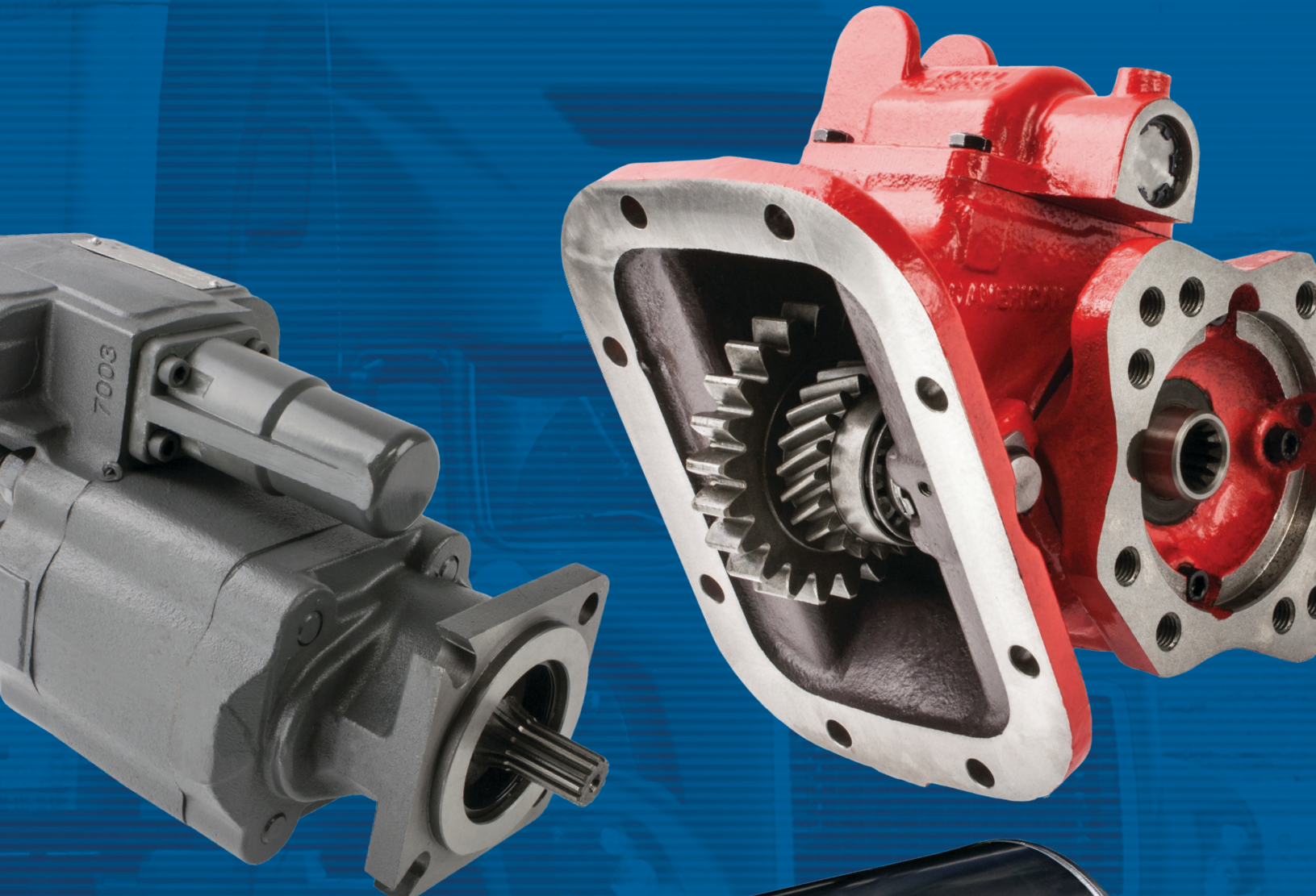


HEAVY DUTY PTO & HYDRAULIC CATALOG



World American®
Where Quality Meets Value





HEAVY DUTY PTO & HYDRAULIC CATALOG

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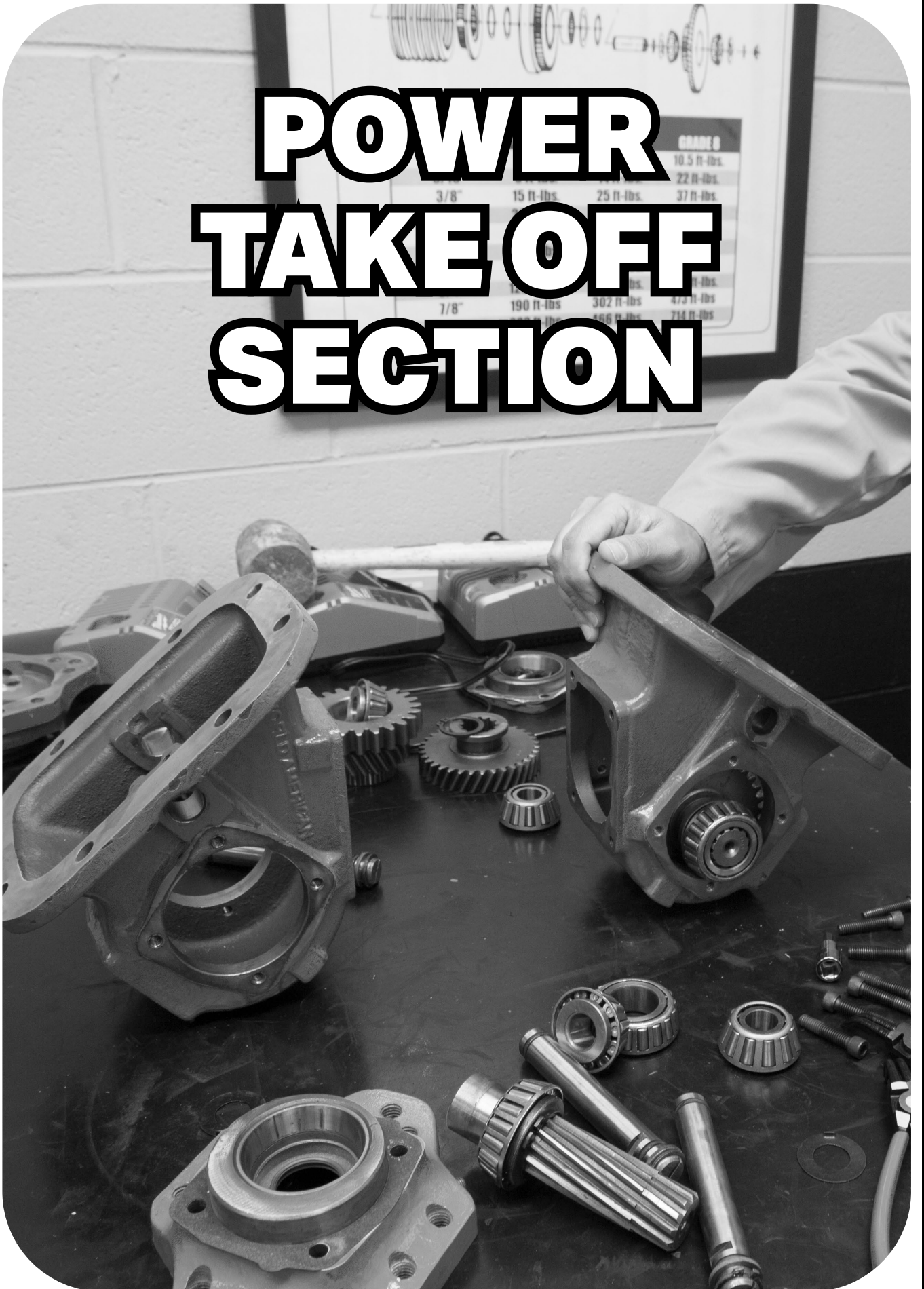
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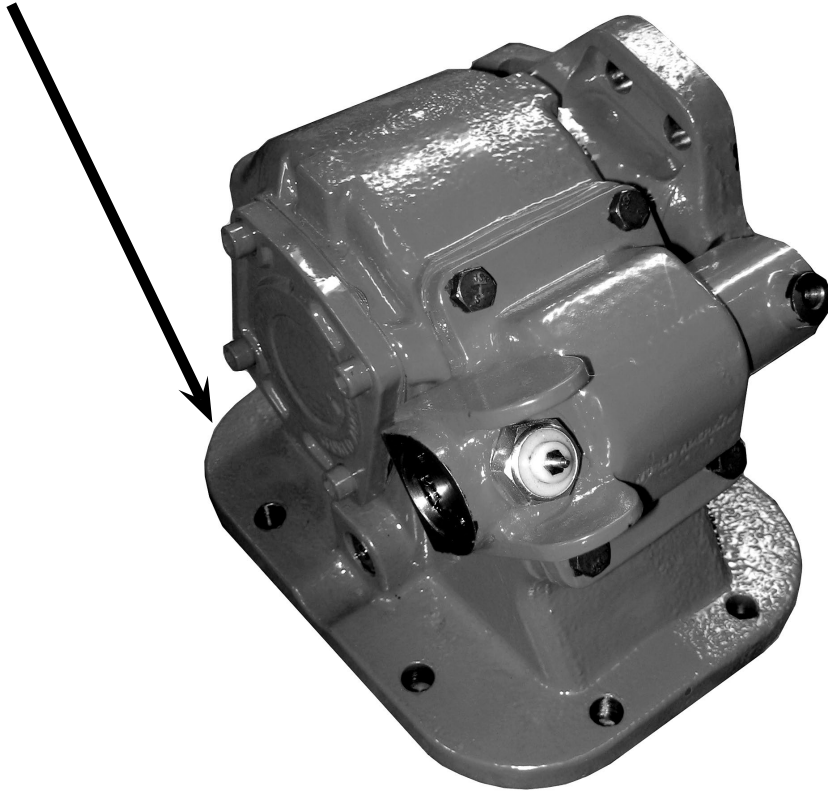
POWER TAKE OFF SECTION



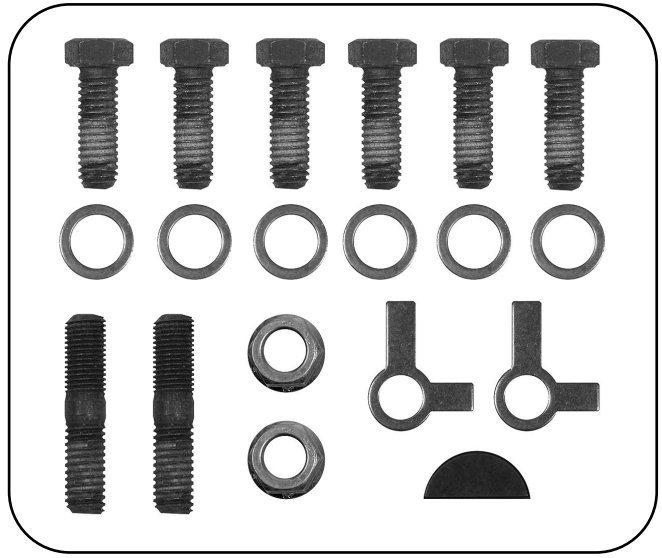
POWER TAKE OFF SECTION

ALL PARTS ARE INTERCHANGEABLE WITH CHELSEA'S®

OUR PTO HOUSING IS MADE OF CAST IRON WITH AN INCREASED MOUNTING FLANGE RADIUS FOR HEAVY DUTY APPLICATIONS.



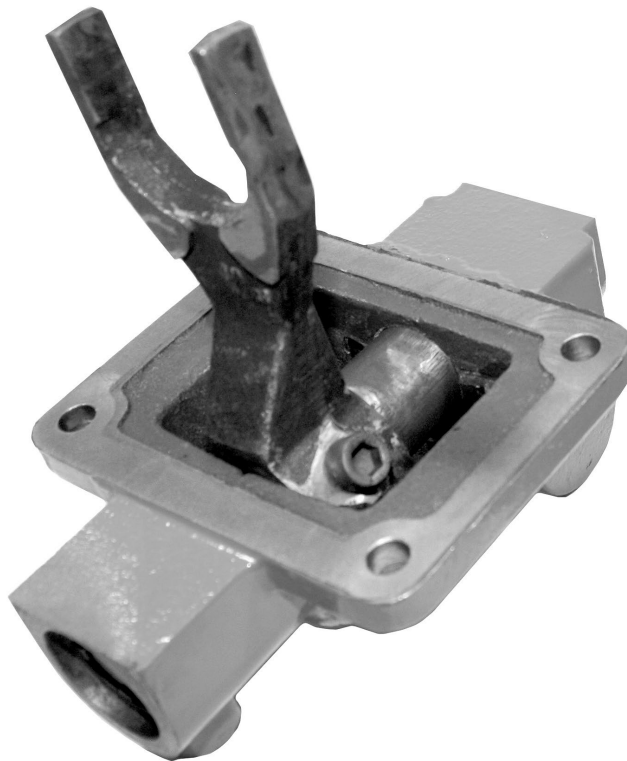
WORLD AMERICAN® USES A CAST IRON ROTATABLE FLANGE WITH TAPPED HOLES MAKING PUMP INSTALLATION EASIER. THE PLUG AND GASKET ARE INCLUDED TO INCREASE THE LIFE OF THE SPLINES.



WORLD AMERICAN® PTO MOUNTING KIT INCLUDE 2 STUDS TO MAKE INSTALLATION OF THE PTO EASIER.



WORLD AMERICAN'S® IMPROVED HOUSING TO FLANGE CASTING PRODUCES A STRONGER HOUSING. DEEPER GUSSETS WERE ADDED TO ALLOW FOR EASIER INSTALLATION.



WORLD AMERICAN® USES A CAST IRON SHIFT COVER HOUSING AND STEEL SHIFTING FORK NEARLY ELIMINATING LEAKS AND ENGAGEMENT ISSUES THAT PLAGUE OTHER BRANDS IN THE MARKET.

SUGGESTED PTO PERCENTAGES

TYPE OF APPLICATION	PTO%	ENGINE RPM
AERIAL LADDER & PLATFORM	80-130	800-1500
AERIAL BUCKET MAN LIFTS	80-130	800-1200
AERIAL CRANES DIGGER DERRICKS	80-130	800-1200
AUTO CARRIERS	125-210	IDLE
AUTO TOW TRUCKS	90-120	IDLE - 1200
AUTO TOW TRUCKS HEAVY DUTY	90-130	1000 - 1500
AIR COMPRESSORS		
85 FT PER MIN CAPACITY	100	1200 - 2000
125 FT PER MIN CAPACITY	100	1200 - 2000
180 FT PER MIN CAPACITY	100	1200 - 2000
BLOWER PNEUMATIC	150 - 250	1500 - 3500
DUMP BODIES		
SMALL SINGLE AXLE	50 - 100	1000 - 2000
MEDIUM SINGLE - TANDEM	80 - 100	1000 - 2000
LARGE TRI-AXLE	80 - 130	1000 - 2000
DUMP TRAILERS	80 - 130	1000 - 2000
DUMP TRAILERS W/MOVING FLOOR	80 - 130	1000 - 1800
HYDRAULIC PUMPS		
1 - 15 GPM	80 - 130	IDLE - 3000
16 - 35 GPM	80 - 130	IDLE - 3000
36 + GPM	80 - 130	IDLE - 3000
LIVE FLOOR/WALKING FLOOR	80 - 125	1000 - 1800
LOWBOY TRAILERS/LANDOLL TRAILER	80 - 130	1000 - 1400
ROLL BACK	80 - 130	800 - 1200
PRODUCT PUMPS	70 - 100	IDLE - 2000
REFUSE	80 - 130	1000 - 1800
SNOW PLOWS	60 - 90	1000 - 3000
SPREADERS - MECHANICAL	45 - 60	1200 - 2500
SPREADERS - HYDRAULIC	75 - 90	1200 - 2500
TAILGATES	60 - 75	IDLE
WINCHES	80 - 110	IDLE - 1800

ALWAYS CHECK WITH THE MANUFACTURER FOR CORRECT SPECIFICATIONS.

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PTO QUESTIONS:

Transmission Make and Model: _____

PTO Mounting Location: LH/BOTTOM _____ RH _____ REAR C/S _____

Percentage of Engine Speed Desired: _____% OR, (Desired Engine Operating RPM _____) (SEE PG. 6 FOR SUGGESTION)

Shifter Type: Cable Shift _____ Air Shift _____

Cab Control Required: Yes _____ No _____

CAB CONTROLLER:

Type Required: Single (PTO Only) _____ Dual W/Kick Out (PTO/Pump) _____ Dual W/O Kick Out (PTO/Pump) _____

Control Tower Height Required: 8" _____ 10" _____ 12" _____

PUMP QUESTIONS:

Duty Application: Dump _____ Walking Floor _____ Other _____ Multiple Applications _____

How is the Pump Mounted: Direct _____ Remote _____

Shift Type: Air _____ Manual _____ (If dump pump application, stop here.)

Flow Requirements: _____ GPM

Pressure Required: _____ PSI

Location of Ports: Side _____ Rear _____ Both _____

Port Sizes Required: Left Side _____ Right Side _____ Rear Left _____ Rear Right _____

TANK QUESTIONS:

Tank Size: 35 Gallons _____ 50 Gallons _____ 70 Gallons _____

Mounting: Saddle (Side) _____ Upright _____

Construction: Steel _____ Aluminum _____ Plastic _____ (50 GAL. UPRIGHT ONLY)

Do You Require a Shut Off Valve for the Tank? Yes _____ No _____

HOSE KIT:

Do You Require: Yes _____ No _____

*Number of Lines in System: 2 _____ 3 _____

What Length Pressure Hose: _____' What Length Suction: _____'

If 3 Line System, Do You Require the Filter? Yes _____ No _____

If Yes, What Filter Do You Want? 10 Micron _____ 25 Micron _____



***WE RECOMMEND A 3-LINE SYSTEM FOR LONGER LASTING SYSTEMS.**

REPLACEMENT PTO REQUIREMENTS

Number from Existing Unit: _____

Transmission Make and Model: _____

PTO Mounting Location: LH/Bottom _____ RH _____

Percentage of Engine Speed Desired: _____%

Type of Output Shaft: 1-1/4" Round _____, 7/8" 13 Spl _____, 1" 15 Spl _____

Shifter Type: Cable Shift _____ Air Shift _____

REPLACEMENT PUMP REQUIREMENTS

Model Number from Existing Unit: _____

Duty Application: Dump _____ Walking Floor _____ Multi-trailer _____

Other _____

*Pump Shifter Type: Manual Shift _____ Air Shift _____

*Flow Required: _____ GPM

*Pressure Required: _____ PSI

*How Is The Pump Mounted: Direct _____ Remote _____

* Rotation: Left (CCW) _____ Right (CW) _____

Number Of Bolt Holes On The Flange: Two _____ Four _____

Bolt Hole Center To Center (fig. 1): A _____ Inches B _____ Inches

Type Of Input: Round _____ Splined _____ If Splined How Many _____

Shaft Diameter: _____ Inches

Pilot Size (fig. 1) _____ Inches

Rear Housing Cover (fig @): _____ Inches

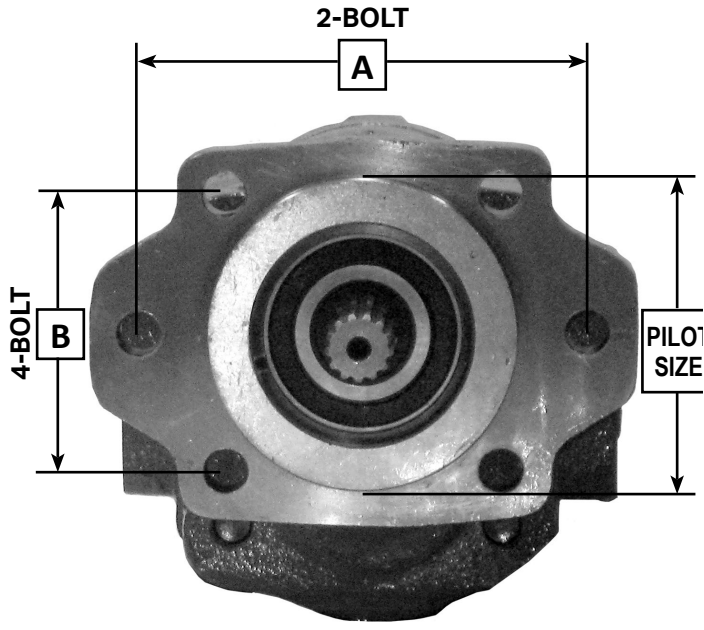
Main Body (fig 3): _____ Inches

Location of Ports: Side _____ Rear _____ Both _____

Port Sizes: Left Side _____ Right Side _____ Left Rear _____ Right Rear _____

*Stop Here If Dump Application Refer To Dump Pumps On Page 29.

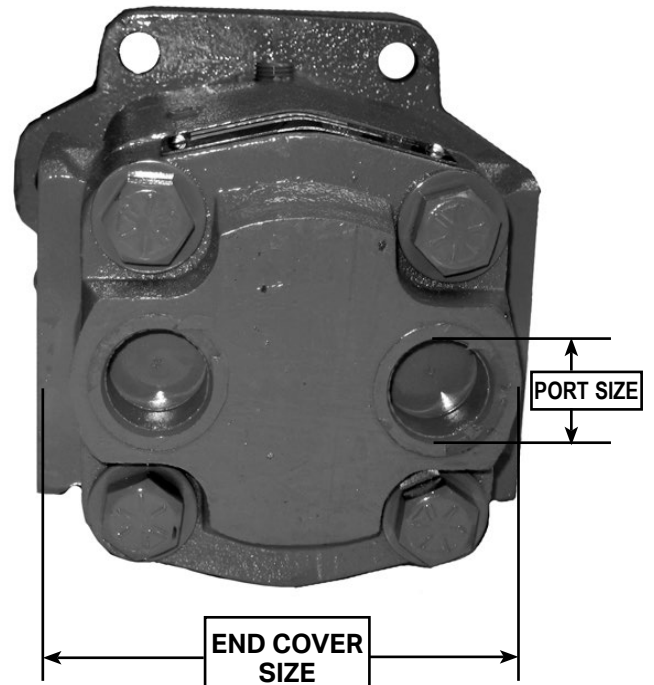
REPLACEMENT PUMP MEASUREMENTS



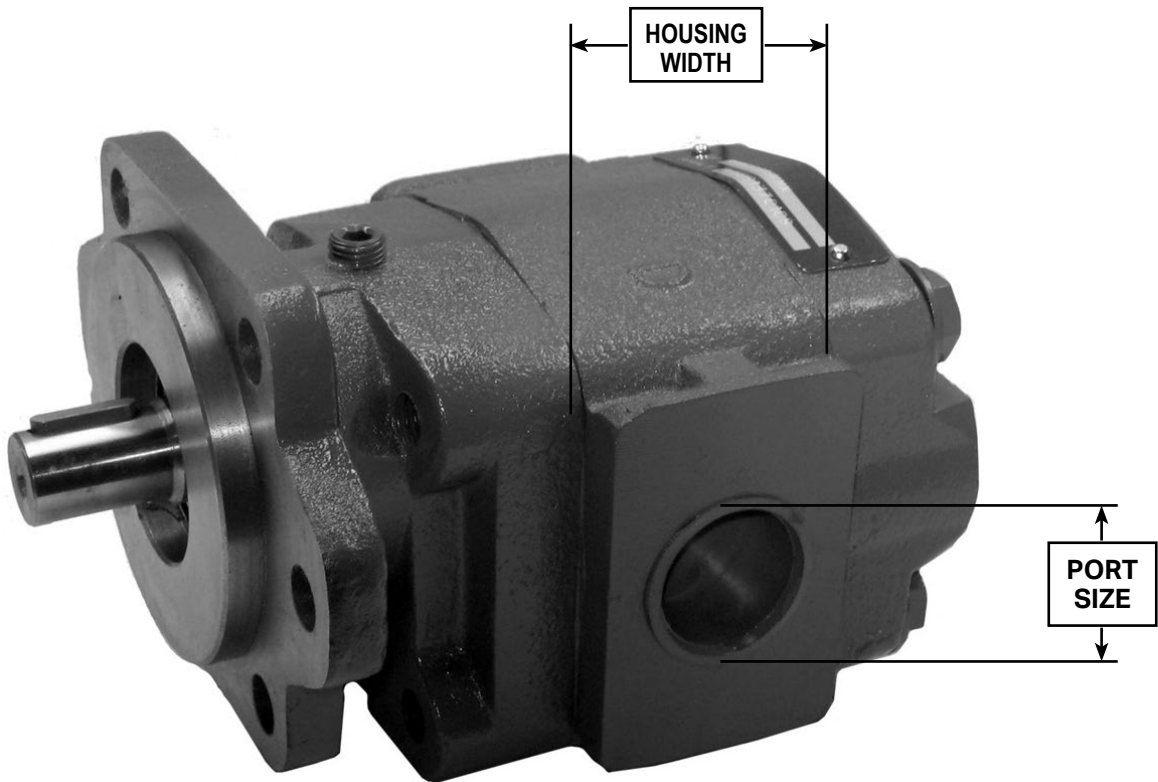
FRONT (fig. 1)
MAIN BODY DOWN,
FACING SHAFT

LEFT

RIGHT

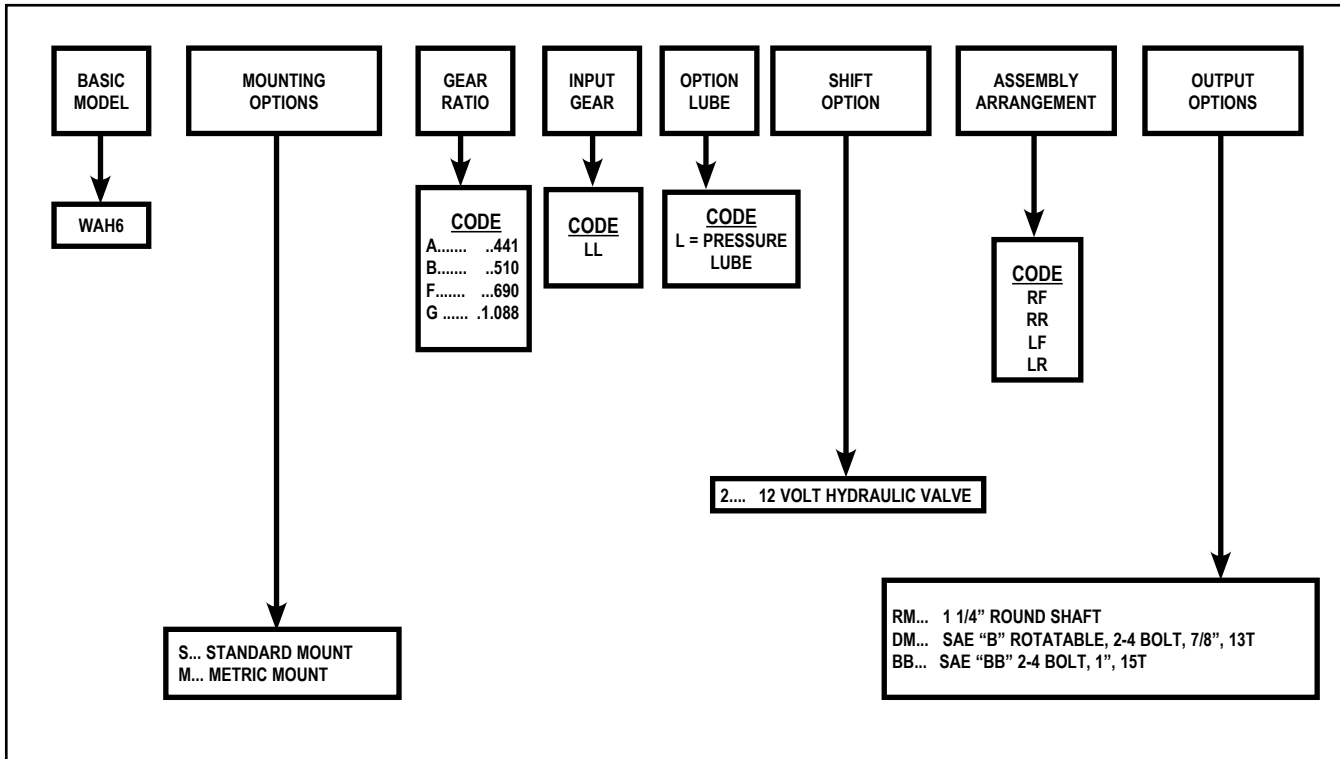


BACK (fig. 2)



SIDE (fig. 3)

SIX BOLT CLUTCH SHIFT PTO: WAH6-MODEL



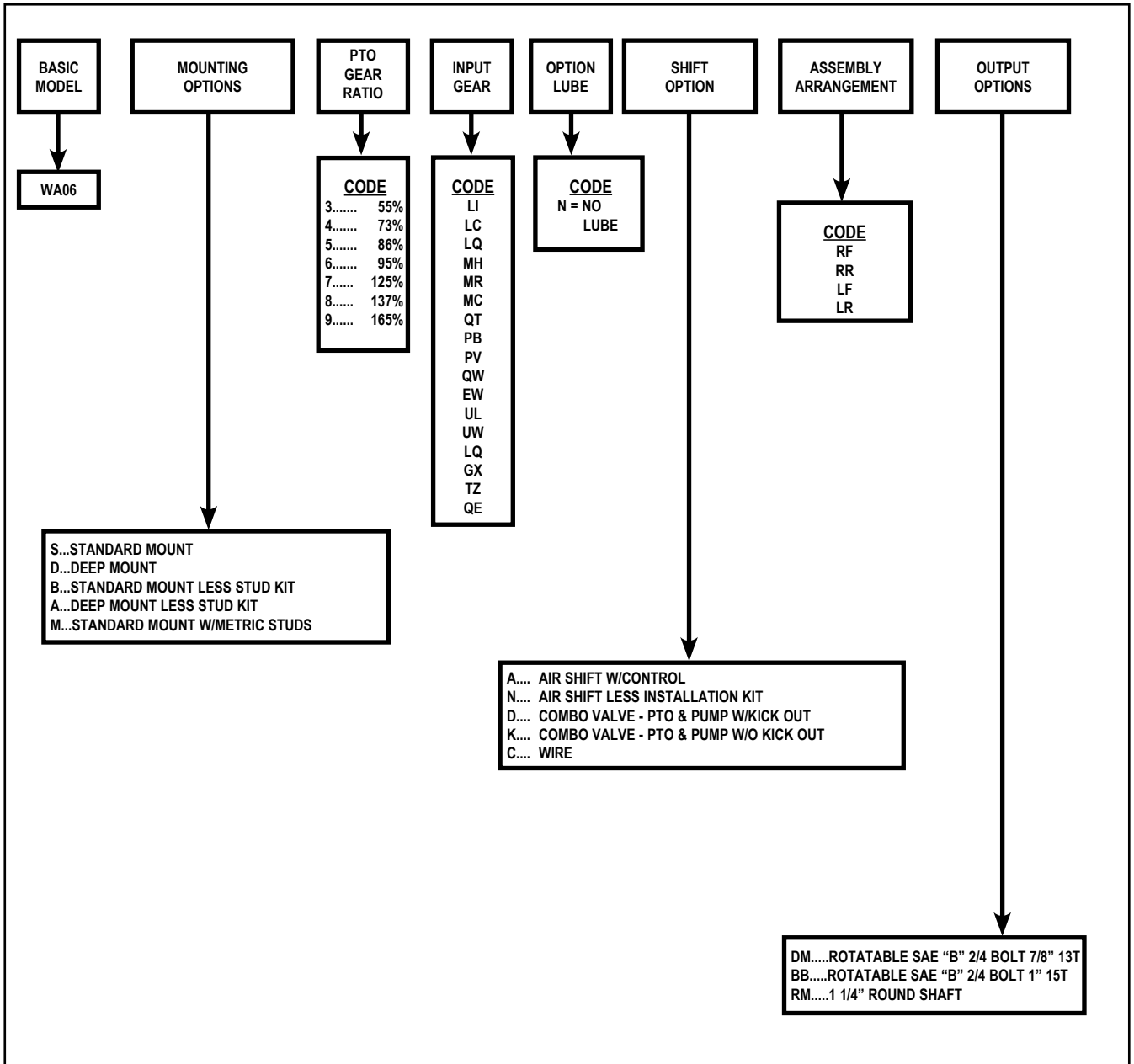
SIX BOLT CLUTCH SHIFT PTO: WAH6-MODEL

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TYPICAL SIX BOLT PTO: WA06-MODEL

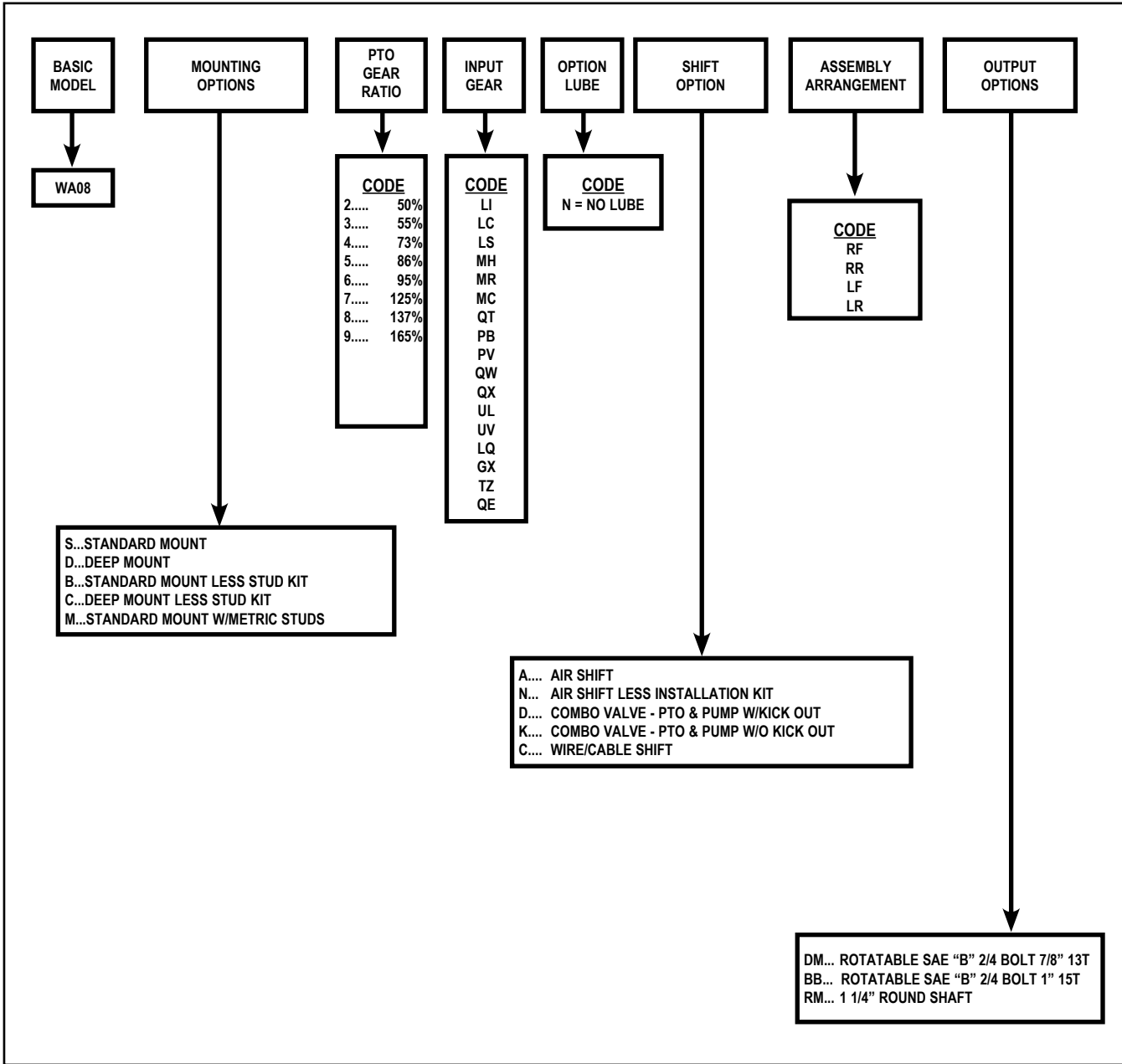


TYPICAL SIX BOLT PTO: WA06-MODEL



TYPICAL EIGHT BOLT PTO: WA08-MODEL

TYPICAL EIGHT BOLT PTO: WA08-MODEL

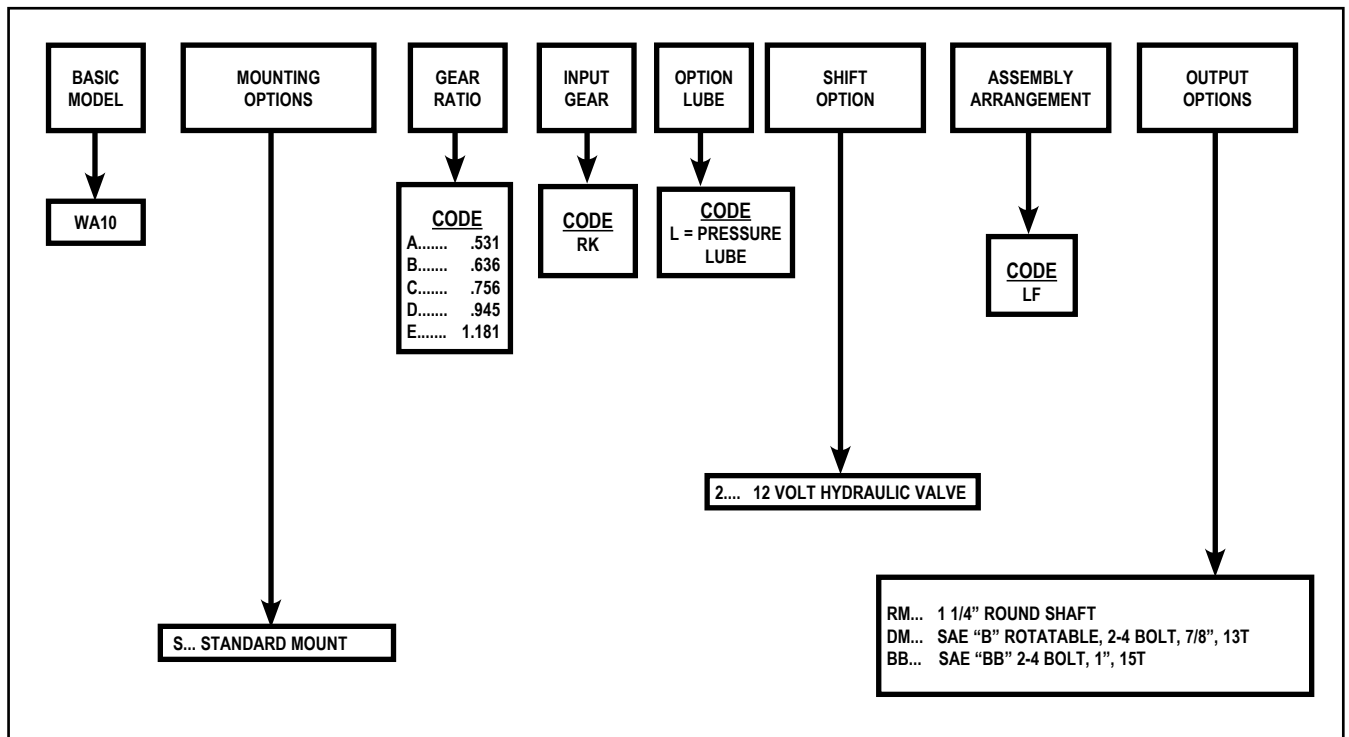


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TEN BOLT CLUTCH SHIFT PTO: WA10-MODEL

