, air compressor fill	TB-1454			1								1	184

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS								Figure No.	Photo No.
					Pt 71-94	Pt 197-254								
	AIR COMPRESSOR INSTALLATION (LAWSON ENGINE DRIVEN) INCLUDING TORPEDO TUBE EXACTOR CONTROL LINES & HEATER													
1-8	Engine bed, air compressor and heater	TB-5564	2602-16	484566	1	1								
9	Scoop, Wilcox #8572 - 1/2"	TB-1516	2602-16	484566	1	1								
10	Valve, brass gate, 1/2" SPS	TB-1400	2602-16	484566	1	1								
11	Tee, pipe, brass, 1/2" SPS	TB-2615	2602-16	484566	1	1								
12	Bushing, pipe, brass, 1/2" x 3/8" SPS	TB-2600	2602-16	484566	2	2								
13	Ell, flare type, brass, 90°, 3/8" C x 3/8" SPS	TB-1402	2602-16	484566	3	3								
14	Ell, flare type, brass, 90°, 3/8" C x 1/4" SPS, male	TB-1403	2602-16	484566	3	3								
15	Ell, pipe, 90°, 1/4" SPS	TB-1422	2602-16	484566	3	3								
16	Nut, tube, flare, brass, 3/8"	TB-1405	2602-16	484566	9	9								
17	Nut, tube, flare, brass, 1/4"	TB-1219	2602-16	484566	3	3								
18	Hose, radiator, 7/8" ID	TB-3005	2602-16	484566	2	2								
19	Connection, brass, thru hull, 3/4	TB-1406	2602-16	484566	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254							Figure No.	Photo No.
	AIR COMPRESSOR INSTALLATION (LAWSON ENGINE DRIVEN) INCLUDING TORPEDO TUBE EXACTOR CONTROL LINES & HEATER (Continued)													
20	Hose, radiator, 3/8" ID	TB-3000	2602-16	484566	1'	1'								
21	Tee, flare type, brass, 1/4" SPS x 1/4" SPS x 3/8" C	TB-1423	2602-16	484566	1	1								
22	Valve, brass gate, 1/4" SPS	TB-1407	2602-16	484566	2	2								
23	Clamp, hose, adjustable, stainless, Actus	TB-3100	2602-16	484566	6	6								
24	Union, male, #402M, 3/4" C x 3/4" SPS	TB-2614	2602-16	484566	1	1								
25	Nuts, brass, lock, 1/4" SPS	TB-1424	2602-16	484566	8	8								
26	Nipple, Eastman #1070 - 1/8" extra heavy close, steel cadmium plated	TB-1408	2602-16	484566	4	4								
27	Nipple, brass, 1/8" x 2"	TB-1409	2602-16	484566	2	2								
28	Ell, brass, flare type, 90°, 1/4" C x 1/8" SPS	TB-1410	2602-16	484566	4	4								
29	Nut, brass, flare type, 1/4"	TB-1219	2602-16	484566	8	8								
30	Union, half, brass, flare type, 1/4" C x 1/8" SPS	TB-1411	2602-16	484566	4	4								
31	Adapter, male, JT#832, Eastman, 1/8"	TB-1425	2602-16	484566	4	4								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254							Figure No.	Photo No.
	AIR COMPRESSOR INSTALLATION (LAWSON ENGINE DRIVEN) INCLUDING TORPEDO TUBE EXACTOR CONTROL LINES AND HEATER (Continued)													
32	Union, adapting, 1/8" male and female, brass, Eastman #960	TB-1412	2602-16	484566	4	4								
33	Tubing, copper, 1/4"	TB-2901	2602-16	484566	210'	210'								
34	Tubing, copper, 3/8"	TB-2902	2602-16	484566	17'	17'								
35	Exhaust, compressor, complete with muffler	TB-1413	2602-16	484566	1	1								
36	Muffler, compressor (See Item 35)													
37	Exhaust, heater, copper	TB-1414	2602-16	484566	1	1							1	174
38	Hose, radiator, 1-1/8" OD	TB-3021	2602-16	484566	3	3								
39	Tape, asbestos, 1/16" x 4"	TB-1418	2602-16	484566	6'	6'								
40	Tube, stainless steel, 1/2" OD	TB-1427	2602-16	484566										
41	Glue, asbestos tape, 1/2 lb.	TB-1428	2602-16	484566	1	1								
42	Connection, thru hull, brass #857 - 1"	TB-1208	2602-16	484566	1	1								
43	Hose, 1/4" - 2, wire braid, HYD x 52"	TB-1421	2602-16	484566	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254							Figure No.	Photo No.
	AIR COMPRESSOR INSTALLATION (LAWSON ENGINE DRIVEN) INCLUDING TORPEDO TUBE EXACTOR CONTROL LINES AND HEATER (Continued)													
44	Pan, drip, Exactor control	TB-1429	2602-16	484566	1	1								
45	Pump, heater circulating water	TB-1451	2602-16	484566	1	1							1	177
46	Compressor, complete with Lawson Engine, Type LF878, complete	TB-1416	2602-16	484566	1	1								
47	Belt, air compressor	TB-1419	2602-16	484566	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254							Figure No.	Photo No.
	HEATING AND VENTILATING													
1	Offset Bend Duct, Heater to Forecastle	TB-5529	2602-15	484564	1	1								
2	Transition piece Duct, Heater to Forecastle	TB-5530	2602-15	484564	1	1								
3	Straight section Duct, Heater to Forecastle	TB-5531	2602-15	484564	1	1								
4	Elbow Duct, Heater to Forecastle	TB-5532	2602-15	484564	1	1								
5	Straight section Duct, Heater to Forecastle	TB-5533	2602-15	484564	1	1								
6	Elbow Duct, Heater to Forecastle	TB-5534	2602-15	484564	1	1								
7	Offset Bend Duct, Heater to Forecastle	TB-5535	2602-15	484564	1	1								
8	Elbow Duct, Heater to Forecastle	TB-5536	2602-15	484564	1	1								
9	Straight section Duct, Heater to Forecastle	TB-5537	2602-15	484564	3	3								
10	Cap Duct, Heater to Forecastle	TB-5538	2602-15	484564	1	1								
11	Straight section Duct, Heater to Forecastle	TB-5539	2602-15	484564	1	1								
12	Straight section Duct, Heater to Forecastle	TB-5540	2602-15	484564	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254								Figure No.	Photo No.
	HEATING AND VENTILATING														
13	Transition piece Duct, Heater to Forecastle	TB-5541	2602-15	484564	1	1									
14	Outlet Duct, Heater to Forecastle	TB-5542	2602-15	484564	3	3									
15	Outlet section Duct, Heater to Forecastle	TB-5543	2602-15	484564	1	1									
16	Straight section Duct, Heater to Forecastle	TB-5544	2602-15	484564	1	1									
17	Straight section Duct, Heater to Forecastle	TB-5545	2602-15	484564	1	1									
18	Elbow Duct, Heater to Forecastle	TB-5546	2602-15	484564	1	1									
19	Straight section Duct, Heater to Forecastle	TB-5547	2602-15	484564	1	1									
20	Elbow Duct, Heater to Forecastle	TB-5548	2602-15	484564	1	1									
21	Straight section Duct, Heater to Forecastle	TB-5549	2602-15	484564	1	1									
22	Outlet Duct, Heater to Forecastle	TB-5550	2602-15	484564	1	1									
23	Straight section Duct, Heater to Forecastle	TB-5551	2602-15	484564	1	1									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254								Figure No.	Photo No.
	HEATING AND VENTILATING (Continued)														
24	Transition section Duct, Heater to Forecastle	TB-5552	2602-15	484564	1	1									
25	Wood section Duct, Heater to Forecastle	TB-5553	2602-15	484564	1	1									
26	Heater, Stewart Warner Model 782E	TB-1719	2602-15	484564	1	1								1	173
27	Blower, B-9 I.L.G.	TB-1700	2602-15	484564	3	3									
28	Blower, B-12 I.L.G.	TB-1709	2602-15	484564	4	4									
29	Flame Arrestor	TB-5554	2602-15C		2	2									
30	Vent water box	TB-5555	2602-15	484564	1	1									
31	Blower Duct, engine room	TB-5556	2602-15	484564	1	1									
32	Cap, aluminum, Deck opening	TB-5557	2602-7W		1	1									
33	Flange, aluminum, deck opening cap	TB-5558	2602-7W		1	1									
34	Register, Steel Waterloo #F100	TB-5559	2602-15	484564	8	8									
35	Heater, Stewart Warner Model 782D	TB-1720	2602-15	484564	1	1								1	176

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS								Figure No.	Photo No.
					PT 71-94	PT 197-254								
	HEATING AND VENTILATING (Continued)													
36	Sheave, heater engine	TB-1721			1	1							1	182
37	Nut, heater engine	TB-1722			1	1							3	182
38	Washer, heater engine	TB-1723			1	1							2	182
39	Locknut, heater engine	TB-1724			1	1							4	182

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS								Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						
	ELECTRICAL - BLOWER PARTS													
	B-9 I.L.G. Blower Parts													
1	Bearings, blower sets complete	TB-1701			1	1	1	1						
2	Blade, blower #901	TB-1702			1	1	1	1						
3	Motor, GE, Model 5BC, 26AC, 1/20 HP, 24 Volt	TB-1703			1	1	1	1						
4	Armature, GE Motor	TB-1704			1	1	1	1						
5	Bearings, Motor set GE	TB-1705			1	1	1	1						
6	Brushes, GE Motor	TB-1706			1	1	1	1						
7	Holders, Motor brush complete set	TB-1707			1	1	1	1						
8	Coil, Field motor	TB-1708			1	1	1	1						
	B-12 I.L.G. Blower Parts													
1	Bearings, blower sets complete	TB-1710			1	1	1	1						
2	Blade, blower #901	TB-1711			1	1	1	1						
3	Motor, GE, Model 5BG-42	TB-1712			1	1	1	1						
4	Armature, GE Motor	TB-1713			1	1	1	1						
5	Bearings, GE Motor	TB-1714			1	1	1	1						

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	ELECTRICAL - BLOWER PARTS (Continued)														
6	Brushes, GE Motor	TB-1715			1	1	1	1							
7	Holders, Motor brush complete set	TB-1716			1	1	1	1							
8	Coils, Field Motor	TB-1717			1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 295-313	PT 450-485								Figure No.	Photo No.
	ELECTRICAL - AUXILIARY GENERATOR 5.5 KW, CAPITOL														
1	Generator, 5.5 KW, Capitol	TB-1549	2602-7DDD	603266	1	1									
2	Pump, 1-1/4" Higgins turbine, left hand	TB-1550	2602-7DDD	603266	1	1									
3	Exhaust pipe assembly	TB-1501	2602-7DDD	603266	1	1									
4	Hose, 1-3/8" ID radiator, 5 ply x 4"	TB-3008	2602-7DDD	603266	1	1									
5	Connection, 1-1/4" thru hull, hose type (pipe type machined)	TB-1551	2602-7DDD	603266	1	1									
6	Ell, 3/8" x 90° pipe SPS, brass	TB-2611	2602-7DDD	603266	1	1									
7	Pipe, 3/8" SPS, brass x 4"	TB-2400	2602-7DDD	603266	1	1									
8	Hose, 5/8" ID radiator x 4"	TB-3002	2602-7DDD	603266	1	1									
9	Ell, St. 3/8" - 90° SPS, brass	TB-1552	2602-7DDD	603266	1	1									
10	Scoop, 1/2" hi-pressure intake, brass	TB-1516	2602-7DDD	603266	1	1									
11	Valve, 1/2" SPS gate, screw, brass	TB-1400	2602-7DDD	603266	1	1									
12	Bushing, brass, 1/2" x 3/8", reducing SPS	TB-2600	2602-7DDD	603266	1	1									

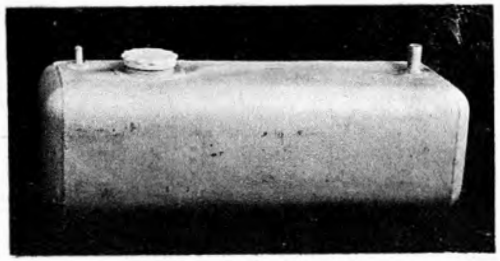


PHOTO 185 (SEE DESCRIPTION PAGE 73)

1 - TB-1517

PHOTO 186 (SEE DESCRIPTION PAGE 71)

1 - TB-1500

PHOTO 187 (SEE DESCRIPTION PAGE 73)

1 - TB-1519

PHOTO 189 (SEE DESCRIPTION PAGE 71)

1 - TB-1503

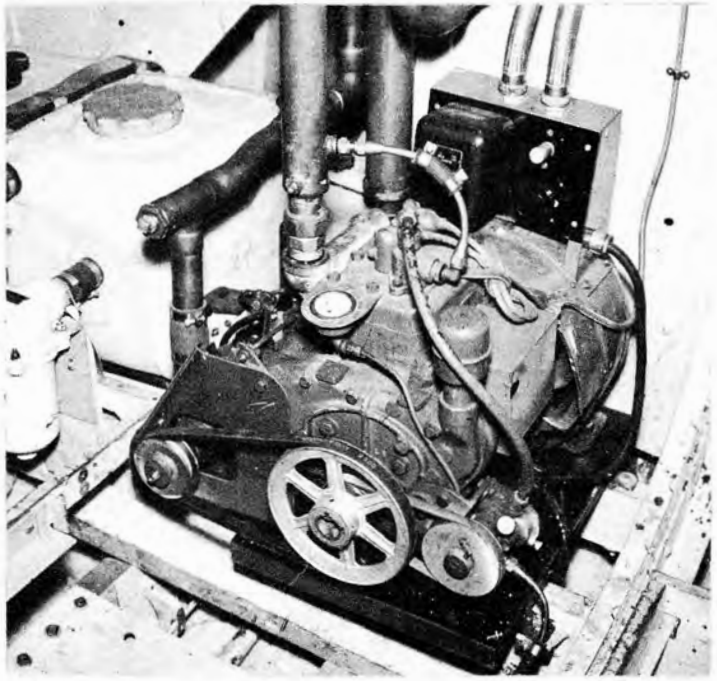


PHOTO 188 (SEE DESCRIPTION PAGE 71)

1 - TB-1529

PHOTO 190 (SEE DESCRIPTION PAGE 72)

1 - TB-1528

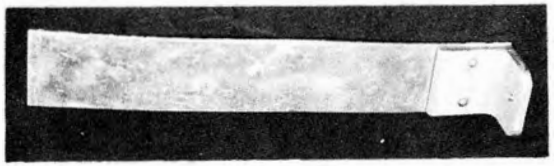


PHOTO 191 (SEE DESCRIPTION PAGE 74)

1 - TB-1543

PHOTO 192 (SEE DESCRIPTION PAGE 71)

1 - TB-1504

PHOTO 193 (SEE DESCRIPTION PAGE 73)

1 - TB-1518

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 295-313	PT 450-485							Figure No.	Photo No.
	ELECTRICAL - AUXILIARY GENERATOR 5.5 KW, CAPITOL (Continued)													
13	Ell, male, 90°, 1/2" C x 5/8" SPS, flare	TB-2304	2602-7DDD	603266	2	2								
14	Nut, tube, 3/8", flare	TB-1405	2602-7DDD	603266	2	2								
15	Valve, 1-1/4" swing check, brass, Sweat	TB-1520	2602-7DDD	603266	1	1								
16	Ell, 90° sweat, 1-1/4", copper	TB-2013	2602-7DDD	603266	1	1								
17	Ell, St., 1-1/4"-90°, sweat, copper	TB-2002	2602-7DDD	603266	1	1								
18	Tee, 1-1/4", copper, sweat, W4ll	TB-1511	2602-7DDD	603266	1	1								
19	Tubing, 1/2" OD, aluminum, 1/16", wall soft temper	TB-2914	2602-7DDD	603266	9"	9"								
20	Tubing, copper, 1-3/8" OD	TB-2907	2602-7DDD	603266	6'	6'								
21	Adapter, male, 1-1/4" C x 1-1/4" SPS, sweat, C-404	TB-2007	2602-7DDD	603266	1	1								
22	Scoop, 1-1/4" hi-pressure, brass, 8572WC	TB-1515	2602-7DDD	603266	1	1								
23	Valve, gate, 1-1/4" SPS, brass, sweat type	TB-1512	2602-7DDD	603266	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 295-313	PT 450-485							Figure No.	Photo No.
	ELECTRICAL - AUXILIARY GENERATOR 5.5 KW, CAPITOL (Continued)													
24	Nipple, 1-1/4" x short, brass	TB-1553	2602-7DDD	603266	1	1								
25	Nipple, hose, beaded, 1-3/8" x 4"	TB-1554	2602-7DDD	603266	1	1								
26	Adapter, male, St., 1-1/4" C x 1-1/4" SPS, C-404	TB-2007	2602-7DDD	603266	1	1								
27	Hose, radiator, 1-5/8" ID, 2' x 3 ply	TB-3010	2602-7DDD	603266	1	1								
28	Tubing, 1-5/8" OD, copper	TB-2908	2602-7DDD	603266	3'	3'								
29	Tee, 1-1/2", W4ll, sweat, copper	TB-1506	2602-7DDD	603266	2'	2'								
30	Bibb, 3/4", male hose	TB-1509	2602-7DDD	603266	1	1								
31	Bushing, 1-1/2" C x 3/4" SPS, special machined from 1-3/4" x 3/4", SPS, bushing	TB-1507	2602-7DDD	603266	1	1								
32	Valve, 1-1/2", swing check, sweat	TB-1526	2602-7DDD	603266	1	1								
33	Connection, 1-1/2" thru hull, hose type, special machined from screw type	TB-1555	2602-7DDD	603266	1	1								
34	Valve, 1-1/2", brass, gate sweat	TB-2012	2602-7DDD	603266	1	1								
35	Ell, St., 1-1/2"-90°, brass, sweat	TB-2028	2602-7DDD	603266	1	1								
36	Ell, St., 1-1/2"-45°, brass, sweat	TB-2027	2602-7DDD	603266	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 295-313	PT 450-485							Figure No.	Photo No.
	ELECTRICAL - AUXILIARY GENERATOR 5.5 KW, CAPITOL (Continued)													
37	Ell, male, 90°, 1-1/2" C x 1-1/2" SPS, brass	TB-1505	2602-7DDD	603266	1	1								
38	Pump, Navy type, hand, bilge, 1-1/4" inlet x 1-1/2" outlet, brass	TB-2004	2602-7DDD	603266	1	1								
39	Tubing, 1/4" OD, copper	TB-2901	2602-7DDD	603266	15'	15'								
40	Nuts, 1/4" tube, flare, copper	TB-1219	2602-7DDD	603266	8	8								
41	Tee, 1/4", flare, brass	TB-1556	2602-7DDD	603266	2	2								
42	Ell, male, 90°-1/4" x 1/4", flare, brass	TB-1404	2602-7DDD	603266	2	2								
43	Sheave, vee belt, type B - 3-1/2" dia. - 3/8" bore	TB-1557	2602-7DDD	603266	1	1								
44	Belt, vee, type B - 47"	TB-1558	2602-7DDD	603266	1	1								
45	Bracket, bilge pump top, aluminum	TB-1559	2602-7DDD	603266	1	1								
46	Bracket, bilge pump bottom, aluminum	TB-1560	2602-7DDD	603266	1	1								
47	Bracket, turbine pump, aluminum	TB-1561	2602-7DDD	603266	1	1								
48	Bolts, carriage, 1/4" x 2-1/4", galvanized	TB-1562	2602-7DDD	603266	36	36								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 295-313	PT 450-485							Figure No.	Photo No.
	ELECTRICAL - AUXILIARY GENERATOR 5.5 KW, CAPITOL (Continued)													
49	Angle, aluminum, 1/8" - 1" x 1"	TB-1534	2602-7DDD	603266	6'	6'								
50	Bolts, carriage, 3/8" x 8", galvanized	TB-1563	2602-7DDD	603266	4	4								
51	Foundation, spruce, 2" x 4"-36"	TB-1564	2602-7DDD	603266	1	1								
52	Foundation, spruce, 1-1/2" x 5"	TB-1565	2602-7DDD	603266	1	1								
54	Screws, #12 x 4", flathead, brass, wood	TB-1566	2602-7DDD	603266	4	4								
55	Bolts, 1/4" x 1", carriage, galvanized	TB-3200	2602-7DDD	603266	2	2								
56	Angle, 2" x 3" x 1/8" - 7" long, aluminum	TB-1567	2602-7DDD	603266	1	1								
57	Spruce, 7" x 7" x 2"	TB-1568	2602-7DDD	603266	1	1								
58	Bolts, 1/4" x 2-1/2", carriage, galvanized	TB-3202	2602-7DDD	603266	4	4								
59	Bolts, 1/2" x 3-1/2", carriage, galvanized	TB-1569	2602-7DDD	603266	2	2								
60	Union, half, 1/2" C x 3/8" SPS, flare type	TB-1570	2602-7DDD	603266	2	2								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 295-313	PT 450-485							Figure No.	Photo No.
	ELECTRICAL - AUXILIARY GENERATOR 5.5 KW, CAPITOL (Continued)													
61	Nut, tube, 1/2", flare type	TB-1571	2602-7DDD	603266	5	5								
62	Tubing, 1/2" OD, 1/16", soft wall, aluminum	TB-2914	2602-7DDD	603266	4'	4'								
63	Hose, radiator, 1/2" ID	TB-1572	2602-7DDD	603266	18"	18"								
64	Ell, St., 1/2" SPS - 90°, galvanized	TB-1573	2602-7DDD	603266	1	1								
65	Bushing, 1/2" x 3/8" SPS, reducing, brass	TB-1574	2602-7DDD	603266	1	1								
66	Ell, 1/2" C x 3/8" SPS, 90°, brass, flare type	TB-2306	2602-7DDD	603266	2	2								
67	Adapter, 5/8" x 3/8", swivel, galvanized	TB-1575	2602-7DDD	603266	1	1								
68	Valve, ball check, 1/2" x 3/8", brass	TB-1576	2602-7DDD	603266	1	1								
69	Cooler, air, copper	TB-1577	2602-320		1	1								
70	Bracket, air, cooler	TB-1578	2602-320		1	1								
71	Ell, 3/8", 90°, St., brass SPS	TB-2611	2602-7DDD	603266	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254	PT 265-294						Figure No.	Photo No.
	ELECTRICAL - AUXILIARY GENERATOR 2.5 KW, U.S. MOTORS													
1	Generator, auxiliary, 2.5 KW, 24 volt, U.S. Motors	TB-1529	2602-7X	484539	1	1	1						1	188
2	Exhaust, auxiliary generator complete	TB-1500	2602-7X	484539	1	1	1						1	186
3	Muffler, auxiliary generator complete	TB-1503	2602-7X	484539	1	1	1						1	189
4	Pipe, brass, 3/8" SPS	TB-2400	2602-7X	484539	8'	8'	8'							
5	Ell, brass, 90°, 3/8" SPS	TB-2611	2602-7X	484539	1	1	1							
6	Pipe, galvanized, 1-1/2" SPS	TB-1530	2602-7X	484539	6'	6'	6'							
7	Connection, thru hull, hose type, 1-1/4"	TB-1504	2602-7X	484539	1	1	1						1	192
8	Hose, exhaust, 1-3/8"	TB-3008	2602-7X	484539	18	18	18							
9	Clamps, stainless, adjustable Actus	TB-3100	2602-7X	484539	28	28	28							
10	Pump, bilge, Willis P-1450, Navy hand type	TB-2004	2602-7X	484539	1	1	1							
11	Ell, 1-1/2" C x 1-1/2" SPS - C409, brass	TB-1505	2602-7X	484539	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-294								Figure No.	Photo No.
	ELECTRICAL - AUXILIARY GENERATOR 2.5 KW, U.S. MOTORS (Continued)															
12	Tee, copper, W-411 - 1-1/2", sweat	TB-1506	2602-7X	484539	2	2	2									
13	Adapter, bushing, 1-1/2" C x 3/4" SPS (special)	TB-1507	2602-7X	484539	1	1	1									
14	Plug, brass, 1/4" SPS	TB-1508	2602-7X	484539	1	1	1									
15	Bibb, hose, brass, 3/4", male	TB-1509	2602-7X	484539	1	1	1									
16	Connection, thru hull, brass, 1-1/2"	TB-2006	2602-7X	484539	1	1	1									
17	Hose, radiator, 1-5/8" ID	TB-3010	2602-7X	484539	1	1	1									
18	Valve, gate, 1/2" SPS	TB-1400	2602-7X	484539	1	1	1									
19	Pump, Higgins, turbine, brass, 1-1/4" SPS, complete with 3-1/2" dia. sheave, right hand	TB-2005	2602-7X	484539	1	1	1									
20	Tee, sweat, W411 - 1-1/4"	TB-1511	2602-7X	484539	1	1	1									
21	Valve, gate, brass, 1-1/4" Sweat	TB-1512	2602-7X	484539	1	1	1									
22	Adapter, male, #404, 1-1/4" C x 1-1/4" SPS	TB-2007	2602-7X	484539	2	2	2									
23	Hose, radiator, 1-3/8" ID	TB-3008	2602-7X	484539	1'6"	1'6"	1'6"									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-294								Figure No.	Photo No.
	ELECTRICAL - AUXILIARY GENERATOR 2.5 KW, U.S. MOTORS (Continued)															
24	Valve, gate, brass, 1-1/2" SPS	TB-1514	2602-7X	484539	1	1	1									
25	Scoop, intake hi-speed, WC8572 - 1-1/4" SPS	TB-1515	2602-7X	484539	1	1	1									
26	Scoop, intake hi-speed, WC8572 - 1/2"	TB-1516	2602-7X	484539	1	1	1									
27	Bushing, reducing, 3/8" x 1/2" SPS	TB-2600	2602-7X	484539	1	1	1									
28	Ell, St., 90°, brass, 3/8" C x 3/8" SPS	TB-2610	2602-7X	484539	1	1	1									
29	Hose, neoprene, 1-3/4" ID	TB-3012	2602-7X	484539	1	1	1									
30	Deck plate, brass, 1-1/2" SPS marked "GAS"	TB-1528	2602-7X	484539	1	1	1								1	190
31	Nuts, flare type, tube, 3/8", brass	TB-1405	2602-7X	484539	7	7	7									
32	Tubing, copper, 1-3/8" OD	TB-2907	2602-7X	484539	6'	6'	6'									
33	Half union, flare type, 3/8" C x 3/8" SPS	TB-2702	2602-7X	484539	2	2	2									
34	Tubing, copper, 3/8" OD	TB-2902	2602-7X	484539	34'	34'	34'									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-294									
	ELECTRICAL - AUXILIARY GENERATOR 2.5 KW, U.S. MOTORS (Continued)															
35	Hose, radiator, 3/8" ID	TB-3000	2602-7X	484539	4'	4'	4'									
36	Tank, gasoline, auxiliary generator, 50 gal.	TB-1517	2602-7N		1	1	1								1	185
37	Belt, Bilge pump, Goodrich, #2400	TB-2104	2602-7X	484539	1	1	1									
38	Sheave, bilge pump, 8" dia., Browning BZ80	TB-1518	2602-7X	484539	1	1	1								1	193
39	Bolts, mounting, 1/2" x 2", standard square head, galvanized	TB-1531	2602-7X	484539	2	2	2									
40	Bolts, mounting, 1/2" x 5", standard square head, galvanized	TB-1532	2602-7X	484539	2	2	2									
41	Bolts, carriage, galvanized nuts and washers, 1/8" x 2-3/4"	TB-1533	2602-7X	484539	20	20	20									
42	Angle, aluminum, 1" x 1" x 1/8" - 9-1/2"	TB-1534	2602-7X	484539	2	2	2									
43	Bracket, bilge pump, aluminum	TB-1535	2602-7X	484539	1	1	1									
44	Bracket, auxiliary generator, aluminum	TB-1536	2602-7X	484539	1	1	1									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-294									
	ELECTRICAL - AUXILIARY GENERATOR 2.5 KW, U.S. MOTORS (Continued)															
45	Strainer, auxiliary fuel line, #C1A Specification 4000	TB-1519	2602-7X	484539	1	1	1								1	187
46	Tubing, copper, 1-5/8" OD	TB-2908	2602-7X	484539	5'	5'	5'									
47	Tubing, copper, 3/8" OD	TB-2902	2602-7X	484539	7'	7'	7'									
48	Valve, horizontal swing check, 1-1/4" Sweat	TB-1520	2602-7X	484539	1	1	1									
49	Tee, flare type, brass, 3/8"	TB-1521	2602-7X	484539	1	1	1									
50	Half union, flare type, 1/4" C x 3/8" SPS	TB-2701	2602-7X	484539	1	1	1									
51	Nipple, galvanized, 1/4" x close	TB-2606	2602-7X	484539	1	1	1									
52	Connection, thru hull, brass, 1/2" SPS	TB-1522	2602-7X	484539	1	1	1									
53	Hose, neoprene, 3/4" ID	TB-3003	2602-7X	484539	5'	5'	5'									
54	Valve, gate, brass, 3/8" SPS	TB-1523	2602-7X	484539	2	2	2									
55	Plug, galvanized pipe, 1/2" SPS	TB-1537	2602-7X	484539	1	1	1									
56	Plywood, 3" x 11" - 1/2"	TB-1538	2602-7X	484539	1	1	1									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-294									
	ELECTRICAL - AUXILIARY GENERATOR 2.5 KW, U.S. MOTORS (Continued)															
57	Screws, brass, 1-1/2", #14 flat head wood	TB-1539	2602-7X	484539	3	3	3									
58	Angle, aluminum, 1-1/2" x 1-1/2" - 1/4" x 4' long	TB-1540	2602-7X	484539	2	2	2									
59	Adapter, hose, brass, 1-1/4" hose x 1-1/4" SPS	TB-2007	2602-7X	484539	3	3	3									
60	Bolts, carriage, galvanized nuts and washers, 1/4" x 1"	TB-3200	2602-7X	484539	4	4	4									
61	Screws, galvanized, 1-1/2" x #10 flat head, wood	TB-3701	2602-7X	484539	57	57	57									
62	Bolts, carriage, galvanized nuts and washers, 1/4" x 3-1/4"	TB-1541	2602-7X	484539	4	4	4									
63	Nipple, galvanized, 1/8" x 3" SPS	TB-1542	2602-7X	484539	1	1	1									
64	Strap, aluminum, 1-1/2" x 1/8", gas tank	TB-1543	2602-7X	484539	8	8	8								1	191
65	Bolts, carriage, galvanized nuts and washers, 1/4" x 3"	TB-3204	2602-7X	484539	6	6	6									
66	Adapter, female (#403) 1/2" C x 1/4" SPS	TB-1524	2602-7X	484539	1	1	1									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-294									
	ELECTRICAL - AUXILIARY GENERATOR 2.5 KW, U.S. MOTORS (Continued)															
67	Adapter, female (#403) 1/2" C x 1/2" SPS	TB-1525	2602-7X	484539	1	1	1									
68	Block, end, spruce, 1-5/8" x 7"	TB-1544	2602-7X	484539	1	1	1									
69	Plywood, 2-1/2" x 54" - 5/8"	TB-1545	2602-7X	484539	1	1	1									
70	Brace, 15" x 19" - 1/4"	TB-1546	2602-7X	484539	1	1	1									
71	Block, fill, 1-3/4" x 1-3/4" - 10"	TB-1547	2602-7X	484539	2	2	2									
72	Bolt, special T, and nut	TB-1548	2602-7X	484539	2	2	2									
73	Valve, sweat swing check, 1-1/2"	TB-1526	2602-7X	484539	1	1	1									
74	Bushing, reducing, galvanized, 1/2" x 3/8" SPS	TB-2600	2602-7X	484539	1	1	1									
75	Padding, felt, 1/2" x 2"	TB-1527	2602-7X	484539	15'	15'	15'									