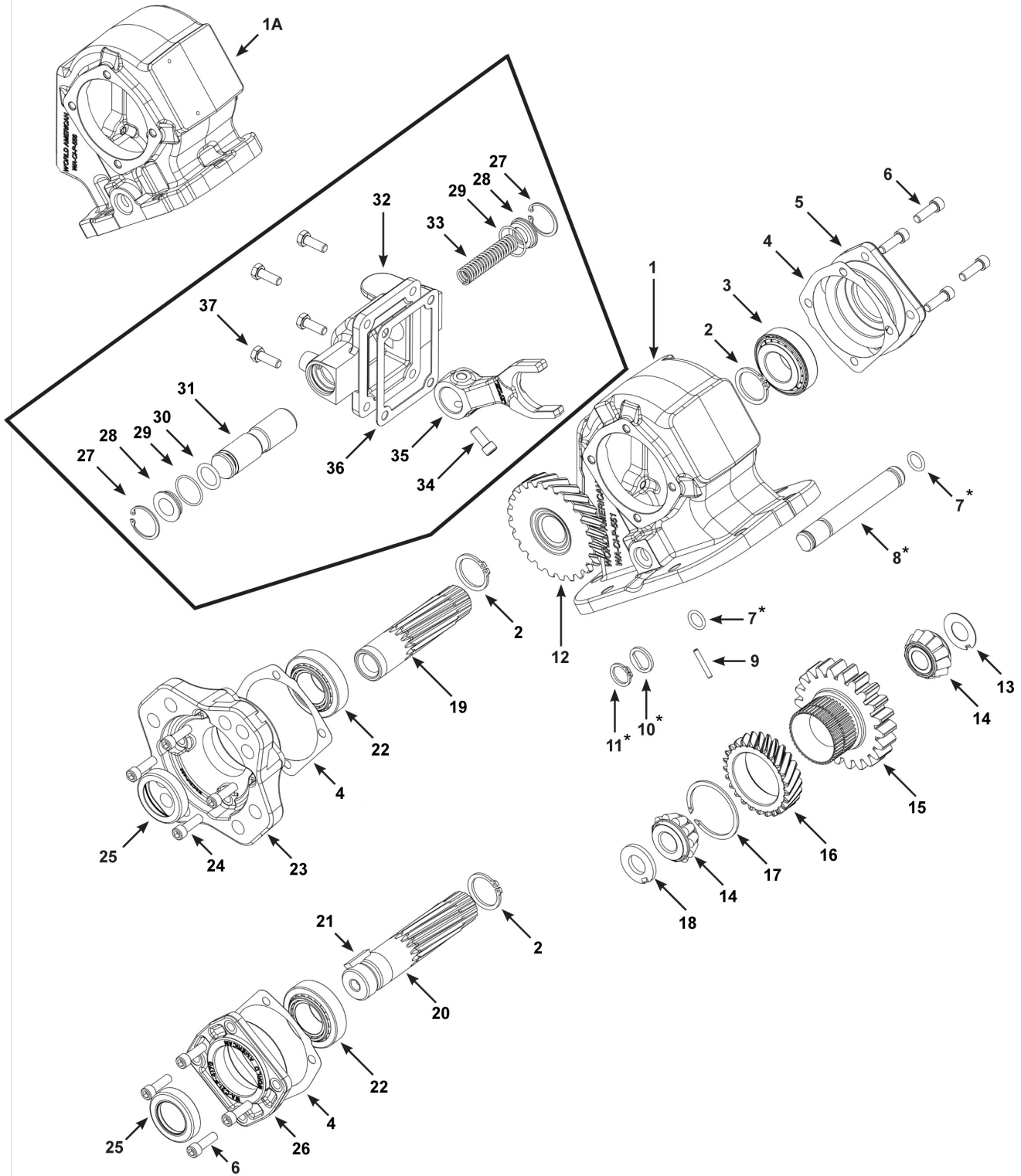


TEN BOLT CLUTCH SHIFT PTO: WA10-MODEL



WA06/08 SERIES DIAGRAM

WA06/08 SERIES DIAGRAM



WA06/08 SERIES DIAGRAM

ITEM	WORLD AMERICAN® #	QTY	DESCRIPTION	REPLACES CHELSEA® #
1	WA20-03-1004	1	8 BOLT STANDARD MOUNT HOUSING	1P552X
1A	WA20-03-1005	1	6 BOLT STANDARD MOUNT HOUSING	1P557X
N.I.	WA20-03-1006	1	6 BOLT DEEP MOUNT HOUSING	1P558X
N.I.	WA20-03-1007	1	8 BOLT DEEP MOUNT HOUSING	1P562X
2	WA20-03-1028	2	SNAP RING	378391
3	WA20-03-1031	1	BEARING	550532
4	SEE CHART 1	A/R	END COVER GASKET	CHART 1
5	WA20-03-1043	1	END COVER	328274X
6	WA20-03-1035	A/R	CAP BOLTS	378430-10
7	WA20-03-1036*	2	O-RING	28P191
8	WA20-03-1025*	1	IDLER SHAFT	9P88
9	WA20-03-1049	1	DOWEL PIN	500597-16
10	WA20-03-1058*	1	D WASHER	WA28P99
11	WA20-03-1076*	1	SNAP RING	WA378000
12	SEE CHART 3	1	LOWER RATIO GEAR	CHART 3
13	WA20-03-1026	1	THRUST WASHER	31P102
14	WA20-03-1042	2	BEARING	550439
15	SEE BELOW LIST	1	INPUT GEAR	SEE BELOW
16	SEE CHART 3	1	UPPER RATIO GEAR	CHART 3
17	WA20-03-1069	1	SNAP RING	379522
18	SEE CHART 2	A/R	WASHER	CHART 2
19	WA20-03-1021**	A/R	7/8" 13 SPLINE OUTPUT SHAFT DM	3P282
20	WA20-03-1022	A/R	1.25" ROUND KEYED OUTPUT SHAFT	3P202
21	WA20-03-1045	A/R	5/16" WOODRUFF KEY	500007-27
22	WA20-03-1046	1	BEARING	50397
23	WA20-03-1063	A/R	DIRECT MOUNT XK FLANGE	328333X
24	WA20-03-1037	4	"XK" FLANGE MOUNTING BOLTS	378430-8
25	WA20-03-1040	1	SEAL	28P216
26	WA20-03-1034	A/R	REMOTE MOUNT XD COVER	328273X
27-35	WA20-03-1030	1	AIR SHIFT COVER - ALL POSITIONS	329361X
N.I.	WA20-03-1070	A/R	WIRE SHIFT COVER, RATIOS 5, 9, 0 POSITIONS RF & LR	329119-1X
N.I.	WA20-03-1074	A/R	WIRE SHIFT COVER, RATIOS 5, 9, 0 POSITIONS RR & LF	329119-2X
N.I.	WA20-03-1067	A/R	WIRE SHIFT COVER, RATIOS 3, 4, 6, 7, 8 POSITIONS RF & LR	329121-1X
N.I.	WA20-03-1091	A/R	WIRE SHIFT COVER, RATIOS 3, 4, 6, 7, 8 POSITIONS RR & LF	329121-2X
36	WA20-03-1038	1	TOP COVER GASKET	35P8
37	WA20-03-1039	4	TOP COVER BOLTS	378430-8
N.I.	WA20-03-1051	2	END COVER RACES	550221
N.I.	WA091	1	FLANGE TO PUMP GASKET	N/A

*INCLUDED WITH IDLER PIN.

** TO REPLACE THE CHELSEA® 2 PIECE OUTPUT SHAFT 3P283, 21P573 & 21P571 YOU MUST REPLACE THE FLANGE & SHAFT WITH A WA20-03-1020 CONVERSION KIT.

INPUT GEAR LIST

INPUT GEAR CODE	WORLD AMERICAN® #	INPUT GEAR LIST	REPLACES CHELSEA® #
LI	WA20-03-1008	UNIVERSAL INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1004 AH
3LI	WA20-03-1013	UNIVERSAL INPUT GEAR FOR RATIO 3	SEE CHART 3
PB	WA20-03-1033	MACK® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1037 DA
3PB	WA20-03-1010	MACK® INPUT GEAR FOR RATIO 3	SEE CHART 3
LS	WA20-03-1072	SPICER® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1008 AR
LQ	WA20-03-1073	SPICER® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1006 AP
LY	WA20-03-1124	FULLER® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1010 AX
MH	WA20-03-1081	SPICER® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9	5P1015 BG
MR	WA20-03-1082	CHEVY® & SPICER® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1023 BQ
QE	WA20-03-1125	ZF® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1056 ED
QT	WA20-03-1032	FULLER® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1059 ES
QW	WA20-03-1075	FULLER® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1060 EV
RP	WA20-03-1084	SPICER® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1070 FN
TZ	WA20-03-1065	ZF® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1237 HY
UL	WA20-03-1123	FULLER® INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	5P1261 JK

CHART 1

WORLD AMERICAN #	DESCRIPTION	REPLACES CHELSEA® #
WA20-03-1027	0.010" GASKET	22P127-1
WA20-03-1041	0.020" GASKET	22P127-2
WA20-03-1126	0.032" GASKET	22P24-3

CHART 2

WORLD AMERICAN® #	DESCRIPTION	REPLACES CHELSEA® #
WA20-03-1029	THRUST WASHER	14P73-1
WA20-03-1132	THRUST WASHER	14P73-2
WA20-03-1133	THRUST WASHER	14P73-3
WA20-03-1143	THRUST WASHER	14P73-4
WA20-03-1135	THRUST WASHER	14P73-5

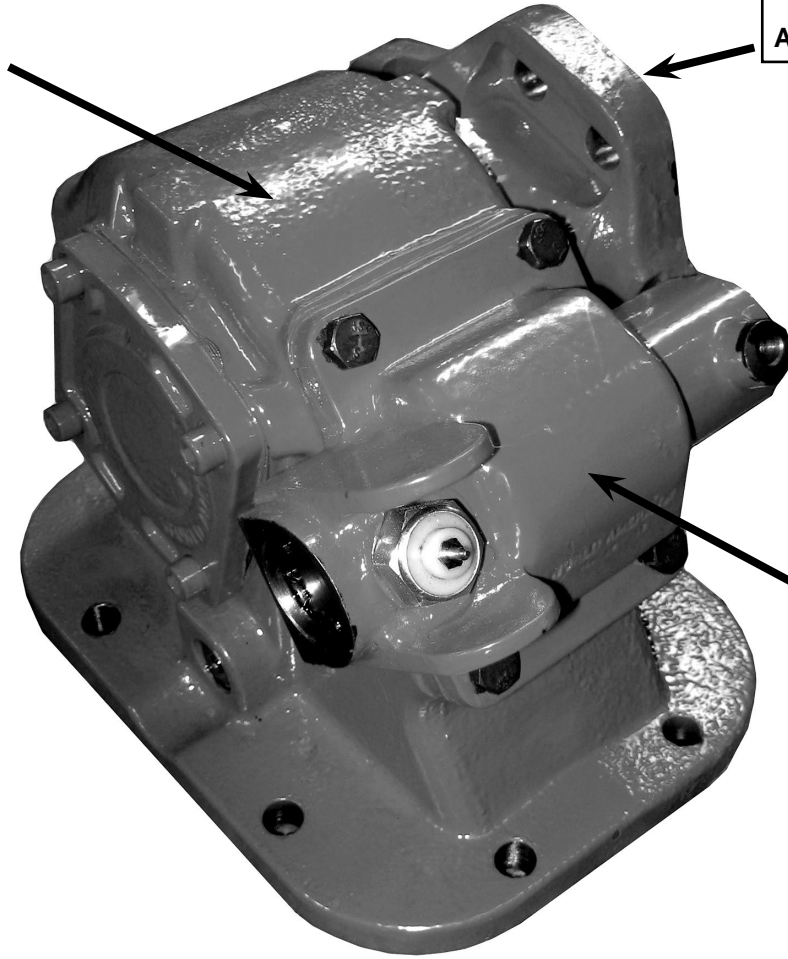
CHART 3

RATIO CODE	WORLD AMERICAN® #	REPLACES CHELSEA® #
3LI ITEM# 15 & 16 12	WA20-03-1013 (ABOVE CONTAINS) WA20-03-1016 WA20-03-1014	FAH 5P1077 2P726
3PB ITEM# 15 & 16 12	WA20-03-1010 (ABOVE CONTAINS) WA20-03-1083 WA20-03-1014	FDA 5P1085 2P726
4 ITEM# 16 12	WA20-03-1009 (ABOVE CONTAINS) WA20-03-1088 WA20-03-1017	L 5P964 2P727
5 ITEM# 16 12	WA20-03-1012 (ABOVE CONTAINS) WA20-03-1015 WA20-03-1011	Q 5P965 2P559
6 ITEM# 16 12	WA20-03-1127 (ABOVE CONTAINS) WA20-03-1109 WA20-03-1011	R 5P1214 2P559
7 ITEM# 16 12	WA20-03-1003 (ABOVE CONTAINS) WA20-03-1113 WA20-03-1103	S 5P966 2P637
8 ITEM# 16 12	WA20-03-1092 (ABOVE CONTAINS) WA20-03-1114 WA20-03-1101	U 5P967 2P560
9 ITEM# 16 12	WA20-1128 (ABOVE CONTAINS) WA20-03-1115 WA20-03-1102	W 5P968 2P561
0 ITEM# 16 12	WA20-1131 (ABOVE CONTAINS) WA20-03-1129 WA20-03-1130	X 5P969 2P728

WORLD AMERICAN® BUILD-YOUR-OWN-PTO-KIT PROGRAM

PTO HOUSING
OPTIONS

OUTPUT SHAFT
ASSEMBLY OPTIONS



SHIFT COVER
OPTIONS

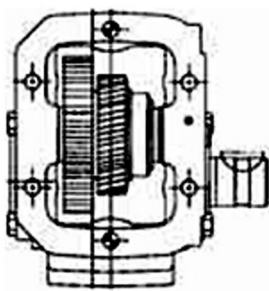


RATIO GEAR KITS

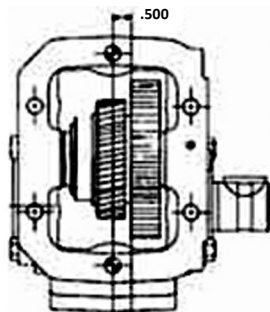


INPUT GEAR KITS

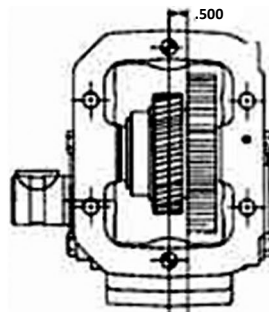
ARRANGEMENT CONFIGURATIONS



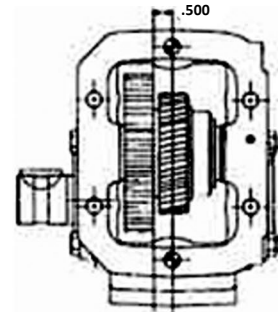
RF
RIGHT, FORWARD



RR
RIGHT, REAR



LF
LEFT, FORWARD



LR
LEFT, REAR

WORLD AMERICAN® BUILD-YOUR-OWN-PTO-KIT PROGRAM

PTO HOUSING KIT OPTIONS

KIT #	DESCRIPTION	BOM CODE
WA20-03-1085	06 SERIES BOLT STANDARD MOUNT HOUSING	WA06S
WA20-03-1136	06 SERIES BOLT DEEP MOUNT HOUSING	WA06D
WA20-03-1137	08 SERIES BOLT STANDARD MOUNT HOUSING	WA08S
WA20-03-1138	08 SERIES BOLT DEEP MOUNT HOUSING	WA08D

RATIO GEAR KIT OPTIONS

KIT #	DESCRIPTION	BOM CODE
WA20-03-1013*	RATIO .52:1 UNIGEAR INCLUDES UNIVERSAL INPUT GEAR AH	3LI
WA20-03-1010*	RATIO .52:1 UNIGEAR INCLUDES MACK INPUT GEAR DA	3PB
WA20-03-1009	RATIO .69:1	4
WA20-03-1012	RATIO .87:1	5
WA20-03-1127	RATIO .94:1	6
WA20-03-1003	RATIO 1.2:1	7
WA20-03-1092	RATIO 1.14:1	8
WA20-03-1128	RATIO 1.71:1	9
WA20-03-1131	RATIO 2:1	0

*THIS IS A UNIGEAR THAT IS MADE WITH THE LOWER RATIO GEAR AS A ONE PIECE GEAR SOLD ONLY IN SETS WITH THE LOWER RATIO.

INPUT GEAR KIT OPTIONS

KIT #	DESCRIPTION	BOM CODE
WA20-03-1089	UNIVERSAL INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	LC
WA20-03-1008	UNIVERSAL INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	LI
WA20-03-1073	SPICER® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	LQ
WA20-03-1072	SPICER® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	LS
WA20-03-1124	FULLER® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	LY
WA20-03-1081	SPICER® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	MH
WA20-03-1082	CHEVY® TYPE & SPICER® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	MR
WA20-03-1033	MACK® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	PB
WA20-03-1125	ZF® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	QE
WA20-03-1032	FULLER® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	QT
WA20-03-1175	FULLER® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	QW
WA20-03-1013	UNIVERSAL INPUT GEAR FOR 3 RATIOS 4, 5, 6, 7, 8, 9, 0	3LI
WA20-03-1010	MACK® TYPE INPUT GEAR FOR 3 RATIOS 4, 5, 6, 7, 8, 9, 0	3PB
WA20-03-1084	SPICER® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	RP
WA20-03-1141	ZF® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	ST
WA20-03-1065	ZF® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	TZ
WA20-03-1123	FULLER® TYPE INPUT GEAR FOR RATIOS 4, 5, 6, 7, 8, 9, 0	UL

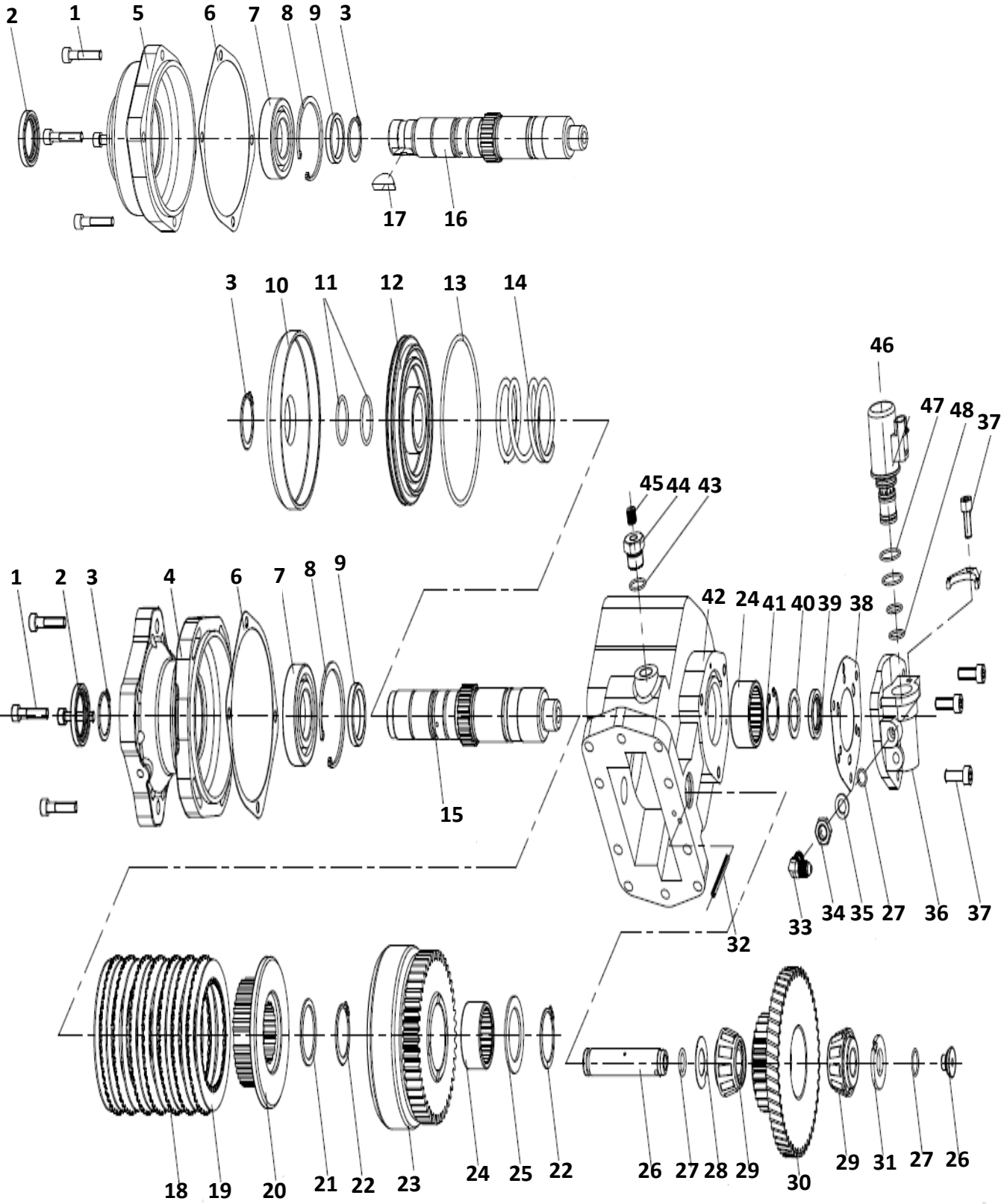
SHIFT COVER KIT OPTIONS

PART #	DESCRIPTION	BOM CODE
WA20-03-1030	AIR SHIFT COVER FOR ALL POSITIONS	N
WA20-03-1210	WIRE SHIFT COVER FOR RATIOS 5,9,0 POSITIONS RF & LR	C
WA20-03-1207	WIRE SHIFT COVER FOR RATIOS 5,9,0 POSITIONS RR & LF	C
WA20-03-1208	WIRE SHIFT COVER FOR RATIOS 3,4,6,7,8 POSITIONS RF & LR	C
WA20-03-1209	WIRE SHIFT COVER FOR RATIOS 3,4,6,7,8 POSITIONS RR & LF	C

OUTPUT SHAFT & COVER ASSEMBLY KIT OPTIONS

PART #	DESCRIPTION	BOM CODE
WA20-03-1019	1-1/4" ROUND KEYED SHAFT WITH COVER	RM
WA20-03-1020	7/8", 13 SPLINE WITH A 2/4 BOLT ROTATABLE "B" FLANGE	DM
WA20-03-1090	1", 15 SPLINE WITH A ROTATABLE "BB" FLANGE	BB
WA20-03-1105	DIN SHAFT	EU

WA10 SERIES DIAGRAM



WA 10 SERIES DIAGRAM

WA10 SERIES DIAGRAM

ITEM #	WORLD AMERICAN® #	QTY	DESCRIPTION	REPLACES CHELSEA® #
1	WA20-03-1037	4	CAP BOLTS	378447-8
2	WA20-04-3001	1	OIL SEAL	28P225
3	WA20-04-3002	1	SNAP RING	378576
4	WA20-04-3003	1	XK END COVER	21P482
5	WA20-04-3004	1	XD END COVER	21P480
6	WA20-04-3005	1	GASKET	22P101
7	WA20-04-3006	1	BEARING	550010
8	WA20-04-3007	1	SNAP RING	378895
9	WA20-04-3008	1	SPACER	4P147
10	WA20-04-3009	1	BACK-UP CYLINDER	379323-1
11	WA20-04-3010	2	O-RINGS	28P244
12	WA20-04-3011	1	PISTON	380057-1
13	WA20-04-3012	1	O-RINGS	28P178
14	WA20-04-3013	1	SPRING	37P39
15	WA20-04-3014	1	XK OUTPUT SHAFT	3P832
15A	WA20-04-3060	N/A	XK OUTPUT SHAFT SUB ASSEMBLY	329006-1X
16	WA20-04-3015	1	XD OUTPUT SHAFT	3P831
16A	WA20-04-3061	N/A	XD OUTPUT SHAFT SUB ASSEMBLY	329720-1X
17	WA20-03-1045	1	WOODRUFF KEY	500007-29
18	WA20-04-3059	NSS	FRICITION DISC	CHART 3
19	WA20-04-3059	NSS	CLUTCH PLATE	CHART 3
20	WA20-04-3016	1	INNER CLUTCH GEAR	2P858
21	WA20-04-3017	1	SPACER	14P49
22	WA20-04-3018	1	SNAP RING	379746
23	SEE CHART 2	1	OUTPUT GEAR SUB ASSEMBLY	CHART 2
24	WA20-04-3019	1	BEARING	560972
25	WA20-04-3020	1	SPACER	31P70
26	WA20-04-3021	1	IDLER PIN	9P91
27	WA20-03-1036	1	O-RINGS	28P191
28	WA20-03-1026	1	THRUST WASHER	31P102
29	WA20-03-1042	1	BEARING	550439
30	SEE CHART 2	1	INPUT GEAR	CHART 2
31	SEE CHART 1	1	THRUST WASHER	CHART 1
32	WA20-03-1049	1	DOWEL PIN	500597-16
33	WA20-04-3024	1	ELBOW	379486
34	WA20-04-3025	1	NUT	379486-1
35	WA20-04-3026	1	WASHER	379486-2
36*	WA20-04-3027	1	VALVE CAP	34P143
37*	WA20-03-1035	4	CAP BOLTS	378447-6
38*	WA20-04-3028	1	GASKET	22P112
39*	WA20-04-3029	1	SEAL	28P119
40*	WA20-04-3030	1	THRUST WASHER	378811
41*	WA20-04-3031	1	SNAP RING	378849
42	WA20-04-3032	1	10 BOLT HOUSING	1P603
43	WA20-04-3033	1	O-RINGS	28P171
44	WA20-04-3034	1	BOSS PLUG	379242
45	WA20-04-3035	1	PIPE PLUG	379231
46*	WA20-04-3036	1	12V SOLENOID VALVE	380123-12
47*	WA20-04-3037	2	O-RINGS	NSS
48*	WA20-04-3038	2	O-RINGS	NSS
49*	WA20-04-3039	1	RETAINER	380124
NS	WA20-04-3075	1	PRESSURE SWITCH	379502

* INCLUDED IN SOLENOID VALVE ASSEMBLY SEE CHART 4.

CHART 1

WORLD AMERICAN® #	DESCRIPTION	REPLACES CHELSEA® #
WA20-04-3043	THRUST WASHER	14P79-1
WA20-04-3044	THRUST WASHER	14P79-2
WA20-04-3045	THRUST WASHER	14P79-3
WA20-04-3046	THRUST WASHER	14P79-4

CHART 2

RATIO CODE	WORLD AMERICAN® #	REPLACES CHELSEA® #
ARK	WA20-04-3047	329005-1X BfJ
ITEM # 30 23	(ABOVE CONTAINS) WA20-04-3048 WA20-04-3049	5P912 2P688
BRK	WA20-04-3050	329005-2X DFJ
ITEM # 30 23	(ABOVE CONTAINS) WA20-04-3051 WA20-04-3052	5P913 2P684
CRK	WA20-04-3053	329005-3X GFJ
ITEM # 30 23	(ABOVE CONTAINS) WA20-04-3054 WA20-04-3055	5P914 2P683
DRK	WA20-04-3056	329005-4X MFJ
ITEM # 30 23	(ABOVE CONTAINS) WA20-04-3057 WA20-03-3058	5P915 2P982

CHART 3

WORLD AMERICAN® #	DESCRIPTION	REPLACES CHELSEA® #
WA20-04-3059	CLUTCH PACK KIT	329071-7X

CHART 4

WORLD AMERICAN® #	DESCRIPTION	REPLACES CHELSEA® #
WA20-04-3023	SOLENOID VALVE & END CAP ASSEMBLY	329463-12X



WA20-03-3071

HOT SHIFT PTO HYDRAULIC HOSES

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-03-3070	17" HOT SHIFT PTO HYDRAULIC HOSE	329130-2X
WA20-03-3071	27" HOT SHIFT PTO HYDRAULIC HOSE	329130-5X
WA20-03-3072	42" HOT SHIFT PTO HYDRAULIC HOSE	329075-2X
WA20-03-3073	23" HOT SHIFT PTO HYDRAULIC HOSE	329130-4X



WATC8

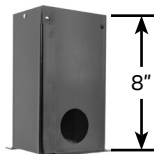
PTO & DUMP PUMP CONTROL VALVE INSTALLATION KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WASC8	8" TOWER & SINGLE PTO CONTROL	N/A
WASC10	10" TOWER & SINGLE PTO CONTROL	N/A
WASC12	12" TOWER & SINGLE PTO CONTROL	N/A
WATC8	8" TOWER & DUAL PTO CONTROL	AVC-295-8/ AVC-295-T-8
WATC8K	8" TOWER & DUAL PTO CONTROL WITHOUT KICKOUT	AVC-295-M-8/ AVC-295-M-T-8
WATC10	10" TOWER & DUAL PTO CONTROL	N/A
WATC10K	10" TOWER & DUAL PTO CONTROL WITHOUT KICKOUT	N/A
WATC12	12" TOWER & DUAL PTO CONTROL	AVC-295-13/ AVC-295-T-13
WATC12K	12" TOWER & DUAL PTO CONTROL WITHOUT KICKOUT	AVC-295-M-13/ AVC-295-M-T-13

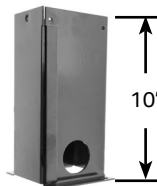


PTO & DUMP PUMP CONTROL VALVES

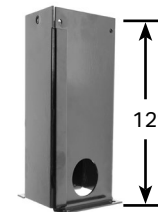
WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA101X	SINGLE VALVE (PTO ONLY) AIR KIT CONTAINS: HOSE, FITTINGS, VALVE & LED LIGHT	328388-37X 35M18653 328388-98X 329648X
WA201X	DUAL VALE (PTO & DUMP PUMP) AIR KIT WITH KICKOUT CONTAINS: HOSE, FITTINGS, VALVE & LED LIGHT	328388-65X 35T36353 328388-79X AV-295
WA202X	DUAL VALVE (PTO & DUMP PUMP) AIR KITS WITHOUT KICKOUT CONTAINS: HOSE, FITTINGS, VALVE & LED LIGHT	329388-72X AV-295-M
WA301X	DUMP PUMP VALVE ONLY WITHOUT PTO CONTROL CONTAINS: HOSE, FITTINGS	K1010FAS1



WA600221



WA600222



WA600223

CONTROL TOWERS (CONSOLES)

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA600221	8" TOWER	329219X/ K90C
WA600222	10" TOWER	TO - 10
WA600223	12" TOWER	TO - 12

PTO & DUMP PUMP CONTROL AIR LINE FITTINGS



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA01-5068	1/4" HOSE, 1/8" MALE PIPE THREAD	379042 VS68NTA-4-2 283137 11228
WA01-5079	1/4" HOSE, 1/8" MALE PIPE THREAD 90 ELBOW	379043 TVS269NTA-4-2 283132 K11258
WA01-5053	1/4" AIRLINE INSERT	63NTA-4 246088 11330
WA01-5064	REPLACEMENT 1/4" TUBING NUT	61NTA-4
WA01-5061	REPLACEMENT 1/4" TUBING SLEEVE	60NTA-4
WA01-5075	1/4" HOSE UNION	62NTA-4 283135 11201
WAI216-E	1/4" HOSE, 1/8" MALE PIPE PUSH TO CONNECT 90 ELBOW	169PMTNS-4-2
WA01-5802	1/4" HOSE, 1/8" MALE PIPE PUSH TO CONNECT	379904 68PMT-4-2

AIR LINE TUBING



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA451030B	1/4" AIR TUBING 100'	379044-7

AIR PROTECTION VALVE KIT



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA9054107	AIR PROTECTION VALVE KIT	378414 118181 31MT15759

PUSH/ PULL CABLES



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA4306-10	10' PTO CABLE	328346-10X, 2570-10
WA4306-12	12' PTO CABLE	2570-12
WA4306-15	15' PTO CABLE	328346-15X, 2570-15
WA4306-20	20' PTO CABLE	328346-20X, 2570-20
WA20-03-1059	CABLE HARDWARE KIT	328380X

REPLACEMENT INDICATOR LIGHT PARTS



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WAI-750	INDICATOR LIGHT	378978 75-P-13
WASW-003	SENDING UNIT SENSOR	379639 380515 30T3811
WASWK-699	REPLACEMENT WIRING HARNESS	379640
WA20-03-1134	INDICATOR LIGHT KIT	328751-1X

SHIFTER CONVERSION KITS

WORLD AMERICAN® #	TYPE OF CONVERSION	POSITION	REPLACES OEM #
WA20-03-1030	WIRE TO AIR	AIR SHIFT COVER FOR ALL POSITIONS	329361X
WA20-03-1210	AIR TO WIRE	WIRE SHIFT COVER FOR RATIOS 5, 9, 0 POSITIONS RF & LR	329106-105X
WA20-03-1207	AIR TO WIRE	WIRE SHIFT COVER FOR RATIOS 5, 9, 0 POSITIONS RR & LF	329106-106X
WA20-03-1208	AIR TO WIRE	WIRE SHIFT COVER FOR RATIOS 3, 4, 6, 7, 8 POSITIONS RF & LR	329109-109X
WA20-03-1209	AIR TO WIRE	WIRE SHIFT COVER FOR RATIOS 3, 4, 6, 7, 8 POSITIONS RR & LF	329106-110X

NOTE: SEE PAGE 17 FOR OUTPUT SHAFT CONVERSION KITS.

POPULAR PTO STUD KITS



WA20-03-1117



WA20-03-1060



WA20-03-1056

WORLD AMERICAN® #	REPLACES OEM #	SERIES	DESCRIPTION
WA20-03-1117	328170-76X	06 SERIES	STANDARD
WA20-03-1071	328170-77X	06 SERIES	DEEP
WA20-03-1060	7170-72X	06 SERIES	METRIC
WA20-03-1116	328170-200X	08 SERIES	STANDARD
WA20-03-1116	328170-200X	08 SERIES	DEEP
WA20-03-1056	7170-68X 328170-201X	08 SERIES	METRIC
WA20-04-3064	7170-86X	10 SERIES	STANDARD

POPULAR PTO REPAIR KITS

DESCRIPTION	06 SERIES WORLD AMERICAN® #	REPLACES OEM #	08 SERIES WORLD AMERICAN® #	REPLACES OEM #	10 SERIES WORLD AMERICAN® #	REPLACES OEM #
SEAL & GASKET KIT	WA20-03-1053	328356-13X	WA20-03-1052	328356-50X	WA20-04-3062	329071-19X
BEARING KIT	WA20-03-1080	328594-13X	WA20-03-1080	328594-13X	WA20-04-3063	329071-36X
CLUTCH PACK KIT					WA20-04-3059	329071-7X

PTO MOUNTING GASKETS & SHIMS

THICKNESS	6-BOLT	REPLACES OEM #	THICKNESS	8-BOLT	REPLACES OEM #	10-BOLT HOT SHIFT	REPLACES OEM #
0.010 GASKET	WA6010	35-P-9-1 13M35091	0.010 GASKET	WA8010	35-P-15-1 13M35151	WA20-04-3040	35-P-74 13T35777
0.020 GASKET	WA6020	35-P-9-2 13M35092	0.020 GASKET	WA8020	35-P-15-2 13M35152		
0.032 GASKET	WA6032	7-A-032 23M60032S	0.032 GASKET	WA8032	8-A-032 23M80032		
0.062 SHIM	WA6062	7-A-062 23M60062S	0.062 SHIM	WA8062	8-A-062 23M80062		
0.093 SHIM	WA6093	7-A-093 23M60093S	0.093 SHIM	WA8093	8-A-093 23M80093		
0.125 SHIM	WA6125	7-A-125 23M60125S	0.165 SHIM	WA8165	8-A-165 23M80165		
0.140 SHIM	WA6140	7-A-140 23M60140S	0.190 SHIM	WA8190	8-A-190 23M80190		
0.165 SHIM	WA6165	7-A-165 23M60165S	0.248 SHIM	WA8248	8-A-248 23M80248		
0.187 SHIM	WA6187	7-A-187 23M60187S	0.295 SHIM	WA8295	8-A-295 23M80295		
0.200 SHIM	WA6200	7-A-200 23M60200S	0.375 SHIM	WA8375	8-A-375 23M80375		
0.240 SHIM	WA6240	7-A-240 23M60240S	0.500 SHIM	WA8500	8-A-500 23M80500		
0.270 SHIM	WA6270	7-A-270 23M60270	0.700 SHIM	WA8700	8-A-700 23M80700		
0.300 SHIM	WA6300	7-A-300 23M60300	0.1005 SHIM	WA81005	8-A-1005 23M81005		
0.400 SHIM	WA6400	7-A-400 23M60400					
0.450 SHIM	WA6450	7-A-450 23M60450					
0.500 SHIM	WA6500	7-A-500 23M60500					
0.550 SHIM	WA6550	7-A-550 23M60550					
0.800 SHIM	WA6800	7-A-800 23M60800					

PTO SHAFT ASSEMBLY



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
10270-5729	NON-WELDED 1000 SERIES COMPLETE PTO SHAFT ASSY CONTAINS: 5-170XR, 2-40-971R, 10-3-18XR, 10-28-17	10270-5729
9553SF	NON-WELDED 1310 SERIES COMPLETE PTO SHAFT ASSY CONTAINS: 2-3-128KXR, 2-40-1031R, 5-153XR, 2-28-357R	2A29553SF R9553SF 9553-4724

PTO SHAFT CENTER BEARING



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
HB88107A	1310 SERIES CENTER BEARING	386418C91 210088-1X 81-2012

U-JOINTS FOR PTO



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
5-170XR	PTO U-JOINT 1000 SERIES	5-170X
5-153XR	PTO U-JOINT 1310 SERIES	5-153X

1000 SERIES PTO YOKES



10-4-193R



10-4-282R



10-4-123R

WORLD AMERICAN® #	REPLACES MERITOR® #	DESCRIPTION
10-4-23R	10N4-23	3/4" ROUND 1/4" KEYWAY WITH 3/8" SET SCREW A= 1.625" B= 2.500" C= .750"
10-4-63R	10N4-63	7/8" ROUND 1/4" KEYWAY WITH 3/8" SET SCREW A= 1.625" B= 2.500" C= .875"
10-4-93R	10N4-93	1" ROUND 1/4" KEYWAY WITH 3/8" SET SCREW A= 1.625" B= 2.500" C= .875"
10-4-103R	10N4-103	1 1/8" ROUND 1/4" KEYWAY WITH 3/8" SET SCREW A= 2.000" B= 2.500" C= 1.125"
10-4-113R	10N4-113	1 1/8" ROUND 5/16" KEYWAY WITH 3/8" SET SCREW A= 2.000" B= 2.500" C= 1.125"
10-4-123R	10N4-123	1 1/4" ROUND 5/16" KEYWAY WITH 3/8" SET SCREW A= 2.000" B= 2.500" C= 1.250"
10-4-183R	10N4-183	1 1/4" ROUND 5/16" KEYWAY WITH 3/8" SET SCREW A= 2.000" B= 2.500" C= 1.250"
10-4-193R	10N4-193	1 1/4" ROUND 5/16" KEYWAY WITH 3/8" SET SCREW A= 1.500" B= 2.500" C= 1.250"
10-4-22R	10N4-22	3/4" SQUARE WITH 3/8" SET SCREW A= 1.625" B= 2.500" C= .750"
10-4-12R	10N4-12	7/8" SQUARE WITH 3/8" SET SCREW A= 1.969" B= 2.500" C= .875"
10-4-52R	10N4-52	7/8" HEX WITH 3/8" SET SCREW A= 2.000" B= 2.500" C= 1.000"
10-4-282R	10N4-282	7/8" HEX WITH 3/8" SET SCREW A= 2.000" B= 2.500" C= .875"
10-4-32R	10N4-32	1 1/8" HEX WITH 3/8" SET SCREW A= 2.000" B= 2.500" C= 1.125"

1000 SERIES PTO SLIP YOKES



WORLD AMERICAN® #	REPLACEMENT COMPONENTS FOR MERITOR® #	DESCRIPTION
10-3-18KXR	10N3-18	1-1/4", 16 SPLINES A= 1.250" B= 5.500" C= .125"
10-3-83XR	10N3-83	1" ROUND WITH 1/4" KEYWAY A= 1.250" B= 5.500"
10-3-163XR	10N3-163	1-1/4" ROUND WITH 5/16" KEYWAY A= 1.250" B= 5.500"
10-3-22XR	10N3-22	7/8" SQUARE A= .875" B= 5.500"
10-3-122XR	10N3-122	1" SQUARE A= 1.000" B= 5.500"
10-3-32XR	10N3-32	1-1/4" HEX A= 1.125" B= 5.500"

1310 SERIES PTO YOKES



2-4-473R



2-4-783R

WORLD AMERICAN® #	REPLACEMENT COMPONENTS FOR MERITOR® #	DESCRIPTION
2-4-473R	131N-4-473	1" ROUND, 1/4" KEYWAY WITH 3/8" SET SCREW A= 2.125" B= 2.560" C= 1.000"
2-4-503R	131N-4-503	1-1/8" ROUND, 1/4" KEYWAY WITH 3/8" SET SCREW A= 2.125" B= 2.560" C= 1.125"
2-4-533R	131N-4-533	1-1/4" ROUND, 5/16" KEYWAY WITH 3/8" SET SCREW A= 2.125" B= 2.560" C= 1.250"
2-4-783R	131N-4-783	1-1/4" ROUND, 5/16" KEYWAY WITH 3/8" SET SCREW A= 2.125" B= 2.940" C= 1.250"
2-70-18XR	10022	1310 SERIES STRAP KIT

1310 SERIES FLANGE YOKE FOR PTO



WORLD AMERICAN® #	REPLACEMENT COMPONENTS FOR MERITOR® #	DESCRIPTION
2-2-329R	131N-2-329	4 BOLT FLANGE YOKE WITH 3/8" BOLTS A= 2.375" B= 1.375" C= 3.125" D= 3.875"

1310 SERIES TUBE YOKE FOR PTO



WORLD AMERICAN® #	REPLACEMENT COMPONENTS FOR MERITOR® #	DESCRIPTION
2-28-1757R	131N-40-1757	TUBE YOKE A= 1.766" B= 1.690" C= 2.000" .120 W
2-28-357R	131N-28-357	TUBE YOKE A= 1.800" B= 1.690" C= 2.000" .083 W

1310 SERIES WELD STUB END FOR PTO



WORLD AMERICAN® #	REPLACEMENT COMPONENTS FOR MERITOR® #	DESCRIPTION
2-40-1031R	131N-40-1031	WELD END FOR 2" D. .83 WALL TUBING A= 2.000" B= 5.188" C= 4.625" D= 2.250"
2-40-1701R	131N-40-1701	WELD END FOR 2" D. .120 WALL TUBING A= 2.000" B= 6.188" C= 5.625" D= 2.250"

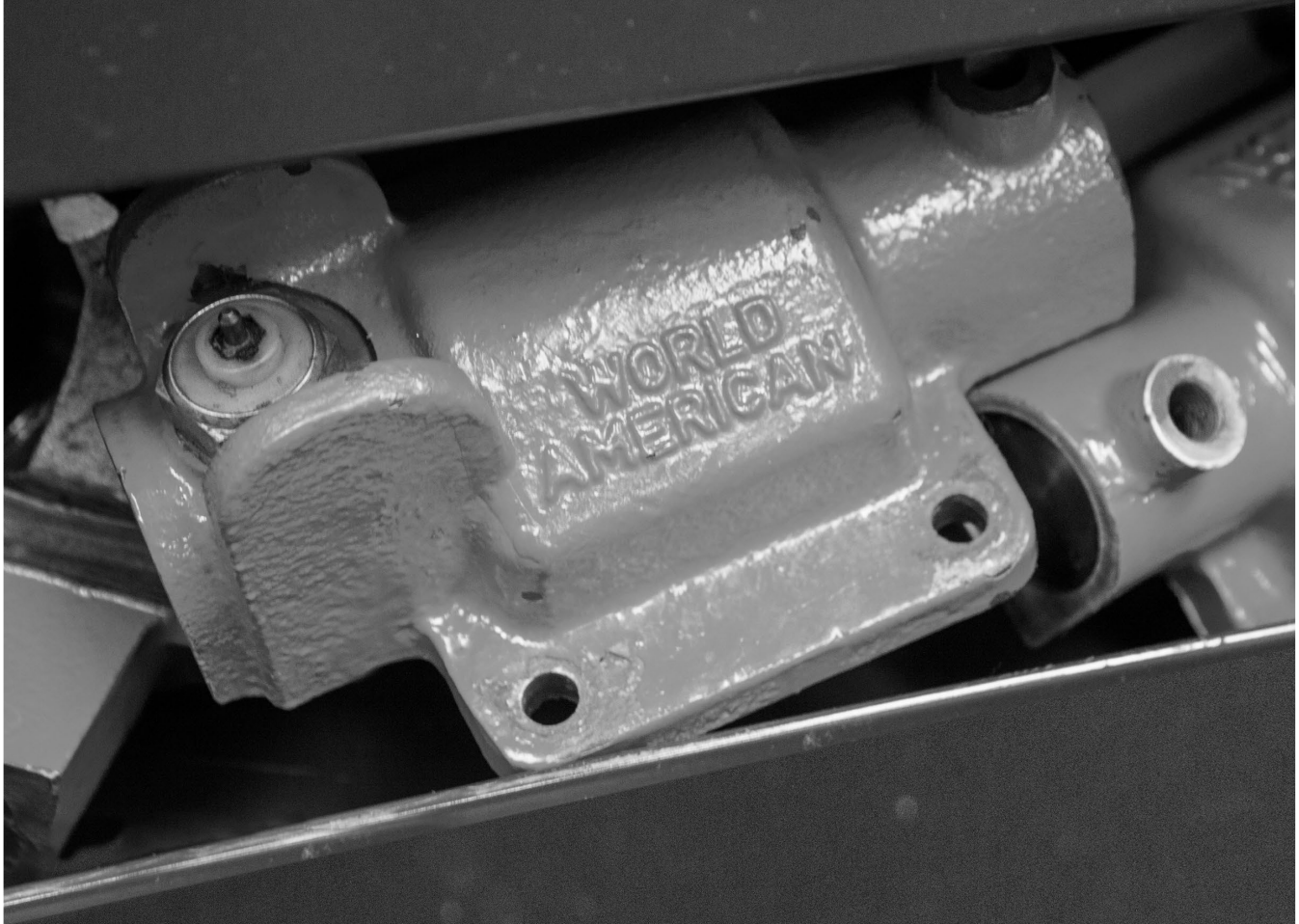
1310 SERIES SLIP YOKE FOR PTO

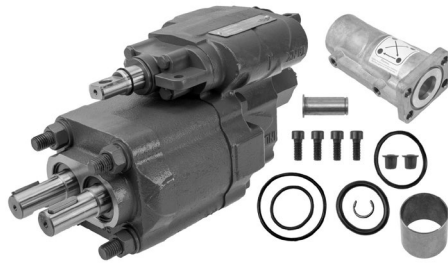


2-3-8001KXR

WORLD AMERICAN® #	REPLACEMENT COMPONENTS FOR MERITOR® #	DESCRIPTION
2-3-128KXR	131N-3-128KX	SLIP YOKE, 16 SPLINE A= 5.375" B= 3.469" C= 1.375"
2-3-8001KXR	131N-3-8001KX	SLIP YOKE, 16 SPLINE A= 6.812" B= 3.469" C= 1.375"
2-3-8021KXR	131N-3-8021KX	SLIP YOKE, 16 SPLINE A= 7.875" B= 3.469" C= 1.375"

HYDRAULIC SECTION

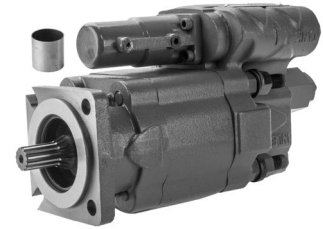




WAP101-25AS



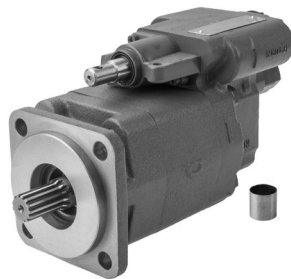
WAP102-25L



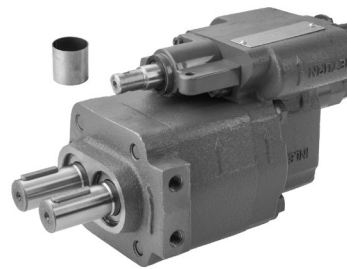
WAP102-25LAS

HYDRAULIC DUMP PUMP : C SERIES

WORLD AMERICAN® #	DESCRIPTION
WAP101-25	DUMP PUMP - BI-ROTATIONAL, 1" DIAMETER KEYED SHAFT, 49 GPM FLOW @ 1800 RPM MAX RPM 2400 - 1.25" NPT SUCTION PORT, 1" NPT PRESSURE & RETURN PORTS
WAP101-25AS	DUMP PUMP - BI-ROTATIONAL, 1" DIAMETER KEYED SHAFT, 49 GPM FLOW @ 1800 RPM MAX RPM 2400 WITH AIR SHIFT - 1.25" NPT SUCTION PORT, 1" PRESSURE & RETURN PORTS
WAP102-25L	DUMP PUMP - LEFT HAND ROTATION (CCW), 7/8" - 13 SPLINE SHAFT, 49 GPM FLOW @ 1800 RPM MAX RPM 2400 - EXTENDED STUDS FOR SUPPORT BRACKET - 1.25" NPT SUCTION PORT, 1" NPT PRESSURE & RETURN PORTS
WAP102-25LAS	DUMP PUMP - LEFT HAND ROTATION (CCW), 7/8" - 13 SPLINE SHAFT, 49 GPM FLOW @ 1800 RPM MAX RPM 2400 - EXTENDED STUDS FOR SUPPORT BRACKET WITH AIR SHIFT - 1.25" NPT SUCTION PORT, 1" NPT PRESSURE & RETURN PORTS
WAB102-25LAS	DUMP PUMP - LEFT HAND ROTATION (CCW), 1" - 15 SPLINE SHAFT, 49 GPM FLOW @ 1800 RPM MAX RPM 2400 - EXTENDED STUDS FOR SUPPORT BRACKET WITH AIR SHIFT - 1.25" NPT SUCTION PORT, 1" NPT PRESSURE & RETURN PORTS
WAP102-25R	DUMP PUMP - RIGHT HAND ROTATION (CW), 7/8" - 13 SPLINE SHAFT, 49 GPM FLOW @ 1800 RPM MAX RPM 2400 - EXTENDED STUDS FOR SUPPORT BRACKET - 1.25" NPT SUCTION PORT, 1" NPT PRESSURE & RETURN PORTS
WAP102-25RAS	DUMP PUMP - RIGHT HAND ROTATION (CW), 7/8" - 13 SPLINE SHAFT, 49 GPM FLOW @ 1800 RPM MAX RPM 2400 - EXTENDED STUDS FOR SUPPORT BRACKET WITH AIR SHIFT - 1.25" NPT SUCTION PORT, 1" NPT PRESSURE & RETURNS PORTS



WA102G



WA101G

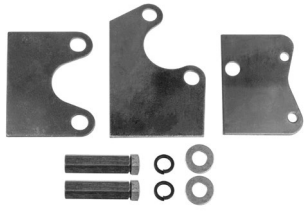
HYDRAULIC DUMP PUMP : G SERIES

WORLD AMERICAN® #	DESCRIPTION
WA101G	DUMP PUMP G101 - BI-ROTATIONAL - 1" DIAMETER SHAFTS, 15 GPM @ 1000 RPM TO 37 GPM @ 2400 RPM 1 1/4" SUCTION PORT, 3/4" PRESSURE & RETURN PORTS
WA101GAS	DUMP PUMP G101 - BI-ROTATIONAL - 1" DIAMETER SHAFTS, 15 GPM @ 1000 RPM TO 37 GPM @ 2400 RPM WITH AIR SHIFT - 1 1/4" SUCTION PORT, 3/4" PRESSURE & RETURN PORTS
WA102G	DUMP PUMP G102 - LEFT HAND ROTATION (CCW), FACTORY SET 2000 PSI, RELIEF, 7/8" 13 SPLINE SHAFT, 15 GPM @ 1000 RPM TO 37 GPM @ 2400 RPM - 1 1/4" SUCTION PORT, 3/4" PRESSURE & RETURN PORTS
WA102GAS	DUMP PUMP G102 - LEFT HAND ROTATION (CCW), FACTORY SET 2000 PSI, RELIEF, 7/8" 13 SPLINE SHAFT, 15 GPM @ 1000 RPM TO 37 GPM @ 2400 RPM WITH AIR SHIFT - 1 1/4" SUCTION PORT, 3/4" PRESSURE & RETURN PORTS
WA102GR	DUMP PUMP G102 - RIGHT HAND ROTATION (CW), FACTORY SET 2000 PSI, RELIEF, 7/8" 13 SPLINE SHAFT, 15 GPM @ 1000 RPM TO 37 GPM @ 2400 RPM - 1 1/4" SUCTION PORT, 3/4" PRESSURE & RETURN PORTS
WA102G-RAS	DUMP PUMP G102 - RIGHT HAND ROTATION (CW), FACTORY SET 2000 PSI, RELIEF, 7/8" 13 SPLINE SHAFT, 15 GPM @ 1000 RPM TO 37 GPM @ 2400 RPM WITH AIR SHIFT - 1 1/4" SUCTION PORT, 3/4" PRESSURE & RETURN POINTS

NOTE 1: ALL DUMP PUMPS CAN BE USED WITH 2 OR 3 LINE INSTALLATIONS.

NOTE 2: SUPPORT BRACKETS NOT INCLUDED

NOTE 3: IT IS RECOMMENDED THAT A SUPPORT BRACKET (SE PG 30) BE USED WITH ALL DUMP PUMPS.



PUMP SUPPORT BRACKETS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WAPBK-1000	102 SERIES SUPPORT BRACKET	391-1832-323
WAPBK-1001	101 SERIES SUPPORT BRACKET	314-0100-005 B1235A

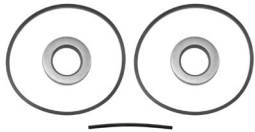
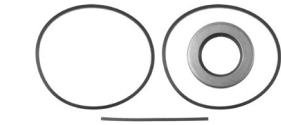


AS102

DUMP PUMP AIR SHIFT CYLINDERS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
AS102	REPLACEMENT "C" SERIES 101 & 102	329342X AS301 ACM-300/302 314-9414-017
AS102G	REPLACEMENT "G" SERIES 101 & 102	329328X ACM-400/402 308-9414-049

DUMP PUMP SEAL KIT



WORLD AMERICAN® #	DESCRIPTION
WA102SK	102 DUMP PUMP SEAL KIT
WA101SK	101 DUMP PUMP SEAL KIT
WA100GK	101 & 102 "G" SERIES SEAL KIT

DUMP PUMP PUSH/PULL CABLES



WORLD AMERICAN® #	DESCRIPTION
WADP-10	10' PUSH/PULL CABLE FOR DUMP PUMPS

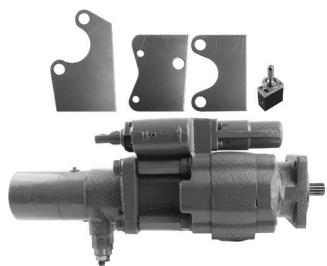
DUMP PUMP CABLE MOUNTING BRACKETS



WADPBC102L

WORLD AMERICAN® #	DESCRIPTION
WADPBC101	BRACKET FOR C101 DUMP PUMPS
WADPBC102L	BRACKET FOR C102 DUMP PUMPS
WADPBC102R	BRACKET FOR C102 DUMP PUMPS
WADPBG101	BRACKET FOR G101 DUMP PUMPS
WADPBG102L	BRACKET FOR G102 DUMP PUMPS
WADPBG102R	BRACKET FOR G102 DUMP PUMPS

COMBO PUMP - WALKING FLOOR/DUMP PUMP



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WAWFDPUMP	DUAL PRESSURE COMBINATION WALKING FLOOR/DUMP PUMP	DG20ZLAS-25/32

AIR TOGGLE SWITCH



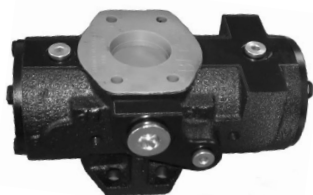
WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WAAIRSWITCH	TWO POSITION AIR TOGGLE SWITCH	N/A

DRY VALVE PUMP



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WADVLPUMP	DRY VALVE REFUGE PUMP	P76A578BEON2211DV 316-9610-246 97023A/97023A1 VP42-4COFL-FC55

DRY VALVE PUMP VALVE



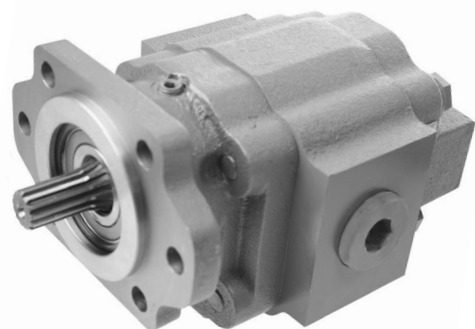
WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WADVVALVE	DRY VALVE FOR REFUGE	316-9414-001

MUNCIE® TO WORLD AMERICAN® PUMP CROSSOVER

WORLD AMERICAN® #	REPLACES MUNCIE® #
WAK20B4ANX	PK1-04-02-BPBB
WAK20B4KNX	PK1-04-09-BPBB
WAK20B6ANX	PK1-06-02-BPBB
WAK20B6KNX	PK1-06-09-BPBB
WAK20B8ANX	PK1-08-02-BPBB
WAK20B8KNX	PK1-08-09-BPBB
WAK20B11ANX	PK1-11-02-BPBB
WAK20B11KNX	PK1-11-09-BPBB
WAK20B13ANX	PK1-13-02-BPBB
WAK20B13KNX	PK1-13-09-BPBB
WAK20B15ANX	PK1-15-02-BPBB
WAK20B15KNX	PK1-15-09-BPBB
WAK20B17ANX	PK1-17-02-BPBB
WAK20B17AOX	PK1-17-02-BSBB
WAK20B17KNX	PK1-17-09-BPBB
WAL51B-19ANX	PL1-19-02-BPBB
WAL51B-19AOX	PL1-19-02-BSBB
WAL51B-19KNX	PL1-19-07-BPBB
WAL51B-23ANX	PL1-23-02-BPBB
WAL51B-23AOX	PL1-23-02-BSBB
WAL51B-23KNX	PL1-23-07-BPBB
WAL51B-25ANX	PL1-25-02-BPBB
WAL51B-25KNX	PL1-25-07-BPBB
WAL51B-27ANX	PL1-27-02-BPBB
WAL51B-27KNX	PL1-27-07-BPBB
WAL51B-27AOX	PL1-27-02-BSBB



WAK20B-15KNX

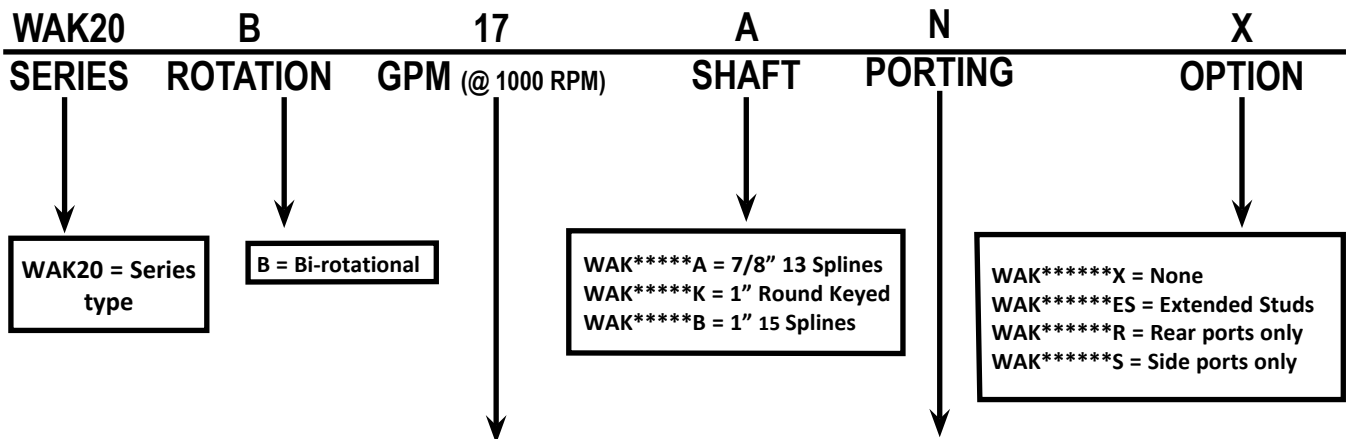


WAL51B-27ANX

WAK20B SERIES UNIVERSAL GEAR PUMPS

FEATURES

- Replaces All Commercial® P20 and Permco® 2100 Series Pumps
- Direct Replacement for the Muncie® MK Series Pumps
- Bi-Rotational
- Handles Pressures up to 3000 PSI
- Handles Speeds up to 3000 RPM
- Dual Porting Side and Rear
- Lower Stocking Quantities



GEAR WIDTH	GPM/LPM	CU.IN
1/2"	WAK***4 (15)	.924
3/4"	WAK***6 (23)	1.380
1"	WAK***8 (30)	1.970
1.25"	WAK***11 (42)	2.460
1.50"	WAK***13 (49)	2.950
1.75"	WAK***15 (57)	3.440
2"	WAK***17 (64)	3.940

WAK***4*N = 1/2" NPT Side Porting & 1" NPT Rear Porting
WAK***6*N = 3/4" NPT Side Porting & 1" NPT Rear Porting
WAK***8*N = 1" NPT Side Porting & 1" NPT Rear Porting
WAK***11*N = 1" NPT Side Porting & 1" NPT Rear Porting
WAK***13*N = 1-1/4" NPT Side Porting & 1" NPT Rear Porting
WAK***15*N = 1-1/4" NPT Side Porting & 1" NPT Rear Porting
WAK***17*N = 1-1/4" NPT Side Porting & 1" NPT Rear Porting
WAK***4*O = 5/8" ORB Side Porting & 1" ORB Rear Porting
WAK***6*O = 3/4" ORB Side Porting & 1" ORB Rear Porting
WAK***8*O = 1" ORB Side Porting & 1" ORB Rear Porting
WAK***11*O = 1" ORB Side Porting & 1" ORB Rear Porting
WAK***13*O = 1-1/4" ORB Side Porting & 1" ORB Rear Porting
WAK***15*O = 1-1/4" ORB Side Porting & 1" ORB Rear Porting
WAK***17*O = 1-1/4" ORB Side Porting & 1" ORB Rear Porting

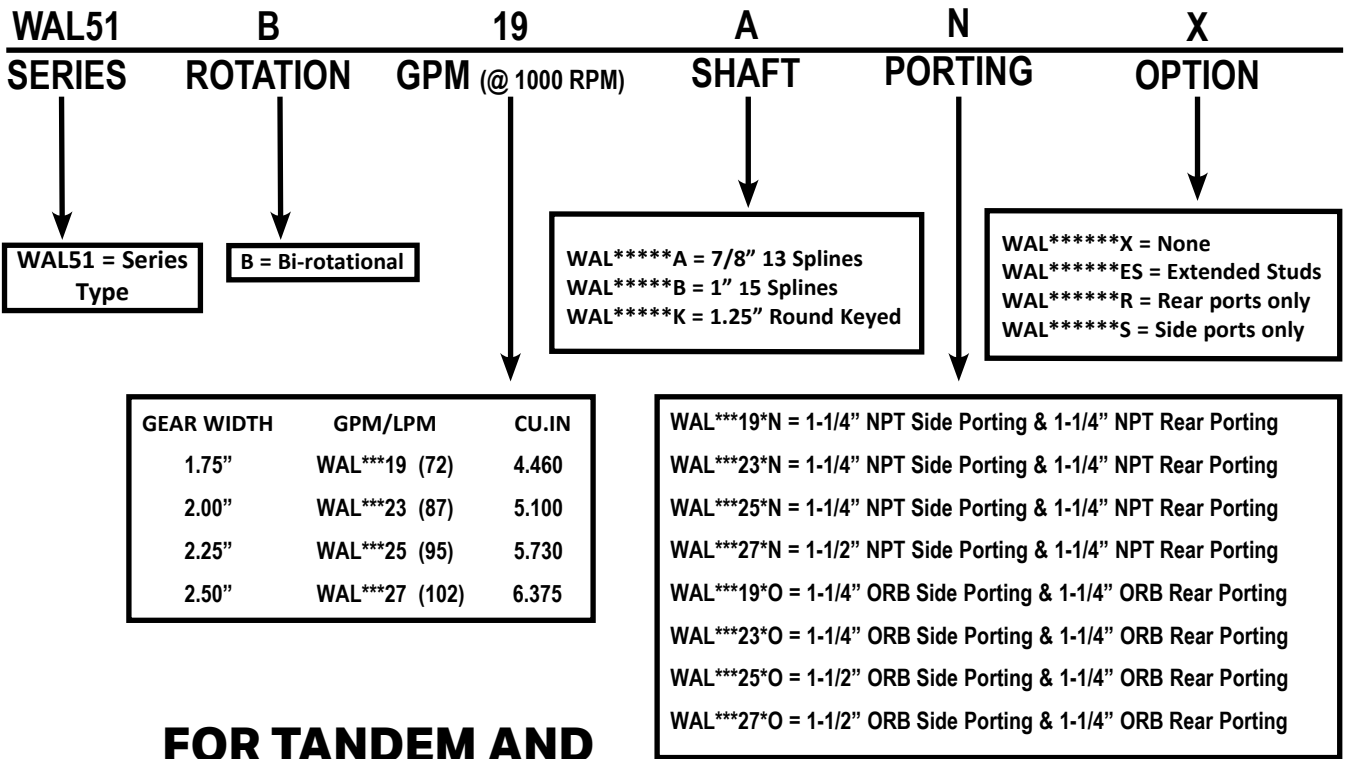
FOR TANDEM AND LARGER PUMPS SEE PAGES 36-37

NOTE: NPT - NATIONAL PIPE THREAD
ORB - O-RING BOSS

WAL51B SERIES UNIVERSAL GEAR PUMPS

FEATURES

- Replaces All Commercial® P50, P51 and Permco® 5100 Series Pumps
- Direct Replacement for the Muncie® ML Series Pumps
- Bi-Rotational
- Handles Pressures up to 3000 PSI
- Handles Speeds up to 3000 RPM
- Dual Porting Side and Rear
- Hi Flow Body Design for Increased Flow and Performance
- Lower Stocking Items



**FOR TANDEM AND
LARGER PUMPS
SEE PAGES 36-37**

NOTE: NPT - NATIONAL PIPE THREAD
ORB - O-RING BOSS

NOTE: PUMPS OVER 40LBS. MUST BE SUPPORTED WITH A BRACKET (SEE PAGE 30 FOR SUPPORT BRACKETS)

WAM76B SERIES UNIVERSAL GEAR PUMPS

FEATURES

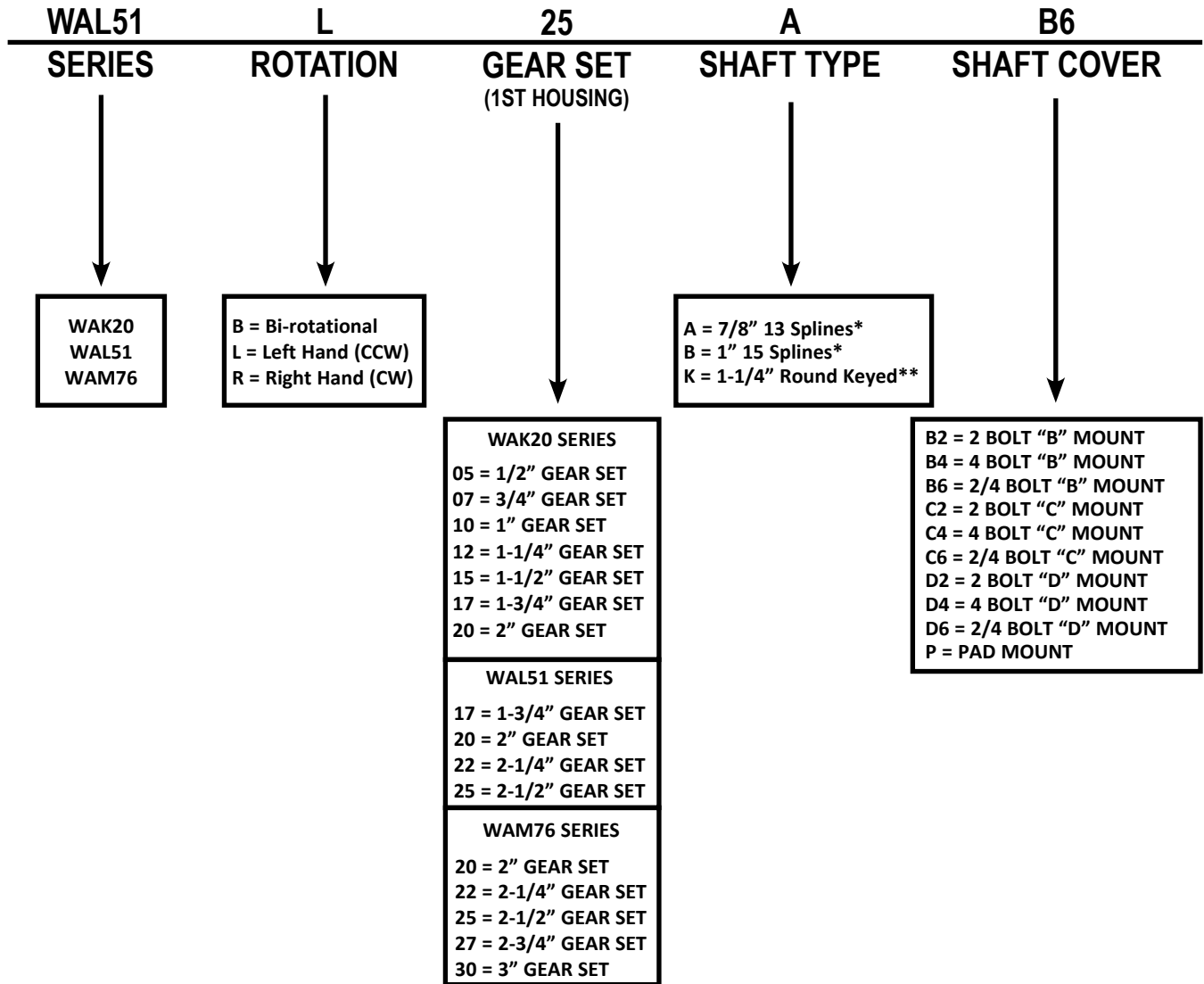
- Replaces all Commercial® P75, P76 and Permco® 7600 Series Pumps
- Direct Replacement for the Commercial® P76 series
- Handles Pressures Up To 2500 PSI
- Handles Speeds Up To 3000 RPM
- Hi Flow Body Design for Increased Flow and Performance
- Built to Your Requirements.