ITEM NO.	ORIGINAL EQUIPMENT INSTALLED ON PT 71-94 & 197-254	MANUFACTURER AND MANUFACTURER'S PART NUMBER	NAVY TYPE 9-S REPLACEMENT EQUIPMENT	MECHANICSBURG PART NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS			
						PT 71-94	PT 197-254	PT 265-313	PT 450-485
	ELECTRICAL								
1	Light fixture w/switch and recept mirror & gangway light	Light. Fix. & Supply Co. 1271-V or Oceanic Product 1151	Blkd. Fix., Clear globe, w/switch, W.T.	TB-4200	9-S-5490-L	10	10	10	10
2	Fixture Type MS - VP	Russell & Stoll 4960	Blkd. Fix., Clear globe, no switch, W.T., Type HS	TB-4201	9-S-5490-L	6	6	6	6
3	Fixture Type MS - with switch VP	Russell & Stoll 4965	Blkd. Fix., Clear globe, no switch, W.T., Type HS	TB-4201	9-S-5490-L	1	1	1	1
			Switch, Snap 10A DP ST-WT, Type CC	TB-4203	9-S-5608-L	1	1	1	1
4	Desk Lamp	E.S. Robert 1591 or 4900	Chart Light, with switch, N.W.T.	TB-4204	9-S-5613-L	3	3	3	3
5	Bow Light	Higgins Dwg. No. 2602-368	Bow Light - Clear Lense - W.T. with 3/4" I.P.S. Jack Staff Socket, Class III	TB-4205	9-S-5497-L	1	1	1	1
6	Side Light Fixtures, Pair, Class 2	Perkins Marine Lamp and Hwd. Co. Fig. 4	Port Light - Red Lense - W.T., Class III	TB-4206	9-S-5498-L	1	1	1	1
			Bracket, Port Light	TB-4207	9-S-5523-L-6	1	1	1	1
			Stbd. Light - Green Lense - W.T., Class III	TB-4208	9-S-5498-L	1	1	1	1
			Bracket, Stbd. Light	TB-4209	9-S-5523-L-5	1	1	1	1

ITEM NO.	ORIGINAL EQUIPMENT INSTALLED ON PT 71-94 & 197-254	MANUFACTURER AND MANUFACTURER S PART NUMBER	NAVY TYPE 9-S REPLACEMENT EQUIPMENT	MECHANICSBURG PART NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS			
						PT 71-94	PT 197-254	PT 265-313	PT 450-485
	ELECTRICAL (Continued)								
7	Mast Light	Higgins Dwg. No. 2602-368	Range Light - Clear Lense - W.T., 3/4" I.P.S., Class III	TB-4210	9-S-5496-L	1	1	1	1
8	Stern Light	Higgins Dwg. No. 2602-368	Bow Light - Clear Lense - W.T. with two Sockets - 3/4" I.P.S. Class II	TB-4211	9-S-5494-L	1	1	1	1
9	Switch - S.P. - N.W.T. #8801 Switch	Harvey Hubbell	Switch, Toggle, S.P. - N.W.T.	TB-4212	9-S-4772-L	2	2	2	2
10	Switch - 1 Gang S.P. - W.T.	Russell & Stoll 496	Switch, Snap, 10A DP ST - W.T.	TB-4213	9-S-5608-L	3	3	3	3
11	Switch - 2 Gang S.P. - W.T. (2 #496 Switches)	Russell & Stoll	Switch, Triple, Snap, 10A, DP ST - W.T., Type AF	TB-4214	9-S-5612-L	2	2	2	2
12	Bridge Ignition Switches	Higgins Dwg. No. 2602-379	Switch, Triple, Push Pull, S.P., W.T.	TB-4215	9-S-5603-L	1	1	1	1
13	Switch & Receptacle with Plug	Russell & Stoll 478	Switch & Receptacle, Single, D.P., 10A, 125V, W.T.	TB-4216	9-S-5610-L	2	2	2	2
			Plug, Receptacle, D.B 10A, 125V, W.T. Type D-1	TB-4217	9-S-4440-L	2	2	2	2
14	Push Button - W.T.	Benjamin Elect. 8493	Push Button, Single - W.T.	TB-4218	9-S-4581-L	1	1	1	1

ITEM NO.	ORIGINAL EQUIPMENT INSTALLED ON PT 71-94 & 197-254	MANUFACTURER AND MANUFACTURER'S PART NUMBER	NAVY TYPE 9-S REPLACEMENT EQUIPMENT	MECHANICS-BURG PART NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS			
						PT 71-94	PT 197-254	PT 265-313	PT 450-485
	ELECTRICAL (Continued)								
15	Push Button - 3 Gang - S. P. - W.T., 3 #8493 Push Buttons	Benjamin Elect.	Push Button, Triple - W.T., Type AF	TB-4219	9-S-5602-L	1	1	1	1
16	Receptacle & Plug - 1 Gang - W.T.	Russell & Stoll, 479	Receptacle, Single, D.P., 10A, 125V, W.T.	TB-4220	9000-S6202-73002	1	1	1	1
	Receptacle & Plug - Midget - W.T.	Russell & Stoll, 2070	Plug, Receptacle, D.P. 10A, 125V, W.T., Type D-1	TB-4221	9-S-4440-L	3	3	3	3
17	Receptacle & Plug - 2 Gang - W.T.	Russell & Stoll, 495	Receptacle, Double, D.P., 10A, 125V, W.T. Type P-1-F	TB-4222	9-S-5611-L	2	2	2	2
			Plug, Receptacle, D.P., 10A, 125V, W.T.	TB-4217	9-S-4440-L	4	4	4	4
18	Outlet Box, 4-11/16" Sq.	Appleton, 4-SJ-1/2	Feeder Junction Box - W.T.	TB-4223	9-S-5606-L	3	3	3	3
19	Handy Box	Appleton, 4SSL	Branch Box - W.T., Type EL	TB-4224	9-S-5607-L	4	4	4	4
20	Junction Box - W.T.	Russell & Stoll, 190	Branch Box - W.T., Type EL	TB-4224	9-S-5607-L	1	1	1	1
21	Telegraph Key - W.T.	Russell & Stoll, 921	Blinker Key, Type EF	TB-4225	9-S-5601-L	2	2	2	2
22	Fixture - 15 W - V.P.	Russell & Stoll, 1527	Blkd. Fix., Red Globe, no switch, W.T.	TB-4202	9-S-5490-L	1	1	1	1

ITEM NO.	ORIGINAL EQUIPMENT INSTALLED ON PT 71-94 & 197-254	MANUFACTURER AND MANUFACTURER'S PART NUMBER	NAVY TYPE 9-S REPLACEMENT EQUIPMENT	MECHANICS-BURG PART NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS			
						PT 71-94	PT 197-254	PT 265-313	PT 450-485
	ELECTRICAL (Continued)								
23	Navigation lights panel Six #1131 Switches	Harvey Hubbell	Switch, Seven Gang, Toggle, S.P.	TB-4226	9-S-5522-L	1	1	1	1
24	Main Switch Board	Higgins Dwg. No. 2602-311	Distribution Panel for PT Boats	TB-4227	9-S-5614-L	1	1	1	1
25	Engine Room Emergency Switches Panel	Tuttle & Kift, SM18	Switch, Eight Gang - S.P.	TB-4228	9-S-5604-L	1	1	1	1
26	Fuse Panel	Tuttle & Kift, SM15	No Fuse Panel needed when new type Part Number TB-4227, Main Switchboard, is used.			1	1	1	1
27	Blower - 24V	Ilg Vent. Co., B12	Same as originall	TB-1709		4	4	4	4
28	Blower - 24V	Ilg Vent. Co., B9	Same as original	TB-1700		3	3	3	3
29	Siren - 24V - W.T.	Port. Light Co., 93	Same as original	TB-4242		1	1	1	1
30	Horn 24V - Vibrator Type, W.T.	Federal Elect. Co. - Type 41	Same as original	TB-4243		2	2	2	2
31	Buzzer 24 V - W.T.	Edwards Elect. Co. - 182	Same as original	TB-5012		1	1	1	1
32	Searchlight - 24V	Portable Light Co. - N	Same as original	TB-5013		1	1	1	1

ITEM NO.	ORIGINAL EQUIPMENT INSTALLED ON PT 71-94 & 197-254	MANUFACTURER AND MANUFACTURER'S PART NUMBER	NAVY TYPE 9-S REPLACEMENT EQUIPMENT	MECHANICS-BURG PART NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS			
						PT 71-94	PT 197-254	PT 265-313	PT 450-485
33	Storage Battery - 12V	Electric Storage Battery Co. - 6-DS, 25-3S	Same as original	12101		4	4	4	4
33A	Acid, Storage Battery	Electric Storage Bat. Co. - 6-DS, 25-3S	Same as original (Supplied with Item 32 only)	12101-1		4	4	4	4
34	#00AWG Cable - Type "S"		Cable - Type SRIA-133	TB-5014	15-C-1(INT)	150'	150'	150'	150'
35	#8AWG-2 Cond. Cable - Type S		Cable - Type DRIA-9	TB-5015	15-C-1(INT)	300'	300'	300'	300'
36	#14AWG-3 Cond. Cable - Type S		Cable - Type TRIA-4	TB-5016	15-C-1(INT)	100'	100'	100'	100'
37	#14AWG-2 Cond. Cable - Type S		Cable - Type DRIA-4	TB-5017	15-C-1(INT)	110'	110'	110'	110'
38	#00AWG Battery Cable		Cable - FJXF-133	TB-5018	15-C-1(INT)	30'	30'	30'	30
38	#250,000AWG Battery Cable		Cable - FJXF-250	TB-5019	15-C-1(INT)	150'	150'	150'	150'
40	Not Installed		Telephone Jack Box - Surface Mounted	TB-5020	9-S-5406-L	1	1	1	1
41	Not Installed		Telephone Jack Box - Flush Mounted, Type T-L-S	TB-5021	9-S-5600-L	2	2	2	2

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-515	PT 450-485						Figure No.	Photo No.
	SPARE PARTS FOR ELECTRICAL														
	Push Button, Single, W.T., Drawing #9-S-4581-L, Type U-S														
1	Type AA Pushbutton	TB-4244		4838-L	1	1	1	1							
2	Gasket	TB-4245		4581-L-10	1	1	1	1							
3	Cover Gasket, 5/16 sq., Strip Rub.	TB-4246		4581-L-57	1	1	1	1							
4	Nameplates	TB-4247		4581-L-60	1	1	1	1							
5	Securing Ring	TB-4248		4581-L-4	1	1	1	1							
	Switch, Toggle, S.P., NWT., Drawing #9-S-4772-L,														
1	Switch	TB-4249		4772-L-5	1	1	1	1							
	Jack Box for Telephone, Drawing #9-S-5406-L														
1	Receptacle	TB-4250		5406-L-1	1	1	1	1							
2	Steel Hanger, Plated	TB-4251		5406-L-6	2	2	2	2							
3	Jack, Type T, complete	TB-4252		9-S-5004-L	1	1	1	1							
4	Cable Conn. SRI - 2-1/2"F	TB-4255		5406-L-17	2	2	2	2							
5	Terminal Block	TB-4254		5406-L-2	1	1	1	1							

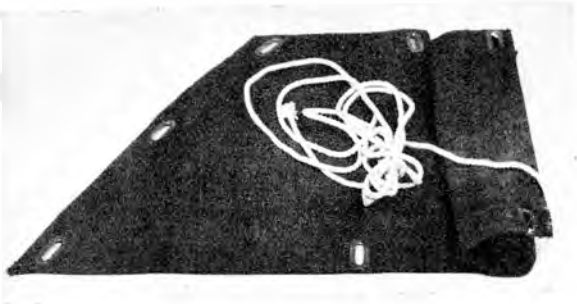


PHOTO 194 (SEE DESCRIPTION PAGE 98)

TB-1840

PHOTO 196 (SEE DESCRIPTION PAGE 98)

TB-1838

PHOTO 195 (SEE DESCRIPTION PAGE 98)

TB-1872

PHOTO 199

(SEE DESCRIPTION PAGE 98)

TB-1873

PHOTO 197

(SEE DESCRIPTION PAGE 98)

TB-1839

PHOTO 198 (SEE DESCRIPTION PAGE 98)

TB-1871

PHOTO 201

(SEE DESCRIPTION PAGE 98)

TB-1874

PHOTO 203 (SEE DESCRIPTION PAGE 98)

TB-1875

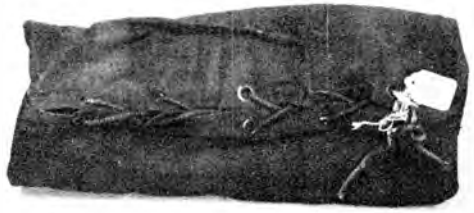


PHOTO 200 (SEE DESCRIPTION PAGE 98)

TB-1876

PHOTO 202 (SEE DESCRIPTION PAGE 98)

TB-1870

PHOTO 204 (SEE DESCRIPTION PAGE 99)

TB-1855

PHOTO 205 (SEE DESCRIPTION PAGE 99)

TB-1854

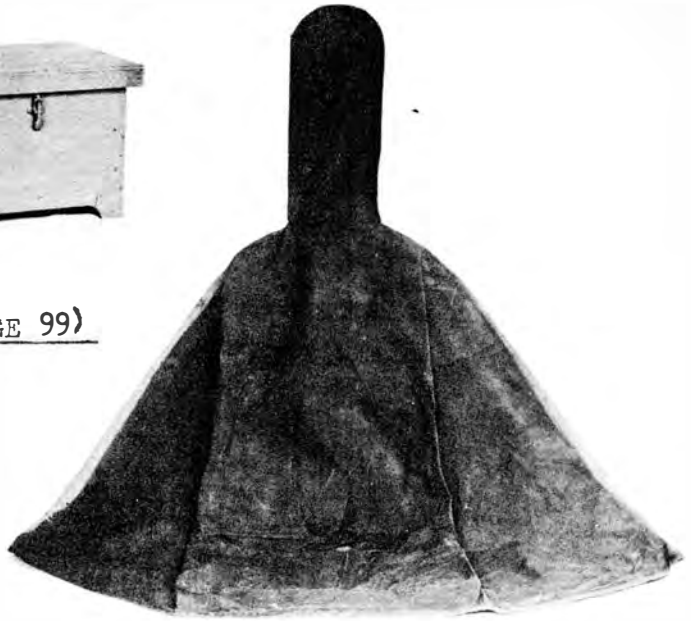


PHOTO 206 (SEE DESCRIPTION PAGE 98)

TB-1841

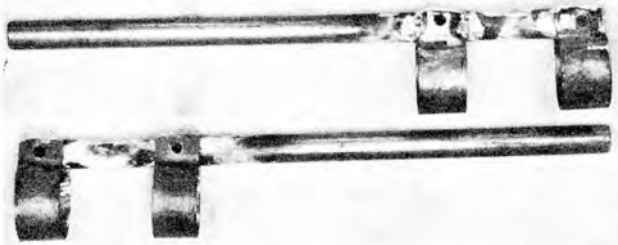


PHOTO 207 (SEE DESCRIPTION PAGE 99)

TB-1853

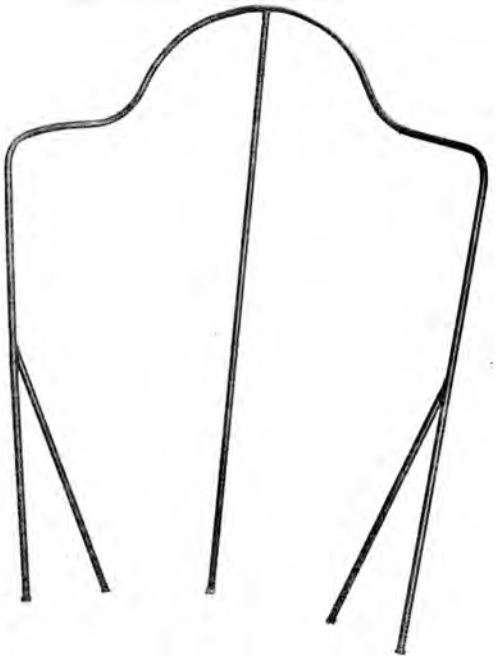


PHOTO 209 (SEE DESCRIPTION PAGE 99)

TB-1850

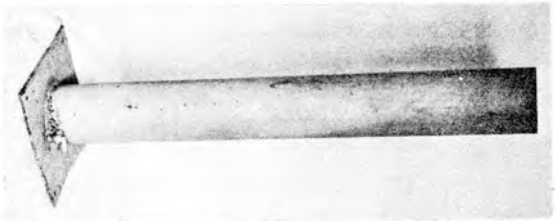


PHOTO 208 (SEE DESCRIPTION PAGE 99)

TB-1852

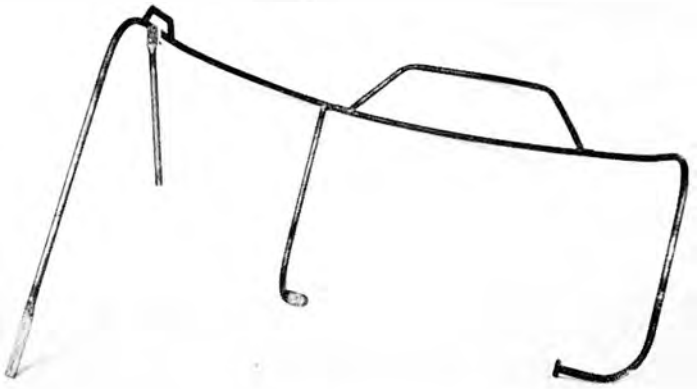


PHOTO 210 (SEE DESCRIPTION PAGE 99)

TB-1851

PHOTO 211 (SEE DESCRIPTION PAGE 99)