WAM76B SERIES UNIVERSAL GEAR PUMPS

WAM76 SERIES	B ROTATION	38 GPM (@ 1000 RPM)	A SHAFT	N PORTING	X OPTION																										
↓	↓	↓	↓	↓	↓																										
WAM76B - 2/4 Bolt, "B" Mounting Flange	B = Bi-Rotational L = Left Hand (CCW) R = Right Hand (CW)		WAM****C = 1-1/4" 14 Splines WAM****K = 1-1/4" Round Keyed		WAM*****X = None WAM*****ES = Extended Studs WAM*****R = Rear ports only WAM*****S = Side ports only																										
		↓		↓																											
		<table border="1"> <thead> <tr> <th>GEAR WIDTH</th> <th>GPM/LPM</th> <th>CU.IN</th> </tr> </thead> <tbody> <tr> <td>2.000"</td> <td>WAM***30 (114)</td> <td>8.200</td> </tr> <tr> <td>2.250"</td> <td>WAM***34 (127)</td> <td>9.220</td> </tr> <tr> <td>2.500"</td> <td>WAM***3 (144)</td> <td>10.250</td> </tr> <tr> <td>2.750"</td> <td>WAM***42 (159)</td> <td>11.270</td> </tr> <tr> <td>3.000"</td> <td>WAM***46 (175)</td> <td>12.300</td> </tr> </tbody> </table>	GEAR WIDTH	GPM/LPM	CU.IN	2.000"	WAM***30 (114)	8.200	2.250"	WAM***34 (127)	9.220	2.500"	WAM***3 (144)	10.250	2.750"	WAM***42 (159)	11.270	3.000"	WAM***46 (175)	12.300	<table border="1"> <tbody> <tr> <td>WAM***30*N = 1-1/4" NPT Side Porting</td> </tr> <tr> <td>WAM***34*N = 1-1/4" NPT Side Porting</td> </tr> <tr> <td>WAM***38*N = 1-1/4" NPT Side Porting</td> </tr> <tr> <td>WAM***42*N = 1-1/4" NPT Side Porting</td> </tr> <tr> <td>WAM***46*N = 1-1/2" NPT Side Porting</td> </tr> <tr> <td>WAM***34*O = 1-1/4" ORB Side Porting & 1-1/4" ORB Rear Porting</td> </tr> <tr> <td>WAM***38*O = 1-1/4" ORB Side Porting & 1-1/4" ORB Rear Porting</td> </tr> <tr> <td>WAM***42*O = 1-1/2" ORB Side Porting & 1-1/4" ORB Rear Porting</td> </tr> <tr> <td>WAM***46*O = 1-1/2" ORB Side Porting & 1-1/4" ORB Rear Porting</td> </tr> </tbody> </table>	WAM***30*N = 1-1/4" NPT Side Porting	WAM***34*N = 1-1/4" NPT Side Porting	WAM***38*N = 1-1/4" NPT Side Porting	WAM***42*N = 1-1/4" NPT Side Porting	WAM***46*N = 1-1/2" NPT Side Porting	WAM***34*O = 1-1/4" ORB Side Porting & 1-1/4" ORB Rear Porting	WAM***38*O = 1-1/4" ORB Side Porting & 1-1/4" ORB Rear Porting	WAM***42*O = 1-1/2" ORB Side Porting & 1-1/4" ORB Rear Porting	WAM***46*O = 1-1/2" ORB Side Porting & 1-1/4" ORB Rear Porting	
GEAR WIDTH	GPM/LPM	CU.IN																													
2.000"	WAM***30 (114)	8.200																													
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2.500"	WAM***3 (144)	10.250																													
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WAM***46*O = 1-1/2" ORB Side Porting & 1-1/4" ORB Rear Porting																															
					<p>NOTE: NPT - NATIONAL PIPE THREAD ORB - O-RING BOSS</p>																										
<p>FOR TANDEM AND LARGER PUMPS SEE PAGES 36-37</p>																															

NOTE: PUMPS OVER 40LBS. MUST BE SUPPORTED WITH A BRACKET (SEE PAGE 30 FOR SUPPORT BRACKETS)

TANDEM OR LARGER GEAR PUMPS



NOTES:

* NOT AVAILABLE IN WAM76 SERIES

** WAK20 WILL HAVE A 1" SHAFT

NPT = NATIONAL PIPE THREAD

ORB = O-RING BOSS THREAD

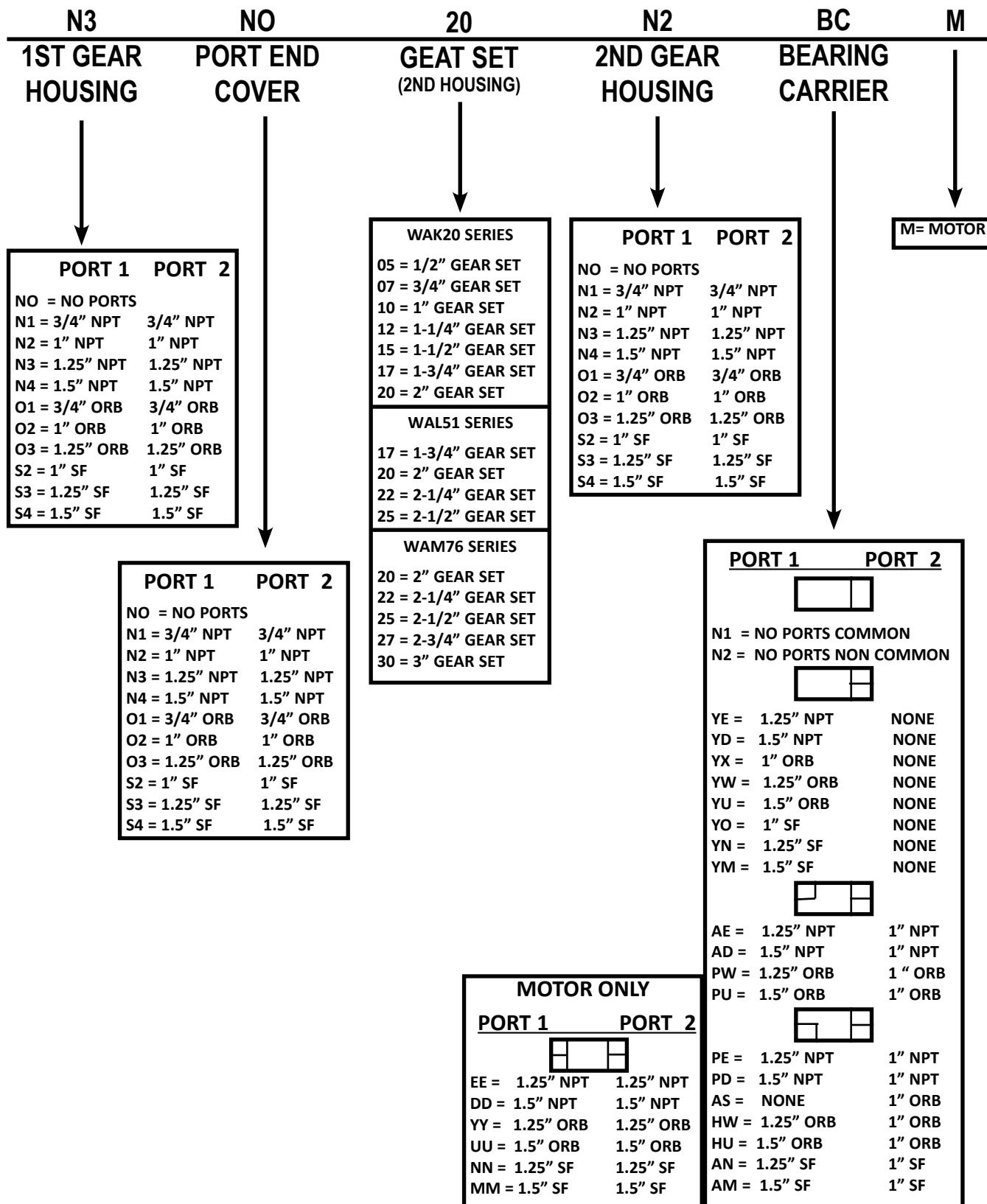
SF = SPLIT FLANGE PORTING

NOT ALL SIZES ARE AVAILABLE FOR EVERY SERIES.

CUSTOM PORTING IS AVAILABLE AND WILL CHANGE THE PART NUMBER.

PUMPS OVER 40LBS. MUST BE SUPPORTED WITH A BRACKET (SEE PAGE 30 FOR SUPPORT BRACKETS)

TANDEM OR LARGER GEAR PUMPS



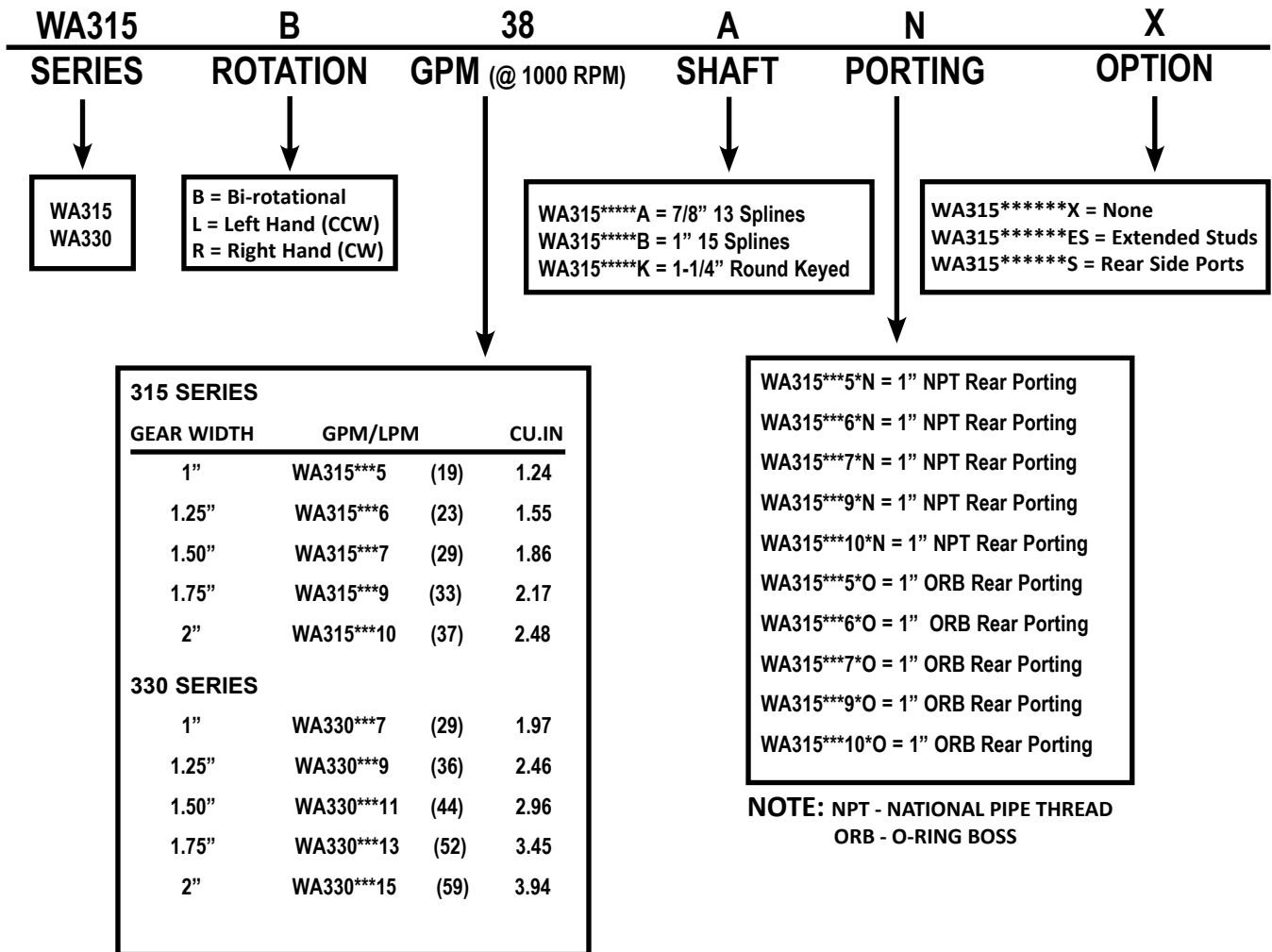
TANDEM OR LARGER GEAR PUMPS

WA315 & WA330 SERIES BUSHING STYLE GEAR PUMPS

FEATURES

- Replaces Commercial® P315, & P330 Series and Permco® Series Pumps.
- Handles Pressures up to 3500 PSI*
- Handles Speeds up to 3000 RPM
- Built to Your Requirements.

WA315 & WA330 SERIES BUSHING STYLE GEAR PUMPS



**FOR TANDEM AND
LARGER PUMPS
SEE PAGES 40-41**

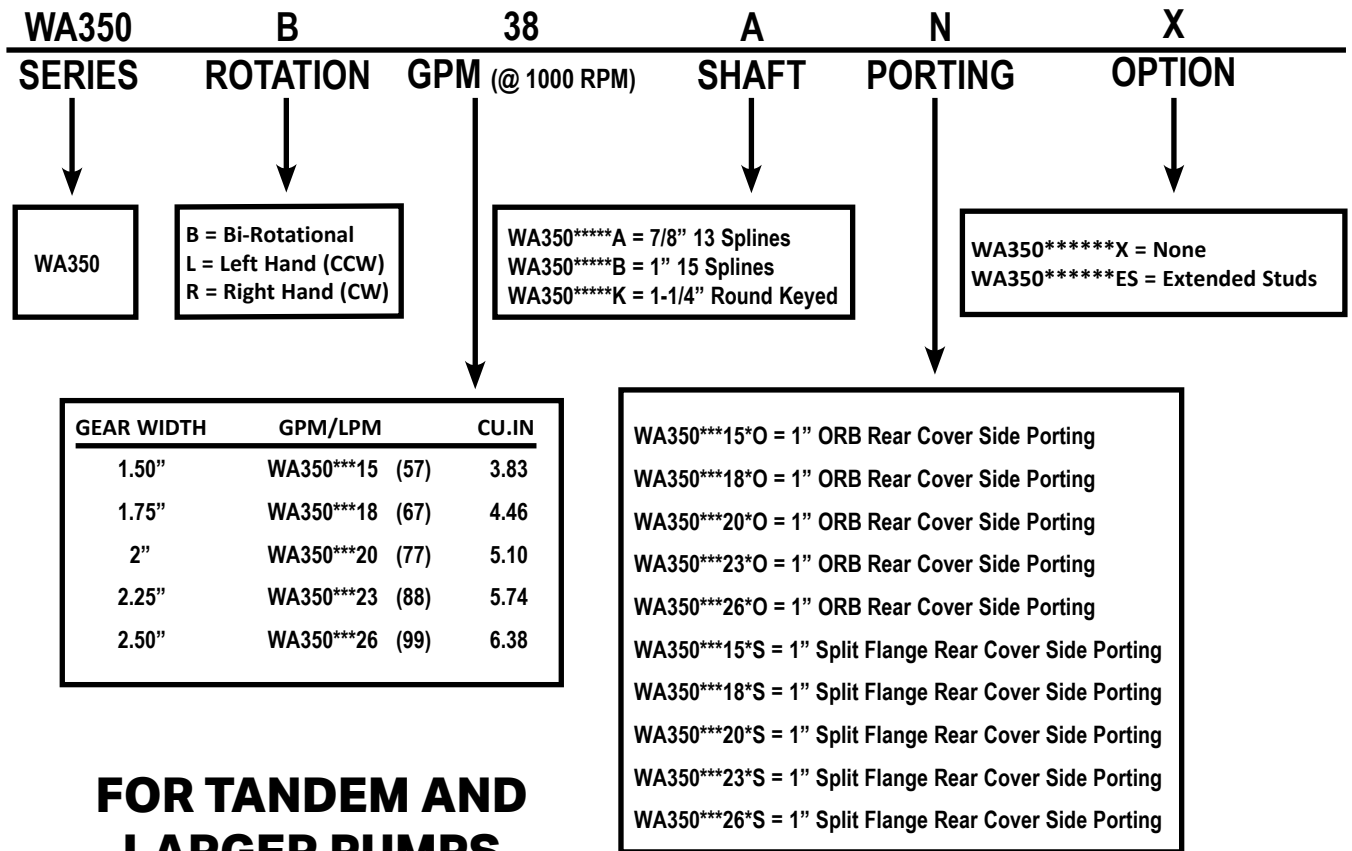
NOTE: PUMPS OVER 40LBS. MUST BE SUPPORTED WITH A BRACKET (SEE PAGE 30 FOR SUPPORT BRACKETS)

* 1-3/4" and 2" Wide Gears Have a 2900 and 2500 Max PSI.

WA350 SERIES BUSHING STYLE GEAR PUMPS

FEATURES

- Replaces Commercial® P350 and Permco® Series Pumps
- Handles Pressures up to 3500 PSI*
- Handles Speeds up to 3000 RPM
- Built to Your Requirements.



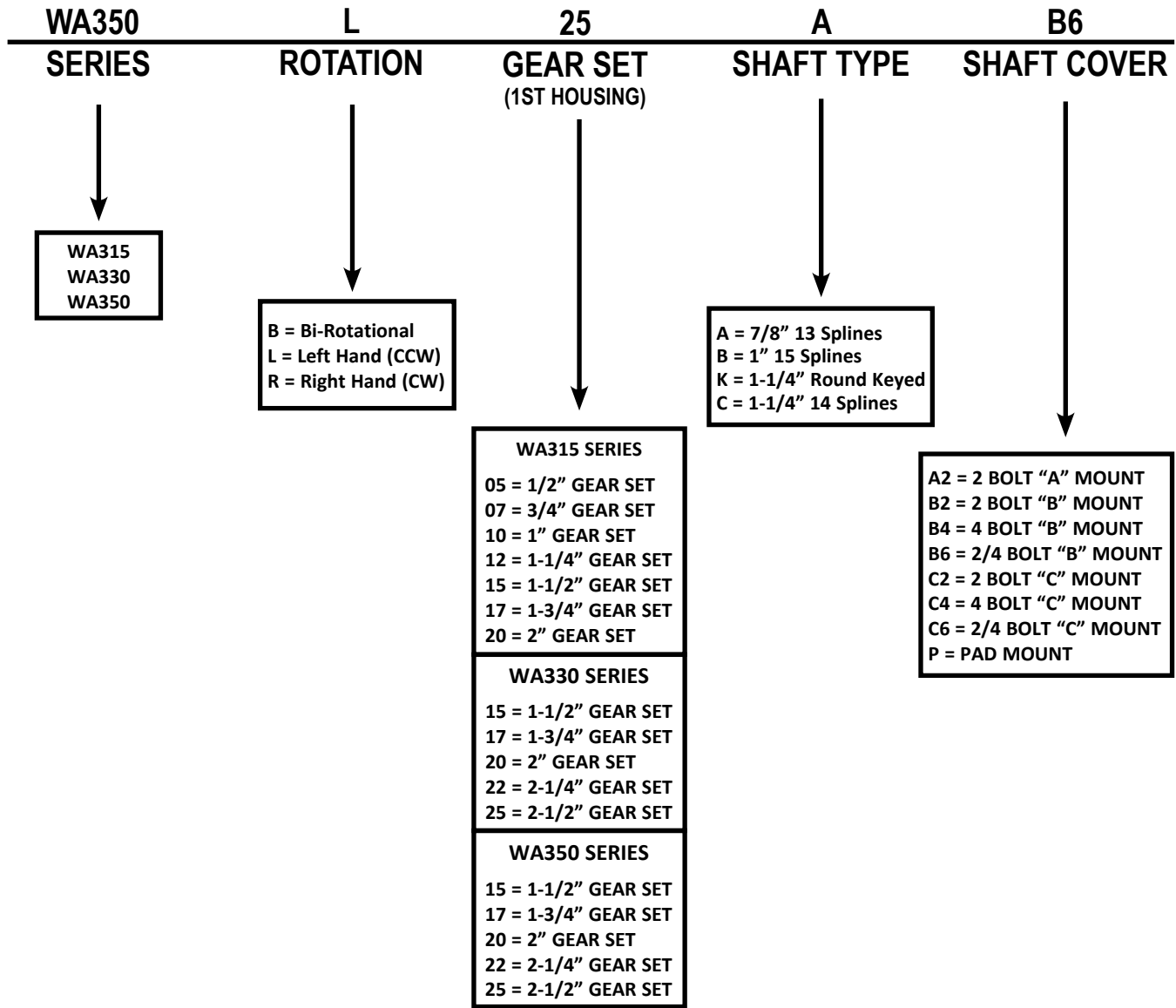
FOR TANDEM AND LARGER PUMPS SEE PAGES 40-41

NOTE: ORB - O-RING BOSS

NOTE: PUMPS OVER 40LBS. MUST BE SUPPORTED WITH A BRACKET (SEE PAGE 30 FOR SUPPORT BRACKETS)
* 2", 2-1/4" and 2-1/2" Wide Gears Have a 3000, 2750 and 2500 Max PSI.

TANDEM OR LARGER BUSHING SERIES GEAR PUMPS

TANDEM OR LARGER BUSHING SERIES GEAR PUMPS



NOTES:

NPT = NATIONAL PIPE THREAD

ORB = O-RING BOSS THREAD

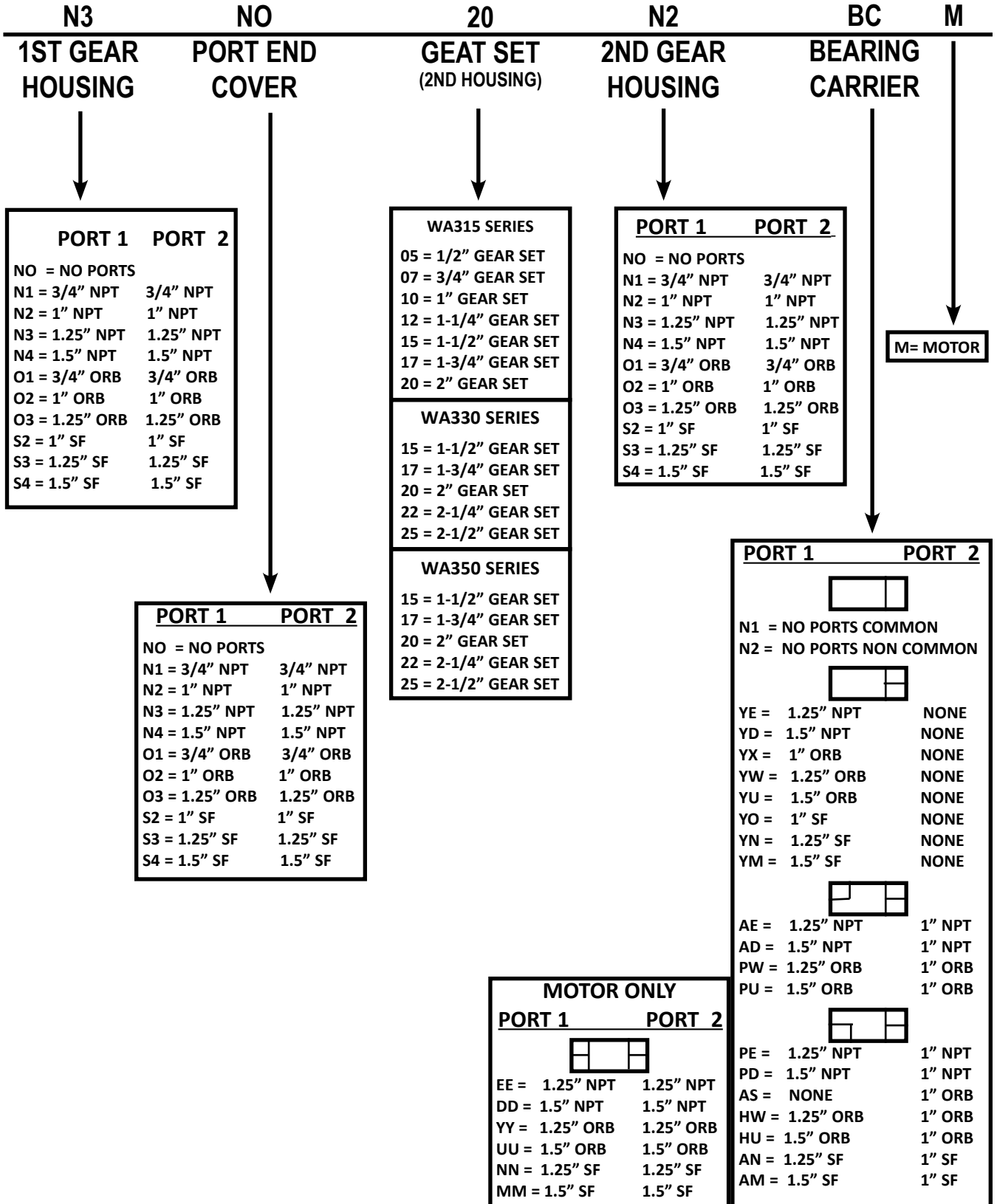
SF = SPLIT FLANGE PORTING

NOT ALL SIZES ARE AVAILABLE FOR EVERY SERIES.

CUSTOM PORTING IS AVAILABLE AND WILL CHANGE THE PART NUMBER.

PUMPS OVER 40LBS. MUST BE SUPPORTED WITH A BRACKET (SEE PAGE 30 FOR SUPPORT BRACKETS)

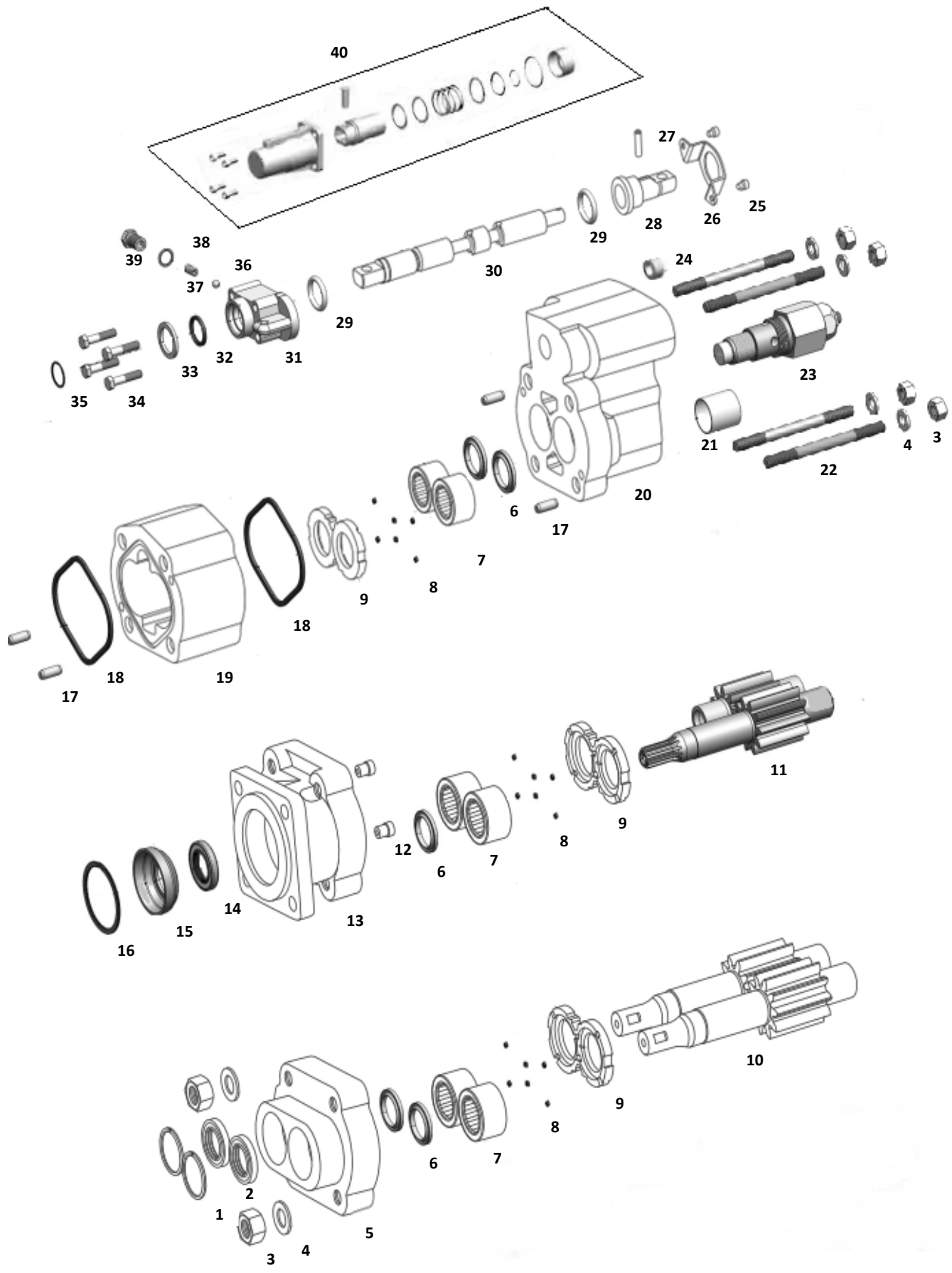
TANDEM OR LARGER BUSHING SERIES GEAR PUMPS



TANDEM OR LARGER BUSHING SERIES GEAR PUMPS

WAP101/102 "C" & "G" SERIES DUMP PUMP DIAGRAM

WAP101/102 "C" & "G" SERIES DUMP PUMP DIAGRAM



WA101/WA102 "C" SERIES DUMP PUMP DIAGRAM

#	WORLD AMERICAN® #	QTY WAP101	QTY WA102	DESCRIPTION	REPLACES OEM #
1	WA20-12-0001	2	N/A	SNAP RING	391-2861-493
2	WA20-12-0002	2	N/A	LIP SEAL	391-2883-096
3	WA20-51-5800	4	8	HEX NUT	391-1451-076
4	WA07-8105	4	4	WASHER	391-3784-028
5	WA20-12-0003	1	N/A	C101 SHAFT END COVER	314-5039-201
6	WA20-51-0120	4	3	RING SEAL	391-2585-009
7	WA20-51-0121	4	4	ROLLER BEARING	391-0381-059
8	WA20-51-0259	1	1	POCKET SEAL STRIP	391-2882-051
9	WA20-51-0123	2	2	THRUST PLATE	391-2185-012
10	WA20-12-1225	1	N/A	1" KEYED GEAR SET	314-2925-640
	WA20-20-0162	2	N/A	WOODRUFF KEY	391-1781-021
11	WA20-51-1325	N/A	1	7/8" 13 SPLINE GEAR SET	313-2925-230
12	WA20-20-0117	N/A	2	CHECK VALVES	391-3681-001
13	WA20-51-0129	N/A	1	C102 SHAFT END COVER	313-5033-435
14	WA20-51-0110	N/A	1	LIP SEAL	391-2883-115
15	WA20-51-0106	N/A	1	BEARING SPACER	391-3383-087
16	WA20-51-0104	N/A	1	SNAP RING	391-2686-065
17	WA20-51-0122	4	4	DOWEL PINS	391-2082-032
18	WA20-51-0203	2	2	HOUSING GASKETS	391-2884-021
19	WA20-12-0005	1	1	HOUSING	314-8025-100
20	WA20-12-0006	1	N/A	C101 PORT END COVER	314-3910-903
20	WA20-12-0007	N/A	1	C102 PORT END COVER	314-3910-904
21	WA20-12-0008	1	1	SLEEVE	391-3283-052
22	WA20-12-0011	4	4	BOLTS	391-1401-110
23	WA20-12-0010	1	1	RELIEF VALVE	355-9001-067
24	WA20-PLUG-0100	1	1	PIPE PLUG	391-2282-006
25	WA20-12-0024	2	2	CAP SCREWS	391-1402-063
26	WA20-12-0023	1	1	SPOOL BRACKET	391-0981-010
27	WA20-12-0022	1	1	PIN	391-2085-009
28	WA20-12-0025	1	1	SPOOL END CAP	391-1881-073
29	WA20-12-0026	2	2	SPOOL O-RING	391-2881-103
30	WA20-12-0021	1	1	SPOOL VALVE	314-4000-001
31	WA20-12-0016	1	1	DETENT CAP	314-0100-003
32	WA20-12-0015	1	1	WIPER RING	391-2883-147
33	WA20-12-0014	1	1	RETAINER RING	391-3782-126
34	WA20-12-0012	4	4	HEX BOLTS	391-1401-082
35	WA20-20-0013	1	1	SNAP RING	391-2688-003
36	WA20-12-0019	1	1	DETENT BALL	391-0282-009
37	WA20-12-0018	1	1	DETENT SPRING	391-0581-383
38	WA20-12-0017	1	1	LOCK WASHER	319-3788-002
39	WA20-12-0020	1	1	DETENT RETAINER	391-2583-079
40	SEE PG #30	N/A	N/A	AIR SHIFT	SEE PG # 30

WAP101/102 "C" SERIES DUMP PUMP DIAGRAM

WA101/WA102 "G" SERIES DUMP PUMP DIAGRAM

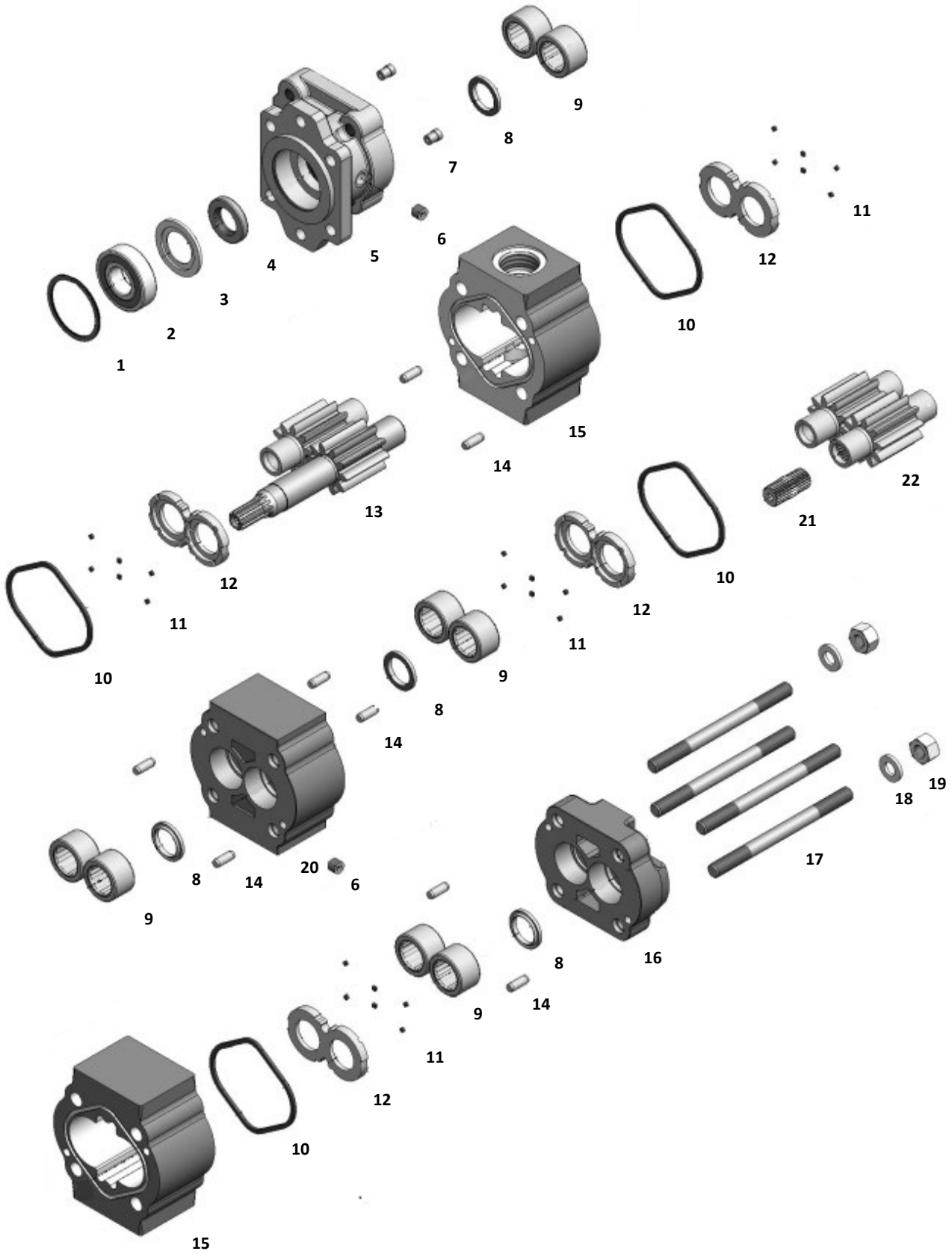
#	WORLD AMERICAN® #	QTY WAP101	QTY WA102	DESCRIPTION	REPLACES OEM #
1	WA20-12-0030	2	N/A	SNAP RING	391-2681-487
2	WA20-20-0107	2	N/A	LIP SEAL	391-2883-119
3	N/R				
4	WA07-8104	4	4	WASHER	391-3782-146
5	WA20-11-0003	1	N/A	G101 SHAFT END COVER	308-5016-201
6	WA20-20-0119	4	3	RING SEAL	391-2585-006
7	WA20-20-0120	4	4	ROLLER BEARING	391-0381-068
8	WA20-51-0259	1	1	POCKET SEAL STRIP	391-2882-051
9	WA20-20-0122	2	2	THRUST PLATE	391-2185-013
10	WA20-11-1225	1	N/A	1" KEYED GEAR SET	312-2920-842
N.I.	WA20-20-0162	2	N/A	WOODRUFF KEY	391-1781-021
11	WA20-20-1325	N/A	1	7/8" 13 SPLINE GEAR SET	312-2920-230
12	WA20-20-0117	N/A	2	CHECK VALVES	391-3681-001
13	WA20-20-0112	N/A	1	G102 SHAFT END COVER	308-5030-201
14	WA20-20-0107	N/A	1	LIP SEAL	391-2883-119
15	WA20-20-0103	N/A	1	SEAL RETAINER	391-3381-040
N.I.	WA20-20-0101	N/A	1	BEARINGS PACER	391-3383-069
16	WA20-20-0100	N/A	1	SNAP RING	391-2686-063
17	WA20-20-0121	4	4	DOWEL PINS	391-2082-071
18	WA20-20-0204	2	2	HOUSING GASKETS	391-2884-019
19	WA20-11-0005	1	1	HOUSING	308-8020-901
20	WA20-11-0006	1	N/A	G101 PORT END COVER	308-3910-902
20	WA20-11-0007	N/A	1	G102 PORT END COVER	308-3910-901
21	WA20-12-0008	1	1	SLEEVE	391-3283-052
22	WA20-11-0011	4	4	BOLTS	391-1401-382
23	WA20-11-0010	1	1	RELIEF VALVE	355-9001-197
24	WA20-PLUG-0075	1	1	PIPE PLUG	391-2282-003
25	WA20-12-0024	2	2	CAP SCREWS	391-1402-063
26	WA20-11-0023	1	1	SPOOL BRACKET	391-0981-007
27	WA20-12-0022	1	1	PIN	391-2085-009
28	WA20-11-0025	1	1	SPOOL END CAP	391-1881-072
29	WA20-12-0031	2	2	SPOOL O-RING	391-1985-014

WA101/WA102 "G" SERIES DUMP PUMP DIAGRAM

#	WORLD AMERICAN® #	QTY WAP101	QTY WA102	DESCRIPTION	REPLACES OEM #
30	WA20-11-0021	1	1	SPOOL VALVE	308-4000-001
31	WA20-11-0016	1	1	DETENT CAP	308-4000-102
32	WA20-11-0015	1	1	WIPER RING	391-2883-152
33	N/R				
34	WA20-11-0012	4	4	HEX BOLTS	391-1433-020
35	N/R				
36	WA20-12-0019	1	1	DETENT BALL	391-0282-009
37	WA20-12-0018	1	1	DETENT SPRING	391-3581-383
38	WA20-12-0017	1	1	LOCK WASHER	391-3788-002
39	WA20-12-0020	1	1	DETENT RETAINER	391-2583-079
40	SEE PG # 30			AIR SHIFT KIT	SEE PG # 30
N.I.	WA20-11-0030	1	1	COVER PLATE	391-2183-124

SEE PAGE 30 FOR AIR SHIFTER AND SEAL KIT

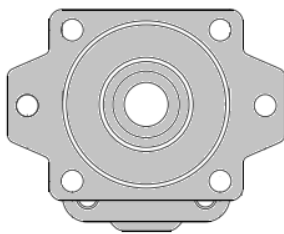
WAK20 SERIES DIAGRAM



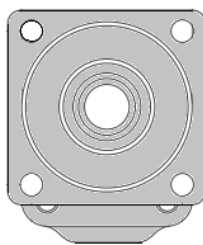
WAK20 SERIES DIAGRAM

WAK20 SERIES DIAGRAM

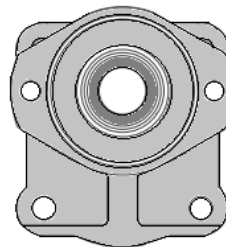
#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
1	WA20-20-0100	SNAP RING	391-2686-063
2	WA20-20-0102	BEARING	391-0381-040
3	WA20-20-0103	SEAL RETAINER	391-3381-040
4	WA20-20-0107	MOTOR SEAL	391-2883-119
5	SEE CHART 1	SHAFT END COVER	SEE CHART 1
6	WA20-PLUG-0004	CASE DRAIN PLUG	391-2282-056
7	WA20-20-0117	CHECK VALVE	391-3681-001
8	WA20-20-0119	RING SEAL	391-2585-006
9	WA20-20-0120	ROLLER BEARINGS	391-0381-068
10	WA20-20-0204	HOUSING GASKET	391-2884-019
11	WA20-20-0259	POCKET SEAL	391-2882-051
12	WA20-20-0122	THRUST PLATE	391-2185-013
13	SEE CHART 2	GEAR SET	SEE CHART 2
14	WA20-20-0121	DOWEL PINS	391-2082-071
15	SEE CHART 3	HOUSING	SEE CHART 3
16	WA20-20-0133	PORT END COVER	308-3100-100
17	SEE CHART 4	STUDS	SEE CHART 4
18	WA07-8104	WASHERS	391-3782-146
19	WA20-20-0257	HEX NUTS	391-1451-115
20	SEE CHART 5	BEARING CARRIER (FOR TANDEM UNITS)	SEE CHART 5
21	WA20-20-0203	CONNECTING SHAFT (FOR TANDEM UNITS)	312-1133-001
22	SEE CHART 6	GEAR SET (FOR TANDEM & CONTINENTAL UNITS)	SEE CHART 6
N.I.	SEE CHART 7	CONTINENTAL INPUT SHAFTS	SEE CHART 7
N.I.	WA20-20-0194	CONTINENTAL SHAFT BEARING RETAINER	312-0100-002
N.I.	WA20-20-0195	CONTINENTAL SHAFT BRG RETAINER SNAP RING	391-2685-011
N.I.	WA20-20-0106	PUMP SEAL	391-2883-058



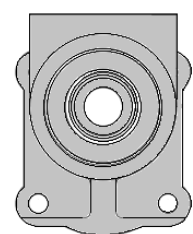
A



B



C



D

WAK20 SERIES CHART 1- SHAFT END COVERS

#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
A	WA20-20-0108	2/4 BOLT "B" SHAFT END COVER	308-5053-402
B	WA20-20-0112	4 BOLT "B" SHAFT END COVER	308-5030-401
C	WA20-20-0109	2 BOLT "A" SHAFT END COVER	308-5020-404
C	WA20-20-0114	2 BOLT "B" SHAFT END COVER	308-5030-401
D	WA20-20-0111	PAD MOUNT SHAFT END COVER	308-5016-203

WAK20 SERIES CHART 2- GEAR SETS



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-20-1305	7/8" 13 SPLINE GEAR SET 1/2"	312-2905-230
WA20-20-1307	7/8" 13 SPLINE GEAR SET 3/4"	312-2907-230
WA20-20-1310	7/8" 13 SPLINE GEAR SET 1"	312-2910-230
WA20-20-1312	7/8" 13 SPLINE GEAR SET 1-1/4"	312-2912-230
WA20-20-1315	7/8" 13 SPLINE GEAR SET 1-1/2"	312-2915-230
WA20-20-1317	7/8" 13 SPLINE GEAR SET 1-3/4"	312-2917-230
WA20-20-1320	7/8" 13 SPLINE GEAR SET 2"	312-2920-230

WA20-20-1005	1" ROUND WITH KEYWAY GEAR SET 1/2"	312-2905-740
WA20-20-1007	1" ROUND WITH KEYWAY GEAR SET 3/4"	312-2907-740
WA20-20-1010	1" ROUND WITH KEYWAY GEAR SET 1"	312-2910-740
WA20-20-1012	1" ROUND WITH KEYWAY GEAR SET 1-1/4"	312-2912-740
WA20-20-1015	1" ROUND WITH KEYWAY GEAR SET 1-1/2"	312-2915-740
WA20-20-1017	1" ROUND WITH KEYWAY GEAR SET 1-3/4"	312-2917-740
WA20-20-1020	1" ROUND WITH KEYWAY GEAR SET 2"	312-2920-740

WAK20 SERIES CHART 3- HOUSINGS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-20-0208	1/2" BLANK HOUSING	308-8205-100
WA20-20-0209	3/4" BLANK HOUSING	308-8207-100
WA20-20-0171	1" BLANK HOUSING	308-8210-100
WA20-20-2010	1-1/4" HOUSING	308-8212-100
WA20-20-2011	1-1/2" BLANK HOUSING	308-8215-100
WA20-20-2012	1-3/4" BLANK HOUSING	308-8217-100
WA20-20-0172	2" BLANK HOUSING	308-8220-100
WA20-20-0213	1/2" HOUSING WITH 1/2" NPT PORTS	308-8005-104
WA20-20-0215	3/4" HOUSING WITH 3/4" NPT PORTS	308-8007-116
WA20-20-0221	1" HOUSING WITH 1" NPT PORTS	308-8010-127
WA20-20-0222	1-1/4" HOUSING WITH 1" NPT PORTS	308-8012-127
WA20-20-0226	1-1/2" HOUSING WITH 1 1/4" NPT PORTS	308-8015-132
WA20-20-0227	1-3/4" HOUSING WITH 1 1/4" NPT PORTS	308-8017-132
WA20-20-0228	2" HOUSING WITH 1 1/4" NPT PORTS	308-8020-132
WA20-20-0229	3/4" HOUSING WITH 12 ORB PORTS	308-8007-316
WA20-20-0235	1" HOUSING WITH 16 ORB PORTS	308-8010-327
WA20-20-0236	1-1/4" HOUSING WITH 16 ORB PORTS	308-8012-327
WA20-20-0240	1-1/2" HOUSING WITH 20 ORB PORTS	308-8015-332
WA20-20-0241	1-3/4" HOUSING WITH 20 ORB PORTS	308-8017-332
WA20-20-0242	2" HOUSING WITH 20 ORB PORTS	308-8020-332

WAK20 SERIES CHART 4- STUDS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-20-0250	9/16" -12 X 4.00" BOLT FOR 1/2" & 3/4" HOUSING	391-1401-379
WA20-20-0252	9/16" -12 X 4.50" BOLT FOR 1" & 1-1/4" HOUSING	391-1401-385
WA20-20-0254	9/16" -12 X 5.00" BOLT FOR 1-1/2" & 1-3/4" HOUSING	391-1401-381
WA20-20-0256	9/16" -12 X 5.50" BOLT FOR 2" HOUSING	391-1401-382
WA20-20-0265	9/16" -12 X 7-1/4" STUD FOR SMALL TANDEM PUMPS	N/A
WA20-20-0266	9/16" -12 X 10" STUD FOR MEDIUM TANDEM PUMPS	391-1425-323
WA20-20-0262	9/16" -12 X 12-1/4" STUD FOR LARGE TANDEM PUMPS	N/A

WAK20 SERIES CHART 5- BEARING CARRIERS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-20-0243	BEARING CARRIER NO COMMON SUCTION BLANK	308-7300-100
WA20-20-0244	BEARING CARRIER WITH COMMON SUCTION BLANK	308-7363-100
WA20-20-0264	BEARING CARRIER W/ COMMON SUCTION 1 1/2" NPT SGL INLET	308-7363-136

WAK20 SERIES CHART 6- CONTINENTAL GEAR SETS



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-20-0196	1/2" GEAR SET	312-2805-000
WA20-20-0197	3/4" GEAR SET	312-2807-000
WA20-20-0198	1" GEAR SET	312-2810-000
WA20-20-0199	1-1/4" GEAR SET	312-2812-000
WA20-20-0200	1-1/2" GEAR SET	312-2815-000
WA20-20-0201	1-3/4" GEAR SET	312-2817-000
WA20-20-0202	2" GEAR SET	312-2820-000

WAK20 SERIES CHART 7- CONTINENTAL INPUT SHAFTS



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-20-0169	7/8" 13 SPLINE	312-1135-138
WA20-20-0193	1" 15 SPLINE	312-1000-401
WA20-20-0179	3/4" ROUND KEYED	312-1135-152
WA20-20-0207	7/8" ROUND KEYED	312-1135-192
WA20-20-0185	1" ROUND KEYED	312-1500-400
WA20-20-0186	1-1/4" ROUND KEYED	312-1500-500

WAK20 SERIES SEAL & REPAIR KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-20-RPKT	P20 REPAIR KIT	391-1802-217
WA20-20-7815	P20 REBUILD KIT 1.5" HOUSING & GEAR SET 13 SPLINE	399-1362-515
WA20-20-7817	P20 REBUILD KIT 1.75" HOUSING & GEAR SET 13 SPLINE	399-1362-517
WA20-20-7820	P20 REBUILD KIT 2" HOUSING & GEAR SET 13 SPLINE	399-1362-520
WA20-20-7415	P20 REBUILD KIT 1.5" HOUSING & GEAR SET 1" ROUND	399-1364-315
WA20-20-7417	P20 REBUILD KIT 1.75" HOUSING & GEAR SET 1" ROUND	399-1364-317
WA20-20-7420	P20 REBUILD KIT 2" HOUSING & GEAR SET 1" ROUND	399-1364-320
WA20-20-SLKT	SEAL KIT	391-7802-584
WA20-20-SLKTD	TANDEM PUMP SEAL KIT	391-1802-791



WA20-20-1320

REPAIR KIT CONTENTS

- HOUSING GASKETS
- SHAFT BEARING
- LIP SEAL
- SNAP RING
- RETAINER
- POCKET SEAL

REBUILD KIT CONTENTS

- HOUSING
- GEAR SET
- THRUST PLATES
- BEARINGS
- SNAP RING
- RETAINER
- LIP SEAL
- HOUSING GASKETS
- POCKET SEALS
- RING SEAL

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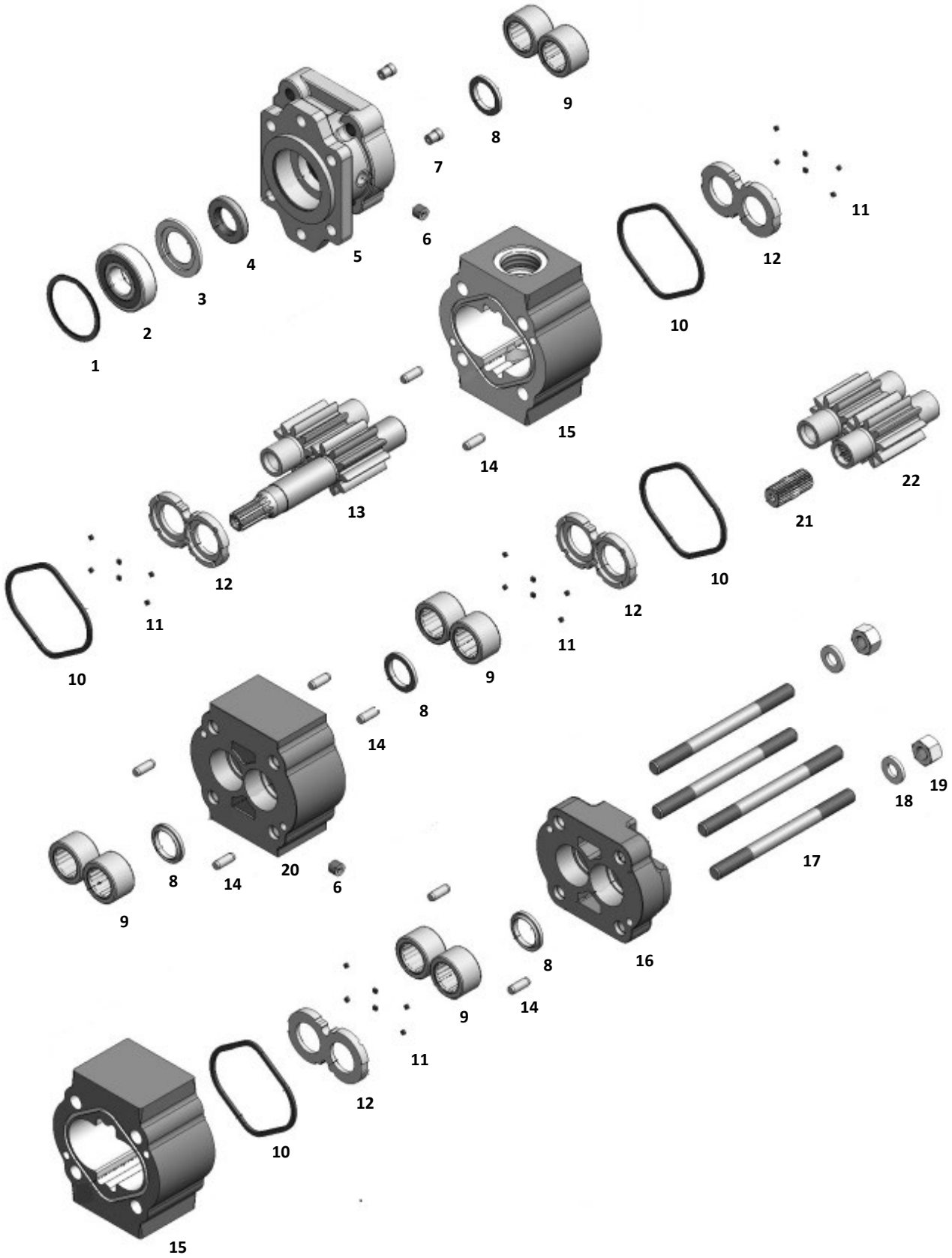
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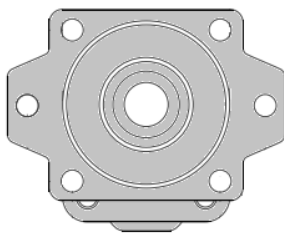
WAL51 SERIES DIAGRAM



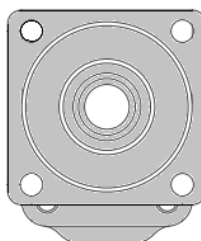
WAL51 SERIES DIAGRAM

WA51 SERIES DIAGRAM

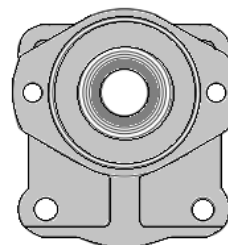
#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
1	WA20-51-0104	SNAP RING	391-2686-065
2	WA20-51-0105	BEARING	391-0381-077
3	WA20-51-0107	SEAL RETAINER	391-3383-020
4	WA20-51-0110	SEAL	391-2883-115
5	SEE CHART 1	SHAFT END COVER	SEE CHART 1
6	WA20-PLUG-0004	CASE DRAIN PLUG	391-2282-056
7	WA20-20-0117	CHECK VALVE	391-3681-001
8	WA20-51-0120	RING SEAL	391-2585-009
9	WA20-51-0121	ROLLER BEARINGS	391-0381-059
10	WA20-51-0203	HOUSING GASKET	391-2884-021
11	WA20-20-0259	POCKET SEAL	391-2882-051
12	WA20-51-0123	THRUST PLATE	391-2185-012
13	SEE CHART 2	GEAR SET	SEE CHART 2
14	WA20-51-0122	DOWEL PINS	391-2082-032
15	SEE CHART 3	HOUSING	SEE CHART 3
16	WA20-51-0262	PORT END COVER	313-3120-100
17	SEE CHART 4	STUDS	SEE CHART 4
18	WA07-8105	WASHERS	391-3784-028
19	WA20-51-5800	HEX NUTS	391-1451-076
20	SEE CHART 5	BEARING CARRIER (FOR TANDEM UNITS)	SEE CHART 5
21	WA20-51-0202	CONNECTING SHAFT (FOR TANDEM UNITS)	313-1133-001
22	SEE CHART 6	GEAR SET (FOR TANDEM & CONTINENTAL UNITS)	SEE CHART 6
N.I.	SEE CHART 7	CONTINENTAL INPUT SHAFTS	SEE CHART 7
N.I.	WA20-20-0193	CONTINENTAL SHAFT BEARING RETAINER	391-3381-046
N.I.	WA20-20-0194	CONTINENTAL SHAFT BRG RETAINER SNAP RING	391-2685-040
N.I.	WA20-50-0109	PUMP SEAL	391-2883-103



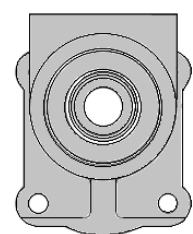
A



B



C



D

WA51 SERIES CHART 1- SHAFT END COVERS

#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
A	WA20-51-0111	2/4 BOLT "B" SHAFT END COVER	313-5057-401
B	WA20-51-0129	4 BOLT "B" SHAFT END COVER	313-5037-401
C	WA20-51-0112	2 BOLT "B" SHAFT END COVER	313-5027-401
B	WA20-51-0116	4 BOLT "C" SHAFT END COVER	313-5037-402
D	WA20-51-0117	PAD MOUNT SHAFT END COVER	313-5017-401



WAL51 SERIES CHART 2- GEAR SETS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-51-1312	7/8" 13 SPLINE GEAR SET 1-1/4"	313-2912-230
WA20-51-1315	7/8" 13 SPLINE GEAR SET 1-1/2"	313-2915-230
WA20-51-1317	7/8" 13 SPLINE GEAR SET 1-3/4"	313-2917-230
WA20-51-1320	7/8" 13 SPLINE GEAR SET 2"	313-2920-230
WA20-51-1322	7/8" 13 SPLINE GEAR SET 2-1/4"	313-2922-230
WA20-51-1325	7/8" 13 SPLINE GEAR SET 2-1/2"	313-2925-230
WA20-51-1212	1-1/4" ROUND WITH KEYWAY GEAR SET 1-1/4"	313-2912-750
WA20-51-1215	1-1/4" ROUND WITH KEYWAY GEAR SET 1-1/2"	313-2915-750
WA20-51-1217	1-1/4" ROUND WITH KEYWAY GEAR SET 1-3/4"	313-2917-750
WA20-51-1220	1-1/4" ROUND WITH KEYWAY GEAR SET 2"	313-2920-750
WA20-51-1222	1-1/4" ROUND WITH KEYWAY GEAR SET 2-1/4"	313-2922-750
WA20-51-1225	1-1/4" ROUND WITH KEYWAY GEAR SET 2-1/2"	313-2925-750
WA20-51-1517	1" 15 SPLINE GEAR SET 1-3/4"	313-2917-240
WA20-51-1520	1" 15 SPLINE GEAR SET 2"	313-2920-240
WA20-51-1522	1" 15 SPLINE GEAR SET 2-1/4"	313-2922-240
WA20-51-1525	1" 15 SPLINE GEAR SET 2-1/2"	313-2925-240

WAL51 SERIES CHART 3- HOUSINGS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-51-0207	1-1/4" BLANK HOUSING	313-8212-100
WA20-51-0208	1-1/2" BLANK HOUSING	313-8215-100
WA20-51-0209	1-3/4" BLANK HOUSING	313-8217-100
WA20-51-0210	2" BLANK HOUSING	313-8220-100
WA20-51-0211	2-1/4" BLANK HOUSING	313-8222-100
WA20-51-0212	2-1/2" BLANK HOUSING	313-8225-100
WA20-51-0225	1-1/2" HOUSING WITH 1-1/4" NPT PORTS	313-8215-132
WA20-51-0226	1-3/4" HOUSING WITH 1-1/4" NPT PORTS	313-8217-132
WA20-51-0227	2" HOUSING WITH 1-1/4" NPT PORTS	313-8220-132
WA20-51-0228	2-1/4" HOUSING WITH 1-1/4" NPT PORTS	313-8222-132
WA20-51-0236	2-1/2" HOUSING WITH 1-1/2" NPT PORTS	313-8225-137
WA20-51-0245	1-1/2" HOUSING WITH 16 ORB PORTS	313-8215-327
WA20-51-0246	1-3/4" HOUSING WITH 16 ORB PORTS	313-8217-327
WA20-51-0103	2" HOUSING WITH 20 ORB PORTS	313-8220-332
WA20-51-0251	2-1/4" HOUSING WITH 20 ORB PORTS	313-8222-332
WA20-51-0229	2-1/2" HOUSING WITH 20 ORB PORTS	313-8225-332

WAL51 SERIES CHART 4- STUDS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-51-0102	5/8" 11 X 8" STUD	391-1425-092
WA20-51-0280	5/8" 11 X 8-3/4" STUD	391-1425-002
WA20-51-0281	5/8" 11 X 9" STUD	391-1425-003
WA20-51-0282	5/8" 11 X 9-1/2" STUD	391-1425-005
WA20-51-0284	5/8" 11 X 10" STUD	391-1425-007
WA20-51-0285	5/8" 11 X 10-1/2" STUD	391-1425-009
WA20-51-0315	5/8" 11 X 11-1/4" STUD	391-1425-012
WA20-51-0307	5/8" 11 X 12" STUD	391-1425-015
WA20-51-0300	5/8" 11 X 12-1/4" STUD	391-1425-016
WA20-51-0311	5/8" 11 X 13-1/4" STUD	391-1425-020
WA20-51-0318	5/8" 11 X 14" STUD	391-1425-023
WA20-51-0297	5/8" 11 X 14-1/4" STUD	391-1425-024
WA20-51-0292	5/8" 11 X 16" STUD	391-1425-031

WAL51 SERIES CHART 5- BEARING CARRIERS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-51-0260	BEARING CARRIER NO COMMON SUCTION BLANK	313-7740-100
WA20-51-0261	BEARING CARRIER WITH COMMON SUCTION BLANK	313-7723-100

WAL51 SERIES CHART 6- CONTINENTAL GEAR SETS



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-51-0196	1-1/4" GEAR SET	313-2812-000
WA20-51-0197	1-1/2" GEAR SET	313-2815-000
WA20-51-0198	1-3/4" GEAR SET	313-2817-000
WA20-51-0199	2" GEAR SET	313-2820-000
WA20-51-0200	2-1/4" GEAR SET	313-2822-000
WA20-51-0201	2-1/2" GEAR SET	313-2825-000

WAL51 SERIES CHART 7- CONTINENTAL INPUT SHAFTS



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-51-0184	7/8" 13 SPLINE	313-1000-300
WA20-51-0100	1" 15 SPLINE	313-1000-400
WA20-51-0187	1-1/4" ROUND WITH KEYWAY	313-1000-500
WA20-51-0186	1-1/4" 14 SPLINE	313-1135-194

WAL51 SERIES SEAL AND REPAIR KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-51-RPKT	P50 REPAIR KIT	391-1802-174
WA20-51-7815	P50 REBUILD KIT 1.5" HOUSING & GEAR SET 13 SPLINES	399-1382-515
WA20-51-7817	P50 REBUILD KIT 1.75" HOUSING & GEAR SET 13 SPLINES	399-1382-517
WA20-51-7820	P50 REBUILD KIT 2" HOUSING & GEAR SET 13 SPLINES	399-1382-520
WA20-51-2415	P50 REBUILD KIT 1.5" HOUSING & GEAR SET 15 SPLINES	399-1384-315
WA20-51-2417	P50 REBUILD KIT 1.75" HOUSING & GEAR SET 15 SPLINES	399-1384-517
WA20-51-2420	P50 REBUILD KIT 2" HOUSING & GEAR SET 15 SPLINES	399-1384-320
WA20-51-7415	P50 REBUILD KIT 1.5" HOUSING & GEAR SET 1.25" ROUND	399-1380-715
WA20-51-7417	P50 REBUILD KIT 1.75" HOUSING & GEAR SET 1.25" ROUND	399-1380-717
WA20-51-7420	P50 REBUILD KIT 2" HOUSING & GEAR SET 1.25" ROUND	399-1380-720
WA20-51-2515	P50 REBUILD KIT 1.5" HOUSING & GEAR SET 14 SPLINES	399-1381-115
WA20-51-2517	P50 REBUILD KIT 1.75" HOUSING & GEAR SET 14 SPLINES	399-1381-117
WA20-51-2520	P50 REBUILD KIT 2" HOUSING & GEAR SET 14 SPLINES	399-1381-120
WA20-51-SLKT	SEAL KIT	391-1802-137
WA20-51-SLKTD	TANDEM PUMP SEAL KIT	391-1832-788



WA399-1382-520

REPAIR KIT CONTENTS

- HOUSING GASKETS
- SHAFT BEARING
- LIP SEAL
- SNAP RING
- RETAINER
- POCKET SEAL

REBUILD KIT CONTENTS

- HOUSING
- GEAR SET
- THRUST PLATES
- BEARINGS
- SNAP RING
- RETAINER
- LIP SEAL
- HOUSING GASKETS
- POCKET SEALS
- RING SEAL

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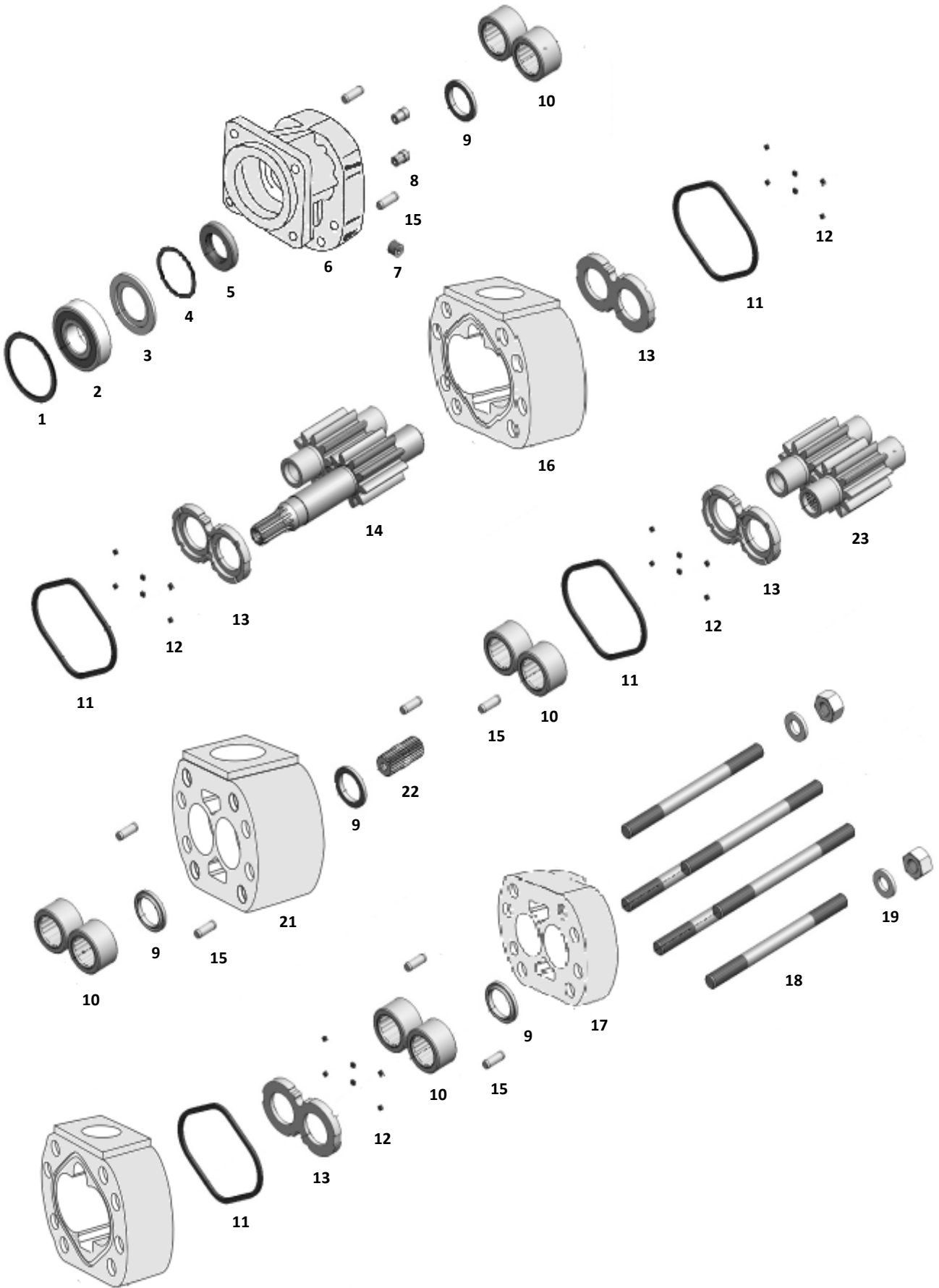
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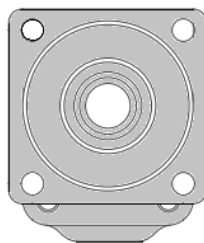
WAM76 SERIES DIAGRAM



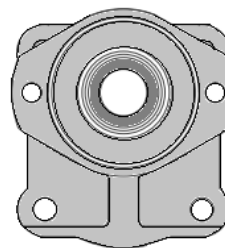
WAM76 SERIES DIAGRAM

WAM76 SERIES DIAGRAM

#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
1	WA20-76-0002	SNAP RING	391-2686-025
2	WA20-76-0003	BEARING	391-0381-078
3	WA20-76-0005	SEAL RETAINER	391-2584-051
4	WA20-76-0006	O-RING	391-2881-457
5	WA20-76-0008	SEAL	391-2883-094
6	SEE CHART 1	SHAFT END COVER	SEE CHART 1
7	WA20-PLUG-0004	CASE DRAIN PLUG	391-2282-056
8	WA20-20-0117	CHECK VALVE	391-3681-001
9	WA20-76-0015	RING SEAL	391-2585-011
10	WA20-76-0016	ROLLER BEARINGS	391-0381-060
11	WA20-76-0061	HOUSING GASKET	391-2884-024
12	WA20-76-0062	POCKET SEAL	391-2882-084
13	WA20-76-0018	THRUST PLATE	391-2185-020
14	SEE CHART 2	GEAR SET	SEE CHART 2
15	WA20-76-0017	DOWEL PINS	391-2082-033
16	SEE CHART 3	HOUSING	SEE CHART 3
17	WA20-76-0212	PORT END COVER	316-3120-100
18	SEE CHART 4	STUDS	SEE CHART 4
19	WA07-8105	WASHERS	391-3784-028
20	WA20-51-5800	HEX NUTS	391-1451-076
21	SEE CHART 5	BEARING CARRIER (FOR TANDEM UNITS)	SEE CHART 5
22	WA20-76-0060	CONNECTING SHAFT (FOR TANDEM UNITS)	316-1133-001
23	SEE CHART 6	GEAR SET (FOR TANDEM & CONTINENTAL UNITS)	SEE CHART 6
N.I.	SEE CHART 7	CONTINENTAL INPUT SHAFTS	SEE CHART 7
N.I.	WA20-76-0047	CONTINENTAL SHAFT BEARING RETAINER	391-3381-039
N.I.	WA20-76-0048	CONTINENTAL SHAFT BEARING RETAINER SNAP RING	391-2685-029
N.I.	WA20-76-SLKT	SEAL KIT	391-1802-136
N.I.	WA20-76-0007	PUMP SEAL	391-2883-052



A



B

WAM76 SERIES CHART 1- SHAFT END COVERS

#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
A	WA20-76-0009	4 BOLT "B" SHAFT END COVER	316-5037-401
B	WA20-76-0014	2 BOLT "C" SHAFT END COVER	316-5027-402
A	WA20-76-0010	4 BOLT "C" SHAFT END COVER	316-5037-402
A	WA20-76-0011	4 BOLT "D" SHAFT END COVER	316-5037-403



WAM76 SERIES CHART 2- GEAR SETS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-76-1420	1-1/4" 14 SPLINE GEAR SET 2"	316-2920-250
WA20-76-1422	1-1/4" 14 SPLINE GEAR SET 2-1/4"	316-2922-250
WA20-76-1425	1-1/4" 14 SPLINE GEAR SET 2-1/2"	316-2925-250
WA20-73-1427	1-1/4" 14 SPLINE GEAR SET 2-3/4"	316-2927-250
WA20-76-1430	1-1/4" 14 SPLINE GEAR SET 3"	316-2930-250
WA20-76-1220	1-1/4" ROUND WITH KEYWAY GEAR SET 2"	316-2920-750
WA20-76-1222	1-1/4" ROUND WITH KEYWAY GEAR SET 2-1/4"	316-2922-750
WA20-76-1225	1-1/4" ROUND WITH KEYWAY GEAR SET 2-1/2"	316-2925-750
WA20-76-1227	1-1/4" ROUND WITH KEYWAY GEAR SET 2-3/4"	316-2927-750
WA20-76-1230	1-1/4" ROUND WITH KEYWAY GEAR SET 3"	316-2930-750

WAM76 SERIES CHART 3- HOUSINGS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-76-0069	2" BLANK HOUSING	316-8220-100
WA20-76-0070	2-1/4" BLANK HOUSING	316-8222-100
WA20-76-0071	2-1/2" BLANK HOUSING	316-8225-100
WA20-76-0072	2-3/4" BLANK HOUSING	316-8227-100
WA20-76-0073	3" BLANK HOUSING	316-8230-100
WA20-76-0217	2" HOUSING WITH 1-1/4" NPT PORTS	316-8220-132
WA20-76-0218	2-1/4" HOUSING WITH 1-1/4" NPT PORTS	316-8222-132
WA20-76-0219	2-1/2" HOUSING WITH 1-1/2" NPT PORTS	316-8225-137
WA20-76-0220	2-3/4" HOUSING WITH 1-1/2" NPT PORTS	316-8215-327
WA20-76-0221	3" HOUSING WITH 1/12" NPT PORTS	316-8217-327
WA20-76-0013	2" HOUSING WITH 20 ORB PORTS	316-8220-332
WA20-76-0105	2-1/4" HOUSING WITH 20 ORB PORTS	316-8222-332
WA20-76-0001	2-1/2" HOUSING WITH 20 ORB PORTS	316-8225-332
WA20-76-0106	2-3/4" HOUSING WITH 20 ORB PORTS	316-8227-332
WA20-76-0107	3" HOUSING WITH 20 ORB PORTS	316-8230-332

WAM76 SERIES CHART 4- STUDS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-51-0102	5/8" 11 X 8" STUD	391-1425-092
WA20-51-0280	5/8" 11 X 8-3/4" STUD	391-1425-002
WA20-51-0281	5/8" 11 X 9" STUD	391-1425-003
WA20-51-0282	5/8" 11 X 9-1/2" STUD	391-1425-005
WA20-51-0284	5/8" 11 X 10" STUD	391-1425-007
WA20-51-0285	5/8" 11 X 10-1/2" STUD	391-1425-009
WA20-51-0315	5/8" 11 X 10-1/4" STUD	391-1425-012
WA20-51-0307	5/8" 11 X 12" STUD	391-1425-015
WA20-51-0300	5/8" 11 X 12-1/4" STUD	391-1425-016
WA20-51-0311	5/8" 11 X 13-1/4" STUD	391-1425-020
WA20-51-0318	5/8" 11 X 14" STUD	391-1425-023
WA20-51-0297	5/8" 11 X 14-1/4" STUD	391-1425-024
WA20-51-0292	5/8" 11 X 16" STUD	391-1425-031

WAM76 SERIES CHART 5- BEARING CARRIERS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-76-0210	BEARING CARRIER NO COMMON SUCTION BLANK	316-7740-100
WA20-76-0211	BEARING CARRIER WITH COMMON SUCTION BLANK	316-7723-100