TB-1856

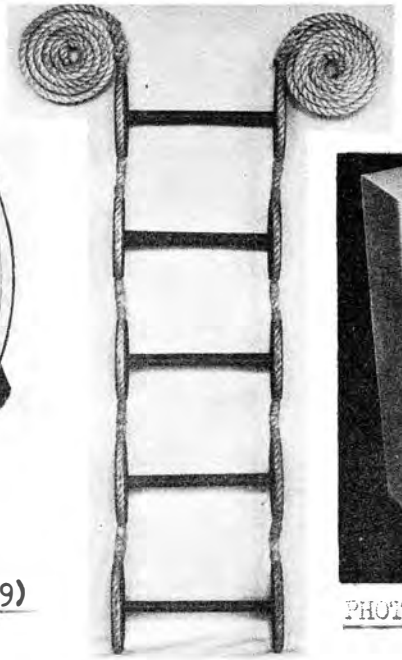


PHOTO 212
(SEE DESCRIPTION PAGE 99)

TB-1857

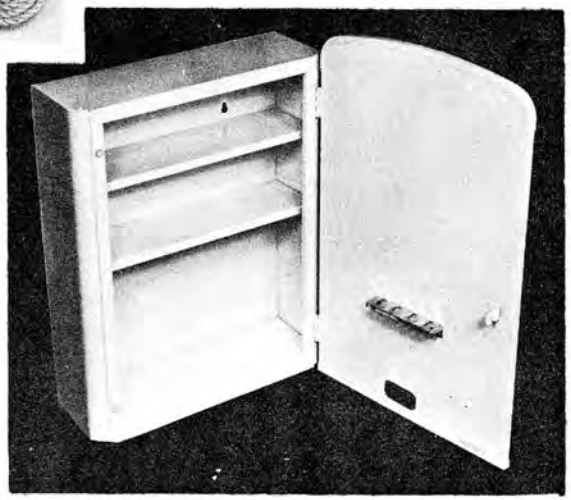


PHOTO 213 (SEE DESCRIPTION PAGE 99)

TB-1847

PHOTO 214
(SEE DESCRIPTION PAGE 99)

TB-1848

PHOTO 215 (SEE DESCRIPTION PAGE 99)

TB-1845

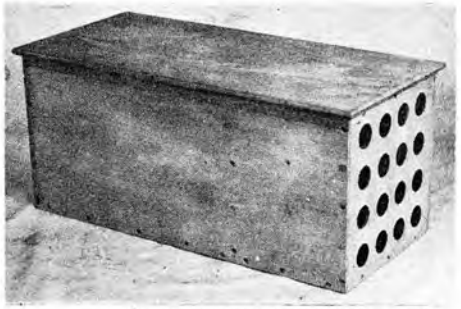


PHOTO 216 (SEE DESCRIPTION PAGE 99)

TB-1849

PHOTO 217 (SEE DESCRIPTION PAGE 99)

TB-1858

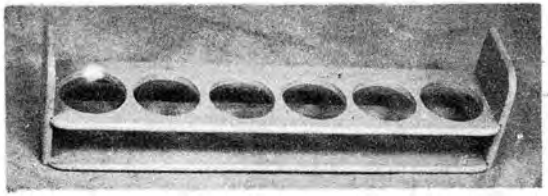


PHOTO 218
(SEE DESCRIPTION
PAGE 99)

TB-1859

PHOTO 219 (SEE DESCRIPTION PAGE 99)

TB-1846

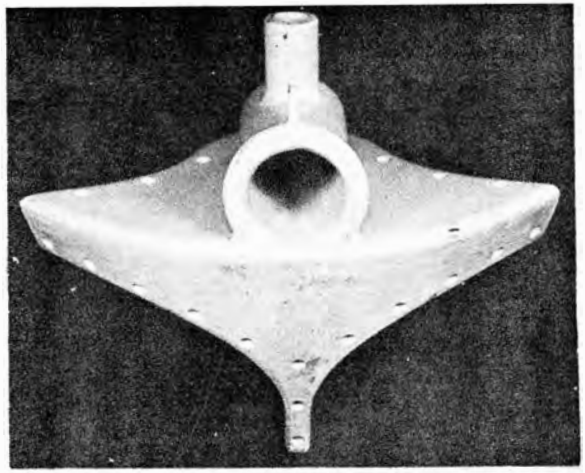


PHOTO 220 (SEE DESCRIPTION PAGE 97)

TB-1801

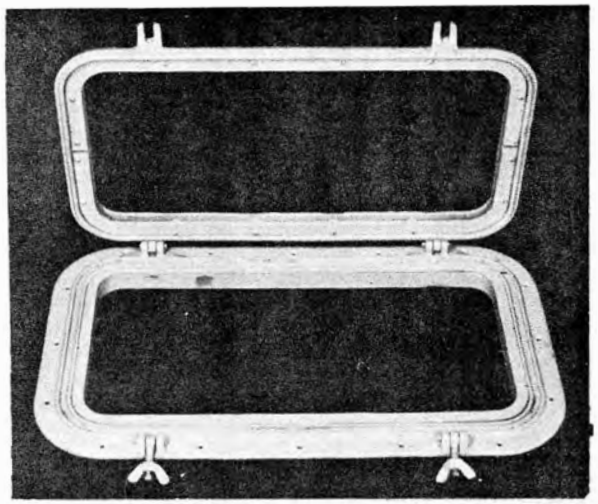


PHOTO 221 (SEE DESCRIPTION PAGE 98)

TB-1837

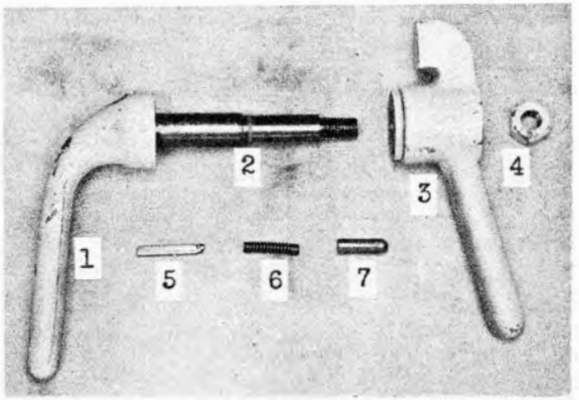


PHOTO 222 (SEE DESCRIPTION PAGE 99)

1 - TB-1863
2 - TB-1864
3 - TB-1865
4 - TB-1866
5 - TB-1867
6 - TB-1868
7 - TB-1869

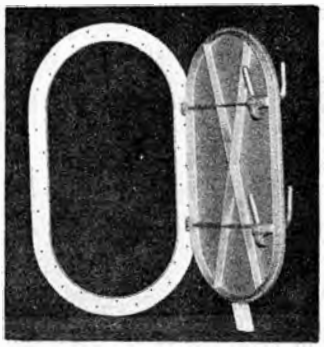


PHOTO 222A

(SEE DESCRIPTION PAGE 97)

TB-1813

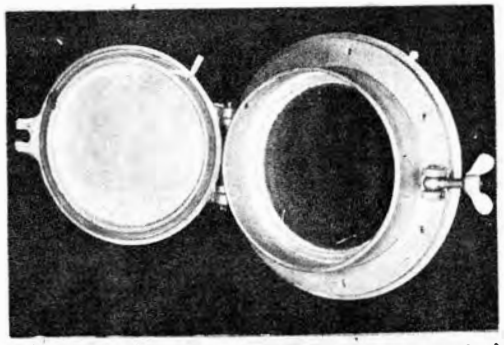


PHOTO 223 (SEE DESCRIPTION PAGE 97)

TB-1810

PHOTO 224

(SEE DESCRIPTION PAGE 99)

TB-1861

PHOTO 225

(SEE DESCRIPTION PAGE 99)

TB-1860

PHOTO 226

(SEE DESCRIPTION PAGE 97)

TB-1804

PHOTO 227 (SEE DESCRIPTION PAGE 97)

TB-1823

PHOTO 228

(SEE DESCRIPTION PAGE 97)

TB-1802

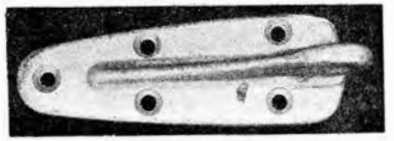


PHOTO 229

(SEE DESCRIPTION PAGE 99)

TB-1862

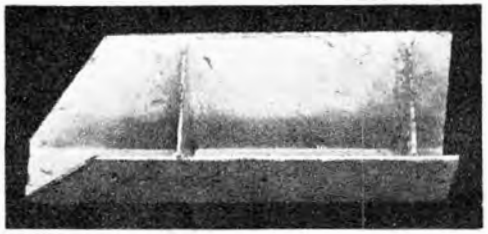


PHOTO 237 (SEE DESCRIPTION PAGE 104)
TB-5519

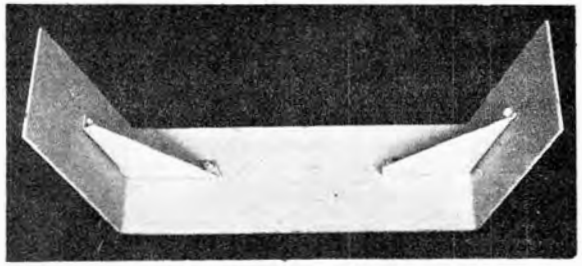


PHOTO 238 (SEE DESCRIPTION PAGE 105)
TB-5521

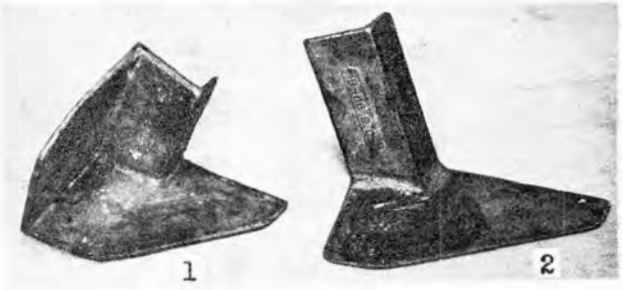


PHOTO 239 (SEE DESCRIPTION PAGE 101)
1 - TB-5502 2 - TB-5503

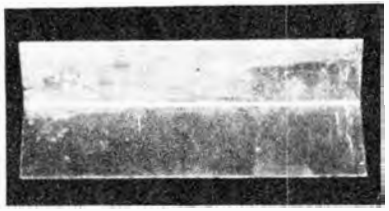


PHOTO 240 (SEE DESCRIPTION PAGE 103).
TB-5510

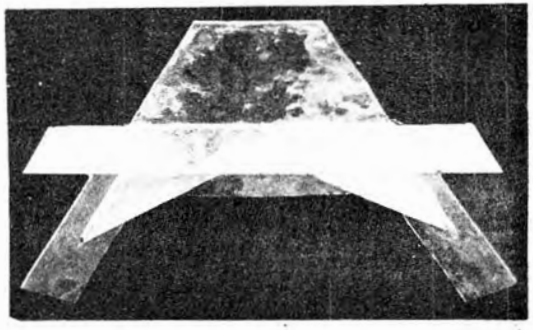


PHOTO 241 (SEE DESCRIPTION PAGE 102)
TB-5504

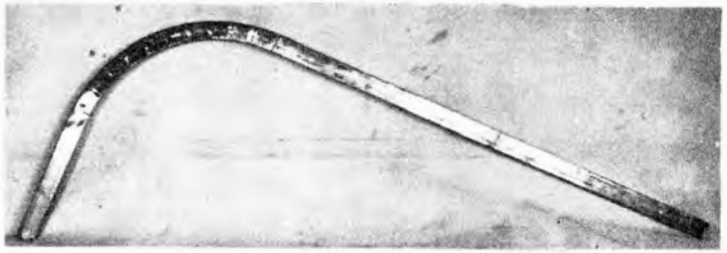


PHOTO 242 (SEE DESCRIPTION PAGE 111)
TB-5526

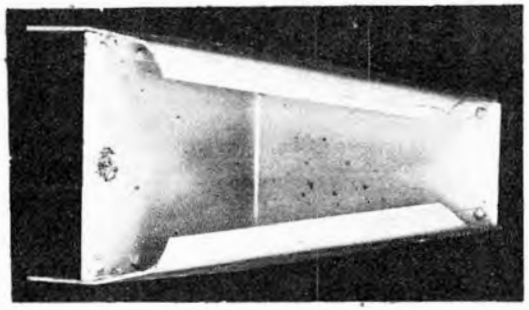


PHOTO 243 (SEE DESCRIPTION PAGE 101)
TB-5500

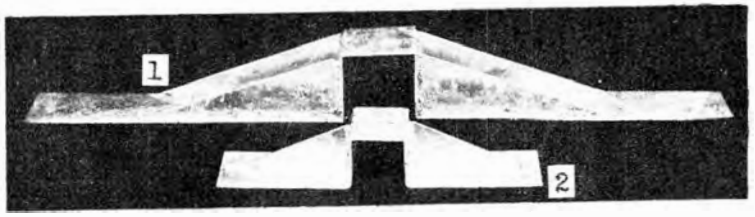


PHOTO 244 (SEE DESCRIPTION PAGE 106)
1 - TB-5523 2 - TB-5524

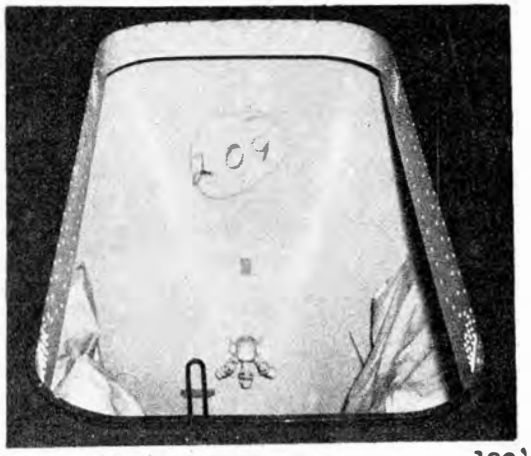


PHOTO 245 (SEE DESCRIPTION PAGE 109)
TB-5527

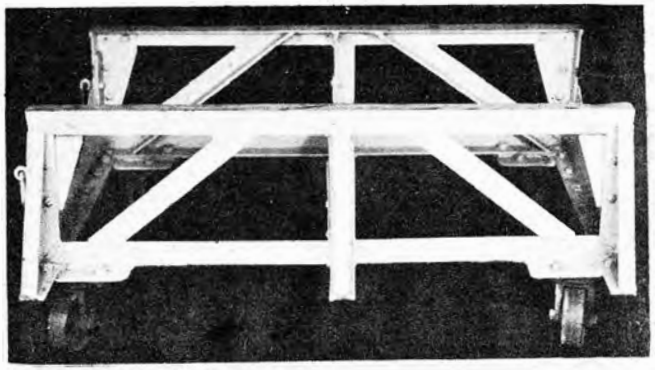


PHOTO 246 (SEE DESCRIPTION PAGE 100)
TB-4052

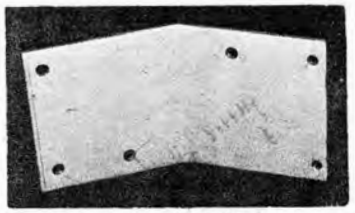


PHOTO 247
(SEE DESCRIPTION PAGE 101)
TB-5501

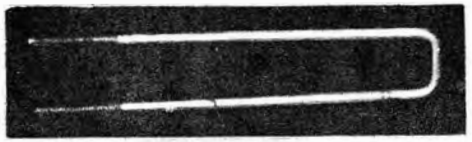


PHOTO 248
(SEE DESCRIPTION PAGE 108)
TB-5528

PHOTO 249 (SEE DESCRIPTION PAGE 108)
TB-5525

PHOTO 257 (SEE DESCRIPTION PAGE 100)
TBT-10003

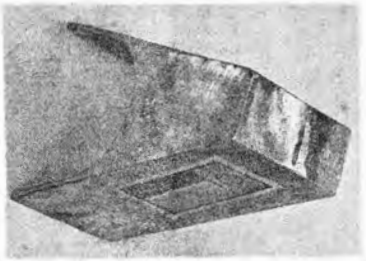


PHOTO 250 (SEE DESCRIPTION PAGE 105)
TB-1815

PHOTO 251
(SEE DESCRIPTION PAGE 100)
TB-4053

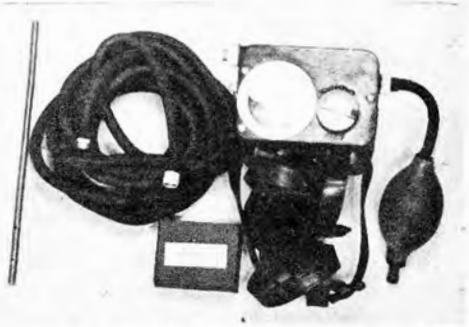


PHOTO 252 (SEE DESCRIPTION PAGE 100)
TB-1879

PHOTO 253 (SEE DESCRIPTION PAGE 98)
TB-1833

PHOTO 254
(SEE DESCRIPTION PAGE 98)
TB-4242

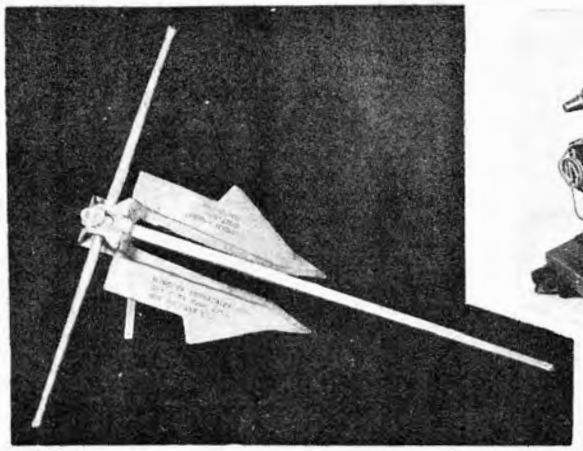


PHOTO 255 (SEE DESCRIPTION PAGE 97)
TB-4450

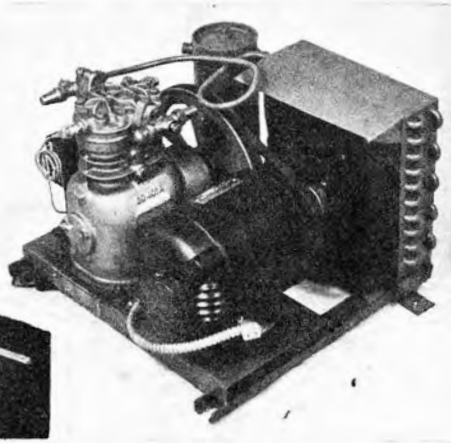


PHOTO 256 (SEE DESCRIPTION PAGE 52)
TB-1602

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-515	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
6	Wire Terminal	TB-4255		1841-L-33	6	6	6	6								
7	.138 - 32 Rd. hd. machine screw, 1/4" lg. steel	TB-4256		5406-L-14	4	4	4	4								
8	Cap	TB-4257		4264-L-27	1	1	1	1								
9	Nameplate, Lam. Phen.	TB-4259		5406-L-5	1	1	1	1								
10	Gasket, 5/16" sq. Strip Rub.	TB-4260		5406-L-4	1	1	1	1								
11	Cap Gasket	TB-4261		4264-L-4	1	1	1	1								
12	Chain and two Connectors	TB-4262		4750-L-1	1	1	1	1								
13	Rivet, Brass	TB-4263		4750-L-2	1	1	1	1								
14	Size B Terminal Tube Body	TB-4264		5621-L-1 or 5255-L-1	1	1	1	1								
	Bulkhead Fixture, White, Drawing #9-S-5490-L, Type H-S															
1	Securing Ring	TB-4265		5490-L-1	1	1	1	1								
2	Centering Gasket, Rubber	TB-4266		5490-L-4	1	1	1	1								
3	Gasket, 5/16" sq. Strip Rub.	TB-4267		5490-L-5	1	1	1	1								
4	Wire Terminal	TB-4255		1841-L-33	6	6	6	6								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-515	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
5	Lamp	TB-4379		4222-L-TS-102	1	1	1	1								
6	Type N Socket	TB-4269		4634-L	1	1	1	1								
7	Type IV-I Globe	TB-4270		5123-L	1	1	1	1								
8	Slip Ring	TB-4271		5121-L-15	1	1	1	1								
9	Terminal Block	TB-4254		5406-L-2	1	1	1	1								
	Bulkhead Fixture, Red, Drawing #9-S-5490-L, Type HR-S															
1	Securing Ring	TB-4265		5490-L-1	1	1	1	1								
2	Centering Gasket, Rubber	TB-4266		5490-L-4	1	1	1	1								
3	Gasket, 5/16" sq. Strip Rub.	TB-4267		5490-L-5	1	1	1	1								
4	Wire Terminal	TB-4255		1841-L-33	6	6	6	6								
5	Lamp	TB-4379		4222-L-TS-102	1	1	1	1								
6	Type N Socket	TB-4269		4634-L	1	1	1	1								
7	Type IV-II Globe, Red	TB-4272		5123-L	1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254	PT 265-515	PT 450-485					Figure No.	Photo No.
	SPARE PARTS FOR ELECTRICAL (Continued)													
8	Slip Ring	TB-4271		5121-L-15	1	1	1	1						
9	Terminal Block	TB-4254		5406-L-2	1	1	1	1						
	Bulkhead Fixture, White, Drawing #9-S-5490-L, Type HT-S													
1	Securing Ring	TB-4265		5490-L-1	1	1	1	1						
2	Centering Gasket, Rubber	TB-4266		5490-L-4	1	1	1	1						
3	Gasket, 5/16" sq. Strip Rub.	TB-4267		5490-L-5	1	1	1	1						
4	Wire Terminal	TB-4255		1841-L-33	6	6	6	6						
5	Lamp	TB-4379		4222-L-TS-102	1	1	1	1						
6	Type N Socket	TB-4269		4634-L	1	1	1	1						
7	Type IV-I Globe	TB-4270		5123-L	1	1	1	1						
8	Slip Ring	TB-4271		5121-L-15	1	1	1	1						
9	Terminal Block	TB-4254		5406-L-2	1	1	1	1						
10	G.E. P-58 or equiv. Switch	TB-4275			1	1	1	1						

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
					PT 71-94	PT 197-254	PT 265-515	PT 450-485					Figure No.	Photo No.
	SPARE PARTS FOR ELECTRICAL (Continued)													
	Bulkhead Fixture, Signal Light, Drawing #9-S-5490-L, Type HFR-S													
1	Securing Ring	TB-4265		5490-L-1	1	1	1	1						
2	Centering Gasket, Rubber	TB-4266		5490-L-4	1	1	1	1						
3	Gasket, 5/16 sq. Strip Rub.	TB-4267		5490-L-5	1	1	1	1						
4	Wire Terminal	TB-4255		1841-L-33	6	6	6	6						
5	Lamp	TB-4379		4222-L-TS-102	1	1	1	1						
6	Type N Socket	TB-4269		4634-L	1	1	1	1						
7	Type IV-II Globe, Red	TB-4272		5123-L	1	1	1	1						
8	Slip Ring	TB-4271		5121-L-15	1	1	1	1						
9	Terminal Block	TB-4254		5406-L-2	1	1	1	1						
	Bulkhead Fixture, Blackout Light, Drawing #9-S-5490-L, Type HR-S													
1	Securing Ring	TB-4265		5490-L-1	1	1	1	1						
2	Centering Gasket, Rubber	TB-4266		5490-L-4	1	1	1	1						