WAM76 SERIES CHART 6- CONTINENTAL GEAR SETS



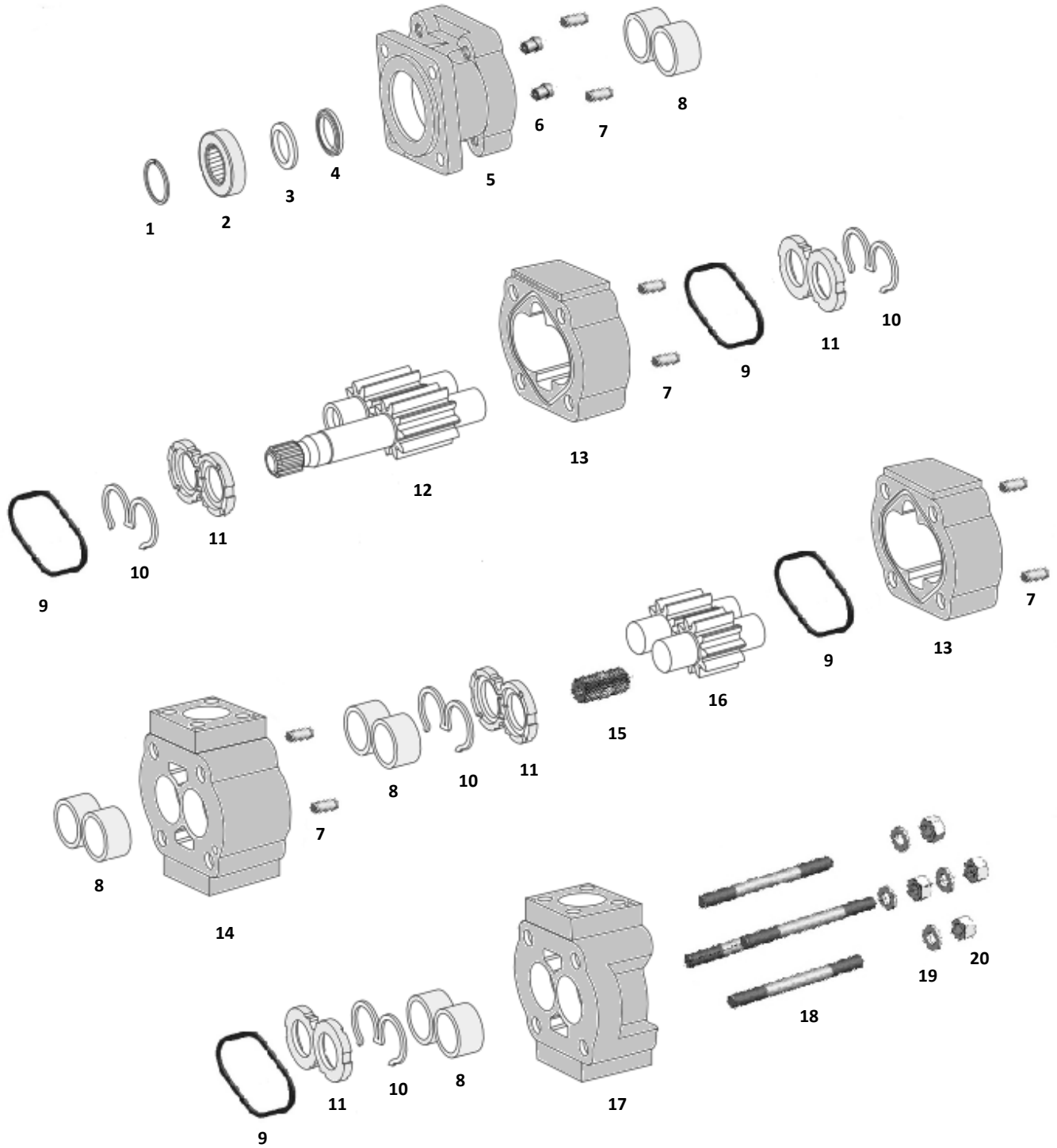
WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-76-0052	1-1/4" GEAR SET	316-2812-000
WA20-76-0053	1-1/2" GEAR SET	316-2815-000
WA20-76-0054	1-3/4" GEAR SET	316-2817-000
WA20-76-0055	2" GEAR SET	316-2820-000
WA20-76-0056	2-1/4" GEAR SET	316-2822-000
WA20-76-0057	2-1/2" GEAR SET	316-2825-000
WA20-76-0058	2-3/4" GEAR SET	316-2827-000
WA20-76-0059	3" GEAR SET	316-2830-000

WAM76 SERIES CHART 7- CONTINENTAL SHAFT



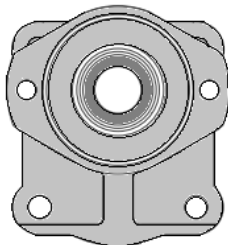
WA20-76-0041	7/8" 13 SPLINE	316-1000-301
WA20-76-0042	1-1/4" 14 SPLINE	316-1135-148
WA20-76-0043	1-1/4" ROUND WITH KEYWAY	316-1135-147

WA315 SERIES DIAGRAM

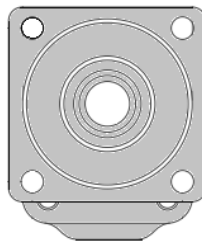


WA315 SERIES DIAGRAM

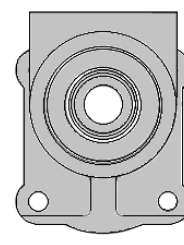
#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
1	WA20-315-0600	SNAP RING FOR MOTOR	391-2686-016
2	WA20-315-0195	BEARING	391-0381-105
3	WA20-315-0196	SEAL RETAINER	391-3384-313
4	WA20-315-0004	SEAL	391-2883-151
5	SEE CHART 1	SHAFT END COVER	SEE CHART 1
N.I.	WA20-PLUG-0004	CASE DRAIN PLUG	391-2282-010
6	WA20-20-0117	CHECK VALVE	391-3681-001
7	WA20-20-0121	DOWEL PINS	391-2082-071
8	WA20-315-0011	BUSHINGS	391-0482-195
9	WA20-315-0054	HOUSING GASKET	391-2881-968
10	WA20-315-0009	THRUST PLATE SEAL	391-2883-168
N.I.	WA20-315-0010	THRUST PLATE NYLON BACK UP SEAL	391-2883-169
11	WA20-315-0008	THRUST PLATE	391-2185-063
12	SEE CHART 2	GEAR SET	SEE CHART 2
13	SEE CHART 3	HOUSING	SEE CHART 3
14	SEE CHART 5	BEARING CARRIER (FOR TANDEM UNITS)	SEE CHART 5
15	WA20-315-0058	CONNECTING SHAFT (FOR TANDEM UNITS)	326-1133-001
16	SEE CHART 6	GEAR SET (FOR TANDEM UNITS)	SEE CHART 6
17	WA20-315-0002	PORT END COVER	326-3000-100
18	SEE CHART 4	STUDS	SEE CHART 4
19	WA07-8103	WASHERS	391-3782-132
20	WA20-315-0066	HEX NUTS	391-1451-051
N.I.	WA20-315-PSK	SEAL KIT	391-1802-595



A



B



C

WA315 SERIES CHART 1- SHAFT END COVERS

#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
A	WA20-315-0005	2 BOLT "A" SHAFT END COVER	326-5029-204
A	WA20-315-0006	2 BOLT "B" SHAFT END COVER	326-5029-203
B	WA20-315-0049	4 BOLT "TYPE 90" SHAFT END COVER	326-5033-205
C	WA20-315-0198	PAD MOUNT SHAFT END COVER	326-5016-202



WA315 SERIES CHART 2- GEAR SETS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-315-0012	7/8" 13 SPLINE GEAR SET 1/2"	326-2905-430
WA20-315-0013	7/8" 13 SPLINE GEAR SET 3/4"	326-2907-430
WA20-315-0014	7/8" 13 SPLINE GEAR SET 1"	326-2910-430
WA20-315-0015	7/8" 13 SPLINE GEAR SET 1-1/4"	326-2912-430
WA20-315-0016	7/8" 13 SPLINE GEAR SET 1-1/2"	326-2915-430
WA20-315-0017	7/8" 13 SPLINE GEAR SET 1-3/4"	326-2917-430
WA20-315-0018	7/8" 13 SPLINE GEAR SET 2"	326-2920-430
WA20-315-0019	7/8" ROUND SHAFT WITH KEYWAY 1/2"	326-2905-930
WA20-315-0020	7/8" ROUND SHAFT WITH KEYWAY 3/4"	326-2907-930
WA20-315-0021	7/8" ROUND SHAFT WITH KEYWAY 1"	326-2910-930
WA20-315-0022	7/8" ROUND SHAFT WITH KEYWAY 1-1/4"	326-2912-930
WA20-315-0023	7/8" ROUND SHAFT WITH KEYWAY 1-1/2"	326-2915-930
WA20-315-0024	7/8" ROUND SHAFT WITH KEYWAY 1-3/4"	326-2917-930
WA20-315-0025	7/8" ROUND SHAFT WITH KEYWAY 2"	326-2920-930

WA315 SERIES CHART 3- HOUSINGS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-315-0062	1/2" BLANK HOUSING	326-8105-100
WA20-315-0063	3/4" BLANK HOUSING	326-8107-100
WA20-315-0064	1" BLANK HOUSING	326-8110-100
WA20-315-0065	1-1/4" BLANK HOUSING	326-8112-100
WA20-315-0003	1-1/2" BLANK HOUSING	326-8115-100
WA20-315-0067	1-3/4" BLANK HOUSING	326-8117-100
WA20-315-0068	2" BLANK HOUSING	326-8120-100

WA315 SERIES CHART 4- BOLTS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-315-052	1/2" 13 X 2-3/4" BOLT FOR 1/2" HOUSING	391-1401-349
WA20-315-073	1/2" 13 X 3" BOLT FOR 3/4" HOUSING	391-1401-342
WA20-315-074	1/2" 13 X 3-1/4" BOLT FOR 1" HOUSING	391-1401-154
WA20-315-075	1/2" 13 X 3-1/2" BOLT FOR 1-1/4" HOUSING	391-1401-348
WA20-315-076	1/2" 13 X 3-3/4" BOLT FOR 1-1/2" HOUSING	391-1401-347
WA20-315-077	1/2" 13 X 4" BOLT FOR 1-3/4" HOUSING	391-1401-094
WA20-315-078	1/2" 13 X 4-1/4 BOLT FOR 2" HOUSING	391-1401-071

WA315 SERIES CHART 5- BEARING CARRIERS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-315-0069	BEARING CARRIER 1 IN/1 OUT NO BUSHINGS	326-7100-100
WA20-315-0071	BEARING CARRIER WITH 1 IN/2 OUT NO BUSHINGS	326-7300-100

WA315 SERIES CHART 6- CONTINENTAL GEAR SETS



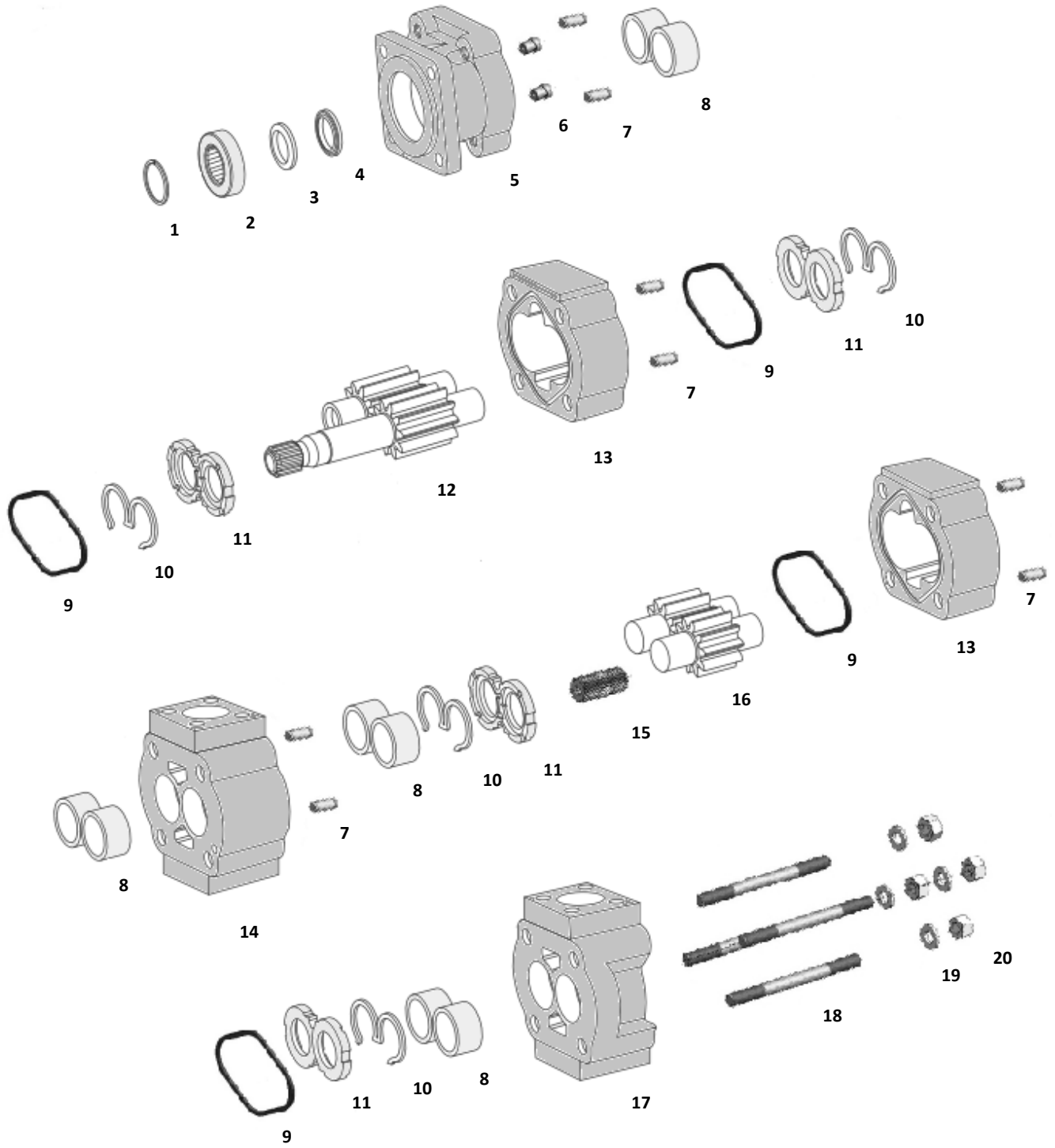
WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-315-0047	1/2" GEAR SET	326-2805-000
WA20-315-0048	3/4" GEAR SET	326-2807-000
WA20-315-0051	1" GEAR SET	326-2810-000
WA20-315-0050	1-1/4" GEAR SET	326-2812-000
WA20-315-0055	1-1/2" GEAR SET	326-2815-000
WA20-315-0056	1-3/4" GEAR SET	326-2817-000
WA20-315-0057	2" GEAR SET	326-2820-000

WA315 SERIES DIAGRAM

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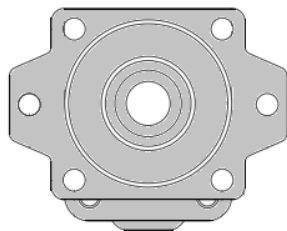
WA330 SERIES DIAGRAM

WA330 SERIES DIAGRAM

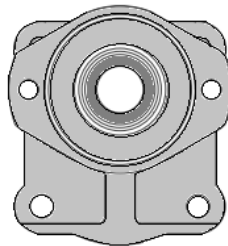


WA330 SERIES DIAGRAM

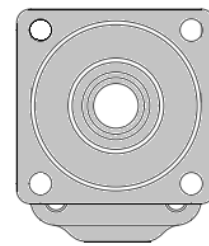
#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
1	WA20-20-0100	SNAP RING	391-2686-063
2	WA20-20-0102	BEARING	391-0381-040
3	WA20-20-0103	SEAL RETAINER	391-3381-040
4	WA20-20-0107	SEAL	391-2883-119
5	SEE CHART 1	SHAFT END COVER	SEE CHART 1
6	WA20-20-0117	CHECK VALVE	391-3681-001
7	WA20-51-0122	DOWEL PINS	391-2082-032
8	WA20-330-001	BUSHINGS	391-0482-306
9	WA20-330-0102	HOUSING GASKET	391-2884-050
10	WA20-330-0009	THRUST PLATE SEAL	391-2882-166
N.I.	WA20-330-0010	THRUST PLATE NYLON BACK UP SEAL	391-2882-167
11	WA20-330-0008	THRUST PLATE	391-2185-056
12	SEE CHART 2	GEAR SET	SEE CHART 2
13	SEE CHART 3	HOUSING	SEE CHART 3
14	SEE CHART 4	BEARING CARRIER (FOR TANDEM UNITS)	SEE CHART 4
15	WA20-330-0058	CONNECTING SHAFT (FOR TANDEM UNITS)	324-1133-001
16	SEE CHART 5	GEAR SET (FOR TANDEM & CONTINENTAL UNITS)	SEE CHART 5
17	WA20-330-0072	PORT END COVER	324-3000-100
18	SEE CHART 6	STUDS	SEE CHART 6
19	WA07-8105	WASHERS	391-3784-028
20	WA20-51-5800	HEX NUTS	391-1451-076
N.I.	SEE CHART 7	CONTINENTAL INPUT SHAFTS	SEE CHART 7
N.I.	WA20-20-0194	CONTINENTAL SHAFT BEARING RETAINER	312-0100-002
N.I.	WA20-20-0195	CONTINENTAL SHAFT BRG RETAINER SNAP RING	391-2685-011
N.I.	WA20-330-PSK	SEAL KIT	391-1802-491
N.I.	WA20-20-0106	PUMP SEAL	391-2893-058



A



B



C

WA330 SERIES CHART 1- SHAFT END COVERS

#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
A	WA20-330-0001	2/4 BOLT "B" SHAFT END COVER	324-5053-201
B	WA20-330-0002	2 BOLT "B" SHAFT END COVER	324-5023-201
C	WA20-330-0004	4 BOLT "B" SHAFT END COVER	324-5033-201
C	WA20-330-0006	4 BOLT "C" SHAFT END COVER	324-5033-202



WA330 SERIES CHART 2- GEAR SETS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-330-1305	7/8" 13 SPLINE GEAR SET 1/2"	324-2905-230
WA20-330-1307	7/8" 13 SPLINE GEAR SET 3/4"	324-2907-230
WA20-330-1310	7/8" 13 SPLINE GEAR SET 1"	324-2910-230
WA20-330-1312	7/8" 13 SPLINE GEAR SET 1-1/4"	324-2912-230
WA20-330-1315	7/8" 13 SPLINE GEAR SET 1-1/2"	324-2915-230
WA20-330-1317	7/8" 13 SPLINE GEAR SET 1-3/4"	324-2917-230
WA20-330-1320	7/8" 13 SPLINE GEAR SET 2"	324-2920-230
WA20-330-1005	1" ROUND WITH KEYWAY GEAR SET 1/2"	324-2905-740
WA20-330-1007	1" ROUND WITH KEYWAY GEAR SET 3/4"	324-2907-740
WA20-330-1010	1" ROUND WITH KEYWAY GEAR SET 1"	324-2910-740
WA20-330-1012	1" ROUND WITH KEYWAY GEAR SET 1-1/4"	324-2912-740
WA20-330-1015	1" ROUND WITH KEYWAY GEAR SET 1-1/2"	324-2915-740
WA20-330-1015	1" ROUND WITH KEYWAY GEAR SET 3-3/4"	324-2917-740
WA20-330-1017	1" ROUND WITH KEYWAY GEAR SET 2"	324-2920-740
WA20-330-1020	1" 15 SPLINE GEAR SET 1/2"	324-2905-240
WA20-330-1507	1" 15 SPLINE GEAR SET 3/4"	324-2907-240
WA20-330-1510	1" 15 SPLINE GEAR SET 1"	324-2910-240
WA20-330-1512	1" 15 SPLINE GEAR SET 1-1/4"	324-2912-240
WA20-330-1515	1" 15 SPLINE GEAR SET 1-1/2"	324-2915-240
WA20-330-1517	1" 15 SPLINE GEAR SET 1-3/4"	324-2917-240
WA20-330-1520	1" 15 SPLINE GEAR SET 2"	324-2920-240

WA330 SERIES CHART 3- HOUSINGS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-330-0059	1/2" BLANK HOUSING	324-8105-100
WA20-330-0060	3/4" BLANK HOUSING	324-8107-100
WA20-330-0061	1" BLANK HOUSING	324-8110-100
WA20-330-0062	1-1/4" BLANK HOUSING	324-8112-100
WA20-330-0063	1-1/2" BLANK HOUSING	324-8115-100
WA20-330-0064	1-3/4" BLANK HOUSING	324-8117-100
WA20-330-0065	2" BLANK HOUSING	324-8120-100

WA330 CHART 4- BEARING CARRIERS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-330-0066	BEARING CARRIER BLANK NO BUSHINGS	324-7200-100
WA20-330-0068	BEARING CARRIER WITH 1 OUTLET NO BUSHINGS	324-7100-100
WA20-330-0070	BEARING CARRIER WITH 2 OUTLET NO BUSHINGS	324-7300-100

WA330 SERIES CHART 5- CONTINENTAL GEAR SETS



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-330-0051	1/2" GEAR SET	324-2805-000
WA20-330-0052	3/4" GEAR SET	324-2807-000
WA20-330-0053	1" GEAR SET	324-2810-000
WA20-330-0054	1-1/4" GEAR SET	324-2812-000
WA20-330-0055	1-1/2" GEAR SET	324-2815-000
WA20-330-0056	1-3/4" GEAR SET	324-2817-000
WA20-330-0057	2" GEAR SET	324-2820-000

WA330 SERIES CHART 6- STUDS

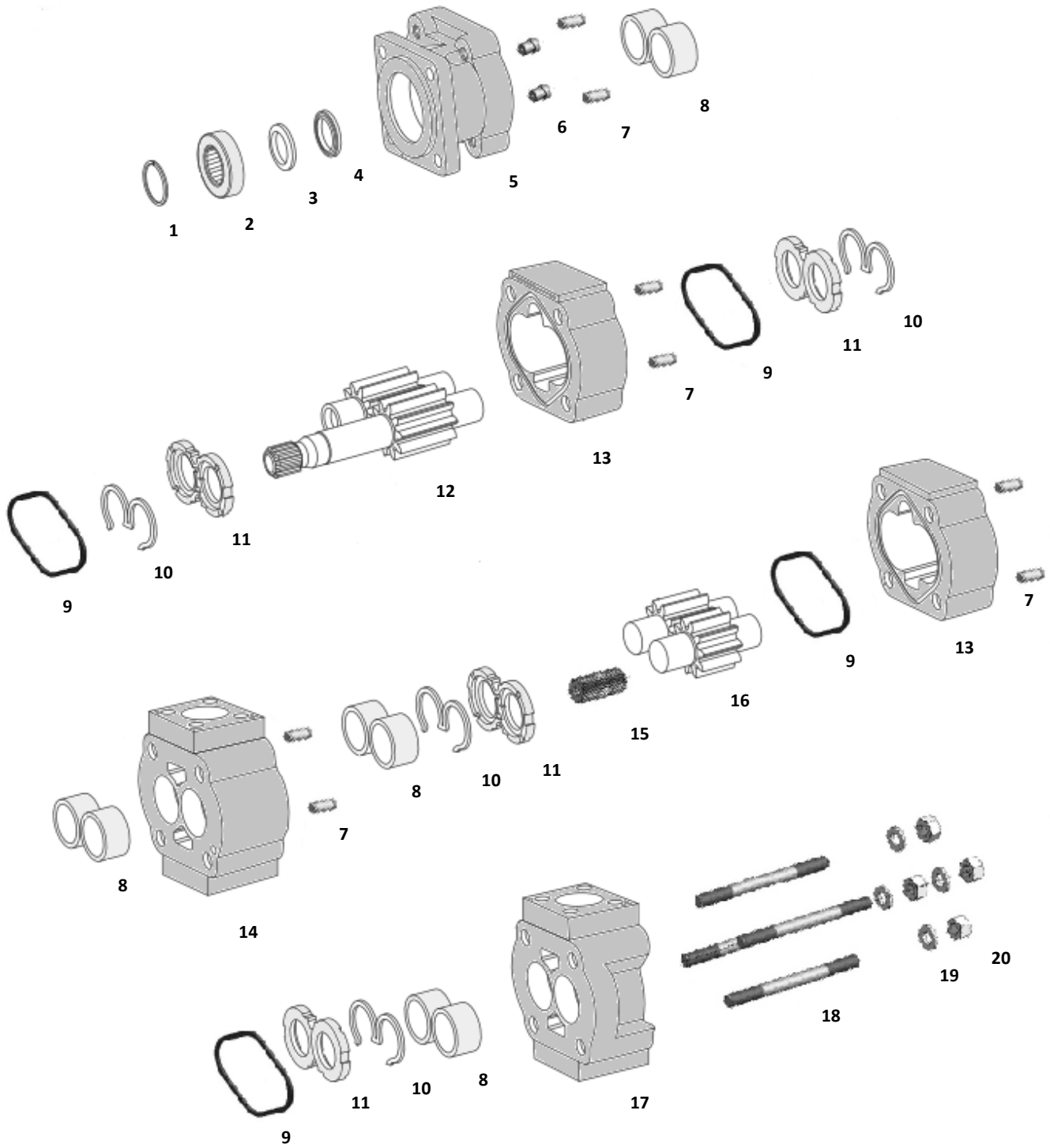
WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-51-0102	5/8" 11 X 8" STUD	391-1425-092
WA20-51-0280	5/8" 11 X 8-3/4" STUD	391-1425-002
WA20-51-0281	5/8" 11 X 9" STUD	391-1425-003
WA20-51-0282	5/8" 11 X 9-1/2" STUD	391-1425-005
WA20-51-0284	5/8" 11 X 10" STUD	391-1425-007
WA20-51-0285	5/8" 11 X 10-1/2" STUD	391-1425-009
WA20-51-0315	5/8" 11 X 11-1/4" STUD	391-1425-012
WA20-51-0307	5/8" 11 X 12" STUD	391-1425-015
WA20-51-0300	5/8" 11 X 12-1/4" STUD	391-1425-016
WA20-51-0311	5/8" 11 X 13-1/4" STUD	391-1425-020
WA20-51-0318	5/8" 11 X 14" STUD	391-1425-023
WA20-51-0297	5/8" 11 X 14-1/4" STUD	391-1425-024
WA20-51-0292	5/8" 11 X 16" STUD	391-1425-031

WA330 CHART- 7 CONTINENTAL INPUT SHAFTS



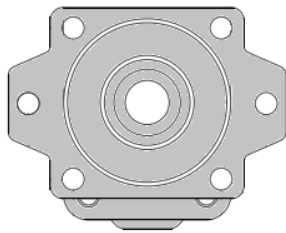
WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-330-0040	7/8" 13 SPLINE	324-1000-300
WA20-330-0043	1" ROUND WITH KEYWAY	324-1500-400
WA20-330-0042	1" 15 SPLINE	324-1200-400

WA350 SERIES DIAGRAM

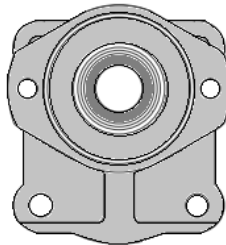


WA350 SERIES DIAGRAM

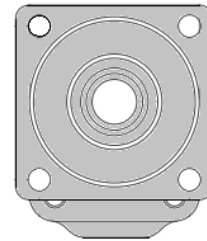
#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
1	WA20-51-0104	SNAP RING	391-2686-065
2	WA20-51-0105	BEARING	391-0381-077
3	WA20-51-0107	SEAL RETAINER	391-3383-020
4	WA20-51-0110	SEAL	391-2883-115
5	SEE CHART 1	SHAFT END COVER	SEE CHART 1
N.I.	WA20-PLUG-0004	CASE DRAIN PLUG	391-2282-056
6	WA20-20-0117	CHECK VALVE	391-3681-001
7	WA20-51-0122	DOWEL PINS	391-2082-032
8	WA20-350-0016	BUSHINGS	319-0482-308
9	WA20-350-0074	HOUSE GASKET	391-2884-074
10	WA20-350-0014	THRUST PLATE PUMP SEAL	391-2882-140
N.I.	WA20-350-0015	THRUST PLATE NYLON BACK UP SEAL	391-2882-139
11	WA20-350-0013	THRUST PLATE	391-2185-057
12	SEE CHART 2	GEAR SET	SEE CHART 2
13	SEE CHART 3	HOUSING	SEE CHART 3
14	SEE CHART 4	BEARING CARRIER (FOR TANDEM UNITS)	SEE CHART 4
15	WA20-350-0073	CONNECTING SHAFT (FOR TANDEM UNITS)	323-1133-001
16	SEE CHART 5	GEAR SET (FOR TANDEM & CONTINENTAL UNITS)	SEE CHART 5
17	WA20-350-0090	PORT END COVER	323-3000-100
18	SEE CHART 6	STUDS	SEE CHART 6
19	WA07-8105	WASHERS	391-3784-028
20	WA20-51-5800	HEX NUTS	391-1451-076
N.I.	SEE CHART 7	CONTINENTAL INPUT SHAFTS	SEE CHART 7
N.I.	WA20-20-0193	CONTINENTAL SHAFT BEARING RETAINER	319-3381-046
N.I.	WA20-20-0194	CONTINENTAL SHAFT BRG RETAINER SNAP RING	391-2685-040
N.I.	WA20-350-PSK	SEAL KIT	391-1802-444
N.I.	WA20-51-0109	PUMP SEAL	391-2883-103



A



B



C

WA350 SERIES CHART 1- SHAFT END COVERS

#	WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
A	WA20-350-0002	2/4 BOLT "B" SHAFT END COVER	323-5053-201
B	WA20-350-0009	2 BOLT "B" SHAFT END COVER	323-5023-201
B	WA20-350-0011	2 BOLT "C" SHAFT END COVER	323-5023-202
C	WA20-350-0005	4 BOLT "B" SHAFT END COVER	323-5033-201
C	WA20-350-0007	4 BOLT "C" SHAFT END COVER	323-5033-202



WA350 SERIES CHART 2- GEAR SETS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-350-1315	7/8" 13 SPLINE GEAR SET 1-1/2"	323-2915-230
WA20-350-1317	7/8" 13 SPLINE GEAR SET 1-3/4"	323-2917-230
WA20-350-1320	7/8" 13 SPLINE GEAR SET 2"	323-2920-230
WA20-350-1322	7/8" 13 SPLINE GEAR SET 2-1/4"	323-2922-230
WA20-350-1325	7/8" 13 SPLINE GEAR SET 2-1/2"	323-2925-230
WA20-350-1215	1-1/4" ROUND WITH KEYWAY GEAR SET 1-1/2"	323-2915-750
WA20-350-1217	1-1/4" ROUND WITH KEYWAY GEAR SET 1-3/4"	323-2917-750
WA20-350-1220	1-1/4" ROUND WITH KEYWAY GEAR SET 2"	323-2920-750
WA20-350-1222	1-1/4" ROUND WITH KEYWAY GEAR SET 2-1/4"	323-2922-750
WA20-350-1225	1-1/4" ROUND WITH KEYWAY GEAR SET 2-1/2"	323-2925-750
WA20-350-1515	1" 15 SPLINE GEAR SET 1-1/2"	323-2915-240
WA20-350-1517	1" 15 SPLINE GEAR SET 1-3/4"	323-2917-240
WA20-350-1520	1" 15 SPLINE GEAR SET 2"	323-2920-240
WA20-350-1522	1" 15 SPLINE GEAR SET 2-1/4"	323-2922-240
WA20-350-1525	1" 15 SPLINE GEAR SET 2-1/2"	323-2925-240

WA350 SERIES CHART 3- HOUSINGS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-350-0079	1-1/2" BLANK HOUSING	323-8115-100
WA20-350-0080	1-3/4" BLANK HOUSING	323-8117-100
WA20-350-0081	2" BLANK HOUSING	323-8120-100
WA20-350-0082	2-1/4" BLANK HOUSING	323-8122-100
WA20-350-0083	2-1/2" BLANK HOUSING	323-8125-100

WA350 SERIES CHART 4- BEARING CARRIERS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-350-0084	BEARING CARRIER BLANK NO BUSHINGS	323-7200-100
WA20-350-0086	BEARING CARRIER WITH 1 OUTLET NO BUSHINGS	323-7100-100
WA20-350-0088	BEARING CARRIER WITH 2 OUTLET NO BUSHINGS	323-7300-100

WA350 SERIES CHART 5- CONTINENTAL GEAR SETS



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-350-0068	1-1/2" GEAR SET	323-2815-000
WA20-350-0069	1-3/4" GEAR SET	323-2817-000
WA20-350-0070	2" GEAR SET	323-2820-000
WA20-350-0071	2-1/4" GEAR SET	323-2822-000
WA20-350-0072	2-1/2" GEAR SET	323-2825-000

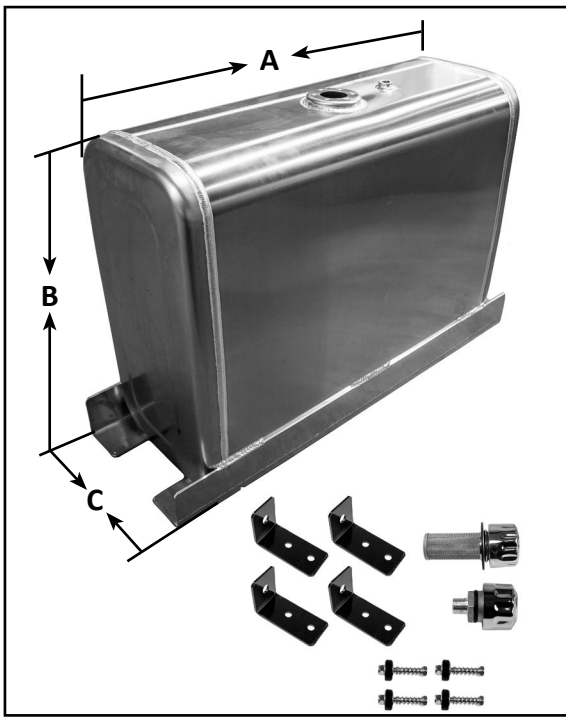
WA350 SERIES CHART 6- STUDS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-51-0102	5/8" 11 X 8" STUD	391-1425-092
WA20-51-0280	5/8" 11 X 8-3/4" STUD	391-1425-002
WA20-51-0281	5/8" 11 X 9" STUD	391-1425-003
WA20-51-0282	5/8" 11 X 9-1/2" STUD	391-1425-005
WA20-51-0284	5/8" 11 X 10" STUD	391-1425-007
WA20-51-0285	5/8" 11 X 10-1/2" STUD	391-1425-009
WA20-51-0315	5/8" 11 X 11-1/4" STUD	391-1425-012
WA20-51-0307	5/8" 11 X 12" STUD	391-1425-015
WA20-51-0300	5/8" 11 X 12-1/4" STUD	391-1425-016
WA20-51-0311	5/8" 11 X 13-1/4" STUD	391-1425-020
WA20-51-0318	5/8" 11 X 14" STUD	391-1425-023
WA20-51-0297	5/8" 11 X 14-1/4" STUD	391-1425-024
WA20-51-0292	5/8" 11 X 16" STUD	391-1425-031

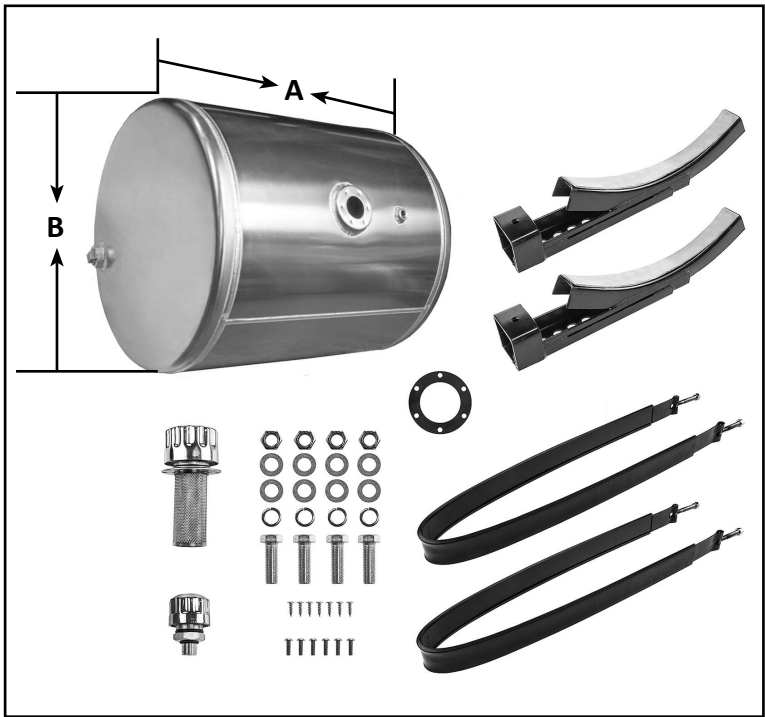
WA350 SERIES CHART 7- CONTINENTAL INPUT SHAFTS



WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-350-0057	7/8" 13 SPLINE	323-1000-300
WA20-350-0060	1-1/4" ROUND WITH KEYWAY	323-1500-500
WA20-350-0059	1-1/4" 14 SPLINE	323-1000-501



WAA50U



WAA50S

RESERVOIRS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WAA35U	35 GALLON ALUMINUM UPRIGHT A - 34.5" B - 24" C - 8"	A-4035, URA35
WAA35S	35 GALLON ALUMINUM SADDLE MOUNT A - 26" B - 19"	A-4535, SMA35
WAS35S	35 GALLON STEEL SADDLE MOUNT A - 26" B - 19"	A-3535, SMS35
WAA50U	50 GALLON ALUMINUM UPRIGHT A - 34 1/2" B - 26" C - 13.75"	A-4000, URA50
WAP50U	50 GALLON POLYETHYLENE UPRIGHT A - 38" B - 29" C - 16.25"	A-2000, URP50
WAS50U	50 GALLON STEEL UPRIGHT A - 34 1/2" B - 26" C - 13.75"	A-3000, URS50
WAA50S	50 GALLON ALUMINUM SADDLE MOUNT WITH STEEL STRAPS A - 26" B - 24"	A-4500, SMA50
WAA50SSS	50 GALLON ALUMINUM SADDLE MOUNT WITH STAINLESS STRAPS A - 26" B - 24"	A-4500SS, SMA50SS
WAS50S	50 GALLON STEEL SADDLE MOUNT A - 27" B - 26.5"	A-3500, SM350
WAA70U	70 GALLON ALUMINUM UPRIGHT A - 49.75" B - 25.5" C - 14.75"	A-4070, URA70
WAS70U	70 GALLON STEEL UPRIGHT A - 49.25" B - 25.5" C - 14.75"	A-3070, URS70

RESERVOIR STRAP KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WASMSK	SADDLE MOUNT STRAP KIT	AMK624-C
WASMSKSS	SADDLE MOUNT STRAP KIT STAINLESS STEEL	SMS5005BKSS
WATANKBRACKET	WAA50S MOUNTING BRACKET	AMK624-S
WAS005BK	SADDLE MOUNT MOUNTING KIT	SMS005BK
WAS005BKSS	SADDLE MOUNT MOUNTING KIT WITH STAINLESS STEEL STRAPS	SMS005BKSS
WAUR50MK	UPRIGHT TANK MOUNTING KIT	ASK-200





WA015

RESERVOIR FILLER CAP

WORLD AMERICAN® #	DESCRIPTION
WA015	RESERVOIR CAP
WA015-1	SPIN ON RESERVOIR CAP
WAVENTCAP	RESERVOIR SMALL VENT CAP



WAF100

FILTER ASSEMBLIES

WORLD AMERICAN® #	DESCRIPTION
WAF110	1" FILTER HEAD WITH 10 MICRON FILTER
WAF125	1" FILTER HEAD WITH 25 MICRON FILTER
WAF910	1.25" FILTER HEAD WITH 10 MICRO FILTER
WAF925	1.25" FILTER HEAD WITH 25 MICRO FILTER



WA725FH

FILTER PARTS

WORLD AMERICAN® #	DESCRIPTION
WA725FH	1" FILTER HEAD NPT PORTS WITH TWO 1/8" NPT GAUGE PORTS
WA10FLT	REPLACEMENT 10 MICRON FILTER
WA25FLT	REPLACEMENT 25 MICRON FILTER
WA925FH	1.25" FILTER HEAD NPT PORTS WITH TWO 1/8" NPT GAUGE PORTS
WA110FLT	1.25" REPLACEMENT 10 MICRON FILTER
WA125FLT	1.25" REPLACEMENT 25 MICRON FILTER



WA10FLT



WARF75

INLINE RELIEF VALVES

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WARF75	INLINE RELIEF VALVE 3/4" NPT	RPL75-A
WARF100	INLINE RELIEF VALVE 1" NPT	RPL10-A
WARF12	INLINE RELIEF VALVE 3/4" ORB	RPL12-A
WARF16A	INLINE RELIEF VALVE 1" ORB	RPL-16A



WABV20

BALL VALVES

WORLD AMERICAN® #	DESCRIPTION
WABV16	1" BALL VALVE
WABV20	1.25" BALL VALVE



WA125MN

NPT NIPPLES

WORLD AMERICAN® #	DESCRIPTION
WAMN100	1" NPT CLOSE NIPPLE
WAMN164	1" X 4" NPT NIPPLE
WAMN166	1" X 6" NPT NIPPLE
WAMN125	1.25" NPT CLOSE NIPPLE
WAMN204	1.25" X 4" NPT CLOSE NIPPLE
WAMN206	1.25" X 6" NPT CLOSE NIPPLE



WABH100

BARBED HYDRAULIC HOSE FITTINGS

WORLD AMERICAN® #	DESCRIPTION
WABH100	1" STEEL BARBED END
WABH125	1.25" STEEL BARBED END
WABH2016	1.25" TO 1" BARBED END FITTING



HOSE CLAMPS

WORLD AMERICAN® #	DESCRIPTION
WACL20	1.25" T BOLT STYLE



WAQCB-16

ISO-B TYPE QUICK CONNECT COUPLERS

WORLD AMERICAN® #	DESCRIPTION
WAQCB-8	1/2" QUICK CONNECT SET
WAQCB-8F	1/2" ISO-B FEMALE CONNECTOR
WAQCB-8M	1/2" ISO-B MALE CONNECTOR
WAQCB-12	3/4" QUICK CONNECT SET
WAQCB-12F	3/4" ISO-B FEMALE CONNECTOR
WAQCB-12M	3/4" ISO-B MALE CONNECTOR
WAQCB-16	1" QUICK CONNECT SET
WAISOB-16F	1" ISO-B FEMALE CONNECTOR
WAISOB-16M	1" ISO-B MALE CONNECTOR

WING STYLE QUICK CONNECT COUPLERS



WAWC16



WAWC161



WAWC162



WAQCA-08

WORLD AMERICAN® #	DESCRIPTION
WAWC16	1" WINGED COUPLER SET
WAWC161	1" FEMALE WING
WAWC162	1" MALE COUPLER
WADC16	1" MALE DUST CAP
WADC16F	1" FEMALE DUST CAP
WAWC20	1-1/4" WINGED COUPLER SET
WAWC201	1-1/4" FEMALE WING
WAWC202	1-1/4" MALE COUPLER
WADC20	1-1/4" MALE DUST CAP
WADC20F	1-1/4" FEMALE DUST CAP
WAWC24	1-1/2" WINGED COUPLER SET
WAWC241	1-1/2" FEMALE WING
WAWC242	1-1/2" MALE COUPLER
WADC24	1-1/2" MALE DUST CAP
WADC24F	1-1/2" FEMALE DUST CAP

OTHER QUICK CONNECT COUPLERS

WORLD AMERICAN® #	DESCRIPTION
WAQCA-08	1/2" ISO-A QUICK CONNECT SET
WAI SOA-08F	1/2" ISO-A FEMALE CONNECTOR
WAI SOA-08M	1/2" ISO-A MALE CONNECTOR
WAQCIRB-12	3/4" QUICK CONNECT SET
WAI RBV-12F	3/4" IR SERIES FEMALE CONNECTOR
WAI RBV-12M	3/4" IR SERIES MALE CONNECTOR



WAK12-12-2L



WAK12-12-3L

HYDRAULIC HOSE KITS

WORLD AMERICAN® #	DESCRIPTION
WAK8-8-2L	8' PRESSURE 8' SUCTION 2 LINE HOSE KIT
WAK12-8-2L	12' PRESSURE 8' SUCTION 2 LINE HOSE KIT
WAK14-8-2L	14' PRESSURE 8' SUCTION 2 LINE HOSE KIT
WAK16-8-2L	16' PRESSURE 8' SUCTION 2 LINE HOSE KIT
WAK12-12-2L	12' PRESSURE 12' SUCTION 2 LINE HOSE KIT
WAK20-12-2L	20' PRESSURE 12' SUCTION 2 LINE HOSE KIT
WAK9-8-3L*	9' PRESSURE 8' SUCTION 3 LINE HOSE KIT
WAK12-12-3L*	12' PRESSURE 12' SUCTION 3 LINE HOSE KIT
WAK16-24-3L*	16' PRESSURE 24' SUCTION 3 LINE HOSE KIT
WAK20-24-3L*	20' PRESSURE 24' SUCTION 3 LINE HOSE KIT

* RECOMMENDED FOR CONTINUOUS DUTY/PROLONGED SYSTEM LIFE

2 LINE KITS INCLUDE:

- 1" PRESSURE HOSE WITH 1 FIXED END & 1 SWIVEL END
 - 1.25" SUCTION HOSE
 - 2 - 1.25" BARB HOSE ENDS
 - 2 - T BOLT CLAMPS
 - 1 - 1" WING STYLE QUICK DISCONNECT
- NOTE: WE MAY SUBSTITUTE 1 SWIVEL END FOR A FIXED END & ADAPTER

3 LINE KITS INCLUDE:

- 1" PRESSURE HOSE WITH 1 FIXED END & 1 SWIVEL END
 - 1.25" SUCTION HOSE
 - 3 - 1.25" BARB HOSE ENDS
 - 4 - T-BOLT CLAMPS
 - 1 - 1" WING STYLE QUICK DISCONNECT
 - 1 - 1 1/4" TO 1" BARB HOSE END
- NOTE: WE MAY SUBSTITUTE 1 SWIVEL END FOR A FIXED END & ADAPTER

CUSTOM HOSE KITS ARE AVAILABLE UPON REQUEST

HYDRAULIC HOSE

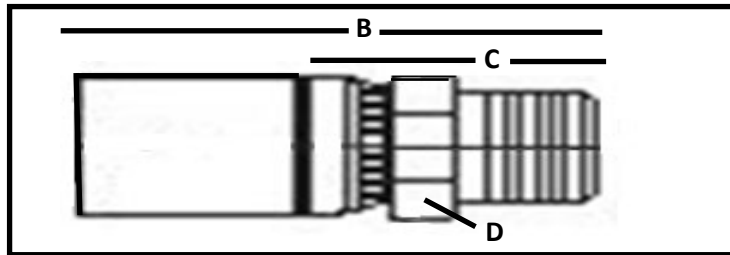


WA100R2-16



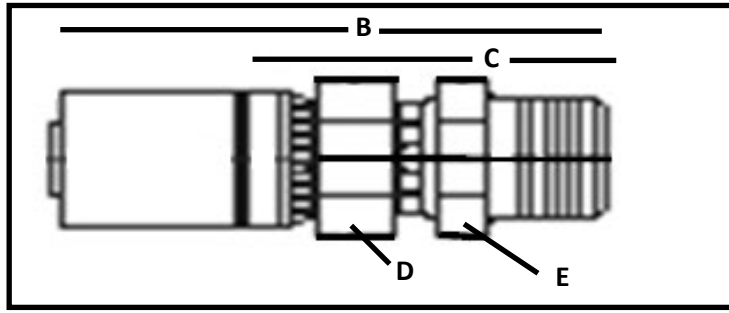
WA100R4-20

WORLD AMERICAN® #	DESCRIPTION	REEL SIZE
WA100R5-05	1/4" PRESSURE HOSE	250'
WA100R2-08	1/2" PRESSURE HOSE	320'
WA100R2-12	3/4" PRESSURE HOSE	400'
WA100R2-16	1" PRESSURE HOSE	200'
WA100R4-16	1" SUCTION HOSE	100'
WA100R4-20	1.25" SUCTION HOSE	100'



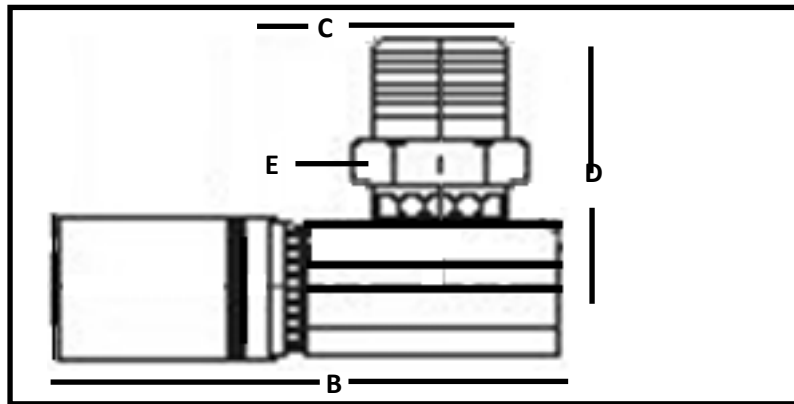
RIGID MALE NATIONAL HYDRAULIC (NPT) HOSE FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	THREAD
WAMP-0404	1/4"	2.32"	1.06"	9/16"	1/4" - 18
WAMP-0406	1/4"	2.41"	1.15"	11/16"	3/8" - 18
WAMP-0606	3/8"	2.67"	1.17"	11/16"	3/8" - 18
WAMP-0608	3/8"	2.92"	1.42"	7/8"	1/2" - 14
WAMP-0808	1/2"	3.00"	1.50"	7/8"	1/2" - 14
WAMP-0812	1/2"	3.00"	1.50"	1-1/8"	3/4" - 14
WAMP-1212	3/4"	3.10"	1.51"	1-1/8"	3/4" - 14
WAMP-1216	3/4"	3.29"	1.70"	1-3/8"	1" - 11.5
WAMP-1616	1"	3.45"	1.72"	1-3/8"	1" - 11.5



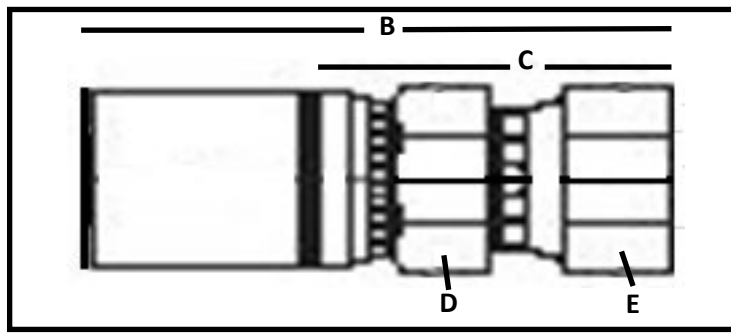
SWIVEL MALE NPT HYDRAULIC HOSE FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	E	THREAD
WAMPX-0404	1/4"	2.88"	1.62"	9/16"	11/16"	1/4" - 18
WAMPX-0406	1/4"	2.88"	1.63"	9/16"	3/4"	3/8" - 18
WAMPX-0606	3/8"	3.20"	1.71"	11/16"	3/4"	3/8" - 18
WAMPX-0608	3/8"	3.40"	1.90"	11/16"	7/8"	1/2" - 14
WAMPX-0808	1/2"	3.53"	2.04"	7/8"	15/16"	1/2" - 14
WAMPX-0812	1/2"	3.61"	2.10"	1"	1 1/8"	3/4" - 14
WAMPX-1212	3/4"	3.70"	2.10"	1 1/8"	1 1/8"	3/4" - 14
WAMPX-1616	1"	4.12"	2.38"	1 3/8"	1 1/2"	1" - 11.5



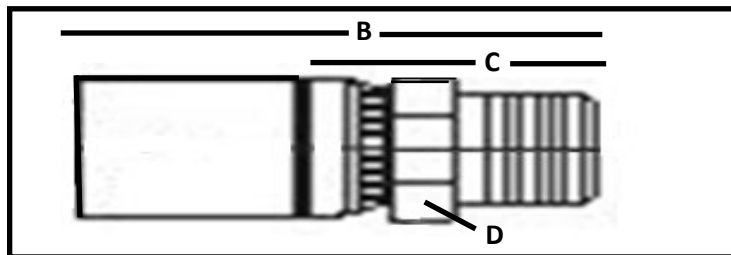
90 DEGREE SWIVEL NPT FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	E	THREAD
WAMPX-0404-90	1/4"	2.31"	.65"	11/16"	1.54"	1/4" - 18
WAMPX-0406-90	1/4"	2.31"	.65"	3/4"	1.54"	3/8" - 18
WAMPX-0606-90	3/8"	2.77"	.74"	3/4"	1.64"	3/8" - 18
WAMPX-0608-90	3/8"	2.77"	.74"	7/8"	1.84"	1/2" - 14
WAMPX-0808-90	1/2"	2.91"	.88"	15/16"	1.92"	1/2" - 14
WAMPX-1212-90	3/4"	3.63"	1.00"	1 1/8"	2.14"	3/4" - 14
WAMPX-1616-90	1"	3.86"	1.25"	1 1/2"	2.58"	1" - 11.5



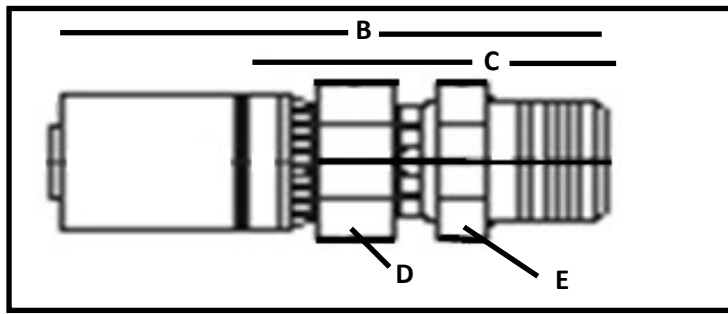
FEMALE SWIVEL NPT HYDRAULIC HOSE FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	E	THREAD
WAFPX-0404	1/4"	2.15"	1.09"	9/16"	3/4"	1/4" - 18
WAFPX-0406	1/4"	2.34"	1.09"	11/16"	3/4"	3/8" - 18
WAFPX-0608	3/8"	2.85"	1.35"	7/8"	1"	1/2" - 14
WAFPX-0808	1/2"	2.70"	1.43"	11/16"	7/8"	1/2" - 14
WAFPX-0812	1/2"	3.20"	1.70"	1"	1 1/4"	3/4" - 14
WAFPX-1212	3/4"	2.93"	1.70"	1"	1"	3/4" - 14
WAFPX-1616	1"	3.29"	1.78"	1 1/8"	1 1/4"	1" - 11.5



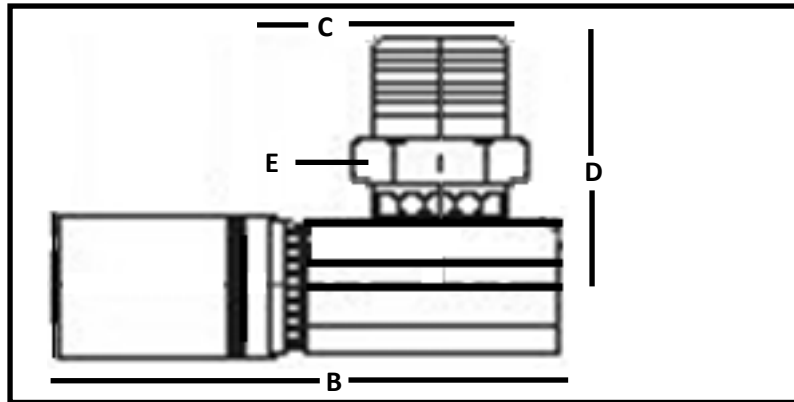
RIGID MALE O-RING BOSS (ORB) HYDRAULIC HOSE FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	THREAD
WAMB-0404	1/4"	2.11"	.86"	5/8"	7/16" - 20
WAMB-0406	1/4"	2.15"	.89"	11/16"	9/16" - 18
WAMB-0606	3/8"	2.50"	1.00"	11/16"	9/16" - 18
WAMB-0608	3/8"	2.54"	1.04"	13/16"	3/4" - 16
WAMB-0808	1/2"	2.68"	1.18"	1 1/8"	3/4" - 16
WAMB-0812	1/2"	2.84"	1.34"	1 1/4"	1 1/16" - 12
WAMB-1212	3/4"	2.95"	1.36"	1 1/4"	1 1/16" - 12
WAMB-1216	3/4"	3.05"	1.46"	1 1/2"	1 5/16" - 12
WAMB-1616	1"	3.21"	1.48"	1 1/2"	1 15/16" - 12



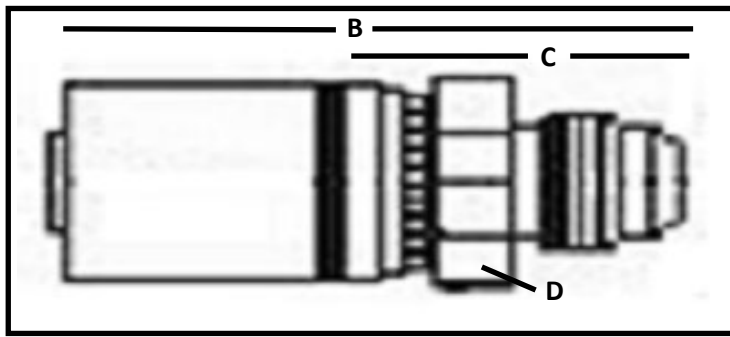
SWIVEL MALE ORB HYDRAULIC HOSE FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	E	THREAD
WAMBX-0404	1/4"	2.75"	1.50"	9/16"	11/16"	7/16" - 20
WAMBX-0406	1/4"	2.79"	1.53"	9/16"	3/4"	9/16" - 18
WAMBX-0606	3/8"	3.11"	1.64"	11/16"	3/4"	9/16" - 18
WAMBX-0608	3/8"	3.18"	1.62"	11/16"	15/16"	3/4" - 16
WAMBX-0808	1/2"	3.28"	2.03"	7/8"	15/16"	3/4" - 16
WAMBX-1212	3/4"	3.92"	2.34"	1 1/8"	1 1/8"	1 1/16" - 12
WAMBX-1616	1"	3.98"	2.25"	1 3/8"	1 1/2"	1 5/16" - 12



90 DEGREE SWIVEL MALE ORB HYDRAULIC HOSE FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	E	THREAD
WAMBX-0404-90	1/4"	2.31"	.65"	11/16"	1.41"	7/16" - 20
WAMBX-0406-90	1/4"	2.31"	.65"	3/4"	1.45"	9/16" - 18
WAMBX-0606-90	3/8"	2.77"	.74"	3/4"	1.54"	9/16" - 18
WAMBX-0608-90	3/8"	2.77"	.74"	15/16"	1.61"	3/4" - 16
WAMBX-0808-90	1/2"	2.91"	.88"	15/16"	1.68"	3/4" - 16
WAMBX-1212-90	3/4"	3.63"	1.00"	1 1/8"	2.36"	1 1/16" - 12



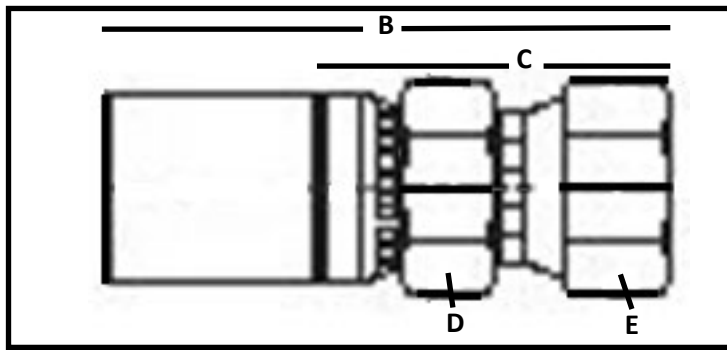
MALE JOINT INDUSTRY COUNCIL (JIC) HYDRAULIC HOSE FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	THREAD
WAMJ-0404	1/4"	2.30"	1.05"	9/16"	7/16" - 20
WAMJ-0405	1/4"	2.31"	1.05"	9/16"	1/2" - 20
WAMJ-0406	1/4"	2.31"	1.06"	9/16"	9/16" - 18
WAMJ-0604	3/8"	2.66"	1.16"	11/16"	7/16" - 18
WAMJ-0606	3/8"	2.66"	1.17"	11/16"	9/16" - 18
WAMJ-0608	3/8"	2.76"	1.27"	3/4"	3/4" - 16
WAMJ-0806	1/2"	2.74"	1.24"	7/8"	9/16" - 18
WAMJ-0808	1/2"	2.85"	1.35"	7/8"	3/4" - 16
WAMJ-0812	1/2"	3.11"	1.61"	1 1/8"	1 1/16" - 12
WAMJ-1212	3/4"	3.22"	1.63"	1 1/8"	1 1/16" - 12
WAMJ-1214	3/4"	3.24"	1.65"	1 1/4"	1 3/16" - 12
WAMJ-1216	3/4"	3.27"	1.67"	1 3/8"	1 5/16" - 12
WAMJ-1616	1"	3.42"	1.69"	1 3/8"	1 5/16" - 12
WAMJ-2020	1 1/4"	3.85"	1.85"	1 3/4"	1 5/8" - 12

HOSE FITTINGS

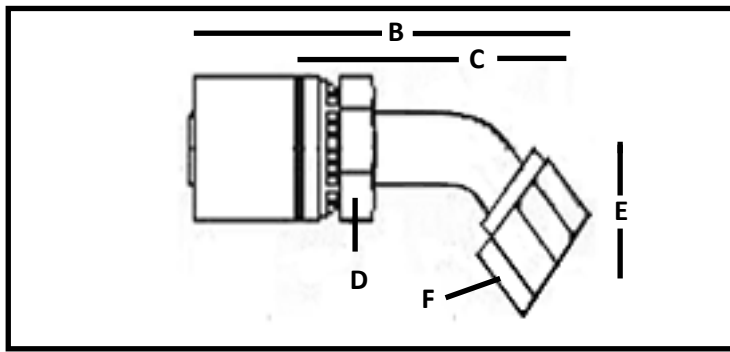


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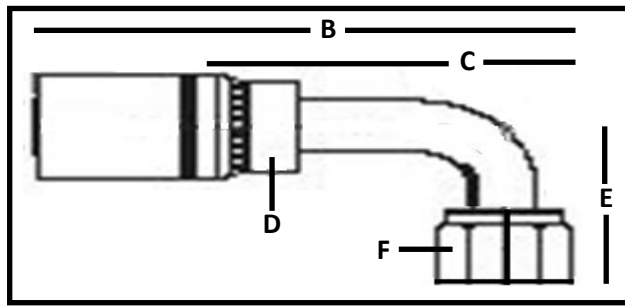
FEMALE SWIVEL JIC HYDRAULIC HOSE FITTINGS

WORLD AMERICAN®#	HOSE SIZE	B	C	D	E	THREAD
WAFJX-0403	1/4"	2.44"	1.19"	5/8"	9/16"	3/8" - 24
WAFJX-0404	1/4"	2.36"	1.10"	9/16"	9/16"	7/16" - 20
WAFJX-0405	1/4"	2.50"	1.25"	9/16"	5/8"	1/2" - 20
WAFJX-0406	1/4"	2.45"	1.19"	9/16"	11/16"	9/16" - 20
WAFJX-0408	1/4"	2.63"	1.37"	3/4"	7/8"	3/4" - 16
WAFJX-0604	3/8"	2.62"	1.12"	11/16"	9/16"	7/16" - 20
WAFJX-0606	3/8"	2.70"	1.36"	11/16"	11/16"	9/16" - 18
WAFJX-0608	3/8"	2.86"	1.36"	11/16"	7/8"	3/4" - 16
WAFJX-0806	1/2"	2.94"	1.43"	7/8"	11/16"	9/16" - 18
WAFJX-0808	1/2"	2.85"	1.59"	7/8"	7/8"	3/4" - 16
WAFJX-0812	1/2"	3.19"	1.69"	1 1/8"	1 1/4"	1 1/16" - 12
WAFJX-1208	3/4"	3.20"	1.61"	1 1/8"	7/8"	3/4" - 16
WAFJX-1212	3/4"	3.25"	1.70"	1 1/8"	1 1/4"	1 1/16" - 12
WAFJX-1214	3/4"	3.35"	1.76"	1 1/4"	1 1/2"	1 3/16" - 12
WAFJX-1216	3/4"	3.23"	1.67"	1 3/8"	1 1/2"	1 5/16" - 12
WAFJX-1612	1"	3.41"	1.72"	1 3/8"	1 1/4"	1 1/16" - 12
WAFJX-1614	1"	3.59"	1.86"	1 3/8"	1 1/2"	1 3/16" - 12
WAFJX-1616	1"	3.39"	1.66"	1 3/8"	1 1/2"	1 5/16" - 12
WAFJX-1620	1"	3.70"	1.97"	1 11/16"	2"	1 5/8" - 12
WAFJX-2016	1 1/4"	3.75"	1.75"	1 3/4"	1 1/2"	1 5/16" - 12
WAFJX-2020	1 1/4"	3.89"	1.89"	1 3/4"	2"	1 5/8" - 12



FEMALE 45 DEGREE SWIVEL JIC HYDRAULIC HOSE FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	E	F	THREAD
WAFJX-0404-45	1/4"	3.14"	1.88"	5/8"	.39"	9/16"	7/16" - 20
WAFJX-0405-45	1/4"	3.17"	1.91"	5/8"	.39"	5/8"	1/2" - 20
WAFJX-0406-45	1/4"	3.21"	1.96"	5/8"	.43"	11/16"	9/16" - 18
WAFJX-0604-45	3/8"	2.82"	1.32"	11/16"	.47"	9/16"	7/16" - 20
WAFJX-0605-45	3/8"	3.43"	1.93"	11/16"	.39"	5/8"	1/2" - 20
WAFJX-0606-45	3/8"	3.47"	1.97"	11/16"	.43"	11/16"	9/16" - 18
WAFJX-0608-45	3/8"	3.81"	2.31"	3/4"	.59"	7/8"	3/4" - 16
WAFJX-0806-45	1/2"	3.55"	2.05"	7/8"	.43"	11/16"	9/16" - 18
WAFJX-0808-45	1/2"	3.91"	2.41"	7/8"	.59"	7/8"	3/4" - 16
WAFJX-1212-45	3/4"	3.94"	2.34"	1 1/8"	.83"	1 1/4"	1 1/16" - 12
WAFJX-1216-45	3/4"	4.80"	3.20"	1 3/8"	1.29"	1 1/2"	1 5/16" - 12
WAFJX-1612-45	1"	4.90"	3.16"	1 3/8"	1.15"	1 1/4"	1 1/16" - 12
WAFJX-1616-45	1"	4.91"	3.17"	1 3/8"	1.38"	1 1/2"	1 5/16" - 12
WAFJX-1620-45	1"	5.07"	3.33"	1 3/8"	1.14"	2"	1 5/8" - 12
WAFJX-2020-45	1 1/4"	5.97"	3.97"	1 3/4"	1.47"	2"	1 5/8" - 12



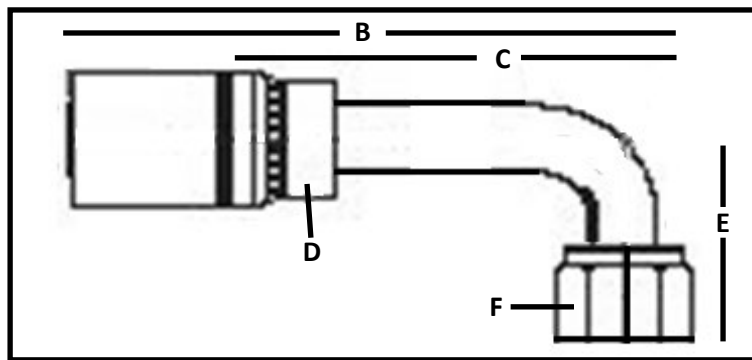
FEMALE 90 DEGREE SWIVEL JIC HYDRAULIC HOSE FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	E	F	THREAD
WAFJX-0404-90	1/4"	2.98"	1.72"	5/8"	.83"	9/16"	7/16" - 20
WAFJX-0405-90	1/4"	3.07"	1.81"	5/8"	.83"	5/8"	1/2" - 20
WAFJX-0406-90	1/4"	3.12"	1.87"	5/8"	.91"	11/16"	9/16" - 18
WAFJX-0604-90	3/8"	2.58"	1.08"	11/16"	.88"	9/16"	7/16" - 20
WAFJX-0605-90	3/8"	3.33"	1.83"	11/16"	.83"	5/8"	1/2" - 20
WAFJX-0606-90	3/8"	3.38"	1.88"	11/16"	.91"	11/16"	9/16" - 18
WAFJX-0608-90	3/8"	3.63"	2.13"	3/4"	1.12"	7/8"	3/4" - 16
WAFJX-0806-90	1/2"	3.49"	1.99"	7/8"	.91"	11/16"	9/16" - 18
WAFJX-0808-90	1/2"	3.75"	2.25"	7/8"	1.13"	7/8"	3/4" - 16
WAFJX-0812-90	3/4"	3.78"	2.28"	1 1/8"	1.83"	1 1/4"	1 1/16" - 12
WAFJX-1212-90	3/4"	3.89"	2.30"	1 1/8"	1.83"	1 1/4"	1 1/16" - 12
WAFJX-1216-90	1"	4.34"	2.75"	1 3/8"	2.80"	1 1/2"	1 5/16" - 12
WAFJX-1616-90	1"	4.50"	2.77"	1 3/8"	2.80"	1 1/2"	1 5/16" - 12
WAFJX-2020-90	1 1/4"	5.66"	3.66"	1 3/4"	3.24"	2"	1 5/8" - 12

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FEMALE LONG 90 DEGREE SWIVEL JIC HYDRAULIC HOSE FITTINGS

WORLD AMERICAN® #	HOSE SIZE	B	C	D	E	F	THREAD
WAFJX-0404-90L	1/4"	2.98"	1.72"	5/8"	1.81"	9/16"	7/16" - 20
WAFJX-0406-90L	1/4"	3.12"	1.87"	5/8"	2.13"	11/16"	9/16" - 18
WAFJX-0604-90L	3/8"	2.58"	1.08"	11/16"	1.80"	9/16"	7/16" - 20
WAFJX-0606-90L	3/8"	3.38"	1.88"	11/16"	2.13"	11/16"	9/16" - 18
WAFJX-0608-90L	3/8"	3.68"	2.18"	3/4"	2.52"	7/8"	3/4" - 16
WAFJX-0808-90L	1/2"	3.75"	2.25"	7/8"	2.52"	7/8"	3/4" - 16
WAFJX-1212-90L	3/4"	3.89"	2.30"	1 1/8"	3.78"	1 1/2"	1 1/16" - 12
WAFJX-1616-90L	1"	4.67"	2.94"	1 3/8"	4.30"	1 1/2"	1 5/16" - 12



FLOW CONTROL VALVES

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
W AFC08	1/2" FLOW CONTROL VALVE	CFQ-A-50
W AFC12	3/4" FLOW CONTROL VALVE	CFQ-A-75
W AFC10	SAE-10 FLOW CONTROL VALVE	CFQ-A-10
W AFC12	SAE-12 FLOW CONTROL VALVE	CFQ-A-12
W AFCR08	1/2" FLOW CONTROL VALVE W/RELIEF	CFQ-A-50R
W AFCR12	3/4" FLOW CONTROL VALVE W/RELIEF	CFQ-75R
W AFCR10	SAE-10 FLOW CONTROL VALVE W/RELIEF	CFQ-10R
W AFCR12	SAE-12 FLOW CONTROL VALVE W/RELIEF	CFQ-12R



WACV16

HYDRAULIC CHECK VALVES

WORLD AMERICAN® #	DESCRIPTION
WACV16	1" CHECK VALVE
WACV20	1.25" CHECK VALVE

HYDRAULIC FITTINGS & ADAPTORS

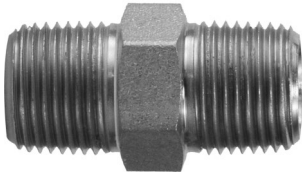
A SIDE



B SIDE

WAF	F	(S)	M	(S)	N16	N16	90
WORLD AMERICAN FITTING	A SIDE TYPE (SWIVEL)		B SIDE TYPE (SWIVEL)		A FITTING STYLE & SIZE	B SIDE TYPE & SIZE	DEGREE ANGLE

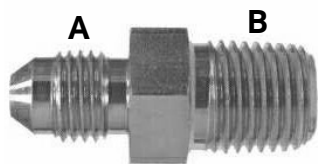
A B



WAF-MM-N16N16

NPT MALE HEX NIPPLE ADAPTERS

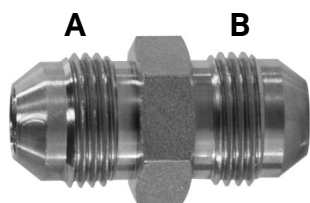
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-N04N04	1/4" NPT MALE	1/4" NPT MALE
WAF-MM-N06N04	3/8" NPT MALE	1/4" NPT MALE
WAF-MM-N06N06	3/8" NPT MALE	3/8" NPT MALE
WAF-MM-N08N04	1/2" NPT MALE	1/4" NPT MALE
WAF-MM-N08N06	1/2" NPT MALE	3/8" NPT MALE
WAF-MM-N08N08	1/2" NPT MALE	1/2" NPT MALE
WAF-MM-N12N06	3/4" NPT MALE	3/8" NPT MALE
WAF-MM-N12N08	3/4" NPT MALE	1/2" NPT MALE
WAF-MM-N12N12	3/4" NPT MALE	3/4" NPT MALE
WAF-MM-N16N12	1" NPT MALE	3/4" NPT MALE
WAF-MM-N16N16	1" NPT MALE	1" NPT MALE
WAF-MM-N20N16	1-1/4" NPT MALE	1" NPT MALE
WAF-MM-N20N20	1-1/4" NPT MALE	1-1/4" NPT MALE
WAF-MM-N24N20	1-1/2" NPT MALE	1-1/4" NPT MALE
WAF-MM-N24N24	1-1/2" NPT MALE	1-1/2" NPT MALE
WAF-MM-N32N24	2" NPT MALE	1-1/2" NPT MALE
WAF-MM-N32N32	2" NPT MALE	2" NPT MALE



WAF-MM-J1N12

JIC MALE TO NPT MALE ADAPTERS

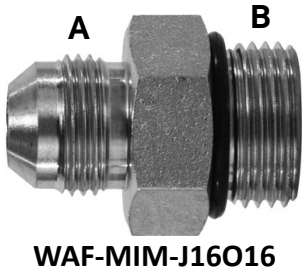
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-J04N04	04 JIC MALE	1/4" NPT MALE
WAF-MM-J04N06	04 JIC MALE	3/8" NPT MALE
WAF-MM-J04N08	04 JIC MALE	1/2" NPT MALE
WAF-MM-J06N04	06 JIC MALE	1/4" NPT MALE
WAF-MM-J06N06	06 JIC MALE	3/8" NPT MALE
WAF-MM-J06N08	06 JIC MALE	1/2" NPT MALE
WAF-MM-J08N04	08 JIC MALE	1/4" NPT MALE
WAF-MM-J08N06	08 JIC MALE	3/8" NPT MALE
WAF-MM-J08N08	08 JIC MALE	1/2" NPT MALE
WAF-MM-J08N12	08 JIC MALE	3/4" NPT MALE
WAF-MM-J08N16	08 JIC MALE	1" NPT MALE
WAF-MM-J12N06	12 JIC MALE	3/8" NPT MALE
WAF-MM-J12N08	12 JIC MALE	1/2" NPT MALE
WAF-MM-J12N12	12 JIC MALE	3/4" NPT MALE
WAF-MM-J16N12	16 JIC MALE	3/4" NPT MALE
WAF-MM-J16N16	16 JIC MALE	1" NPT MALE
WAF-MM-J20N16	20 JIC MALE	1" NPT MALE
WAF-MM-J20N20	20 JIC MALE	1-1/4" NPT MALE
WAF-MM-J24N16	24 JIC MALE	1" NPT MALE
WAF-MM-J24N20	24 JIC MALE	1-1/4" NPT MALE
WAF-MM-J32N24	32 JIC MALE	1-1/2" NPT MALE
WAF-MM-J32N32	32 JIC MALE	2" NPT MALE