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-515	PT 450-485						Figure No.	Photo No.
	SPARE PARTS FOR ELECTRICAL (Continued)														
3	Gasket, 3/16" sq. Strip Rub.	TB-4287		5490-L-5	1	1	1	1							
4	Wire Terminal	TB-4255		1841-L-33	6	6	6	6							
5	Lamp	TB-4379		4222-L-TS-102	1	1	1	1							
6	Type N Socket	TB-4269		4634-L	1	1	1	1							
7	Globe, White with 180° blackout	TB-4274		5123-L	1	1	1	1							
8	Slip Ring	TB-4271		5121-L-15	1	1	1	1							
9	Terminal Block	TB-4254		5406-L-2	1	1	1	1							
	Type G-S Deck Fixture, Drawing #9-S-5491-L														
1	Gasket, 3/16" sq. Strip Rub.	TB-4275		5491-L-1	1	1	1	1							
2	Wire Terminal	TB-4255		1841-L-33	6	6	6	6							
3	Lamp	TB-4379		4222-L-TS-102	1	1	1	1							
4	Type N Socket	TB-4269		4634-L	1	1	1	1							
5	Slip Ring	TB-4271		5121-L-15	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	SPARE PARTS FOR ELECTRICAL (Continued)														
6	Type IV-I Globe	TB-4270		5123-L	1	1	1	1							
7	Terminal Block	TB-4254		5406-L-2	2	2	2	2							
8	Securing Ring	TB-4265		5490-L-1	1	1	1	1							
9	Centering Gasket, Rubber	TB-4266		5490-L-4	1	1	1	1							
	Deck Fixture, Drawing #9-S-5491, Type GR-S														
1	Gasket, 3/16" sq. Strip Rub.	TB-4275		5491-L-1	1	1	1	1							
2	Wire Terminal	TB-4255		1841-L-33	6	6	6	6							
3	Lamp	TB-4379		4222-L TS-102	1	1	1	1							
4	Type N Socket	TB-4269		4634-L	1	1	1	1							
5	Slip Ring	TB-4271		5121-L-13	1	1	1	1							
6	Type IV-II Globe, Red	TB-4272		5123-L	1	1	1	1							
7	Terminal Block	TB-4254		5406-L-2	1	1	1	1							
8	Securing Ring	TB-4265		5490-L-1	1	1	1	1							
9	Centering Gasket, Rubber	TB-4266		5490-L-4	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	SPARE PARTS FOR ELECTRICAL (Continued)														
	Deck Fixture, Drawing #9-S-5491-L, Type GT-S with Switch														
1	Gasket, 3/16" sq. Strip Rub.	TB-4275		5491-L-1	1	1	1	1							
2	Wire Terminal	TB-4255		1841-L-33	6	6	6	6							
3	Lamp	TB-4379		4222-L TS-102	1	1	1	1							
4	Type N Socket	TB-4269		4634-L	1	1	1	1							
5	Slip Ring	TB-4271		5121-L-13	1	1	1	1							
6	Type IV-I Globe	TB-4270		5123-L	1	1	1	1							
7	Terminal Block	TB-4254		5406-L-2	1	1	1	1							
8	Securing Ring	TB-4265		5490-L-1	1	1	1	1							
9	Centering Gasket, Rubber	TB-4266		5490-L-4	1	1	1	1							
10	G.E. P-38 or equiv. Switch	TB-4273		5491-L-9	1	1	1	1							
	Wake Light or Bow Light, Drawing #9-S-5494-L														
1	Type N Socket	TB-4269		4634-L	1	1	1	1							
2	Socket Mounting Plate, Brz.	TB-4277		5494-L-20	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	SPARE PARTS FOR ELECTRICAL (Continued)														
3	Glass Lens, Clear	TB-4278		4072-L-29	1	1	1	1							
4	Gasket, 1/4" sq. Strip Rub.	TB-4279		5494-L-6	1	1	1	1							
5	Asbestos Gasket	TB-4280		5494-L-10	1	1	1	1							
6	Lamp	TB-4379		4222-L-TS-102	1	1	1	1							
	Range Light, Drawing #9-S-5496-L														
1	Type N Socket	TB-4269		4634-L	1	1	1	1							
2	Lens, Clear	TB-4281		4072-L-26	1	1	1	1							
3	Gasket, 1/4" sq. Strip Rub.	TB-4282		5496-L-1	1	1	1	1							
4	Asbestos Gasket	TB-4283		5496-L-2	1	1	1	1							
5	Lamp	TB-4379		4222-L-TS-102	1	1	1	1							
	Stern Light with Jack Staff Sockets, Drawing #9-S-5497														
1	Type N Socket	TB-4269		4634-L	1	1	1	1							
2	Lens	TB-4284		4072-L-32	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
3	Asbestos Gasket	TB-4285		5497-L-11	1	1	1	1								
4	Screen	TB-4286		5497-L-7	1	1	1	1								
5	Jack Staff Socket	TB-4287		5497-L-20 21 & 22	1	1	1	1								
6	Cover Gasket	TB-4288		5497-L-6	1	1	1	1								
7	Lamp	TB-4379		4222-L-TS-102	1	1	1	1								
	Side Lights, Port and Stbd., Drawing #9-S-5498-L															
1	Type N Socket	TB-4269		4634-L	1	1	1	1								
2	Lens, Port only, Red	TB-4289		4072-L-33	1	1	1	1								
3	Lens, Stbd. only, Green	TB-4290		4072-L-34	1	1	1	1								
4	Cover Gasket, Strip Rub.	TB-4291		5498-L-2	1	1	1	1								
5	Asbestos Gasket	TB-4285		5497-L-11	2	2	2	2								
6	Screen, Steel	TB-4292		5498-L-1	1	1	1	1								
7	Lamp	TB-4379		4222-L-TS-102	1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
	Switch Box, Light Six (6) Gang, Drawing #9-S-5522-L, Type B															
1	Switch	TB-4249		4772-L-5	1	1	1	1								
2	Nameplate	TB-4293		5522-L-7	1	1	1	1								
3	Switch Plate	TB-4294		5522-L-6	1	1	1	1								
	Flush Jack Box, Drawing #9-S-5600-L															
1	Receptacle	TB-4250		5406-L-1	1	1	1	1								
2	Jack, Type T, complete	TB-4252		9-S-5004-L	1	1	1	1								
3	Hanger Strap, Steel	TB-4295		5600-L-3	2	2	2	2								
4	.138 - 32 Rd. hd. Mach. Screw, 5/16" long	TB-4296		5600-L-11	8	8	8	8								
5	Wire Cable SRI - 2-1/2 F	TB-4297		5600-L-6	2	2	2	2								
6	Wire Terminal	TB-4255		1841-L-33	6	6	6	6								
7	Terminal Block	TB-4254		5406-L-2	1	1	1	1								
8	Gasket, Canvas	TB-4298		S-6202-73002-4	1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 255-315	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
9	Cover, Steel	TB-4299		S-6202-73002-3	1	1	1	1								
10	Nameplate, Lam. Phen.	TB-4300		5600-L-4	1	1	1	1								
11	Cap	TB-4257		4264-L-27	1	1	1	1								
12	Cap Gasket	TB-4261		4264-L-4	1	1	1	1								
13	Size B Terminal Tube Body	TB-4264		5621-L-1 or 5235-L-1	1	1	1	1								
14	Chain and two Connectors	TB-4262		4730-L-1	1	1	1	1								
15	Rivet, Brass	TB-4263		4730-L-2	2	2	2	2								
16	Plug, Type T	TB-4304		9-S-5005-L	1	1	1	1								
	Control Key W.T. for Blinker Lights, Drawing #9000-S6202-73121 Alt. 1															
1	Key Arm	TB-4305			1	1	1	1								
2	Lever	TB-4306			1	1	1	1								
3	Bridge	TB-4307			1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 255-315	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
4	Clamp Strap	TB-4308			1	1	1	1								
5	Button	TB-4309		4244-L-7	1	1	1	1								
6	Key Pivot Assembly (Disc, Stud, and Spacer	TB-4310			1	1	1	1								
7	Plate (Lam. Phenolic)	TB-4314			1	1	1	1								
8	Spring (Music Wire)	TB-4315			1	1	1	1								
9	Wire (SRI - 2-1/2 F)	TB-4316			2	2	2	2								
10	Wire (SRI - 2-1/2 F)	TB-4317			2	2	2	2								
11	.164 - 32 Rd. hd. Mach. Screw, 3/4" long, brass	TB-4318			2	2	2	2								
12	.086 - 56 Rd. hd. Mach. Screw, 7/8" long, stl., pltd.	TB-4319			2	2	2	2								
13	.190 - 24 Rd. hd. Mach. Screw, 5/16" long, stl., pltd.	TB-4320			2	2	2	2								
14	Washer, 3/8 O.D. 11/64 I.D., .032 th., brass	TB-4321			8	8	8	8								
15	.164-32 Hex Nut, Brass	TB-4322			3	3	3	3								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 255-513	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
16	.190 - 24 Hex Nut, steel, plated	TB-4323			2	2	2	2								
17	#8 Shakeproof Washer	TB-4324			6	6	6	6								
18	.086 - 56 Hex Nut, steel, plated	TB-4325			2	2	2	2								
19	#10 Shakeproof Washer	TB-4326			2	2	2	2								
20	Ring, steel, Galv.	TB-4248		4581-L-4	1	1	1	1								
21	Ring, brass Gasket, Rub. Ring	TB-4327		4581-L-61	1	1	1	1								
22	Gasket, Rubber, Ring	TB-4328		4440-L-7	1	1	1	1								
23	Wire Terminal	TB-4329		1841-L-36	4	4	4	4								
24	Terminal Nut, Brass	TB-4330		4260-L-15	6	6	6	6								
25	Sprague 1.5 Micro-Farad Condenser or equiv.	TB-4331		4244-L-31	1	1	1	1								
26	Arrow-Hart & Hageman Micro-Break Switch #81386 or equiv.	TB-4332			1	1	1	1								
27	Cover Gasket	TB-4333		5610-L-4	1	1	1	1								
28	Mounting Gasket	TB-4367		5610-L-5	1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 255-513	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
	Push Button 3 Gang, Drawing #9-S-5602-L															
1	Type AA Push Button	TB-4244		4838-L	3	3	3	3								
2	Gasket	TB-4245		4581-L-10	3	3	3	3								
3	Cover Gasket	TB-4336		5602-L-4	3	3	3	3								
4	Mounting Gasket	TB-4337		5602-L-5	3	3	3	3								
5	Nameplate	TB-4338		5602-L-6	1	1	1	1								
6	Nameplate	TB-4339		5602-L-7	1	1	1	1								
7	Nameplate	TB-4340		5602-L-8	1	1	1	1								
8	Securing Ring	TB-4248		4581-L-4	3	3	3	3								
	Ignition 5 Gang, Drawing #9-S-5603-L															
1	Soreng-Manegold Mfg. Co. #A-410-A or equiv. Switch	TB-4341		5603-L-3	3	3	3	3								
2	Breeze Mfg. Co. or equiv. 3/8" Box Connector, alum.	TB-4342		5603-L-5	3	3	3	3								
3	Breeze Mfg. Co. or equiv. 3/8" Conduit Locknut for TB-4342	TB-4343		5603-L-4	3	3	3	3								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-515	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
	Emergency Ignition S.W. Box 8 Gang, Drawing #9-S-5604-L															
1	Arrow-Hart & Hageman #81015 or equiv. Switch	TB-4344		5604-L-3	8	8	8	8								
2	Nameplate	TB-4345		5604-L-4	1	1	1	1								
3	Gasket	TB-4346		5604-L-6	8	8	8	8								
4	Spring	TB-4347		5604-L-5	8	8	8	8								
5	Spacer	TB-4348		5604-L-8	8	8	8	8								
	Combination Circuit Breaker and Junction Box, Drawing #9-S-5605-L															
1	Base, Lam. Phen.	TB-4349		5606-L-1	1	1	1	1								
2	Screw Machine 1/4"-20 x 5/4" R.H., brass	TB-4350		5605-L-6	4	4	4	4								
3	Washer 5/8 OD x 9/32 ID x .051 thick, brass	TB-4351		5605-L-3	2	2	2	2								
4	Washer, Shakeproof	TB-4352		5605-L-4	2	2	2	2								
5	Sq. "D" 9500 15A, Non-trip Free or equiv. Circuit Breaker	TB-4355		5605-L-1	1	1	1	1								
6	Gasket, 1/4" sq. Rubber	TB-4354		5535-L-15	1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-515	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
	Junction Box, Drawing #9-S-5606-L															
1	Base, Lam. Phen.	TB-4349		5606-L-1	1	1	1	1								
2	Screw Machine 1/4"-20 x 7/8 R.H., brass	TB-4355		5606-L-7	2	2	2	2								
3	Washer 5/8 OD x 9/32 ID x .051 thick, brass	TB-4351		5606-L-5	2	2	2	2								
4	Screw Machine 1/4"-20 x 5/4 R.H., brass	TB-4357		5606-L-6	4	4	4	4								
5	Nameplate	TB-4358		5606-L-2	1	1	1	1								
6	Gasket, 1/4" sq. Rubber	TB-4354		5535-L-15	1	1	1	1								
	Branch Box, Drawing #9-S-5607-L															
1	Terminal Block Base) Washer 5/8 OD x 11/64 ID) x.032 thick) Terminal Nut, brass) Not Supplied Separately	TB-4360		4280-L-5 4280-L-14 4280-L-15	1	1	1	1								
2	Nameplate	TB-4365		5607-L-1	1	1	1	1								
3	Gasket	TB-4364		5535-L-10	1	1	1	1								
	Snap Switch, Drawing #9-S-5608-L															
1	Switch	TB-4365		4718-CC-S	1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-515	PT 450-485							
	SPARE PARTS FOR ELECTRICAL (Continued)														
2	Handle	TB-4366		4718-L-36	1	1	1	1							
3	Cover Gasket	TB-4364		5333-L-10	1	1	1	1							
	Snap Flush Mount, Drawing #9-S-5609-L														
1	Switch	TB-4365		4718-CC-S	1	1	1	1							
2	Handle	TB-4366		4718-L-36	1	1	1	1							
3	Cover Gasket	TB-4334		5609-L-4	1	1	1	1							
4	Cushion Gasket	TB-4399		5609-L-5	1	1	1	1							
	Switch and Single Receptacle, Drawing #9-S-5610-L														
1	Switch	TB-4365		4718-CC-S	1	1	1	1							
2	Type G Receptacle complete, Pc. Nos. 6, 7, 8, 10, 11, 12, 20, 21, and 22	TB-4368		4264	1	1	1	1							
3	Connector	TB-4370		4225-L-19	1	1	1	1							
4	Connector	TB-4371		4225-L-20	1	1	1	1							
5	DI Plug	TB-4221		9-S-4440-L	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-515	PT 450-485							
	SPARE PARTS FOR ELECTRICAL (Continued)														
6	Handle	TB-4366		4718-L-36	1	1	1	1							
7	Cap	TB-4257		4264-L-27	1	1	1	1							
8	Cap Gasket	TB-4281		4264-L-4	1	1	1	1							
9	Chain and two Connectors	TB-4262		4750-L-1	1	1	1	1							
10	Rivet, brass	TB-4265		4750-L-2	2	2	2	2							
11	Cover Gasket	TB-4334		5609-L-4	1	1	1	1							
12	Cushion Gasket	TB-4399		5609-L-5	1	1	1	1							
13	Phenolic Sleeve	TB-4375		4264-L-5	1	1	1	1							
	Double Receptacle, Drawing #9-S-5611-L, Type P-IS														
1	Recept. complete, Pc. 5, 4, 9, 10, 11, 23, 4264-L-8, 4264-L-21, 4264-L-22	TB-4376		4564	1	1	1	1							
2	Cap	TB-4257		4264-L-27	2	2	2	2							
3	Cap Gasket	TB-4261		4264-L-4	2	2	2	2							
4	Cover Gasket	TB-4333		5610-L-4	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-513	PT 450-485						Figure No.	Photo No.
	SPARE PARTS FOR ELECTRICAL (Continued)														
5	Mounting Gasket	TB-4217		5610-L-5	1	1	1	1							
6	Phenolic Sleeve	TB-4375		4264-L-5	2	2	2	2							
7	Chain and two Connectors	TB-4262		4730-L-1	1	1	1	1							
8	Rivet, brass	TB-4263		4730-L-2	1	1	1	1							
9	D1 Plug	TB-4217		9-S-4440-L	1	1	1	1							
	Switch Box Multiple 3 Gang, Drawing #9-S-5612, Type B-F														
1	Nameplate	TB-4377		5612-L-2	1	1	1	1							
2	Switch	TB-4365		4718-CC-S	3	3	3	3							
3	Handle	TB-4366		4718-L-36	3	3	3	3							
4	Cover Gasket	TB-4336		5602-L-4	1	1	1	1							
5	Mounting Gasket	TB-4337		5602-L-5	1	1	1	1							
	Switch Box Multiple 3 Gang, Drawing #9-S-5612-L, Type B-F														
1	Nameplate	TB-4378		5612-L-2	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-513	PT 450-485						Figure No.	Photo No.
	SPARE PARTS FOR ELECTRICAL (Continued)														
2	Switch	TB-4365		4718-CC-S	3	3	3	3							
3	Handle	TB-4366		4718-L-36	3	3	3	3							
4	Cover Gasket	TB-4336		5602-L-4	1	1	1	1							
5	Mounting Gasket	TB-4337		5602-L-5	1	1	1	1							
	Chart Board Light, Drawing #9-S-5613-L														
1	Type N Socket	TB-4269		4634-L	1	1	1	1							
2	15 W. Lamp	TB-4379		4222-L-TS-102	1	1	1	1							
3	Terminal Block, Base) Washer 3/8 OD x 11/64 ID) x .032 thick) Terminal Nut, brass) Not Supplied Separately	TB-4360		4260-L-3 4260-L-14 4260-L-15	1	1	1	1							
4	Switch	TB-1249		4772-L-5	1	1	1	1							
5	Type G Receptacle, complete, Po. 6, 7, 8, 10, 11, 12, 20, 21, 22	TB-4368		4264-L	1	1	1	1							
6	Cap	TB-4257		4264-L-27	1	1	1	1							
7	Cap Gasket	TB-4261		4264-L-4	1	1	1	1							
8	Chain and two Connectors	TB-4262		4730-L-1	1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 285-313	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
9	Rivet, brass	TB-4265		4730-L-2	2	2	2	2								
10	Gasket, canvas	TB-4298		9000-S6202-73002-4	1	1	1	1								
11	Gasket, Rubber	TB-4398		9000-S6202-73002-5	1	1	1	1								
12	Size B Terminal Tube Body	TB-4264		5621-L-1 or 5235-L-1	1	1	1	1								
13	Phenolic Sleeve	TB-4375		4264-L-5	1	1	1	1								
	Electrical Wiring Assembly															
1	Bridge 3 Gang Emerg. Switch Assembly	TB-4382		4 EL-440	1	1	1	1								
2	Eng. Switch Assembly	TB-4383		4 El-1828	1	1	1	1								
3	Stbd. Voltage Regulator Junction Box Assy., complete	TB-5565		4 El-462	1	1	1	1								
4	Port Voltage Regulator Junction Box Assy., complete	TB-5566		4 El-2130	1	1	1	1								
5	Center Voltage Regulator Junction Box Assy., complete	TB-4384		4 El-2132	1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 285-313	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
6	Engine Room Instrument Panel Wiring Assembly less Panels	TB-5567		4 El-841	1	1	1	1								
7	Bridge Panel Wiring Assembly less Panels	TB-5568		4 El-843	1	1	1	1								
8	Engine Room Junction Box Assembly, Port Motor	TB-5005			1	1	1	1								
9	Engine Room Junction Box Assembly, Stbd. Motor	TB-5006			1	1	1	1								
10	Engine Room Junction Box Assembly, Center Motor	TB-5007			1	1	1	1								
	Electrical															
1	#1 Three Wire Allen-Bradley Switch	TB-4386			6	6	6	6								
2	#2 Three Wire Allen-Bradley Switch	TB-4387			2	2	2	2								
3	#3 Three Wire Allen-Bradley Switch	TB-4388			2	2	2	2								
	Circuit Breakers															
1	SP-180 amp. 24, G.E. MCM980 or equal	TB-4389			1	1	1	1								
2	SP-100 amp. 24, Sq. D. 9300-100B	TB-4390			1	1	1	1								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	SPARE PARTS FOR ELECTRICAL (Continued)															
3	SP-70 amp. 24, Sq. D. 9300-70 B	TB-4391			1	1	1	1								
4	SP-50 amp. 24, Sq. D. 9300-50 B	TB-4392			1	1	1	1								
5	SP-35 amp. 24, Sq. D. 9300-35 B	TB-4393			1	1	1	1								
6	SP-15 amp. 24, Sq. D. 9300-15 B Switch, Single Pole, Single Throw	TB-4394			4	4	4	4								
7	125 amp. 24, Sq. D. 9320-991	TB-4395			1	1	1	1								
8	Ammeter, Model 506, 200-0-200 amp.	TB-4229			1	1	1	1								
9	Circuit Breaker, Model PLA Spencer 105	TB-4232			1	1	1	1								
10	Fuse, vibration proof, 10 amp.	TB-4236			1	1	1									
11	Fuse, vibration proof, 30 amp.	TB-4237			1	1	1									
12	Fuse, vibration proof, 40 amp.	TB-4238			1	1	1									
13	Fuse, vibration proof, 60 amp.	TB-4239			1	1	1									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313									
	SPARE PARTS FOR ELECTRICAL (Continued)															
14	Fuse, vibration proof, 70 amp.	TB-4240			1	1	1									
15	Fuse, vibration proof, 100 amp.	TB-4241			3	3	3									
16	Holder, fuse, #1213 5AG type	TB-4234			4	4	4									
17	Holder, f se, #1245 hi-amp type	TB-4235			4	4	4									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	MISCELLANEOUS HARDWARE															
1	Adjusters, steel hatch	TB-1804			5	5	5	5								226
2	Anchor chain, 6 fathoms, 5/8"BBB galv.	TB-1800			36'	36'	36'	36'								
3	Anchor, match hooks, 5/8" galv.	TB-1806			1	1	1	1								
4	Anchor, Mark II Danforth 75# galv.	TB-4450			2	2	2	2								255
5	Bell, 8" cast bronze, c/w bracket	TB-1818			1	1	1	1								
6	Box, battery	TB-1879			1	1	1	1								251
7	Bow, casting, cast aluminum, Pattern T-79	TB-1801			1	1	1	1								220
8	Camlocks, Perkins Marine type 1108, brass, for Mast, Battery Box, ammunition boxes, etc.	TB-1820			12	12	12	12								
9	Catches, friction WC 3590 for tables, crew's quarters, brass	TB-1821			1	1	1	1								
10	Catches, elbow, floor fastening, brass, Figure 359 WC	TB-1822			5	5	5	5								
11	Chocks, rope, cast brass, Skene type, stern	TB-1823			1	1	1	1								227
12	Chocks, rope, cast brass, Skene type, bow	TB-1802			4	4	4	4								228

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	MISCELLANEOUS HARDWARE (Continued)															
13	Chain, bilge limber #25, bronze	TB-1824			140'	140'	140'	140'								
14	Cleats, mast, brass, 3-1/2"	TB-1825			5	5	5	5								
15	Cleats, deck, galv. iron, 18", Figure 401	TB-1805			6	6	6	6								234
16	Decklights, aluminum, 6" cast	TB-1810			4	4	4	4								225
17	Doors, water tight, cast aluminum, Pattern T-78	TB-1813			3	3	3	3								222-A
18	Fenders, rope, 6" x 22"	TB-1809			6	6	6	6								
19	Frame, water tight door	TB-1814			3	3	3	3								
20	Gauges, fuel measuring (sounding stick) for 700 gal. tanks	TB-1826			1	1	1	1								
21	Gauges, fuel measuring (sounding stick) for 800 gal. tanks	TB-1827			1	1	1	1								
22	Handles, Lift brass WC, Figure 605#1 for hatches	TB-1828			4	4	4	4								
23	Hinges, brass butt 2-1/2" x 2-1/2" for tables, crew's quarters (pr.)	TB-5599			4	4	4	4								
24	Hinges, continuous, brass, 2" x 72"	TB-1830			2	2	2	2								
25	Hinges, cabin door, cast brass #2105, 2-7/8" x 1-3/8"	TB-1831			2	2	2	2								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-313	PR 450-485							Figure No.	Photo No.
	MISCELLANEOUS HARDWARE (Continued)															
26	Hooks, pelican release, brass, 3-1/2" long for life lines	TB-1807			6	6	6	6								
27	Hooks, WC#373 cabin door type, brass for tables, crew's quarters	TB-1878			4	4	4	4								
28	Lock, brass, Mortise door set, Willis #P1199	TB-5583			2	2	2	2								
29	Locks, Ladder brass W.C. figure 598	TB-1832			5	5	5	5								
30	Searchlight, 11-1/4" dia. lense, Portable Light Co. #1500 deck mounting	TB-1833			1	1	1	1								253
31	Siren, Sireno type 93, full brass construction	TB-4242			1	1	1	1								254
32	Turn buttons, Figure WC362, Size 2 door button for lockers	TB-1834			24	24	24	24								
33	Windows, Cellulose Acetate or Plexiglass pilot house front, 12" x 17" - 1/4"	TB-1835			6	6	6	6								
34	Window, Cellulose Acetate or Plexiglass pilot house side, 12" x 15" - 1/4"	TB-1836			2	2	2	2								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-313	PT 450-486							Figure No.	Photo No.
	MISCELLANEOUS HARDWARE (Continued)															
35	Window, pilot house, cast aluminum, 11" x 22"	TB-1837			2	2	2	2								221
36	Cover, deck ventilator, small, canvas	TB-1870			2	2	2	2								202
37	Cover, deck ventilator, large, canvas	TB-1871			4	4	4	4								198
38	Cover, searchlight, canvas	TB-1872			1	1	1	1								195
39	Cover, compass, canvas	TB-1873			1	1	1	1								199
40	Cover, throttle and telegraph, canvas	TB-1874			1	1	1	1								201
41	Cover, spray hood for hatch, canvas	TB-1875			1	1	1	1								203
42	Cover, siren, canvas	TB-1876			1	1	1	1								200
43	Shield, after deck spray, canvas	TB-1858			1	1	1	1								196
44	Cover, blackout, charthouse front	TB-1859			2	2	2	2								197
45	Cover, blackout, charthouse side	TB-1840			2	2	2	2								194
46	Cover, machine gun 50 cal., large	TB-1841			2	2	2	2								206
47	Cover, machine gun 50 cal., small	TB-1842			2	2	2	2								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-515	PT 450-485								
	MISCELLANEOUS HARDWARE (Continued)															
48	Cover, Oilkon gun, 20 mm.	TB-1843			2	2	2	2								
49	Cover, Oilkon gun, 40 mm.	TB-1844					1	1								
50	Cover, after deck hatch spray shield	TB-1845			1	1	1	1								215
51	Grating, pilot deck	TB-1846			1	1	1	1								219
52	Cabinet, medicine	TB-1847			2	2	2	2								213
53	Table, mahogany, crew's mess	TB-1848			1	1	1	1								214
54	Vent box, deck	TB-1849			4	4	4	4								216
55	Rail, 20 mm. gun, deflection	TB-1850			1	1	1	1								209
56	Rail, 50 cal. gun, deflection	TB-1851			2	2	2	2								210
57	Dip pot 20 mm. gun barrel	TB-1852			1	1	1	1								208
58	Rod, 20 mm. gun depression	TB-1853			1	1	1	1								207
59	Box, 20 mm. gun ammunition	TB-1854			2	2	2	2								205
60	Box, 20 mm. gun spare barrel	TB-1855			1	1	1	1								204
61	Foundation ring, 50 cal. gun turrets	TB-1856			2	2	2	2								211

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 195-254	PT 265-515	PT 450-485								
	MISCELLANEOUS HARDWARE (Continued)															
62	Ladder boarding	TB-1857			1	1	1	1								212
63	Rack, glass, table	TB-1858			1	1	1	1								218
64	Rack, dish, table	TB-1859			1	1	1	1								217
65	Tube, speaking, bridge to charthouse	TB-1860			1	1	1	1								225
66	Ventilator, clamshell, large, galv.	TB-1861			2	2	2	2								224
67	Plate, eye, life line	TB-1862			3	3	3	3								229
68	Handle, for W. T. door	TB-1863			6	6	6	6							1	222
69	Shaft, for W. T. door handle	TB-1864			6	6	6	6							2	222
70	Dog, for W. T. door handle	TB-1865			6	6	6	6							3	222
71	Nut, for W. T. door handle shaft	TB-1866			6	6	6	6							4	222
72	Key, for W. T. door handle shaft	TB-1867			6	6	6	6							5	222
73	Spring, for W. T. door handle shaft poppet	TB-1868			6	6	6	6							6	222
74	Poppet, for W. T. door handle shaft	TB-1869			6	6	6	6							7	222
75	Battery Box	TB-1879			1	1	1	1								251

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-84	PT 195-254	PT 265-515	PT 450-485						Figure No.	Photo No.
	MISCELLANEOUS HARDWARE (Continued)														
76	Vent, battery box	TB-1880			1	1	1	1						2	253
77	Vent, battery box deck fitting	TB-1881			1	1	1	1						4	253
78	Hose, vent, battery box to deck fitting	TB-1882			1	1	1	1						5	253
79	Spring vent, battery box to deck fitting, hose insert	TB-1885			1	1	1	1						1	253
80	Bracket, pot holder	TB-1884			1	1	1	1							256
81	Bell, ships, cast bronze	TB-1885			1	1	1	1							252
82	Binnacle, compass	TB-1886			1	1	1	1						1	255
83	Compass	TB-1887			1	1	1	1						2	255
84	Towing eye bolt	TB-1888			1	1	1	1						1	250
85	Nuts, towing eye bolt	TB-1889			2	2	2	2						2	250
86	Cable, towing eye bolt	TB-1890			1	1	1	1						3	250
87	Bracket, towing eye bolt, inside	TB-1891			1	1	1	1						4	250
88	Bracket, towing eye bolt, outside	TB-1892			1	1	1	1						5	250
89	Explosiometer, Mine Safety Co., Type 1	TB-5584			1	1	1	1							252

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	TOOLS														
1	Propeller Puller	TBT-10000			1	1	1	1							
2	Dolly, engine removal	TB-4052			1	1	1	1							246
3	Bracket, Packard Engine alignment, screw type jack	TB-4053	2602-336		1	1	1	1							251
4	Pullers, strut bearing	TBT-10001			1	1	1	1							
5	Pullers, shaftlog bearing	TBT-10002			1	1	1	1							
6	Pullers, engine flange	TBT-10003	2602-269		1	1	1	1							257
7	Tools, for installing gasoline hose couplings, TB-1214	TB-1215			1	1	1	1							
8	Tools, for installing Punch Lok hose clamps, TB-3101	TB-3102			1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION														
1	Bow, stem, mahogany, 11" x 22" x 11'	TBM-44			1	1	1	1							
2	Knee, bow stem, mahogany, 6" x 13" x 6'	TBM-45			1	1	1	1							
3	Forefoot, bow stem, mahogany, 6" x 15" x 11'	TBM-46			1	1	1	1							
4	Keel, fwd., L.L. Y.P., 6" x 12" x 40'	TBP-60			1	1	1	1							
5	Keel, aft, L.L. Y.P., 6" x 12" x 30'	TBP-61			1	1	1	1							
6	Bolts, keel scarph, monel CB, 5/8" x 6"	TB-3241			8	8	8	8							
7	Bolts, keel and stem, CB, 1/2" x 11"	TB-3237			2	2	2	2							
8	Bolts, keel and stem, CB, 1/2" x 12"	TB-3238			3	3	3	3							
9	Bolts, keel and stem, CB, 1/2" x 13"	TB-3239			2	2	2	2							
10	Bolts, keel and stem, CB, 1/2" x 13-1/2"	TB-3240			1	1	1	1							
11	Bolts, keel and stem, CB, 1/2" x 7"	TB-3236			2	2	2	2							
12	Bolts, keel and stem, CB, 1/2" x 8"	TB-3235			1	1	1	1							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
13	Bolts, keel and stem, CB, 1/2" x 6"	TB-3234			1	1	1	1							
14	Bracket, transom and keel, galv. steel, 1/8"	TB-5500			1	1	1	1							243
15	Bolts, bracket, transom and keel, CB, Galv. 1/4" x 1-3/4"	TB-3211			8	8	8	8							
16	Screws, bracket, transom and keel, LAG, galv., 3/8" x 4"	TB-3725			8	8	8	8							
17	Screws, bracket, transom and keel, LAG, galv., 3/8" x 2"	TB-3726			5	5	5	5							
18	Bracket, frame to stem, aluminum, 3/16" x 5" x 10"	TB-5501			5	5	5	5							247
19	Screws, bracket, frame to stem, LAG, galv., 5/16" x 2-1/2"	TB-3730			50	50	50	50							
20	Sheer casting, stbd., bronze, B-56	TB-5502			1	1	1	1						1	239
20A	Sheer casting, port, bronze, B-56	TB-5502			1	1	1	1						2	239
21	Chine casting, stbd. bronze, B-56	TB-5503			1	1	1	1							
21A	Chine casting, port, bronze, B-56	TB-5503			1	1	1	1							
22	Bolts, sheer scarph, galv., CB, 1/4" x 4-1/2"	TB-3221			32	32	32	32							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
23	Breast hook, mahogany, 4" x 8" x 36"	TBM-47			1	1	1	1							
24	Bolts, breast hook, galv., 5/16" x 3/4"	TB-3230			2	2	2	2							
25	Bolts, breast hook, galv., 5/16" x 10"	TB-3232			2	2	2	2							
26	Bolts, breast hook, galv., 5/16" x 11"	TB-3217			2	2	2	2							
27	Bolts, sheer and chine, galv. CB, 5/16" x 2-3/4"	TB-3228			20	20	20	20							
28	Bolts, sheer and chine, galv., CB, 5/16" x 3-3/4"	TB-3229			6	6	6	6							
29	Bolts, sheer and chine, galv. CB, 5/16" x 4-3/4"	TB-3230			16	16	16	16							
30	Bracket, stem and chine, galv. steel, 1/8"	TB-5504			1	1	1	1							241
31	Bolts, stem and chine bracket, galv. CB, 1/4" x 3"	TB-3204			10	10	10	10							
32	Bolts, stem and chine bracket, galv. CB, 1/4" x 3"	TB-3204			10	10	10	10							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
	Hull Construction (Rudder and Strut Blocks)														
33	Block, rudder port and strut, mahogany, 2-1/2" x 15" x 6'-6"	TBM-48			2	2									
34	Bolts, rudder port and strut, block, galv., 1/4" x 6-1/2"	TB-3223			32	32									
35	Bolts, rudder port and strut, block, galv., 1/4" x 3-1/2"	TB-3205			100	100									
36	Plates, rudder port, galv. steel, 1/8" x 13-1/2" x 17"	TB-5505			4	4									
37	Bolts, rudder port, block, galv. CB, 1/4" x 8-1/2"	TB-3224			4	4									
38	Screws, rudder port, block, Ev. Brz., 1-1/4"-#10	TB-3706			40	40									
39	Bolts, rudder port, block, galv., CB, 1/4" x 2-1/2"	TB-3202			32	32									
40	Bolts, rudder port, block, galv., CB, 1/4" x 3"	TB-3204			8	8									
41	Blocks, strut and shaftlog, mahogany, 2" x 12" x 10'	TBM-49			2	2									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
42	Bolts, strut and shaftlog, galv. CB, 1/4" x 6"	TB-3225			36	36									
43	Bolts, strut and shaftlog, galv. CB, 1/4" x 3"	TB-3204			100	100									
44	Plates, intermediate strut and log, galv., 1/8" x 13" x 17"	TB-5506			4	4									
45	Bolts, intermediate strut and log, galv. CB, 1/4" x 3"	TB-3204			8	8									
46	Bolts, intermediate strut and log, galv. CB, 1/4" x 2-3/4"	TB-3203			6	6									
47	Bolts, intermediate strut and log, galv. CB, 1/4" x 2-1/4"	TB-3212			6	6									
48	Screws, intermediate strut and log, Ev. Brz., 1-1/4"-#10	TB-3706			16	16									
49	Plates, center strut, galv. steel, 1/8" x 11" x 13"	TB-5507			2	2									
50	Screws, center.strut, plate, Ev.Brz., 1-1/4"-#10	TB-3706			8	8									
51	Plate, intermediate center strut, galv. steel, 1/8" x 11" x 11-3/4"	TB-5508			1	1									

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
52	Block, rudder port and strut, 3" x 15" x 10', mahogany	TBM-50					2	2							
53	Block, shaftlog and strut, mahogany, 3" x 15" x 13'	TBM-50					2	2							
54	Plate, to transom and block, galv. steel, 1/8" x 14" x 8"	TB-5509					2	2							
55	Bolts, plate to transom and block, galv. CB, 1/4" x 2-1/4"	TB-3212					14	14							
56	Screws, lag, plate to transom and block, galv., 1/4" x 2-1/2"	TB-3703					14	14							
57	Plate, to Frame 59 and block, galv. steel, 1/8" x 6" x 15"	TB-5510					2	2							240
58	Bolts, plate to frame 59 and block, galv. CB, 1/4" x 2-1/2"	TB-3202					14	14							
59	Screws, lag, Plate to frame 59 and block, galv. 1/4" x 2-1/4"	TB-3729					14	14							
60	Bracket, port and stbd., galv. steel, 1/8" x 15" x 19"	TB-5511					6	6							
61	Bolts, carriage, galv., 1/4" x 2-1/2" for P&S bracket	TB-3202					60	60							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	HULL CONSTRUCTION (Continued)															
62	Screws, lag, galv., for port and stbd. bracket, 1/4" x 2-1/2"	TB-3703					46	46								
63	Plate, keel, for center strut, galv. steel, 1/8" x 12" x 13"	TB-5512					2	2								
64	Screws, lag, for center strut keel plate, galv. steel 1/4" x 2"	TB-3728					8	8								
65	Plate, scarph joint, brass, 5/16" x 3"	TB-5513					30	30								
66	Plate, block, to frame, galv., 5/16" x 6-1/4"	TB-5514					70	70								
67	Plate, strut, galv. steel, 1/8" x 13" x 19"	TB-5515					4	4								
68	Screws, lag, for plate strut, galv., 1/4" x 2-1/2"	TB-3703					60	60								
69	Plate, strut keel, galv. steel, 1/8" x 12" x 13"	TB-5516					1	1								
70	Screws, lag, for strut keel plate, galv., 1/4" x 2"	TB-3728					8	8								
71	Plate, strut, galv. steel, 1/8" x 13" x 19"	TB-5517					2	2								
72	Bolts, for plate strut, galv. CB, 1/4" x 2 1/2"	TB-3202					20	20								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	HULL CONSTRUCTION (Continued)															
73	Screws, lag, for plate strut, galv., 1/4" x 2"	TB-3728					18	18								
	Hull Construction (Intermediate Frames)															
74	Frames, intermediate, spruce and mahogany, 1-5/8"	TBM-51			9	9	9	9								
75	Screws, F.H. wood for intermediate frames, Ev. Brz., 1-1/2"-#10	TB-3732			30	30	30	30								
76	Screws, F.H. wood for intermediate frames, Ev. Brz., 2"-#10	TB-3710			30	30	30	30								
77	Hook, deck stringer, spruce, 3" x 6" x 6'	TBS-12			1	1	1	1								
78	Bolts, deck stringer hook, galv. CB, 1/4" x 7"	TB-3220			10	10	10	10								
79	Plate, for deck stringer hook, aluminum, 3/16" x 8" x 9"	TB-5518			4	4	4	4								
80	Bracket, main stringer, galv. steel, 1/8" x 20" x 36"	TB-5519			1	1	1	1								237
81	Bolts, for main stringer bracket, galv. CB, 1/4" x 2 1/2"	TB-3202			10	10	10	10								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					Pt 71-94	Pt 197-254	Pt 265-313	Pt 450-485								
	HULL CONSTRUCTION (Continued)															
82	Bracket, intermediate stringer, galv. steel, 1/4" x 6" x 36"	TB-5520			1	1	1	1								
83	Bolts, for intermediate stringer bracket, galv. CB, 1/4" x 2-1/2"	TB-3202			10	10	10	10								
84	Bracket, wing stringer, aluminum, 3/16" x 15" x 28"	TB-5521			1	1	1	1								238
85	Bolts, for wing stringer bracket, galv. CB, 1/4" x 2 1/2"	TB-3202			18	18	18	18								
86	Bolts, for main stringer scabard, galv. CB, 5/16" x 4-1/2"	TB-3216			60	60	60	60								
87	Bolts, for intermediate stringer scabard, galv. CB, 5/16" x 6-1/2"	TB-3231			48	48	48	48								
88	Bolts, for wing stringer scabard, galv. CB, 5/16" x 6-1/2"	TB-3231			48	48	48	48								
89	Casting, main stringer, bronze, Pattern T-2	TB-1815			1	1	1	1								250

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					Pt 71-94	Pt 197-254	Pt 265-313	Pt 450-485								
	HULL CONSTRUCTION (Continued)															
	Hull Construction (Muffler Blocks)															
90	Block, muffler backing, mahogany ply, 5/8" x 15" x 20"	TBM-52			6	6	6	6								
91	Block, muffler backing, mahogany ply, 5/8" x 10" x 16"	TBM-55			4	4	4	4								
92	Bolts, for muffler backing block, brass, 5/16" x 2-3/4"	TB-3245			336	336	336	336								
93	Bolts, for muffler backing block, brass, 5/16" x 5"	TB-3244			60	60	60	60								
94	Block backing, muffler deflection, mahogany ply, 5/8" x 15" x 20"	TBM-66			8	8	8	8								
95	Deflection block, mahogany, 4" x 6" x 4'	TBM-54			2	2	2	2								
96	Deflection block, spruce, 2-1/2" x 4-1/2" x 32"	TBS-13			2	2	2	2								
97	Deflection block, spruce, 1-1/2" x 4" x 32"	TBS-14			2	2	2	2								
98	Deflection block, spruce, 1-1/2" x 6" x 32"	TBS-15			4	4	4	4								
99	Deflection block, spruce, 1/2" x 18" x 48"	TBS-16			4	4	4	4								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-515	PT 450-485							Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)															
100	Screws, F.H. wood, Ev. Brz., 1-3/4"-#12	TB-3716			300	300	300	300								
101	Screws, F.H. wood, Ev.Brz., 1"-#8	TB-3714			200	200	200	200								
102	Plugs, wood, mahogany, 5/8"	TBM-17			40	40	40	40								
103	Screws, F.H. wood, brass, 1/4" x 1-1/2", machine	TB-3245			4	4	4	4								
104	Bolts, galv. CB, 1/4" x 6-1/2"	TB-3225			8	8	8	8								
105	Bolts, galv. CB, 1/4" x 5"	TB-3207			8	8	8	8								
106	Bolts, galv. CB, 1/4" x 4"	TB-3226			4	4	4	4								
107	Bolts, galv. CB, 1/4" x 3-1/2"	TB-3205			8	8	8	8								
108	Bolts, galv. CB, 1/4" x 4-1/2"	TB-3221			4	4	4	4								
109	Bolts, galv. CB, 1/4" x 5-1/2"	TB-3208			8	8	8	8								
110	Bolts, galv. CB, 1/4" x 6"	TB-3225			4	4	4	4								
111	Stripping, brass, 1/16" x 1-1/2" x 20"	TB-3585			4	4	4	4								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS											
					PT 71-94	PT 197-254	PT 265-515	PT 450-485							Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)															
	Hull Construction (Guard Rail)															
112	Half Oval, galv., 1"	TB-3586			185'	185'	185'	185'								
113	Screws, F.H. wood, galv., 1-1/4"-#10	TB-3721			300	300	300	300								
114	Half round, stem band, galv. 1"	TB-3587			25'	25'	25'	25'								
115	Screws, F.H. wood, galv., 1-1/4"-#10	TB-3721			100	100	100	100								
	Hull Construction (Samson Post)															
116	Samson Post, L.L. Y.P., 5" x 5" x 12'	TBP-62			1	1	1	1								
117	Bracket, Samson post, lower, galv. steel, 1/8"	TB-3525			1	1	1	1							1	244
117A	Bracket, Samson post, upper, galv. steel, 1/8"	TB-3524			1	1	1	1							2	244
118	Bolts, galv. CB, 1/8" x 8"	TB-3242			1	1	1	1								
119	Bolts, galv. CB, 1/4" x 2-1/2"	TB-3202			20	20	20	20								
120	Bolts, galv. CB, 1/4" x 5-1/2"	TB-3208			16	16	16	16								
121	Bolts, galv. CB, 1/4" x 5"	TB-3207			6	6	6	6								
122	Bolts, galv. CB, 1/4" x 4-1/2"	TB-3221			12	12	12	12								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	HULL CONSTRUCTION (Continued)															
123	Rod, Samson post, galv. steel, 1" D. x 18"	TB-5588			1	1	1	1								
	Hull Construction (Chine and Transom Angle)															
124	Angle, chine, brass, complete set, bent to shape, 1/16" x 2" x 2"	TB-5589			140'	140'	140'	140'								
125	Angle, transom, side, bent to shape, 1/16" x 2" x 2", brass	TB-5590			14'	14'	14'	14'								
126	Angle, transom, bottom, bent to shape, 1/16 x 2" x 2", brass	TB-5591			12'	12'	12'	12'								
127	Screws, F.H. wood, Ev.Brz., 1"-#10	TB-3713			2100	2100	2100	2100								
	Hull Construction (Transom Knees and Installation)															
128	Knees, transom, mahogany ply, 1/2" x 4' x 8'	TBM-72			2	2	2	2								
129	Stiffener, transom knees, spruce, 1-1/4" x 2" x 6'	TBS-17			4	4	4	4								
130	Bolts, transom knees, galv. CB, 1/4" x 2-3/4"	TB-3203			60	60	60	60								
131	Bolts, transom knees, galv. CB, 1/4" x 2"	TB-3201			24	24	24	24								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-515	PT 450-485								
	HULL CONSTRUCTION (Continued)															
152	Screws, transom knees, Ev.Brz., 1-1/2"-#10, F.H.	TB-3701			12	12	12	12								
	Hull Construction (Guard Rail)															
153	Rail, guard, fwd., mahogany, 2" x 5" x 11'	TBM-75			2	2	2	2								
154	Rail, guard, aft, mahogany, 2" x 5" x 9'	TBM-55			2	2	2	2								
155	Bolts, guard rail, galv. CB, 1/4" x 4-1/4"	TB-3221A			28	28	28	28								
156	Screws, guard rail, Ev. Brz., 3"-#16, F.H.	TB-3719			6	6	6	6								
	Hull Construction (Butt Blocks)															
157	Blocks, butt, mahogany ply, 1/2" x 6" x 12"	TBM-56			16	16	16	16								
158	Blocks, butt, mahogany ply, 1/2" x 7" x 12"	TBM-57			50	50	50	50								
159	Blocks, butt, mahogany ply, 1/2" x 8" x 12"	TBM-58			54	54	54	54								
140	Blocks, butt, mahogany ply, 1/2" x 9" x 12"	TBM-59			6	6	6	6								
141	Blocks, butt, mahogany ply, 1/2" x 10" x 12"	TBM-60			2	2	2	2								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	HULL CONSTRUCTION (Continued)															
142	Screws, F.H. wood, Ev.Brz., 1/4" x 2"	TBM-61			1300	1300	1300	1300								
143	Screws, F.H. wood, Ev.Brz., 1-1/2" x #12	TB-3717			525	525	525	525								
	Hull Construction (Bilge Chain and Installation)															
144	Chain, bilge, Ev.Brs. or brass, #25	TB-1824			175'	175'	175'	175'								
145	Tubing, bilge chain travel 5/8"	TB-2904			6'	6'	6'	6'								
146	Spring, bilge chain	TB-5560			4	4	4	4								
147	Eye, wire screw, brass, 1-3/8" x 11/16"	TB-5561			8	8	8	8								
	Hull Construction (20 MM. Gun Foundation)															
148	Foundation, gun, spruce, 3" x 10" x 44"	TBS-18			2	2	2	2								
149	Foundation, gun, spruce, 2" x 10" x 44"	TBS-19			2	2	2	2								
150	Screws, F.H. wood, Ev.Brz., 3"-#16	TB-3719			25	25	25	25								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										Figure No.	Photo No.
					PT 71-94	PT 197-254	PT 265-313	PT 450-485								
	HULL CONSTRUCTION (Continued)															
151	Washers, aluminum, 2" dia. x 1/4"	TB-5592			32	32	32	32								
152	Bolts, U, S.A.E. cad.pl., 5/8" x 15"	TB-5528			16	16	16	16								248
153	Nuts, U bolts, S.A.E., cad.pl., 5/8"	TB-5593			32	32	32	32								
154	Plate, aluminum, 1/4" x 2" x 5"	TB-5525			16	16	16	16								249
	Hull Construction (Hatches)															
155	Top, fore peak hatch, mahogany ply, 1/2" x 28" x 26"	TBM-67			1	1	1	1								
156	Coaming, fore peak hatch, mahogany ply, 1/2" x 8" x 24"	TBM-68			4	4	4	4								
157	Stiffener, fore peak hatch, mahogany ply, 1-1/2" x 1-1/2" x 24"	TBM-69			1	1	1	1								
158	Screws, Ev. Brz., 1-1/4"-#10, F.H.	TB-5708			40	40	40	40								
159	Framing, mahogany, 2" x 5" x 26"	TBM-70			4	4	4	4								
160	Framing, mahogany, 2-1/2" x 5" x 26"	TBM-71			4	4	4	4								
161	Screws, wood, Ev.Brz., 1-1/2" x #12, F.H.	TB-5717			40	40	40	40								
162	Screws, wood, Ev.Brz., 1"-#10,F.H.	TB-5713			40	40	40	40								

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
163	Hinge, Piano, brass, 1/16" x 1-1/2" x 26"	TB-1829			1	1	1	1							
164	Screws, F.H. wood, Ev.Brz., 1"-#10	TB-3713			60	60	60	60							
165	Camlock, Perko, brass, #1108	TB-1820			2	2	2	2							
166	Screws, camlock, Ev.Brz., 1-1/2"-#10, F.H.	TB-3732			10	10	10	10							
167	Hatch adjuster, cad.pl., Tuttle & Kift	TB-1804			1	1	1	1							
168	Plate, hatch adjuster, alum., 5/16" x 2" x 2-1/2"	TB-5595			1	1	1	1							
169	Screws, F.H. mach., galv., 1/4"-1"	TB-3246			4	4	4	4							
170	Screws, F.H. wood, Ev.Brz., 1-1/2"-#12	TB-3717			2	2	2	2							
171	Seal, brass, hatch, 1-1/16" x 1" x 26"	TB-1830			3	3	3	3							
172	Half oval, alum., 1/2"	TB-5594			6'	6'	6'	6'							
173	Screws, F.H. wood, galv., 3/4"-#8	TB-3722			30	30	30	30							
173A	Coaming, hatch, complete	TB-5527			1	1	1	1							245

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
	Hull Construction (Escape Hatch - Ward Room, Engine Room, and Store Room)														
174	Hatch, top, mahogany ply, 1/2" x 30" x 30"	TBM-62			4	4	4	4							
175	Framing, hatch, mahogany ply, shaped	TBM-63			16	16	16	16							
176	Screws, F.H. wood, Ev.Brz., 1-1/4"-#10	TB-3706			160	160	160	160							
177	Stiffeners, hatch, mahogany, 1-3/4" x 1-3/4" x 30"	TBM-63			4	4	4	4							
178	Coaming, hatch, mahogany, 2-1/4" x 3" x 32"	TBM-64			16	16	16	16							
179	Coaming, hatch, mahogany ply, 1/4" x 8" x 26"	TBM-65			16	16	16	16							
180	Screws, F.H. wood, Ev.Brz., 1-1/2"-#12	TB-3717			160	160	160	160							
181	Screws, F.H. wood, Ev.Brz., 1"-#10	TB-3713			160	160	160	160							
182	Hatch adjuster, cad.pl., Tuttle & Kift	TB-1804			4	4	4	4							
183	Plate, hatch adjuster, alum., 5/16" x 2" x 2-1/2"	TB-1897			4	4	4	4							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
184	Screws, F.H. wood, galv., #14 x 1"	TB-3724			16	16	16	16							
185	Screws, F.H. wood, Ev.Brz., 1-1/2"-#12	TB-3717			8	8	8	8							
186	Hinge, Piano, brass, 1/16" x 1-1/2" x 26"	TB-1829			4	4	4	4							
187	Screws, F.H. wood, Ev.Brz., 1"-#10	TB-3713			125	125	125	125							
188	Camlock, Perko, brass, #1108	TB-1820			8	8	8	8							
189	Screws, F.H. wood, Ev.Brz., camlock, 1-1/2"-#10	TB-3732			10	10	10	10							
190	Seal, brass, hatch, 1-1/6" x 1" x 26"	TB-5596			16	16	16	16							
191	Half Oval, alum., 1/2"	TB-5594			32'	32'	32'	32'							
192	Screws, F.H. wood, galv., 3/4"-#8	TB-3722			128	128	128	128							
193	Beams, cross, spruce, 1-1/2" x 4-1/2" x 50"	TBS-24			10	10	10	10							
194	Beams, cross, spruce, 1-1/2" x 2-1/2" x 50"	TBS-25			2	2	2	2							
195	Framing, spruce, 1-1/2" x 4" x 74"	TBS-26			4	4	4	4							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
196	Bolts, galv. CB, 1/4" x 3-1/2"	TB-3205			8	8	8	8							
197	Screws, F.H. wood, Ev.Brz., 3"-#14	TB-3720			32	32	32	32							
198	Bracket, corner, alum., 3/16" x 4" x 8"	TB-1898			8	8	8	8							
199	Bolts, galv. CB, 1/4" x 1-1/2"	TB-3222			80	80	80	80							
201	Cap screws, cad.pl., 3/8" x 4"	TB-3341			20	20	20	20							
202	Stopnut, elastic, cad.pl.	22A-1-064			20	20	20	20							
203	Bolts, galv. CB., 1/4" x 2-1/2"	TB-3202			40	40	40	40							
204	Binding, hatch, alum., 1/16" x 2" x 48"	TB-5597			4	4	4	4							
205	Binding, hatch, alum., 1/16" x 2" x 36"	TB-1893			4	4	4	4							
206	Corners, hatch binding, alum., 1/16" shaped	TB-1894			8	8	8	8							
207	Screws, F.H. wood, galv., 1"-#10	TB-3731			520	520	520	520							
208	Handles, flush, brass, Perko, 603-#1	TB-1828			4	4	4	4							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
	Hull Construction (Engine Room Hatch)														
209	Framing, coaming, alum., 1/8"	TB-1899			1	1	1	1							
210	Bolts, galv. CB, 1/4" x 1-1/2"	TB-3222			140	140	140	140							
211	Bolts, galv. CB, 1/4" x 2-1/2"	TB-3202			140	140	140	140							
212	Screws, F.H. wood, galv., 3"-#16	TB-3719			20	20	20	20							
213	Padding, rubber, 1/4" x 1"	TB-1895			25'	25'	25'	25'							
214	Screws, R.H. machine, cad.pl., 1/4" x 1-1/2"	TB-3542			100	100	100	100							
215	Angle, hatch, brass, 1/16" x 1-1/2" x 1-1/2" x 7'	TB-5526			4	4	4	4							242
216	Hatch, engine room, complete	TB-1896			1	1	1	1							
	Hull Construction (Transom)														
217	Beams, transom, spruce, 2" x 10" x 15'	TBS-20			1	1	1	1							
218	Beams, transom, lower, spruce, 2" x 12" x 12'	TBS-21			1	1	1	1							
219	Stiffeners, transom, spruce, 2-1/4" x 6-1/4" x 8'	TBS-22			4	4	4	4							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS										
					PT 71-94	PT 197-254	PT 265-313	PT 450-485						Figure No.	Photo No.
	HULL CONSTRUCTION (Continued)														
220	Stiffeners, transom, spruce, 2-1/4" x 6-1/4" x 8'	TBS-23			7	7	7	7							
221	Bolts, galv. CB, 1/4" x 2-1/4"	TB-3212			40	40	40	40							
222	Bolts, galv. CB, 1/4" x 3-1/4"	TB-3227			40	40	40	40							
223	Bolts, galv. CB, 1/4" x 5"	TB-3207			25	25	25	25							
224	Bolts, galv. CB, 1/4" x 4-1/2"	TB-3221			25	25	25	25							
225	Bolts, galv. CB, 1/4" x 2-1/2"	TB-3202			20	20	20	20							

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H REPAIR PARTS FOR USE WITH AIR COMPRESSOR				
	CONTROL ASSEMBLY				
1	Flywheel nut	1B1			1
2	Flywheel nut lock washer	1A2			1
3	Starter Pulley	1G5			1
4	Starter Pulley Dome Plate	S1G160			1
5	Starter Pulley Plate Screw	S1G301			1
6	Starter Pulley Plate Lock Washer	D1E175			1
7	Starter Pulley Screw	D2F121			3
8	Starting Rope	1AA133			1
9	Magneto Control Lever Bracket	1G4			1
10	Magneto Lever Knob and insert	M1G9			1
11	Magneto Lever Knob Lock Washer	1A123			1
12	Magneto Lever Knob Nut	1A51			1
13	Magneto Handle Screw	1E171			3
14	Magneto Handle Lock Washer	1E174			3

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
15	Synchronous Control Cam Screw	1E171			1
16	Synchronous Control Cam Lock Washer	1E174			1
17	Synchronous Control Shaft	1F114			1
18	Synchronous Control Arm	1F121			1
19	Synchronous Control Lock Washer	1D112			1
20	Synchronous Control Shaft Nut	1F150			1
21	Synchronous Control Cam	1F140			1
	GAS TANK ASSEMBLY				
22	Gas Tank Assembly	S4GG32			1
23	Decalcomania (Transfer)	4G139			1
24	Gas Cap Assembly	1EE54			1
25	Gas Cap Gasket	1E42			1
26	Gas Cap Safety Chain	1C255			1
27	Gas Cap Safety Spring	1C256			1
28	Gas Tank Skirt Screw	4G351			8
29	Gas Tank Skirt Nut	4G356			8

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
30	Gas Tank Skirt (Right)	4GG373R			1
31	Gas Tank Skirt (Left)	4GG373L			1
32	Gas Tank Bracket Screw	1A38			4
33	Gas Tank Bracket Sorew Lock Washer	1A73			4
34	Copper Tank Bracket Washer	1A142			4
35	Steel Tank Bracket Washer	1G142			4
36	Front Gas Tank Bracket	1G129			1
37	Rear Gas Tank Bracket	1G155			1
	SHUTOFF SPACER AND SCREEN ASSEMBLY				
38	Shutoff Spacer and Screen Assembly	4GG214			1
39	Gas Line Shutoff	1G35			1
40	Knob Set Screw	4G334			1
41	Knob for Shutoff and Choke	M4G188			1
	CHOKE EXTENSION LEVER AND BRACKET ASSEMBLY				
42	Choke Extension Lever and Bracket Assembly	4GG331			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
43	Choke Extension	4G319			1
44	Choke Extension Spacer	4G333			1
45	Choke Return Spring	4G321			1
46	Choke Extension Lever Mounting Bracket Washer	4G324			1
47	Choke Extension Lever Mounting Bracket Screw	4G329			1
48	Choke Extension Lever Bracket Lock Washer	1A41			1
49	Gas Line Shutoff Crossbar Coupling	4G325			1
50	Gas Line Shutoff Extension Shaft	4G326			1
51	Gas Line Shutoff Cross bar Coupling Screw	4G332			1
52	Gas Line Shutoff Lock Washer	D1E175			1
53	Gas Line Shutoff Nut	1E149			1
54	Gas Line Crossbar Coupling Spacer	4G335			1
55	Gas Line	S4G36			1
56	Gas Line Nut	1A37			2

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
57	Gas Line Sleeve	1A43			2
	STEERING HANDLE ASSEMBLY				
58	Steering Handle Assembly	1GG270			1
59	Steering Handle and Grip	1GG167			1
60	Steering Handle Spring	D1E168			1
61	Steering Handle Hinge Bolt	1G51			2
62	Steering Handle Bolt Nut	1G80			2
63	Steering Handle Rubber Grip	1G166			1
64	Carrying Handle	D1C205			1
65	Carrying Handle Stud Nut	1A49			2
66	Carrying Handle Stud Lock Washer	1A72			2
	CRANKCASE ASSEMBLY				
67	Crankcase Assembly	S4GG13			1
68	Upper Crankshaft Bearing	1E14			1
69	Carburetor Stud	1G15			2
70	Carrying Handle Stud	1G16			2

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
71	Cylinder Block Stud	1E17			4
72	Cylinder Flange Gasket	1G39			1
73	Carburetor Insert	1G150			1
74	Lower Crankshaft Bearing	S1G20			1
75	Crankcase Gasket	1E120			1
76	Carburetor Gasket	1A117			1
77	Carburetor Connector	1G125			1
78	Nut for Case, Cylinder and Carburetor	1A51			6
79	Screw for Cylinder and Case	1E41			2
80	Screw for Crankcase Base	1E40			4
81	Lock Washer for Cylinder, Carburetor and Crankcase	1A73			12
82	Cylinder Block	1G50			1
83	Detachable Head	1G45			1
84	Detachable Head Gasket	1G116			1
85	Detachable Head Screw	1G151			6

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
86	Detachable Head Screw Lock Washer	D2C134			6
87	Spark Plug and Gasket	1G138			1
88	Crankshaft	S1G8			1
89	Crankshaft Key	1F11			1
	CONNECTING ROD ASSEMBLY				
90	Connecting Rod Assembly	1EE23			1
91	Connecting Rod Screw Lock	1F112			2
92	Connecting Rod Screw	1A66			2
	PISTON ASSEMBLY				
93	Piston Assembly	1EE26			1
94	Piston and Wrist Pin	1E25			1
95	Wrist Pin Lock	1A28			2
96	Piston Ring	S1C29			2
97	Wrist Pin	1E27			1
98	Outlet Water Line	S1G211			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
99	Inlet Water Line	S1G104			1
100	Water Line Nut	1A105			4
101	Water Line Sleeve	1A106			4
102	Water Line Connector	1A113			1
	CARBURETOR				
103	Air Deflector	06459			2
104	Air Deflector Screw	01108			2
105	Air Deflector Screw Lockwasher	0992			2
106	Body	06929			1
107	Body Welch Plug	02531			1
108	Flange Gasket	05591			1
109	Float	04636			1
110	Float Spring Cotter	05425			1
111	Float Bowl Drain Plug	0164			1
112	Float Bowl Drain Plug Gasket	0648			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
113	Float Cover	06882			1
114	Float Cover Screw	054			6
115	Float Cover Screw Lockwasher	0992			2
116	Idle Adjustment Screw	06910			1
117	Idle Adjustment Screw Spring	05725			1
118	Idle Tube	06905			1
119	Idle Tube Gasket	06569			1
120	Inlet Valve and Seat	06941			1
121	Inlet Valve Plug Screw (headless)	02595			1
122	Inlet Seat Gasket	0212			1
123	Main Adjustment Stop Pin	06576			1
124	Main Adjustment Screw	06921			1
125	Main Adjustment Knob	06925			1
126	Main Adjustment Acorn Nut	06924			1
127	Main Adjustment Nut Lockwasher	01675			1
128	Main Adjustment Gland	0702			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
129	Main Adjustment Gasket	0676			1
130	Main Adjustment Packing Nut	0703			1
131	Main Adjustment Packing	0705			1
132	Throttle Stop Pin	06918			1
133	Throttle Stop Lever (Order No. 07000)	06652			1
134	Throttle Stop Lever Ret. Screw	051			1
135	Throttle Return Spring	06654			1
136	Throttle Shaft	06903			1
137	Throttle Shutter	06552			1
138	Throttle Shutter Ret. Screw	04849			1
139	Complete Carburetor Assembly	1GG124			1
	MAGNETO				
140	Fixed Contact Washer (brass)	M-53X			1
141	Fixed Contact Insulating Bshg.	M-54X			1
142	Condenser Connection Nut L.W.	M-52X			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
143	Fixed Contact L.W.	M-55XA			1
144	Breaker Plate Clamp Screw L.W.	M-58X			1
145	Lead Wire Clamp Screw L. W.	M-58X			1
146	Condenser Connection Nut	M-71XA			1
147	Fixed Contact Nut	M-73X			1
148	Condenser Clamp Screw L. W.	M-90X			1
149	Pilot Clamp Screw L. W.	M-60X			1
150	Fixed Contact	A-246XB			1
151	Core Screw L. W.	IKA-362			1
152	Fixed Contact Insulating Washer	IKA-862			1
153	Lead Wire Clamp Screw	IFA-881			1
154	Breaker Plate Clamp Screw	1085			1
155	Condenser Clamp Screw	1100			1
156	Breaker Plate	2144			1
157	Breaker Arm Spring	2145			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
158	Breaker Arm Group	X2151			1
159	Coil Group	X2156			1
160	Core Screw	2157			1
161	Pilot Clamp Screw	2157			1
162	Lead Wire Bushing	2179			1
163	Condenser Assembly	X2186			1
164	Breaker Plate Clamp Screw Washer	2194			1
165	Breaker Connection Strip	2196			1
166	Lead Wire Group (15")	X2215			1
167	Coil Wedge	2264B			1
168	Breaker Arm Lock	2300			1
169	Breaker Arm Spacing Washer	2557			1
170	Spring Washer	3081			1
171	Clamp Bushing	3454			1
172	Lead Wire Clamp	3455			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated Are For One Assembly
	CHAMPION MODEL 1H (Continued)				
172	Lead Wire Clamp	3455			1
173	Rotor Assembly	Y3491			1
174	Stator Plate Unit (includes stator plate, coil, core, condenser, breaker mechanism)	X4062			1
175	Breaker Cam	4063			1
176	Stator Plate Assembly (includes stator plate and core only)	X4158			1
177	Magneto (complete)	1GG220			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated are per Assembly
	Westinghouse 3-GW-38 Air Compressor				
1	3-GW-38 Air Compressor, complete, less Gas Engine, Engine Gasket and Engine Studs	185741			1
2	Crank Case, complete (Includes 8, four of 6, six of 3, 4, 5 and ten of 7)	185807			1
3	3/8"-16 x 1-1/4" Stud and Hex. Nut	85476			6
4	5/16"-18 x 1-1/2" Stud and Hex. Nut	85149			6
5	5/16" Shakeproof Lock Washers	506602			6
6	3/8" x 1-1/2" Stud and Hex. Nut	511017			4
7	3/8" Shakeproof Lock Washers	506603			10
8	Ball Bearing	6305			1
13	1"-16 Cap Nut	74457			1
14	1/4" Plug	97588			1
15	Crankshaft	185809			1
	End Bearing Housing with Bearing (Includes 16 and 17)	185810			1
16	End Bearing Housing	6305			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated are per Assembly
	Westinghouse 3-GW-38 Air Compressor (Continued)				
17	Ball Bearing	6306			1
18	Gasket	183652			2
19	.010" Shim	185812			5
20	.005" Shim	185813			2
21	.002" Shim	185814			2
22	End Cover	185815			1
23	Connecting Rod, complete (Includes 24, two of 25, 26, and 27)	185588			1
24	Shims	185591			1
25	Connecting Rod Stud	185589			2
26	1/16" x 1/2" Cotter	5735			2
27	Castellated Nuts	79069			2
	Piston, complete (Includes 28, 30 and two of 29)	183733			1
28	Piston	183734			1
29	Compression Ring	183735			2

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated are per Assembly
	Westinghouse 3-GW-38 Air Compressor (Continued)				
30	Oil Ring	183736			1
31	Wrist Pin	183737			1
32	Wrist Pin Retainer	183738			1
33	Cylinder Gasket	185596			1
	Cylinder, complete (Includes, 34, Pc. 184546, 184551, 43, 51, two of 42 and 44)	185624			1
34	Cylinder	185597			1
	Inlet, Valve, complete (Includes 35, 36, 37, 38, 39, 40 and 41)	184546			1
35	Spring Seat	184550			1
36	Valve Guide	184548			1
37	Inlet Valve Spring	184549			1
38	Inlet Valve	181782			1
39	Inlet Valve Seat	184547			1
40	1/4"-28 S.A.E. Castle Nut	77787			1
41	1/16" x 1/2" Cotter	5735			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated are per Assembly
	Westinghouse 3-GW-38 Air Compressor (Continued)				
42	Valve Gasket	99720			2
43	Inlet Valve Plug	183352			1
44	Valve Caps	181790			2
	Discharge Valve, complete (Includes 45, 46, 47, 48, 49 and two of 50)	184551			1
45	Discharge Valve Seat with Stud	184552			1
46	Valve Guide	184548			1
47	Discharge Valve	181782			1
48	Discharge Valve Spring	184549			1
49	Spring Seat	184555			1
50	1/4"-28 Jam Nut	521228			2
51	Discharge Valve Plug	183353			1
	Breather, complete (Includes 55, 56, 57 and 58)	185626			1
55	Breather Tube	185592			1
56	Breather Tube Screen	185599			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated are per Assembly
	Westinghouse 3-GW-38 Air Compressor (Continued)				
57	Breather Cover	185593			1
58	Breather Cap Nut	185594			1
65	Bevel Gear, complete	185821			1
66	No. 9 Woodruff Key	120941			1
67	7/8"-20 S.A.E. Castle Nut	73002			1
68	1/8" x 1-1/2" Cotter	4907			1
	Gear Housing, complete (Includes 70, 71, 78, three of 72 and 73)	185817			1
70	Gear Housing	185826			1
71	Oil Retainer	21115			1
72	5/16" x 1" Stud and Nut	522686			3
73	5/16" Shakeproof Lock Washer	506602			3
74	Bevel Pinion	185823			1
75	Bearing Collar	185877			1
76	Retaining Ring	185878			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated are per Assembly
	Westinghouse 3-GW-38 Air Compressor (Continued)				
77	1/4"-18 Spline Pipe Plug	516298			1
78	Flush Nut	185820			1
79	Grommet	185885			1
80	Gear Housing Gasket	185816			1
81	3/8" Shakeproof Lock Washer	506603			2
82	3/8"-16 x 2-1/2" Hex. Hd. Mch. Screws	15691			2
	Water Pump, complete (Includes 85, Pc. 185828, 89, 90, 91, 93, 94, 95, 96, two of 99, six of 97 and 98)	185824			1
85	Water Pump Housing	185827			1
86	Drive Shaft with Gear, complete	185828			1
89	Idler Shaft with Gear, complete	185831			1
90	Water Pump Gasket	185833			1
91	Water Pump Cover	185834			1
93	12" of 1/8" Braided Turco Graphite Packing	W-2000			1

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated are per Assembly
	Westinghouse 3-GW-38 Air Compressor (Continued)				
94	7/8"-20 Jam Nut	185837			1
95	Stuffing Box Gland	185835			1
96	Stuffing Box Nut	185836			1
97	.190" (No. 10)-24 x 5/8" Fil. Hd. Screw	3380			6
98	3/16" Shakeproof Lock Washer	506607			6
99	1/8" Grease Cup	W-2001			2
100	Champion Model 1H Gasoline Engine Power Head with Exhaust Manifold Gasket and Spline Crankshaft Drive	1H			1
101	Exhaust Manifold	185842			1
102	Exhaust Flange Gasket	185838			1
103	Exhaust Flange	185839			1
104	1/2" Shakeproof Lock Washer	506604			2
105	1/2"-13 x 1-3/8" Hex. Hd. Cap Screw	11760			2

636549 O - 45 - 9

ITEM NO.	NOMENCLATURE	PART NO.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS Quantities Indicated are per Assembly
	Westinghouse 3-GW-38 Air Compressor (Continued)				
106	3/8" Shakeproof Lock Washer	506603			2
107	3/8"-16 x 1-1/8" Hex. Hd. Cap Screw	15784			2
108	1/4"-20 x 1-5/8" Stud	185840			2
109	1/4"-28 Castle Nut	77787			6
110	1/16" x 1/2" Cotter	5735			2
111	1/4"-28 x 1-1/8" Bolt	185841			4
112	1/4" Compression Elbow Fitting	87205			3
113	3/8" Compression Elbow Fitting	86915			1
114	3/8" Check Valve, complete	522502			1
115	1/8" Drain Valve	148809			1
116	3/8" x 1" Nipple	66119			1
117	1/2" x 3/8" Steel Face Bushing	W-2002			1

PART NO.	PATT. NO.	NOMENCLATURE	DETAIL SPECS.	U.S. NAVY SPECS.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS PT 71-84	RPT 1-12	PT 197-214	PT 215-228	PT 229-245	PT 246-254	PT 265-313	PT 450-485		Figure No.	Photo No.
		CASTING PATTERN NUMBERS															
TB-1964	T-1	Steering Gear Sprocket Trans.	Alum. Alloy A-334 Al. 22,000 Tensile No Chemical		2602-8N	553574	1	2	1	1	1	1	1	1			
TB-1954	T-1A	Gland-Steering Gear Sprocket Trans.	Same Specs. as Patt.T-1		2602-8N	553574	1	2	1	1	1	1	1	1			
TB-1950	T-1B	Cover-Steering Gear Sprocket Trans.	Same Specs. as Patt.T-1		2602-8N	553574	1	2	1	1	1	1	1	1			
TB-1815	T-2	Fwd. Deck Stringer Bracket	Comp Mn-c Bronze	49B3	2602-310		1	1	1	1	1	1	1	1			
TB-4000	T-3	Port and Stbd. Intermediate Strut for 2-1/4" Shaft	Comp Mn-c Bronze	49B3	2602-7FF	484563	2	2	2		2						
TB-4010	T-4	Port and Stbd. Shaftlogs, 2-1/4" Shaft	Comp M Bronze	46B8g	2602-7VV		2	2	2		2						
TB-4007	T-5	Center Shaftlog for 2-1/4" Shaft	Comp M Bronze	46B8g	2602-7VV		1	1	1		1						
TB-1980	T-6A	Rudder Stuffing Box Lock Nut	Comp M Bronze	46B8g	2602-8L	484574	2	2	2	2	2	2	2	2			

PART NO.	PATT. NO.	NOMENCLATURE	DETAIL SPECS.	U. S. NAVY SPECS.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
							PT 71-84	RPT 1-12	PT 197-214	PT 215-228	PT 229-245	PT 246-254	PT 265-313	PT 450-485	Figure No.	Photo No.
		CASTING PATTERN NUMBERS (Continued)														
TB-1981	T-6B	Rudder Stuffing Collar	Comp M Bronze	46B8g	2602-8L	484574	2	2	2	2	2	2	2	2		
TB-1982	T-6C	Rudder Ports	Comp M Brz	46B8g	2602-8L	484574	2	2	2	2	2	2				
TB-1983	T-6D	Rudder Ports	Comp M Brz	46B8g	2602-8R	553587							2	2		
TB-4005	T-7	Center Strut, 2-1/4" Shaft	Comp Mn-c	49B3	2602-7FF	484563	1	1	1		1					
TB-4004	T-8	Port and Stbd. Strut, 2-1/4" Shaft	Comp Mn-c	49B3	2602-7FF	484563	2	2	2		2					
TB-1104	T-9	Fresh Water Manifold	Alum. Alloy A356 Al. 22-000 Tensile & Chem Req. Heat treated	AN-QQ-A394	2602-7S	484518	3	3	3	3	3	3	3	3		
TB-1944	T-10	Support B aring	Same Specs. as Patt. T-9	AN-QQ-A394	2602-8N	553574	3	3	3	3	3	3	3	3		
TB-4013	T-11A T-11B	Shaftlog Bulkhead Seal Packing Gland, 2-1/4" Shaft	Comp M Brz	46B8g	2602-7VV		3	3	3		3					
TB-1117	T-12	Cap, Fill Fitting and Cleanout Fitting	Same Specs. as Patt. T-9	AN-QQ-A394	2602-7N	553574	13	13	13	13	13	13	13	13		
TB-1118	T-12A	Flange, Fill Fitting & Cleanout Fitting	Same Specs. as Patt. T-9	AN-QQ-A394	2602-7N	553574	13	13	13	13	13	13	13	13		

PART NO.	PATT. NO.	NOMENCLATURE	DETAIL SPECS.	U. S. NAVY SPECS.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
							PT 71-84	RPT 1-12	PT 197-214	PT 215-228	PT 229-245	PT 246-254	PT 265-313	PT 450-485	Figure No.	Photo No.
		CASTING PATTERN NUMBERS (Continued)														
TB-1941	T-15	Idler Sprocket Casting	Comp Mn-c Bronze	49B3	2602-8N	553574	1	1	1	1	1	1	1	1		
TB-1943	T-16	Bulkhead Fitting, Horizontal Torque Shaft	Comp M Brz	46B8g	2602-8N	553574	5	5	5	5	5	5	5	5		
TB-1900	T-17	Steering Gear Case, c/w Gear	Same Specs. as Patt. T-9		2602-8A	484513	1	1	1	1	1	1	1	1		
TB-1907	T-17A	Cover, Steering Gear Case	Alum. Alloy A334 Alum. 22,000 Tensile No Chemical		2602-8F		1	1	1	1	1	1	1	1		
TB-1908	T-17B	Bottom, Steering Gear Case	Same Specs. as Patt. T-17A		2602-8F		1	1	1	1	1	1	1	1		
TB-1101	T-19	Adapter, 1-1/2" Hose to 1-1/2" Pipe	Alum. Alloy A356, 22,000 Tensile and Chemical reqd. heat treated	AN-QQ-A394	2602-7S	484518	6	6	6	6	6	6	6	6		
TB-1111	T-20	Tees, for 1-1/2" Hose	Same Specs. as Patt. T-19	AN-QQ-A394	2602-7S	484518	3	3	3	3	3	3	3	3		

PART NO.	PATT. NO.	NOMENCLATURE	DETAIL SPECS.	U. S. NAVY SPECS.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
							PT 71-84	RPT 1-12	PT 197-214	PT 215-228	PT 229-245	PT 246-254	PT 265-313	PT 450-485	Figure No.	Photo No.
		CASTING PATTERN NUMBERS (Continued)														
TB-1102	T-21	Ells, Adapting 90°, 1-1/2" Hose to 1-1/2" Pipe	Same Specs. as Patt. T-19	AN-QQ-A394	2602-7S	484518	3	3	3	3	3	3	3	3		
TB-1103	T-21A	Ells, Adapting 90°, 1-3/4" Hose to 1-1/2" Pipe	Same Specs. as Patt. T-19	AN-QQ-A394	2602-7S	484518	3	3	3	3	3	3	3	3		
TB-1100	T-22	Tee, for Hose, Size 3-1/4" x 3-1/4" x 2-1/2"	Same Specs. as Patt. T-19	AN-QQ-A394	2602-7S	484518	2	2	2	2	2	2				
TB-1046	T-24	Exhaust Pipe Flanges	Comp Mn-c Bronze	49B3	2602-7E		6	6	6	6	6	6	6	6		
TB-1123	T-26	Fill Fittings	Same Specs. as Patt. T-19	AN-QQ-A394	2602-7N	484512	3	3	3	3	3	3	3	3		
TB-1121	T-27	Fitting, Sight Gauge	Alum. Alloy A365, 22,000 Tensile and Chem. reqd. heat treated	AN-QQ-A394	2602-7N	484512	12	12	12	12	12	12	12	12		
TB-1124	T-30	Outlet, Fittings	Same Specs. as Patt.T-27	AN-QQ-A394	2602-7N	484512	3	3	3	3	3	3	3	3		
TB-1125	T-31	Drain, Fitting	Same Specs. as Patt.T-27	AN-QQ-A394	2602-7N	484512	5	5	5	5	5	5	5	5		
TB-1305	T-35	Throttle Control Bracket, Engine Room	Same Specs. as Patt.T-27	AN-QQ-A394	2602-12H	553573	2	2	2	2	2	2	2	2		

PART NO.	PATT. NO.	NOMENCLATURE	DETAIL SPECS.	U. S. NAVY SPECS.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
							PT 71-84	RPT 1-12	PT 197-214	PT 215-228	PT 229-245	PT 246-254	PT 265-313	PT 450-485	Figure No.	Photo No.
		CASTING PATTERN NUMBERS (Continued)														
TB-1225	T-38	Fuel Manifold	Same Specs. as Patt.T-27	AN-QQ-A394	2602-7S	484518	1	1	1	1	1	1	1	1		
TB-1233	T-39	Vent and Backfire traps, Fuel Tanks	Same Specs. as Patt.T-27	AN-QQ-A394	2602-7V	484534	4	4	4	4	4	4	4	4		
TB-1234	T-40	Fuel Tank Fill Fitting	Same Specs. as Patt.T-27	AN-QQ-A394	2602-7V	484534	4	4	4	4	4	4	4	4		
TB-1235	T-41	Caps, Fuel Tank Fill Fitting	Same Specs. as Patt.T-27	AN-QQ-A394	2602-7V	484534	4	4	4	4	4	4	4	4		
TB-1232	T-42	Outlet, Fuel Tank	Same Specs. as Patt.T-27	AN-QQ-A394	2602-7V	484534	4	4	4	4	4	4	4	4		
TB-1307	T-43	Throttle and Telegraph Control Housing (bridge)	Alum. Alloy A334 Al. 22-000 Tensile No Chemical		2602-12B	484520	1	1	1	1	1	1	1	1		
TB-1300	T-44	Throttle Line Take-Ups	Alum. Alloy A334 Al. 22-000 Tensile No Chemical		2602-12H	553573	3	3	3	3	3	3	3	3		
	T-45A	Couplings, 3" Exhaust hose	Comp M Brz	46B8g	2602-7EE		12	12	12	12	12	12	12	12		
TB-1021	T-45	Couplings, 4-1/2" Exhaust Hose	Comp M Brz	46B8g	2602-7EE		6	6	6	6	6	6	6	6		

PART NO.	PATT. NO.	NOMENCLATURE	DETAIL SPECS.	U.S. NAVY SPECS.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
							PT 71-84	RPT 1-12	PT 197-214	PT 215-228	PT 229-245	PT 246-254	PT 265-313	PT 450-485	Figure No.	Photo No.
		CASTING PATTERN NUMBERS (Continued)														
TB-1933	T-46	Tie Rod Eye	Comp-Mn-c Bronze	49B3	2602-8A	484492	1	1	1	1	1	1	1	1		
TB-1934	T-47	Tie Rod Clevis	Comp-Mn-c Bronze	49B3	2602-8A	484492	3	3	3	3	3	3	3	3		
TB-1395	T-48	Bracket for Offset Sheaves	Same Specs. as Patt.T-44		2602-12H	553573	1	1	1	1	1	1	1	1		
	T-49	Dog for water tight door	Same Specs. as Patt.T-44		2602-7V	484534	6	6	6	6	6	6	6	6		
TB-1014 TB-1015	T-50	Port and Stbd. Underwater Mufflers	Comp G.Chem. & physical waived 40# Hy-test reqd. No welding permitted	46M6g	2602-7BB and 2602-7JJ.		6	6	6	6	6	6	6	6		
TB-1935	T-52	Male and Female Clevis	Comp Mn-c	49B3	2602-8A	484492	4	4	4	4	4	4	4	4		
TB-1011	T-53	Butterfly for Mufflers	Comp M Brz	46B8g	2602-7BB	484552	6	6	6	6	6	6	6	6		
TB-1012	T-54	Lever, Butterfly, Muffler	Comp M Brz	46B8g	2602-7BB	484552	6	6	6	6	6	6	6	6		
TB-5503	B-56	Port Chine Brackets	Comp Mn-c Bronze	49B3	2602-5H		1	1	1	1	1	1	1	1		
TB-5502	B-56	Port Sheer Bracket	Comp Mn-c Bronze	49B3	2602-5H		1	1	1	1	1	1	1	1		

PART NO.	PATT. NO.	NOMENCLATURE	DETAIL SPECS.	U.S. NAVY SPECS.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
							PT 71-84	RPT 1-12	PT 197-214	PT 215-228	PT 229-245	PT 246-254	PT 265-313	PT 450-485	Figure No.	Photo No.
		CASTING PATTERN NUMBERS (Continued)														
TB-5503	B-56	Stbd. Chine Bracket	Comp Mn-c Bronze	49B3	2602-5H		1	1	1	1	1	1	1	1		
TB-5502	B-56	Stbd. Sheer Bracket	Comp Mn-c Bronze	49B3	2602-5H		1	1	1	1	1	1	1	1		
TB-1863	T-57	Handle for water tight door	Alum. Alloy A334 Al. 22-000 Tensile No Chemical		2602-7V	484534	6	6	6	6	6	6	6	6		
TB-4823	T-60	Deck bearing for emergency tiller arm	Comp M Brz	46B8g	2602-7TTT		4	4	4	4	4	4	4	4		
TB-1048	T-61	Exhaust Pipe Brackets	Same Specs. as Patt.T-57		2602-7EE				4	4	4	4	4	4		
TB-1237	T-63A	Flange, Deck Plate, 5"	Alum. Alloy A356 22,000 tensile and chem. heat treated	AN-QQ-A394	2602-7V	484534			4	4	4	4	4	4		
TB-1236	T-63B	Cap, Deck Plate, 5"	Same Specs. as Patt.T-63A	AN-QQ-A394	2602-7V	484534			4	4	4	4	4	4		
TB-2011	T-64	Scoop, 3/4"	Comp M Brz	46B8g	2602-57		9	9	9	9	9	9	9	9		
TB-4063	T-65	Packing Gland for bulkhead seal	Comp M Brz	46B8g	2602-7VV				1		1		1	1		

PART NO.	PATT. NO.	NOMENCLATURE	DETAIL SPECS.	U. S. NAVY SPECS.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
							PT 71-84	RPT 1-12	PT 197-214	PT 215-228	PT 229-245	PT 246-254	PT 265-313	PT 450-485	Figure No.	Photo No.
		CASTING PATTERN NUMBERS (Continued)														
TB-4012	T-68A T-68B	Shaftlog packing glands	Comp M Brz	46B8g	2602-78S					3		3				
TB-1109	T-69	Scoop, Intake, 3 3/4"	Comp M Brz	46B8g	2602-7S		3	3	3	3	3	3	3	3		
TB-1110	T-69	Scoop, Outlet, 3 3/4"	Comp M Brz	46B8g	2602-7S		3	3	3	3	3	3	3	3		
TB-1042	T-73	Exhaust Pipe Spacer	Alum. Alloy A356 22,000 Tensile and Chem. reqd. heat treated	AN-QQ-A394	2602-219		6	6	6	6	6	6	6	6		
	T-74	Coupling for clutch extension shaft	Steel		2602-328		2	2	2	2	2	2	2	2		
TB-4621	T-77	Selector Valve Handles	Comp M Brz	46B8g			2	2	2	2	2	2	2	2		
TB-1813	T-78	Bulkhead Door	Alum. Alloy A334 Al. 22-000 Tensile No chemical		2602-7Y		3	3	3	3	3	3	3	3		
TB-1801	T-79	Bow Casting	Same Specs. as Patt.T-78		2602-72		1	1	1	1	1	1	1	1		
TB-4002	T-85	Keel, Bearing, 2-1/4"	Comp Mn-c	49B3	2602-7YY					1		1				

PART NO.	PATT. NO.	NOMENCLATURE	DETAIL SPECS.	U. S. NAVY SPECS.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
							PT 71-84	RPT 1-12	PT 197-214	PT 215-228	PT 229-245	PT 246-254	PT 265-313	PT 450-485	Figure No.	Photo No.
		CASTING PATTERN NUMBERS (Continued)														
TB-4001	T-86	Intermediate Strut, Port & Stbd., 2-1/4"	Comp Mn-c	49B3	2602-7YY					2		2				
TB-1911	T-88A	Bottom, Variable Reduction Transmission Case, Steering	Alum. Alloy A334 Al. 22-000 Tensile No chemical		2602-8P	553577	1	1	1	1	1	1	1	1		
TB-1912	T-88B	Top, Variable Reduction Transmission Case, St ering	Same Specs. as Patt.T-88A		2602-8P	553577	1	1	1	1	1	1	1	1		
TB-1923	T-88C	Lock	Comp M Brz	46B8g	2602-8P	553577	1	1	1	1	1	1	1	1		
TB-4035	T-89	Main Center Strut, 2"	Comp Mn-c	49B3	2602-7PP								1	1		
TB-4057	T-90	Center Intermediate Strut, 2"	Comp Mn-c	49B3	2602-7NN								1	1		
TB-4037	T-91	Center Shaftlog	Comp M Brz	46B8g	2602-7NN								1	1		
TB-4034	T-92	Main Wing Strut, 2"	Comp Mn-c	49B3	2602-7QQ								2	2		
TB-4031	T-93	Int rmediate Wing Strut, 2"	Comp Mn-c	49B3	2602-7NN								2	2		
TB-4032	T-94	Intermediate Bearing for wing shaft, 2"	Comp Mn-c	49B3	2602-7NN								2	2		
TB-2314	T-95	CO2 Pull Box Handles	Comp M Brz	46B8g	2602-271				6	6	6	6	6	6		

PART NO.	PATT. NO.	NOMENCLATURE	DETAIL SPECS.	U.S. NAVY SPECS.	HIGGINS DWG. NO.	BUSHIPS DWG. NO.	BOAT TYPES AND REQUIREMENTS									
							PT 71-84	RPT 1-12	PT 197-214	PT 215-228	PT 229-245	PT 246-254	PT 265-315	PT 450-485	Figure No.	Photo No.
		CASTING PATTERN NUMBERS (Continued)														
TB-4040	T-96	Shaftlog and bulkhead seal Packing Gland, 2" Shaft	Comp M Brz	46B8g	2602-7NN								4	4		
	T-97	Torpedo Direction finder base	Comp M Brz	46B8g	2602-444		1	1	1	1	1	1	1	1		
	T-97A	Torpedo Direction finder bracket	Comp M Brz	46B8g	2602-444		1	1	1	1	1	1	1	1		
	T-97B	Torpedo Direction finder flange	Comp M Brz	46B8g	2602-444		1	1	1	1	1	1	1	1		
TB-4008	T-98	Center Shaftlog, 2-1/4"	Comp M Brz	46B8g	2602-7YY					1		1				
TB-4011	T-99	Wing Shaftlog, 2-1/4"	Comp M Brz	46B8g	2602-7YY					2		2				
TB-4039	T-100	Wing Shaftlog, 2"	Comp M Brz	46B8g	2602-7NN								2	2		

GENERAL NUMERICAL INDEX

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
A-1180	19	6204	3, 3	124206	41	TBM-60	107
A-1315	19	6208	3	240113	41	TBM-61	108
A-58898	19	6305	3	364836	42	TBM-62	109
A-61231	19	12101	77	940166	42	TBM-63	109
A-61533	24	12101-1	77	22A1064	110	TBM-64	109
A-61536	19	34067	41	22M62	37	TBM-65	109
A-61748	23	34082	42	22TM02	36	TBM-66	105
A-61819	23	44028	42	29TU066	1	TBM-67	108
A-62586	24	44029	42	42D36080	34	TBM-68	108
A-62785	24	44031	41	42E048	39, 40	TBM-69	108
A-63257	19	44032	42	42E080	40	TBM-70	108
A-64087	23	54050	42	42TE048	40	TBM-71	108
AN-4-31A	40	54051	42	42TE054	39	TBM-72	107
AN-24-28A	40	54136	42	42TE064	35	TBM-73	107
AN-320-3	41	64044	42	42TE108	6	TBP-60	101
AN-380-2-2	41	64079	42	42TE126	35	TBP-61	101
AN-503-10-8	42	64089	42	59E164	5	TBP-62	106
AN-505-10-7	42	64161	42	99TM02	37	TBS-12	104
AN-936C-10	42	67590	42	99U040	1	TBS-13	105
AN-970-4	39, 40	74003	42	TBM-17	106	TBS-14	105
AN-995-41-10	42	74049	41	TBM-44	101	TBS-15	105
B-59	39	74050	41	TBM-45	101	TBS-16	105
B-108	42	88506	5	TBM-46	101	TBS-17	107
B-1412	7	104079	41	TBM-47	102	TBS-18	108
B-1612	7	104080	41	TBM-48	102	TBS-19	108
B-2220	7	112444-1	42	TBM-49	102	TBS-20	111
WC-8504	3	113977	41	TBM-50	103	TBS-21	111
X34A3-590-8	42	113984	42	TBM-51	104	TBS-22	111
352	4	113986	42	TBM-52	105	TBS-23	111
355A	4	113987	42	TBM-53	105	TBS-24	110
933-18	42	113988	42	TBM-54	105	TBS-25	110
935-10	42	113989	42	TBM-55	107	TBS-26	110
1610	4, 5, 6	113994	42	TBM-56	107	TBT-10000	100
1612	6	123842	41	TBM-57	107	TBT-1000-1	100
4614	17	123894	41	TBM-58	107	TBT-10002	100
4615	17	123914	41	TBM-59	107	TBT-10003	100

GENERAL NUMERICAL INDEX

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
TB-1001	11	TB-1046	12	TB-1122	24	TB-1163	26
TB-1002	11	TB-1047	12	TB-1123	25	TB-1164	26
TB-1003	11	TB-1048	12	TB-1124	62	TB-1165	26
TB-1004	11	TB-1049	12	TB-1125	62	TB-1166	26
TB-1005	11	TB-1050	12	TB-1129	23	TB-1167	26
TB-1006	11	TB-1051	12	TB-1130	25	TB-1168	27
TB-1007	12	TB-1052	12	TB-1131	25	TB-1169	27
TB-1008	12	TB-1053	12	TB-1132	25	TB-1170	27
TB-1009	9	TB-1054	12	TB-1133	25	TB-1171	27
TB-1010	9	TB-1055	12	TB-1134	25	TB-1172	27
TB-1011	9	TB-1056	12	TB-1135	25	TB-1173	27
TB-1012	9	TB-1057	12	TB-1136	23	TB-1174	27
TB-1013	9	TB-1058	12	TB-1137	23	TB-1175	27
TB-1014	9	TB-1059	12	TB-1138	23	TB-1176	27
TB-1015	9	TB-1060	12	TB-1141	25	TB-1176A	27
TB-1016	11	TB-1061	12	TB-1142	25	TB-1177	27
TB-1017	11	TB-1100	23	TB-1143	25	TB-1178	27
TB-1018	11	TB-1101	24	TB-1144	25	TB-1179	27
TB-1019	11	TB-1102	24	TB-1145	25	TB-1180	27
TB-1020	11	TB-1103	24	TB-1146	25	TB-1181	23
TB-1021	12	TB-1104	23	TB-1147	25	TB-1182	27
TB-1022	12	TB-1106	23	TB-1148	26	TB-1184	27
TB-1024	9	TB-1107	23	TB-1149	26	TB-1185	27
TB-1025	12	TB-1108	23	TB-1150	26	TB-1186	27
TB-1026	9	TB-1109	23	TB-1151	26	TB-1200	31
TB-1027	9	TB-1110	23	TB-1152	26	TB-1201	31
TB-1028	9	TB-1111	24	TB-1153	26	TB-1202	31
TB-1029	11	TB-1113	24	TB-1154	26	TB-1203	31
TB-1030	11	TB-1114	24	TB-1155	26	TB-1204	31
TB-1031	11	TB-1115	24,52,55	TB-1156	26	TB-1205	32
TB-1032	11	TB-1116	49	TB-1157	26	TB-1206	31,32
TB-1040	11	TB-1117	25	TB-1158	26	TB-1207	31
TB-1042	12	TB-1118	25	TB-1159	26	TB-1208	31,63
TB-1043	11	TB-1119	23	TB-1160	26	TB-1209	31
TB-1044	11	TB-1120	25	TB-1161	26	TB-1210	31,32
TB-1045	11	TB-1121	25	TB-1162	26	TB-1211	32

GENERAL NUMERICAL INDEX

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
TB-1212	31	TB-1242	33	TB-1272	33	TB-1321	34
TB-1213	31	TB-1243	33	TB-1273	33	TB-1322	34
TB-1214	31	TB-1244	33	TB-1274	33	TB-1323	34
TB-1215	100	TB-1246	32	TB-1275	33	TB-1324	34
TB-1216	32	TB-1247	34	TB-1276	33	TB-1325	34
TB-1219	24,32,61 62,63,70	TB-1248	31	TB-1277	31	TB-1326	35
		TB-1250	32	TB-1278	38	TB-1327	35
TB-1220	32	TB-1251	32	TB-1279	38	TB-1328	35
TB-1221	32	TB-1252	32	TB-1280	38	TB-1329	35
TB-1222	32	TB-1253	33	TB-1281	38	TB-1331	35
TB-1223	32	TB-1254	33	TB-1300	38	TB-1332	35
TB-1224	32	TB-1255	33	TB-1302	39	TB-1333	35
TB-1225	32	TB-1256	33	TB-1304	39	TB-1334	35
TB-1226	32	TB-1257	33	TB-1305	40	TB-1335	35
TB-1227	32	TB-1258	33	TB-1306	40	TB-1336	35
TB-1228	33	TB-1259	33	TB-1307	34	TB-1337	35
TB-1229	33	TB-1260	34	TB-1308	35	TB-1338	35
TB-1230	33	TB-1261	34	TB-1309	35	TB-1339	36
TB-1231	33	TB-1262	34	TB-1311	40,40	TB-1340	36
TB-1232	31	TB-1263	34	TB-1312	37	TB-1341	36
TB-1233	31	TB-1264	34	TB-1313	37	TB-1342	36
TB-1234	31	TB-1265	34	TB-1314	37	TB-1343	36
TB-1235	31	TB-1266	34	TB-1315	37	TB-1344	36
TB-1236	31	TB-1267	34	TB-1316	37	TB-1345	36
TB-1237	31	TB-1268	34	TB-1318	34	TB-1346	36
TB-1240	33	TB-1269	34	TB-1319	34	TB-1347	36
TB-1241	33	TB-1270	32	TB-1320	34	TB-1348	36

GENERAL NUMERICAL INDEX

PART NO.	PAGE
TB-1349	37
TB-1350	37
TB-1351	37
TB-1352	37
TB-1353	37
TB-1354	37
TB-1355	37
TB-1356	37
TB-1357	37
TB-1358	37
TB-1359	37
TB-1360	37
TB-1363	38
TB-1364	38
TB-1365	38
TB-1366	38
TB-1367	38
TB-1368	38
TB-1369	38
TB-1370	38
TB-1371	38
TB-1372	39
TB-1373	39
TB-1374	39
TB-1375	39
TB-1376	39
TB-1377	39
TB-1378	39
TB-1379	39
TB-1380	39
TB-1381	39
TB-1382	39
TB-1383	39
TB-1384	39
TB-1385	39
TB-1386	40
TB-1387	40
TB-1388	40
TB-1389	40
TB-1390	40
TB-1391	40
TB-1392	40
TB-1394	40
TB-1395	40
TB-1396	40
TB-1397	40
TB-1398	39
TB-1399	39
TB-1400	47,51 61,62 67,72
TB-1401	54,56
TB-1402	59,62
TB-1403	62
TB-1404	61,70
TB-1405	59,62 69,72
TB-1406	59,62
TB-1407	61,63
TB-1408	63
TB-1409	63
TB-1410	63
TB-1411	63
TB-1412	63
TB-1413	63
TB-1414	63
TB-1416	64
TB-1417	62
TB-1418	63
TB-1419	64
TB-1421	63
TB-1422	62
TB-1423	63
TB-1424	63
TB-1425	63
TB-1427	63
TB-1428	63
TB-1429	64
TB-1431	59
TB-1432	59
TB-1433	59
TB-1434	61
TB-1435	61
TB-1436	61
TB-1437	61
TB-1438	61
TB-1439	61
TB-1440	61
TB-1441	61
TB-1442	61
TB-1443	61
TB-1444	61
TB-1445	61
TB-1446	61
TB-1447	61
TB-1448	62
TB-1449	62
TB-1450	62
TB-1451	64
TB-1452	59
TB-1453	59
TB-1454	62
TB-1500	71
TB-1501	67
TB-1503	71
TB-1504	49,71
TB-1505	46,70 71

GENERAL NUMERICAL INDEX

PART NO.	PAGE
TB-1506	47,69 72
TB-1507	69,72
TB-1508	72
TB-1509	47,69 72
TB-1511	46,69 72
TB-1512	46,51 69,72
TB-1514	51,72
TB-1515	46,69 72
TB-1516	51,61,62, 67,72
TB-1517	73
TB-1518	73
TB-1519	62,73
TB-1520	46,69, 73
TB-1521	73
TB-1522	73
TB-1523	61,73
TB-1524	74
TB-1525	74
TB-1526	47,69, 74
TB-1527	74
TB-1528	72
TB-1529	71
TB-1530	71
TB-1531	73
TB-1532	73
TB-1533	73
TB-1534	70,73
TB-1535	73
TB-1536	73
TB-1537	73
TB-1538	73
TB-1539	74
TB-1540	74
TB-1541	74
TB-1542	74
TB-1543	74
TB-1544	74
TB-1545	74
TB-1546	74
TB-1547	74
TB-1548	74
TB-1549	67
TB-1550	67
TB-1551	67
TB-1552	67
TB-1553	69
TB-1554	69
TB-1555	69
TB-1556	70
TB-1557	70
TB-1558	70
TB-1559	70
TB-1560	70
TB-1561	70
TB-1562	70
TB-1563	70
TB-1564	70
TB-1565	70
TB-1566	70
TB-1567	70
TB-1568	70
TB-1569	70
TB-1570	70
TB-1571	71
TB-1572	71
TB-1573	71
TB-1574	71
TB-1575	71
TB-1576	71
TB-1577	71
TB-1578	71
TB-1600	52
TB-1601	52
TB-1602	52
TB-1603	52
TB-1604	52
TB-1605	52
TB-1606	52
TB-1607	52
TB-1608	52
TB-1609	52
TB-1610	52
TB-1611	52
TB-1700	65,76
TB-1701	66
TB-1702	66
TB-1703	66
TB-1704	66
TB-1705	66
TB-1706	66
TB-1707	66
TB-1708	66
TB-1709	65,76
TB-1710	66
TB-1711	66
TB-1712	66
TB-1713	66
TB-1714	66
TB-1715	67
TB-1716	67
TB-1717	67
TB-1719	65
TB-1720	65
TB-1721	66
TB-1722	66
TB-1723	66
TB-1724	66
TB-1800	97
TB-1801	97
TB-1802	97
TB-1803	97
TB-1804	97,109,109
TB-1806	97
TB-1807	98

GENERAL NUMERICAL INDEX

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
TB-1809	97	TB-1851	99	TB-1889	100	TB-1930	4
TB-1810	97	TB-1852	99	TB-1890	100	TB-1931	4
TB-1813	97	TB-1853	99	TB-1891	100	TB-1932	4
TB-1814	97	TB-1854	99	TB-1892	100	TB-1933	4
TB-1815	105	TB-1855	99	TB-1893	110	TB-1934	4
TB-1818	97	TB-1856	99	TB-1894	110	TB-1935	5
TB-1820	97, 109, 110	TB-1857	99	TB-1895	111	TB-1939	5
TB-1821	97	TB-1858	99	TB-1896	111	TB-1940	7
TB-1822	97	TB-1859	99	TB-1897	109	TB-1941	1, 6
TB-1823	97	TB-1860	99	TB-1898	110	TB-1942	6
TB-1824	97, 108	TB-1861	99	TB-1899	111	TB-1943	1, 6
TB-1825	97	TB-1862	99	TB-1900	1, 2	TB-1944	1, 6
TB-1826	97	TB-1863	99	TB-1901	2	TB-1945	6
TB-1827	97	TB-1864	99	TB-1902	2	TB-1946	8
TB-1828	97, 110	TB-1865	99	TB-1903	2	TB-1947	4
TB-1829	109, 110	TB-1866	99	TB-1904	2	TB-1948	2
TB-1830	97, 109	TB-1867	99	TB-1905	3	TB-1949	2
TB-1831	97	TB-1868	99	TB-1906	2	TB-1950	5
TB-1832	98	TB-1869	99	TB-1907	3	TB-1951	5
TB-1833	98	TB-1870	98	TB-1908	3	TB-1952	5
TB-1834	98	TB-1871	98	TB-1909	1	TB-1953	5
TB-1835	98	TB-1872	98	TB-1910	1, 7	TB-1954	5
TB-1836	98	TB-1873	98	TB-1911	7	TB-1955	5
TB-1837	98	TB-1874	98	TB-1912	7	TB-1956	5
TB-1838	98	TB-1875	98	TB-1913	7	TB-1957	5
TB-1839	98	TB-1876	98	TB-1914	7	TB-1958	6
TB-1840	98	TB-1878	98	TB-1915	7	TB-1959	2
TB-1841	98	TB-1879	97, 99	TB-1920	7	TB-1960	2
TB-1842	98	TB-1880	100	TB-1921	7	TB-1961	6
TB-1843	99	TB-1881	100	TB-1922	6, 7	TB-1962	6
TB-1844	99	TB-1882	100	TB-1923	7	TB-1963	6
TB-1845	99	TB-1883	100	TB-1924	7	TB-1964	1, 5
TB-1846	99	TB-1884	100	TB-1925	1	TB-1965	5
TB-1847	99	TB-1885	100	TB-1926	1	TB-1966	5
TB-1848	99	TB-1886	100	TB-1927	1	TB-1967	5
TB-1849	99	TB-1887	100	TB-1928	1	TB-1968	5
TB-1850	99	TB-1888	100	TB-1929	4	TB-1969	5

GENERAL NUMERICAL INDEX

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
TB-1970	5	TB-2008	46, 52	TB-2048	48	TB-2306	54, 71
TB-1971	5	TB-2009	46, 51	TB-2104	73	TB-2307	54
TB-1972	5	TB-2010	46	TB-2200	49	TB-2308	54, 55
TB-1973	4	TB-2011	46	TB-2201	49	TB-2310	54
TB-1974	5	TB-2012	47, 69	TB-2202	49, 51	TB-2311	54
TB-1975	8	TB-2013	46, 69	TB-2203	49	TB-2312	54
TB-1976	8	TB-2015	47	TB-2204	51, 54, 56	TB-2313	54, 55
TB-1977	4	TB-2016	47, 54, 56	TB-2205	51	TB-2314	54, 56
TB-1978	4	TB-2018	46	TB-2206	52	TB-2315	54, 55
TB-1979	4	TB-2019	46	TB-2207	52	TB-2316	54, 55
TB-1980	8	TB-2021	47	TB-2208	52	TB-2317	54, 55
TB-1981	8	TB-2022	47	TB-2209	49	TB-2318	54, 56
TB-1982	8	TB-2023	47	TB-2210	51	TB-2319	55, 56
TB-1983	8	TB-2024	47	TB-2211	51	TB-2320	55, 56
TB-1984	8	TB-2025	47	TB-2212	51	TB-2322	55, 56
TB-1985	8	TB-2026	47	TB-2214	52	TB-2323	55, 56
TB-1986	8	TB-2027	47, 69	TB-2215	51	TB-2324	55, 56
TB-1987	9	TB-2028	47, 69	TB-2216	51	TB-2325	55
TB-1988	9	TB-2029	48	TB-2217	51	TB-2326	55
TB-1989	9	TB-2030	48	TB-2218	52	TB-2327	55
TB-1990	7	TB-2031	48	TB-2219	49	TB-2328	56
TB-1991	7	TB-2032	48	TB-2220	47	TB-2329	56
TB-1992	7	TB-2033	49	TB-2221	49	TB-2330	56
TB-1994	7	TB-2034	49	TB-2222	51	TB-2331	56
TB-1995	7	TB-2035	48	TB-2223	51	TB-2332	56
TB-1996	8	TB-2036	48	TB-2224	51	TB-2333	56
TB-1997	8	TB-2037	48	TB-2225	52	TB-2334	56
TB-1998	8	TB-2038	47	TB-2226	52	TB-2335	54
TB-1999	2	TB-2039	48	TB-2227	52	TB-2336	55
TB-2000	46	TB-2040	48	TB-2228	52	TB-2400	54, 55, 67, 71
TB-2001	46	TB-2041	47	TB-2229	52		
TB-2002	46, 69	TB-2042	48	TB-2300	54, 56	TB-2600	61, 62, 67, 72, 74
TB-2004	46, 70, 71	TB-2043	48	TB-2301	54, 56		
TB-2005	46, 72	TB-2044	48	TB-2302	54, 56	TB-2604	55
TB-2006	46, 72	TB-2045	48	TB-2303	54, 56	TB-2606	73
TB-2007	46, 47, 51, 69, 69, 72, 74	TB-2046	48	TB-2304	54, 56, 69	TB-2608	54, 56
		TB-2047	48	TB-2305	54	TB-2610	72

GENERAL NUMERICAL INDEX

PART NO.	PAGE
TB-2611	67, 71, 71
TB-2613	54, 56
TB-2614	63
TB-2615	61, 62
TB-2701	73
TB-2702	72
TB-2900	32
TB-2901	32, 59, 63 70
TB-2902	59, 63, 72 73
TB-2903	52, 55
TB-2904	51, 54, 56 59, 108
TB-2905	46, 49
TB-2907	23, 46, 51 69, 72
TB-2908	47, 51, 61 69, 73
TB-2909	24
TB-2910	23
TB-2911	23
TB-2912	24
TB-2913	23
TB-2914	24, 49, 69 71
TB-2915	24
TB-2916	24
TB-2917	1
TB-2918	61
TB-3000	63, 73
TB-3001	24, 49
TB-3002	51, 67
TB-3003	25, 73
TB-3005	46, 47, 47 49, 59, 62
TB-3007	24
TB-3008	23, 46, 51 67, 71, 72
TB-3009	24
TB-3010	47, 69, 72
TB-3011	24
TB-3012	72
TB-3013	23
TB-3014	24
TB-3016	18
TB-3017	18
TB-3018	23
TB-3019	24
TB-3020	12
TB-3021	63
TB-3100	23, 25, 32 46, 46, 47 51, 61, 63 71
TB-3101	11
TB-3102	100
TB-3104	18
TB-3105	18
TB-3200	70, 74
TB-3201	107
TB-3202	57, 70, 102 103, 104, 104 106, 110, 111 111
TB-3203	1, 57, 57 58, 103, 107
TB-3204	57, 74, 102 102, 103
TB-3205	57, 102, 106 110
TB-3207	106, 106, 111
TB-3208	57, 106, 106
TB-3211	57, 101
TB-3212	57, 58, 103 103, 111
TB-3213	57
TB-3214	57
TB-3215	57
TB-3216	57, 105
TB-3217	57, 102
TB-3218	57
TB-3220	58, 104
TB-3221	59, 101, 106 106, 111
TB-3221A	58, 107
TB-3222	110, 111
TB-3223	102, 106
TB-3224	102
TB-3225	103, 106
TB-3226	106
TB-3227	111
TB-3228	102
TB-3229	102
TB-3230	102
TB-3231	105
TB-3232	102
TB-3234	101
TB-3235	101
TB-3236	101
TB-3237	101
TB-3238	101
TB-3239	101
TB-3240	101
TB-3241	101
TB-3242	106
TB-3243	105
TB-3244	105
TB-3245	106
TB-3246	109
TB-3301	40
TB-3309	1
TB-3313	38
TB-3314	37
TB-3319	36
TB-3321	5, 39
TB-3322	2, 7
TB-3326	6
TB-3327	7
TB-3328	3
TB-3329	2
TB-3333	6
TB-3334	3
TB-3335	3
TB-3336	3
TB-3337	1
TB-3338	1
TB-3339	1
TB-3340	2
TB-3341	110
TB-3342	111
TB-3406	6
TB-3408	4
TB-3502	39
TB-3504	1
TB-3508	57
TB-3605	58
TB-3606	58
TB-3607	58
TB-3608	58
TB-3609	58
TB-3610	58
TB-3611	59
TB-3701	74, 107
TB-3703	103, 104

GENERAL NUMERICAL INDEX

PART NO.	PAGE
TB-3706	57, 58, 102 103, 108, 109
TB-3707	57
TB-3709	58
TB-3710	58, 104
TB-3711	58
TB-3712	58
TB-3713	58, 107, 108 109, 109, 110
TB-3714	59, 106
TB-3715	59
TB-3716	106
TB-3717	108, 108, 109 109, 110
TB-3719	107, 108, 111
TB-3720	110
TB-3721	106
TB-3722	109, 110
TB-3724	110
TB-3725	101
TB-3726	101
TB-3728	104, 104
TB-3729	103
TB-3730	101, 109
TB-3731	110
TB-3732	58, 104, 109, 110
TB-3801	5
TB-3802	7
TB-3803	1
TB-3901	5
TB-4000	15
TB-4001	15
TB-4002	15
TB-4003	17
TB-4004	15
TB-4005	15
TB-4006	18
TB-4007	16
TB-4008	16
TB-4009	17
TB-4010	16
TB-4011	16
TB-4012	17
TB-4013	17
TB-4015	18
TB-4015A	18
TB-4016	18
TB-4016A	18
TB-4017	18
TB-4017A	18
TB-4020	18
TB-4020A	19
TB-4021	18
TB-4021A	18
TB-4024	19
TB-4024A	19
TB-4025	18, 19, 58
TB-4028	17
TB-4029	17
TB-4030	18
TB-4031	15
TB-4032	15
TB-4033	18
TB-4034	15
TB-4035	16
TB-4036	18
TB-4037	16
TB-4038	17
TB-4039	16
TB-4040	17
TB-4050	17
TB-4051	17
TB-4052	100
TB-4053	100
TB-4057	16
TB-4058	19
TB-4058A	19
TB-4059	17
TB-4061	17
TB-4062	17
TB-4063	17
TB-4104	16
TB-4105	17
TB-4107	16
TB-4108	16
TB-4200	75
TB-4201	75
TB-4202	76
TB-4203	75
TB-4204	75
TB-4205	75
TB-4206	75
TB-4207	75
TB-4208	75
TB-4209	75
TB-4210	75
TB-4211	75
TB-4212	75
TB-4213	75
TB-4214	75
TB-4215	75
TB-4216	75
TB-4217	75, 76, 94
TB-4218	75
TB-4219	76
TB-4220	76
TB-4221	76, 93
TB-4222	76
TB-4223	76
TB-4224	76
TB-4225	76
TB-4226	76
TB-4227	76
TB-4228	76
TB-4229	96
TB-4232	96
TB-4234	96
TB-4235	96
TB-4236	96
TB-4237	96
TB-4238	96
TB-4239	96
TB-4240	96
TB-4241	96
TB-4242	76, 98
TB-4243	76
TB-4244	77, 91
TB-4245	77, 91
TB-4246	77
TB-4247	77
TB-4248	77, 91, 91
TB-4249	77, 89, 94
TB-4250	77, 89
TB-4251	77
TB-4252	77, 89
TB-4253	77
TB-4254	77, 85, 86 86, 87, 87 88, 89
TB-4255	85, 85, 86 86, 87, 87 88, 89
TB-4256	85
TB-4257	85, 90, 93 94

GENERAL NUMERICAL INDEX

PART NO.	PAGE
TB-4259	85
TB-4260	85
TB-4261	85,90,93 94
TB-4262	85,90,93 94,94
TB-4263	85,90,93 94,95
TB-4264	85,90,95
TB-4265	85,85,86 86,87,88
TB-4266	85,85,86 86,87,88
TB-4267	85,85,86 86,87
TB-4269	85,86,86 87,87,88 88,89,94
TB-4270	85,86,87 88
TB-4271	85,86,86 87,87,88
TB-4272	85,86,87
TB-4273	86,88
TB-4274	87
TB-4275	87,87,88
TB-4277	88
TB-4278	88
TB-4279	88
TB-4280	88
TB-4281	88
TB-4282	88
TB-4283	88
TB-4284	88
TB-4285	89
TB-4286	89
TB-4287	89
TB-4288	89
TB-4289	89
TB-4290	89
TB-4291	89
TB-4292	89
TB-4293	89
TB-4294	89
TB-4295	89
TB-4296	89
TB-4297	89
TB-4298	89,95
TB-4299	90
TB-4300	90
TB-4304	90
TB-4305	90
TB-4306	90
TB-4307	90
TB-4308	90
TB-4309	90
TB-4310	90
TB-4314	90
TB-4315	90
TB-4316	90
TB-4317	90
TB-4318	90
TB-4319	90
TB-4320	90
TB-4321	90
TB-4322	90
TB-4323	91
TB-4324	91
TB-4325	91
TB-4326	91
TB-4327	91
TB-4328	91
TB-4329	91
TB-4330	91
TB-4331	91
TB-4332	91
TB-4333	91,93
TB-4334	93,93
TB-4336	91,94,94
TB-4337	91,94,94
TB-4338	91
TB-4339	91
TB-4340	91
TB-4341	91
TB-4342	91
TB-4343	91
TB-4344	92
TB-4345	92
TB-4346	92
TB-4347	92
TB-4348	92
TB-4349	92,92
TB-4350	92
TB-4351	92,92
TB-4352	92
TB-4353	92
TB-4354	92,92
TB-4355	92
TB-4357	92
TB-4358	92
TB-4360	92,94
TB-4363	92
TB-4364	92,93
TB-4365	92,93,94 94
TB-4366	93,93,94 94
TB-4367	91
TB-4368	93,94
TB-4370	93
TB-4371	93
TB-4375	93,94,95
TB-4376	93
TB-4377	94
TB-4378	94
TB-4379	85,86,86 87,87,88 88,89,94
TB-4382	95
TB-4283	95
TB-4384	95
TB-4386	95
TB-4387	95
TB-4388	95
TB-4389	95
TB-4390	95
TB-4391	96
TB-4392	96
TB-4393	96
TB-4394	96
TB-4395	96
TB-4398	95
TB-4399	93,93
TB-4450	97
TB-4600	40
TB-4601	40
TB-4602	41
TB-4603	41
TB-4604	41
TB-4605	41
TB-4606	41
TB-4607	37
TB-4608	41
TB-4609	36

GENERAL NUMERICAL INDEX

PART NO.	PAGE
TB-4610	36
TB-4611	36
TB-4612	36
TB-4613	36
TB-4614	41
TB-4615	41
TB-4616	32
TB-4617	41
TB-4618	41
TB-4619	41
TB-4620	41
TB-4621	41
TB-4622	41
TB-4800	2
TB-4801	2
TB-4802	2
TB-4803	2
TB-4804	2
TB-4805	3
TB-4806	3
TB-4807	3
TB-4808	3
TB-4810	3
TB-4811	3
TB-4812	3
TB-4813	3
TB-4814	3
TB-4815	3
TB-4816	3
TB-4817	3
TB-4818	3
TB-4819	3
TB-4820	4
TB-4821	4
TB-4822	4
TB-4823	4
TB-4824	4
TB-4825	9
TB-4826	9
TB-4827	9
TB-4828	9
TB-4829	2
TB-4830	3
TB-4831	6
TB-4832	1
TB-4833	6
TB-4834	6
TB-4835	6
TB-4836	6
TB-4837	7
TB-4838	7
TB-4839	7
TB-5005	95
TB-5006	95
TB-5007	95
TB-5012	76
TB-5013	76
TB-5014	77
TB-5015	77
TB-5016	77
TB-5017	77
TB-5018	77
TB-5019	77
TB-5020	77
TB-5021	77
TB-5500	101
TB-5501	101
TB-5502	101
TB-5503	101
TB-5504	102
TB-5505	102
TB-5506	103
TB-5507	103
TB-5508	103
TB-5509	103
TB-5510	103
TB-5511	103
TB-5512	104
TB-5513	104
TB-5514	104
TB-5515	104
TB-5516	104
TB-5517	104
TB-5518	104
TB-5519	104
TB-5520	105
TB-5521	105
TB-5523	106
TB-5524	106
TB-5525	108
TB-5526	111
TB-5527	109
TB-5528	108
TB-5529	64
TB-5530	64
TB-5531	64
TB-5532	64
TB-5533	64
TB-5534	64
TB-5535	64
TB-5536	64
TB-5537	64
TB-5538	64
TB-5539	64
TB-5540	64
TB-5541	65
TB-5542	65
TB-5543	65
TB-5544	65
TB-5545	65
TB-5546	65
TB-5547	65
TB-5548	65
TB-5549	65
TB-5550	65
TB-5551	65
TB-5552	65
TB-5553	65
TB-5554	65
TB-5555	65
TB-5556	65
TB-5557	65
TB-5558	65
TB-5559	65
TB-5560	108
TB-5561	108
TB-5564	62
TB-5565	95
TB-5566	95
TB-5567	95
TB-5568	95
TB-5569	24
TB-5582	37
TB-5583	98
TB-5584	100
TB-5585	106
TB-5586	106
TB-5587	106
TB-5588	107
TB-5589	107
TB-5590	107
TB-5591	107
TB-5592	108
TB-5593	108
TB-5594	109,110
TB-5595	109
TB-5596	110
TB-5597	110

GENERAL NUMERICAL INDEX

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
TB-5598	58						
TB-5599	97						
TB-5600	49						

CHAMPION OUTBOARD MOTOR FOR COMPRESSOR DRIVE
GENERAL NUMERICAL INDEX

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
A-248XB	117	Y3491	118	1A2	112	1F11	115
D1C205	114	051	116	1A28	115	1F112	115
D1E168	114	054	116	1A31	112, 114	1F114	112
D1E175	112, 113	0164	115	1A37	113	1F121	112
D2C134	115	0212	116	1A38	113	1F130	112
D2F121	112	0648	115	1A41	113	1F140	112
IFA-881	117	0676	116	1A43	114	1G3	112
IKA-362	117	0702	116	1A49	114	1G4	112
IXA-862	117	0703	116	1A66	115	1G15	114
M1G9	112	0705	116	1A72	114	1G16	114
M4G188	113	0992	115, 116	1A73	113, 114	1G30	114
M-33X	116	01108	115	1A105	115	1G35	113
M-34X	116	01675	116	1A106	115	1G39	114
M-52X	116	02395	116	1A113	115	1G45	114
M-55XA	117	02531	115	1A117	114	1G51	114
M-58X	117	04636	115	1A123	112	1G80	114
M-60X	117	04849	116	1A142	113	1G116	114
M-71XA	117	05425	115	1AA133	112	1G125	114
M-73X	117	05591	115	1B1	112	1G129	113
M-90X	117	05725	115	1C235	112	1G131	114
S1C29	115	06332	116	1C236	112	1G135	113
S1G8	115	06459	115	1D112	112	1G138	115
S1G20	114	06569	116	1E14	114	1G142	113
S1G104	115	06576	116	1E17	114	1G150	114
S1G160	112	06632	116	1E25	115	1G166	114
S1G211	115	06634	116	1E27	115	1GG124	116
S1G301	112	06882	116	1E40	114	1GG167	114
S4G36	113	06903	116	1E41	114	1GG220	118
S4GG13	114	06905	116	1E42	112	1GG270	114
S4GG32	112	06910	116	1E120	114	1085	117
X2151	117	06918	116	1E149	113	1100	117
X2156	117	06921	116	1E171	112, 112	2144	117
X2186	117	06923	116	1E174	112, 112	2145	117
X2215	117	06924	116	1EE23	115	2157	117
X4062	118	06929	115	1EE26	115	2179	117
X4158	118	06941	116	1EE34	112	2194	117

CHAMPION OUTBOARD MOTOR FOR COMPRESSOR DRIVE
GENERAL NUMERICAL INDEX

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
2196	117						
2264B	117						
2300	117						
2357	117						
3081	117						
3454	117						
3455	117						
4063	118						
4G139	112						
4G319	113						
4G321	113						
4G324	113						
4G325	113						
4G326	113						
4G329	113						
4G332	113						
4G333	113						
4G334	113						
4G351	112						
4G356	112						
4GG214	113						
4GG331	113						
4GG373L	113						
4GG373R	113						

WESTINGHOUSE AIR COMPRESSOR
GENERAL NUMERICAL INDEX

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
W-2000	121	183736	119	185824	121		
W-2001	121	183737	119	185826	120		
W-2002	122	183738	119	185827	121		
1H	121	184546	119	185828	121		
3380	121	184547	119	185831	121		
4907	120	184548	119, 120	185833	121		
5735	119, 119	184549	119, 120	185834	121		
	122	184550	119	185835	121		
6305	118	184551	120	185836	121		
6306	119	184552	120	185837	121		
11760	121	184555	120	185838	121		
15691	121	184588	119	185839	121		
15784	122	185589	119	185840	121		
21115	120	185591	119	185841	121		
66119	122	185592	120	185842	121		
73002	120	185593	120	185877	120		
74457	118	185594	120	185878	120		
77787	119, 122	185596	119	185885	121		
79069	119	185597	119	506602	118, 120		
85149	118	185599	120	506603	118, 121		
85476	118	185624	119		121		
86915	122	185626	120	506604	121		
87205	122	185741	118	506607	121		
97588	118	185807	118	511017	118		
99720	120	185809	118	516298	121		
120941	120	185810	118	521228	120		
148809	122	185812	119	522502	121		
181782	119, 120	185813	119	522686	120		
181790	120	185814	119				
183352	120	185815	119				
183353	120	185816	121				
183652	119	185817	120				
183733	119	185820	121				
183734	119	185821	120				
183735	119	185823	120				

(P)