WAF-MM-J12J12

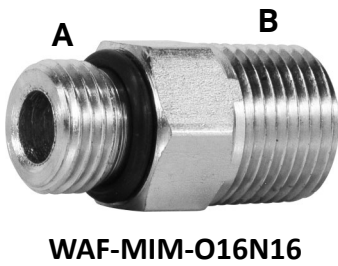
JIC MALE TO JIC MALE ADAPTERS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-J04J04	04 JIC MALE	04 JIC MALE
WAF-MM-J06J04	06 JIC MALE	04 JIC MALE
WAF-MM-J06J06	06 JIC MALE	06 JIC MALE
WAF-MM-J08J06	08 JIC MALE	06 JIC MALE
WAF-MM-J08J08	08 JIC MALE	08 JIC MALE
WAF-MM-J12J08	12 JIC MALE	08 JIC MALE
WAF-MM-J12J12	12 JIC MALE	12 JIC MALE
WAF-MM-J16J12	16 JIC MALE	12 JIC MALE
WAF-MM-J16J16	16 JIC MALE	16 JIC MALE
WAF-MM-J20J20	20 JIC MALE	20 JIC MALE
WAF-MM-J24J24	24 JIC MALE	24 JIC MALE
WAF-MM-J32J32	32 JIC MALE	32 JIC MALE



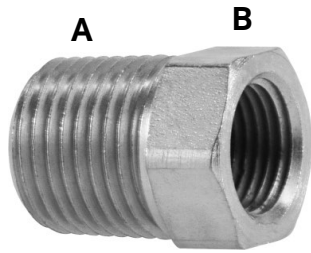
JIC MALE TO ORB MALE ADAPTERS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-J04O04	04 JIC MALE	04 ORB MALE
WAF-MM-J04O06	04 JIC MALE	06 ORB MALE
WAF-MM-J04O08	04 JIC MALE	08 ORB MALE
WAF-MM-J05O05	05 JIC MALE	05 ORB MALE
WAF-MM-J06O04	06 JIC MALE	04 ORB MALE
WAF-MM-J06O06	06 JIC MALE	06 ORB MALE
WAF-MM-J06O08	06 JIC MALE	08 ORB MALE
WAF-MM-J08O06	08 JIC MALE	06 ORB MALE
WAF-MM-J08O08	08 JIC MALE	08 ORB MALE
WAF-MM-J08O12	08 JIC MALE	12 ORB MALE
WAF-MM-J12O08	12 JIC MALE	08 ORB MALE
WAF-MM-J12O12	12 JIC MALE	12 ORB MALE
WAF-MM-J12O16	12 JIC MALE	16 ORB MALE
WAF-MM-J16O12	16 JIC MALE	12 ORB MALE
WAF-MM-J16O16	16 JIC MALE	16 ORB MALE
WAF-MM-J16O20	16 JIC MALE	20 ORB MALE
WAF-MM-J20O20	20 JIC MALE	20 ORB MALE
WAF-MM-J20O24	20 JIC MALE	24 ORB MALE
WAF-MM-J24O32	24 JIC MALE	32 ORB MALE



ORB MALE TO NPT MALE ADAPTERS

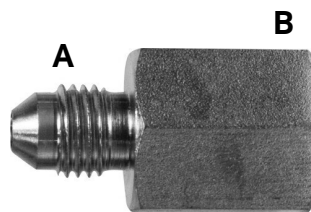
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-O04N04	04 ORB MALE	1/4" NPT MALE
WAF-MM-O06N04	06 ORB MALE	1/4" NPT MALE
WAF-MM-O06N06	06 ORB MALE	3/8" NPT MALE
WAF-MM-O08N06	08 ORB MALE	3/8" NPT MALE
WAF-MM-O08N08	08 ORB MALE	1/2" NPT MALE
WAF-MM-O12N08	12 ORB MALE	1/2" NPT MALE
WAF-MM-O12N12	12 ORB MALE	3/4" NPT MALE
WAF-MM-O16N16	16 ORB MALE	1" NPT MALE
WAF-MM-O20N20	20 ORB MALE	1-1/4" NPT MALE



WAF-MF-N20N16

NPT MALE TO NPT FEMALE ADAPTERS

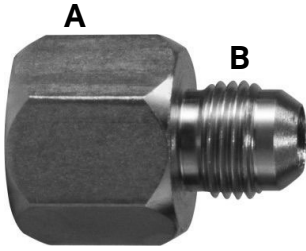
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MF-N06N04	3/8" NPT MALE	1/4" NPT FEMALE
WAF-MF-N08N04	1/2" NPT MALE	1/4" NPT FEMALE
WAF-MF-N08N06	1/2" NPT MALE	3/8" NPT FEMALE
WAF-MF-N12N04	3/4" NPT MALE	1/4" NPT FEMALE
WAF-MF-N12N06	3/4" NPT MALE	3/8" NPT FEMALE
WAF-MF-N12N08	3/4" NPT MALE	1/2" NPT FEMALE
WAF-MF-N16N08	1" NPT MALE	1/2" NPT FEMALE
WAF-MF-N16N12	1" NPT MALE	3/4" NPT FEMALE
WAF-MF-N20N16	1-1/4" NPT MALE	1" NPT FEMALE
WAF-MF-N24N20	1-1/2" NPT MALE	1-1/4" NPT FEMALE
WAF-MF-N32N20	2" NPT MALE	1-1/4" NPT FEMALE
WAF-MF-N32N24	2" NPT MALE	1-1/2" NPT FEMALE



WAF-MF-J12N12

JIC MALE TO NPT FEMALE ADAPTERS

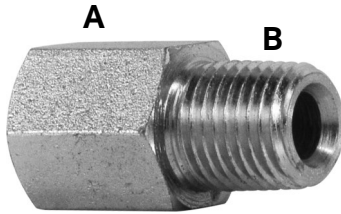
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MF-J04N04	04 JIC MALE	1/4" NPT FEMALE
WAF-MF-J06N04	06 JIC MALE	1/4" NPT FEMALE
WAF-MF-J06N06	06 JIC MALE	3/8" NPT FEMALE
WAF-MF-J08N04	08 JIC MALE	1/4" NPT FEMALE
WAF-MF-J08N06	08 JIC MALE	3/8" NPT FEMALE
WAF-MF-J08N08	08 JIC MALE	1/2" NPT FEMALE
WAF-MF-J12N08	12 JIC MALE	1/2" NPT FEMALE
WAF-MF-J12N12	12 JIC MALE	3/4" NPT FEMALE
WAF-MF-J16N12	16 JIC MALE	3/4" NPT FEMALE
WAF-MF-J16N16	16 JIC MALE	1" NPT FEMALE
WAF-MF-J20N20	20 JIC MALE	1-1/4" NPT FEMALE
WAF-MF-J24N24	24 JIC MALE	1-1/2" NPT FEMALE
WAF-MF-J32N32	32 JIC MALE	2" NPT FEMALE



WAF-FM-J12J12

JIC FEMALE TO JIC MALE ADAPTERS

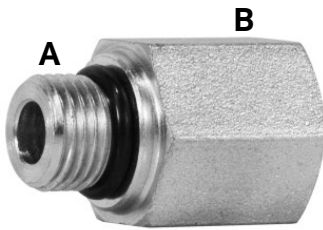
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FM-J06J04	06 JIC FEMALE	04 JIC MALE
WAF-FM-J06J08	06 JIC FEMALE	08 JIC MALE
WAF-FM-J08J04	08 JIC FEMALE	04 JIC MALE
WAF-FM-J08J06	08 JIC FEMALE	06 JIC MALE
WAF-FM-J08J12	08 JIC FEMALE	12 JIC MALE
WAF-FM-J12J04	12 JIC FEMALE	04 JIC MALE
WAF-FM-J12J06	12 JIC FEMALE	06 JIC MALE
WAF-FM-J12J08	12 JIC FEMALE	08 JIC MALE
WAF-FM-J16J12	16 JIC FEMALE	12 JIC MALE
WAF-FM-J16J20	16 JIC FEMALE	20 JIC MALE
WAF-FM-J20J12	20 JIC FEMALE	12 JIC MALE
WAF-FM-J20J16	20 JIC FEMALE	16 JIC MALE
WAF-FM-J24J16	24 JIC FEMALE	16 JIC MALE
WAF-FM-J3224	32 JIC FEMALE	24 JIC MALE



WAF-FM-O12N12

ORB FEMALE TO NPT MALE ADAPTERS

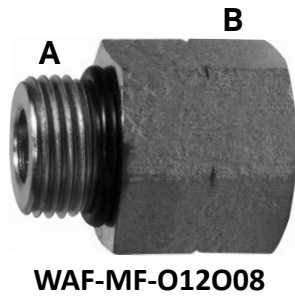
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FM-O04N04	04 ORB FEMALE	1/4" NPT MALE
WAF-FM-O06N04	06 ORB FEMALE	1/4" NPT MALE
WAF-FM-O06N06	06 ORB FEMALE	3/8" NPT MALE
WAF-FM-O06N08	06 ORB FEMALE	1/2" NPT MALE
WAF-FM-O08N08	08 ORB FEMALE	1/2" NPT MALE
WAF-FM-O12N12	12 ORB FEMALE	3/4" NPT MALE



WAF-MF-016N16

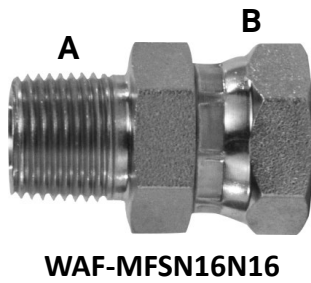
ORB MALE TO NPT FEMALE ADAPTERS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MF-O04N04	04 ORB MALE	1/4" NPT FEMALE
WAF-MF-O06N04	06 ORB MALE	1/4" NPT FEMALE
WAF-MF-O06N06	06 ORB MALE	3/8" NPT FEMALE
WAF-MF-O08N06	08 ORB MALE	3/8" NPT FEMALE
WAF-MF-O08N08	08 ORB MALE	1/2" NPT FEMALE
WAF-MF-O12N08	12 ORB MALE	1/2" NPT FEMALE
WAF-MF-O12N12	12 ORB MALE	3/4" NPT FEMALE
WAF-MF-O16N12	16 ORB MALE	3/4" NPT FEMALE
WAF-MF-O16N16	16 ORB MALE	1" NPT FEMALE
WAF-MF-O20N20	20 ORB MALE	1-1/4" NPT FEMALE
WAF-MF-O24N24	24 ORB MALE	1-1/2" NPT FEMALE
WAF-MF-O32N32	32 ORB MALE	2" NPT FEMALE



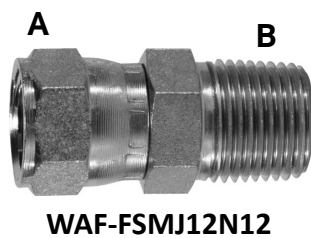
ORB MALE TO ORB FEMALE ADAPTERS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MF-O08O04	08 ORB MALE	04 ORB FEMALE
WAF-MF-O08O06	08 ORB MALE	06 ORB FEMALE
WAF-MF-O08O08	08 ORB MALE	08 ORB FEMALE
WAF-MF-O12O08	12 ORB MALE	08 ORB FEMALE



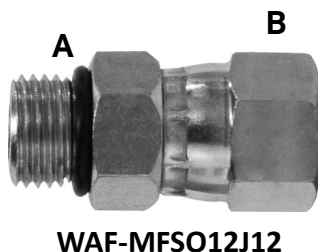
NPT MALE TO NPT FEMALE SWIVEL ADAPTERS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MFSN04N04	1/4" NPT MALE	1/4" NPT FEMALE
WAF-MFSN06N06	3/8" NPT MALE	3/8" NPT FEMALE
WAF-MFSN06N08	3/8" NPT MALE	1/2" NPT FEMALE
WAF-MFSN08N06	1/2" NPT MALE	3/8" NPT FEMALE
WAF-MFSN08N08	1/2" NPT MALE	1/2" NPT FEMALE
WAF-MFSN12N08	3/4" NPT MALE	1/2" NPT FEMALE
WAF-MFSN12N12	3/4" NPT MALE	3/4" NPT FEMALE
WAF-MFSN12N16	3/4" NPT MALE	1" NPT FEMALE
WAF-MFSN16N12	1" NPT MALE	3/4" NPT FEMALE
WAF-MFSN16N16	1" NPT MALE	1" NPT FEMALE
WAF-MFSN20N16	1-1/4" NPT MALE	1" NPT FEMALE
WAF-MFSN20N20	1-1/4" NPT MALE	1-1/4" NPT FEMALE
WAF-MFSN24N24	1-1/2" NPT MALE	1-1/2" NPT FEMALE
WAF-MFSN32N32	2" NPT MALE	2" NPT FEMALE



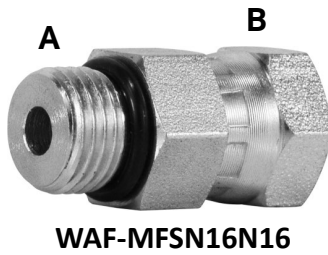
JIC FEMALE SWIVEL TO NPT MALE ADAPTERS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FSMJ04N04	04 JIC FEMALE	1/4" NPT MALE
WAF-FSMJ06N06	06 JIC FEMALE	3/8" NPT MALE
WAF-FSMJ08N08	08 JIC FEMALE	1/2" NPT MALE
WAF-FSMJ12N12	12 JIC FEMALE	3/4" NPT MALE
WAF-FSMJ16N16	16 JIC FEMALE	1" NPT MALE
WAF-FSMJ24N24	24 JIC FEMALE	1-1/4" NPT MALE



ORB MALE TO JIC FEMALE SWIVEL ADAPTERS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MFSO04J04	04 ORB MALE	04 JIC FEMALE
WAF-MFSO06J06	06 ORB MALE	06 JIC FEMALE
WAF-MFSO08J08	08 ORB MALE	08 JIC FEMALE
WAF-MFSO12J12	12 ORB MALE	12 JIC FEMALE



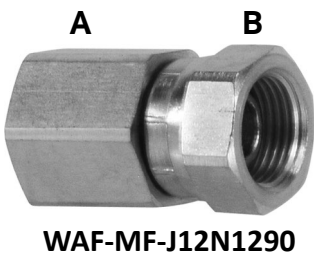
ORB MALE TO NPT FEMALE SWIVEL ADAPTERS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MFSO04N04	04 ORB MALE	1/4" NPT FEMALE
WAF-MFSO06N04	06 ORB MALE	1/4" NPT FEMALE
WAF-MFSO06N06	06 ORB MALE	3/8" NPT FEMALE
WAF-MFSO06N08	06 ORB MALE	1/2" NPT FEMALE
WAF-MFSO08N06	08 ORB MALE	3/8" NPT FEMALE
WAF-MFSO08N08	08 ORB MALE	1/2" NPT FEMALE
WAF-MFSO08N12	08 ORB MALE	3/4" NPT FEMALE
WAF-MFSO12N08	12 ORB MALE	1/2" NPT FEMALE
WAF-MFSO12N12	12 ORB MALE	3/4" NPT FEMALE
WAF-MFSO16N16	16 ORB MALE	1" NPT FEMALE



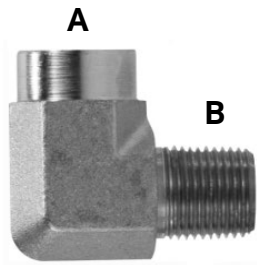
NPT FEMALE COUPLERS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FF-N04N04	1/4" NPT FEMALE	1/4" NPT FEMALE
WAF-FF-N06N04	3/8" NPT FEMALE	1/4" NPT FEMALE
WAF-FF-N06N06	3/8" NPT FEMALE	3/8" NPT FEMALE
WAF-FF-N08N04	1/2" NPT FEMALE	1/4" NPT FEMALE
WAF-FF-N08N06	1/2" NPT FEMALE	3/8" NPT FEMALE
WAF-FF-N08N08	1/2" NPT FEMALE	1/2" NPT FEMALE
WAF-FF-N12N12	3/4" NPT FEMALE	3/4" NPT FEMALE
WAF-FF-N16N12	1" NPT FEMALE	3/4" NPT FEMALE
WAF-FF-N16N16	1" NPT FEMALE	1" NPT FEMALE
WAF-FF-N20N20	1-1/4" NPT FEMALE	1-1/4" NPT FEMALE
WAF-FF-N24N24	1-1/2" NPT FEMALE	1-1/2" NPT FEMALE
WAF-FF-N32N32	2" NPT FEMALE	2" NPT FEMALE



NPT FEMALE TO NPT FEMALE SWIVEL ADAPTERS

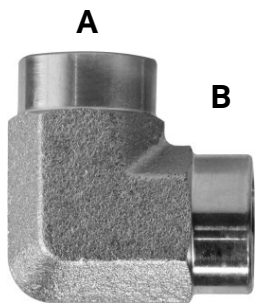
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FFSN04N04	1/4" NPT FEMALE	1/4" NPT FEMALE
WAF-FFSN06N06	3/8" NPT FEMALE	3/8" NPT FEMALE
WAF-FFSN08N08	1/2" NPT FEMALE	1/2" NPT FEMALE
WAF-FFSN12N12	3/4" NPT FEMALE	3/4" NPT FEMALE
WAF-FFSN16N16	1" NPT FEMALE	1" NPT FEMALE
WAF-FFSN20N20	1-1/4" NPT FEMALE	1-1/4" NPT FEMALE
WAF-FFSN24N24	1-1/2" NPT FEMALE	1-1/2" NPT FEMALE
WAF-FFSN32N32	2" NPT FEMALE	2" NPT FEMALE



WAF-FM-N16N1690

NPT STREET ELBOWS

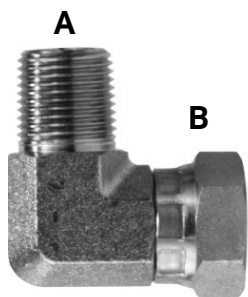
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FM-N04N0490	1/4" NPT FEMALE	1/4" NPT MALE
WAF-FM-N04N0690	1/4" NPT FEMALE	3/8" NPT MALE
WAF-FM-N06N0690	3/8" NPT FEMALE	3/8" NPT MALE
WAF-FM-N06N0890	3/8" NPT FEMALE	1/2" NPT MALE
WAF-FM-N08N0890	1/2" NPT FEMALE	1/2" NPT MALE
WAF-FM-N12N1290	3/4" NPT FEMALE	3/4" NPT MALE
WAF-FM-N16N1690	1" NPT FEMALE	1" NPT MALE
WAF-FM-N20N2090	1-1/4" NPT FEMALE	1-1/4" NPT MALE
WAF-FM-N24N2490	1-1/2" NPT FEMALE	1-1/2" NPT MALE



WAF-FM-N16N1690

NPT FEMALE ELBOWS

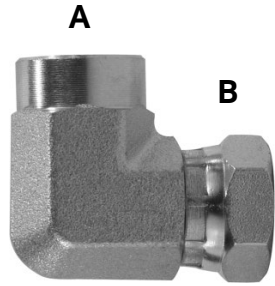
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FF-N04N0490	1/4" NPT FEMALE	1/4" NPT FEMALE
WAF-FF-N06N0690	3/8" NPT FEMALE	3/8" NPT FEMALE
WAF-FF-N06N0890	3/8" NPT FEMALE	1/2" NPT FEMALE
WAF-FF-N08N0890	1/2" NPT FEMALE	1/2" NPT FEMALE
WAF-FF-N12N1290	3/4" NPT FEMALE	3/4" NPT FEMALE
WAF-FF-N16N1690	1" NPT FEMALE	1" NPT FEMALE
WAF-FF-N20N2090	1-1/4" NPT FEMALE	1-1/4" NPT FEMALE
WAF-FF-N24N2490	1-1/2" NPT FEMALE	1-1/2" NPT FEMALE



WAF-FM-N16N1690

NPT MALE TO NPT FEMALE SWIVEL ELBOWS

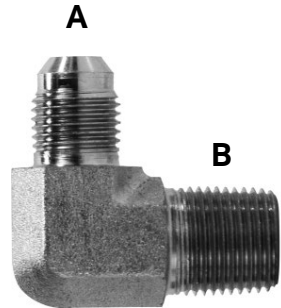
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MFSN04N0490	1/4" NPT MALE	1/4" NPT FEMALE
WAF-MFSN06N0490	3/8" NPT MALE	1/4" NPT FEMALE
WAF-MFSN06N0690	3/8" NPT MALE	3/8" NPT FEMALE
WAF-MFSN08N0690	1/2" NPT MALE	3/8" NPT FEMALE
WAF-MFSN08N0890	1/2" NPT MALE	1/2" NPT FEMALE
WAF-MFSN12N0890	3/4" NPT MALE	1/2" NPT FEMALE
WAF-MFSN12N1290	3/4" NPT MALE	3/4" NPT FEMALE
WAF-MFSN16N1290	1" NPT MALE	3/4" NPT FEMALE
WAF-MFSN16N1690	1" NPT MALE	1" NPT FEMALE
WAF-MFSN20N2090	1-1/4" NPT MALE	1-1/4" NPT FEMALE
WAF-MFSN32N3290	2" NPT MALE	2" NPT FEMALE



WAF-FFSN12N1290

NPT FEMALE TO NPT FEMALE SWIVEL ELBOWS

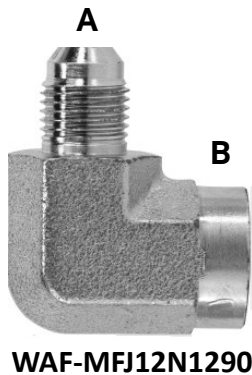
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FFSN04N0490	1/4" NPT FEMALE	1/4" NPT FEMALE
WAF-FFSN06N0490	3/8" NPT FEMALE	1/4" NPT FEMALE
WAF-FFSN06N0690	3/8" NPT FEMALE	3/8" NPT FEMALE
WAF-FFSN06N0890	3/8" NPT FEMALE	1/2" NPT FEMALE
WAF-FFSN08N0690	1/2" NPT FEMALE	3/8" NPT FEMALE
WAF-FFSN08N0890	1/2" NPT FEMALE	1/2" NPT FEMALE
WAF-FFSN12N1290	3/4" NPT FEMALE	3/4" NPT FEMALE
WAF-FFSN16N1690	1" NPT FEMALE	1" NPT FEMALE
WAF-FFSN20N2090	1-1/4" NPT FEMALE	1-1/4" NPT FEMALE



WAF-MM-J12N1690

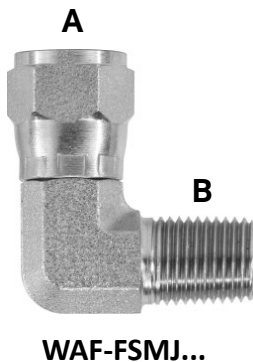
JIC MALE TO NPT MALE ELBOWS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-J04N0490	4 JIC MALE	1/4" NPT MALE
WAF-MM-J04N0890	4 JIC MALE	1/2" NPT MALE
WAF-MM-J06N0490	6 JIC MALE	1/4" NPT MALE
WAF-MM-J06N0690	6 JIC MALE	3/8" NPT MALE
WAF-MM-J06N0890	6 JIC MALE	1/2" NPT MALE
WAF-MM-J08N0690	8 JIC MALE	3/8" NPT MALE
WAF-MM-J08N0890	8 JIC MALE	1/2" NPT MALE
WAF-MM-J08N1290	8 JIC MALE	3/4" NPT MALE
WAF-MM-J12N0890	12 JIC MALE	1/2" NPT MALE
WAF-MM-J12N1290	12 JIC MALE	3/4" NPT MALE
WAF-MM-J12N1690	12 JIC MALE	1" NPT MALE
WAF-MM-J16N1290	16 JIC MALE	3/4" NPT MALE
WAF-MM-J16N1690	16 JIC MALE	1" NPT MALE
WAF-MM-J16N2090	16 JIC MALE	1-1/4" NPT MALE
WAF-MM-J20N2090	20 JIC MALE	1-1/4" NPT MALE
WAF-MM-J24N2490	24 JIC MALE	1-1/2" NPT MALE
WAF-MM-J32N3290	32 JIC MALE	2" NPT MALE



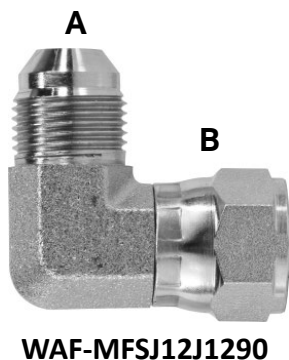
JIC MALE TO NPT FEMALE ELBOWS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MF-J04N0490	04 JIC MALE	1/4" NPT FEMALE
WAF-MF-J06N0490	06 JIC MALE	1/4" NPT FEMALE
WAF-MF-J06N0690	06 JIC MALE	3/8" NPT FEMALE
WAF-MF-J08N0690	08 JIC MALE	3/8" NPT FEMALE
WAF-MF-J08N0890	08 JIC MALE	1/2" NPT FEMALE
WAF-MF-J12N1290	12 JIC MALE	3/4" NPT FEMALE
WAF-MF-J16N1690	16 JIC MALE	1" NPT FEMALE
WAF-MF-J20N2090	20 JIC MALE	1-1/4" NPT FEMALE



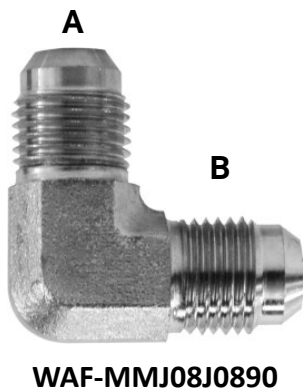
JIC FEMALE SWIVEL TO NPT MALE ELBOWS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FSMJ04N0490	04 JIC FEMALE	1/4" NPT MALE
WAF-FSMJ06N0690	06 JIC FEMALE	3/8" NPT MALE
WAF-FSMJ08N0890	08 JIC FEMALE	1/2" NPT MALE
WAF-FSMJ12N1290	12 JIC FEMALE	3/4" NPT MALE
WAF-FSMJ16N1690	16 JIC FEMALE	1" NPT MALE



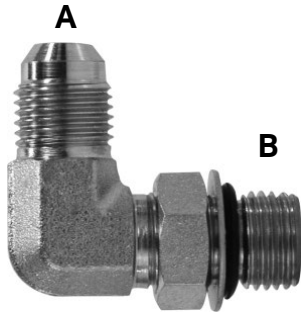
JIC MALE TO JIC FEMALE SWIVEL ELBOWS

WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MFSJ04J0490	04 JIC MALE	04 JIC FEMALE
WAF-MFSJ06J0690	06 JIC MALE	06 JIC FEMALE
WAF-MFSJ08J0890	08 JIC MALE	08 JIC FEMALE
WAF-MFSJ12J1290	12 JIC MALE	12 JIC FEMALE
WAF-MFSJ16J1690	16 JIC MALE	16 JIC FEMALE
WAF-MFSJ24J2490	24 JIC MALE	24 JIC FEMALE



JIC MALE TO JIC MALE ELBOWS

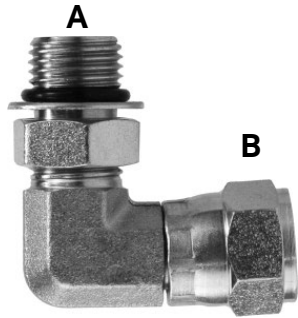
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-J04J0490	04 NPT MALE	04 NPT MALE
WAF-MM-J06J0490	06 JIC MALE	04 JIC MALE
WAF-MM-J06J0690	06 JIC MALE	06 NPT MALE
WAF-MM-J08J0690	08 JIC MALE	06 JIC MALE
WAF-MM-J08J0890	08 JIC MALE	08 JIC MALE
WAF-MM-J12J1290	12 JIC MALE	12 JIC MALE
WAF-MM-J16J1690	16 JIC MALE	16 JIC MALE
WAF-MM-J20J2090	20 JIC MALE	20 JIC MALE
WAF-MM-J24J2490	24 JIC MALE	24 JIC MALE
WAF-MM-J32J3290	32 JIC MALE	32 JIC MALE



WAF-FM-J16O1690

JIC MALE TO ORB MALE ELBOWS

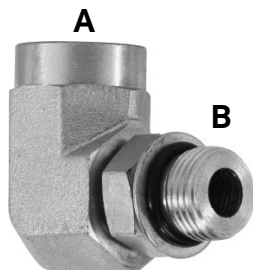
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-J04O0490	04 JIC MALE	04 ORB MALE
WAF-MM-J04O0690	04 JIC MALE	06 ORB MALE
WAF-MM-J06O0690	06 JIC MALE	06 ORB MALE
WAF-MM-J06O0490	06 JIC MALE	04 ORB MALE
WAF-MM-J08O0890	08 JIC MALE	08 ORB MALE
WAF-MM-J08O0690	08 JIC MALE	06 ORB MALE
WAF-MM-J08O1290	08 JIC MALE	12 ORB MALE
WAF-MM-J12O1290	12 JIC MALE	12 ORB MALE
WAF-MM-J12O1690	12 JIC MALE	16 ORB MALE
WAF-MM-J16O1690	16 JIC MALE	16 ORB MALE
WAF-MM-J20O2090	20 JIC MALE	20 ORB MALE



WAF-MFSO04J0490

ORB MALE TO JIC FEMALE SWIVEL ELBOWS

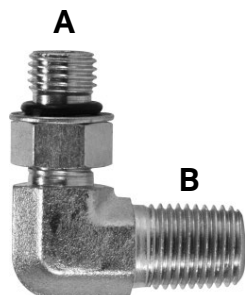
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MFSO04J0490	04 ORB MALE	04 JIC FEMALE
WAF-MFSO06J0690	06 ORB MALE	06 JIC FEMALE
WAF-MFSO08J0890	08 ORB MALE	08 JIC FEMALE
WAF-MFSO12J1290	12 ORB MALE	12 JIC FEMALE



WAF-FM-O12O1290

ORB FEMALE TO ORB MALE ELBOWS

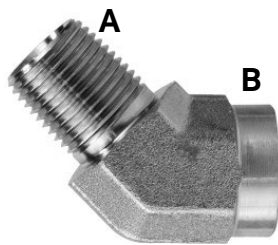
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FM-O04O0490	04 ORB FEMALE	04 ORB MALE
WAF-FM-O06O0690	06 ORB FEMALE	06 ORB MALE
WAF-FM-O08O0890	08 ORB FEMALE	08 ORB MALE
WAF-FM-O12O1290	12 ORB FEMALE	12 ORB MALE



WAF-MM-O12N1290

ORB MALE TO NPT MALE ELBOWS

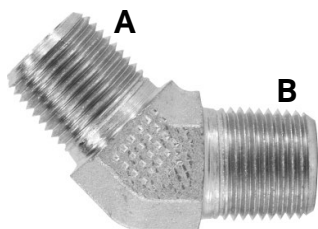
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-O04N0490	04 ORB MALE	1/4" NPT MALE
WAF-MM-O06N0690	06 ORB MALE	3/8" NPT MALE
WAF-MM-O08N0890	08 ORB MALE	1/2" NPT MALE
WAF-MM-O12N1290	12 ORB MALE	3/4" NPT MALE
WAF-MM-O16N1690	16 ORB MALE	1" NPT MALE



WAF-MF-N04N0445

NPT MALE TO NPT FEMALE 45 DEGREE ADAPTERS

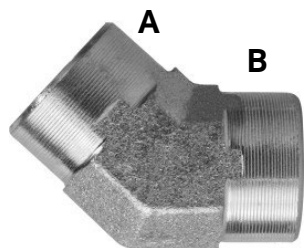
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MF-N04N0445	1/4" NPT MALE	1/4" NPT FEMALE
WAF-MF-N06N0645	3/8" NPT MALE	3/8" NPT FEMALE
WAF-MF-N08N0845	1/2" NPT MALE	1/2" NPT FEMALE
WAF-MF-N12N1245	3/4" NPT MALE	3/4" NPT FEMALE
WAF-MF-N16N1645	1" NPT MALE	1" NPT FEMALE



WAF-MM-N04N0445

NPT MALE TO NPT MALE 45 DEGREE ADAPTERS

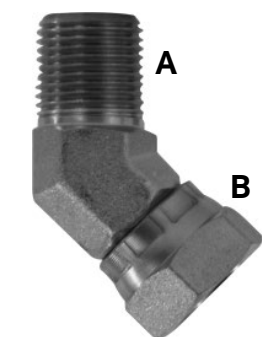
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-N04N0445	1/4" NPT MALE	1/4" NPT MALE
WAF-MM-N06N0645	3/8" NPT MALE	3/8" NPT MALE
WAF-MM-N08N0845	1/2" NPT MALE	1/2" NPT MALE
WAF-MM-N12N1245	3/4" NPT MALE	3/4" NPT MALE
WAF-MM-N16N1645	1" NPT MALE	1" NPT MALE



WAF-FF-N20N2045

NPT FEMALE 45 DEGREE ADAPTERS

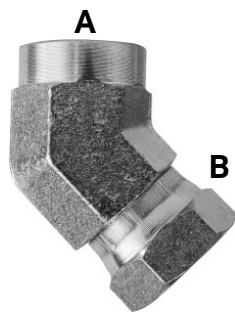
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FF-N04N0445	1/4" NPT FEMALE	1/4" NPT FEMALE
WAF-FF-N06N0645	3/8" NPT FEMALE	3/8" NPT FEMALE
WAF-FF-N08N0845	1/2" NPT FEMALE	1/2" NPT FEMALE
WAF-FF-N12N1245	3/4" NPT FEMALE	3/4" NPT FEMALE
WAF-FF-N16N1645	1" NPT FEMALE	1" NPT FEMALE
WAF-FF-N20N2045	1-1/4" NPT FEMALE	1-1/4" NPT FEMALE



WAF-MFSN16N1245

NPT MALE TO NPT FEMALE SWIVEL 45 DEGREE ADAPTERS

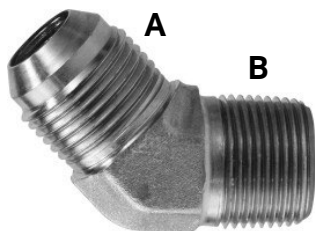
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MFSN04N0445	1/4" NPT MALE	1/4" NPT FEMALE
WAF-MFSN06N0445	3/8" NPT MALE	1/4" NPT FEMALE
WAF-MFSN06N0645	3/8" NPT MALE	3/8" NPT FEMALE
WAF-MFSN08N0645	1/2" NPT MALE	3/8" NPT FEMALE
WAF-MFSN08N0845	1/2" NPT MALE	1/2" NPT FEMALE
WAF-MFSN12N0845	3/4" NPT MALE	1/2" NPT FEMALE
WAF-MFSN12N1245	3/4" NPT MALE	3/4" NPT FEMALE
WAF-MFSN16N1245	1" NPT MALE	3/4" NPT FEMALE
WAF-MFSN16N1645	1" NPT MALE	1" NPT FEMALE



WAF-FFSN16N1645

NPT FEMALE TO NPT FEMALE SWIVEL 45 DEGREE ADAPTERS

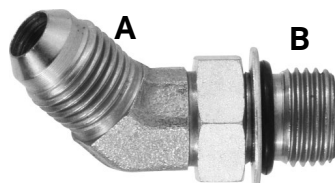
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-FFSN04N0445	1/4" NPT FEMALE	1/4" NPT FEMALE
WAF-FFSN06N0645	3/8" NPT FEMALE	3/8" NPT FEMALE
WAF-FFSN08N0845	1/2" NPT FEMALE	1/2" NPT FEMALE
WAF-FFSN12N1245	3/4" NPT FEMALE	3/4" NPT FEMALE
WAF-FFSN16N1645	1" NPT FEMALE	1" NPT FEMALE



WAF-MM-J16N1645

JIC MALE TO NPT MALE 45 DEGREE ADAPTERS

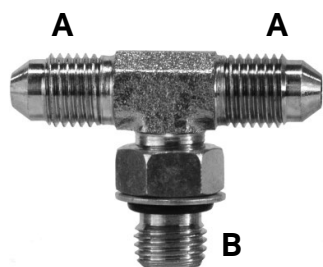
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-J04N0445	04 JIC MALE	1/4" NPT MALE
WAF-MM-J06N0445	06 JIC MALE	1/4" NPT MALE
WAF-MM-J06N0645	06 JIC MALE	3/8" NPT MALE
WAF-MM-J06N0845	06 JIC MALE	1/2" NPT MALE
WAF-MM-J08N0645	08 JIC MALE	3/8" NPT MALE
WAF-MM-J08N0845	08 JIC MALE	1/2" NPT MALE
WAF-MM-J12N1245	12 JIC MALE	3/4" NPT MALE
WAF-MM-J12N1645	12 JIC MALE	1" NPT MALE
WAF-MM-J16N1645	16 JIC MALE	1" NPT MALE
WAF-MM-J16N2045	16 JIC MALE	1-1/4" NPT MALE
WAF-MM-J20N1645	20 JIC MALE	1" NPT MALE
WAF-MM-J20N2045	20 JIC MALE	1-1/4" NPT MALE



WAF-MMJ16O1645

JIC MALE TO ORB MALE 45 DEGREE ADAPTERS

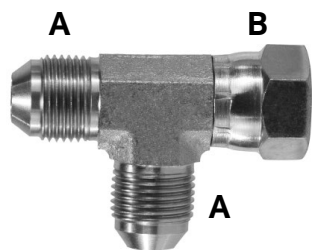
WORLD AMERICAN® #	SIDE A	SIDE B
WAF-MM-J04O0445	04 JIC MALE	04 ORB MALE
WAF-MM-J06O0645	06 JIC MALE	06 ORB MALE
WAF-MM-J08O0845	08 JIC MALE	08 ORB MALE
WAF-MM-J08O0645	08 JIC MALE	06 ORB MALE
WAF-MM-J12O1245	12 JIC MALE	12 ORB MALE
WAF-MM-J16O1645	16 JIC MALE	16 ORB MALE
WAF-MM-J20O2045	20 JIC MALE	20 ORB MALE



WAT-MMM-J08O08

JIC MALE TO ORB MALE TEES

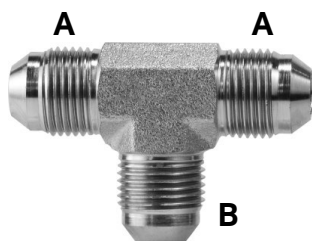
WORLD AMERICAN® #	SIDE A	SIDE B
WAT-MMM-J04O04	04 JIC MALE	04 ORB MALE
WAT-MMM-J06O06	06 JIC MALE	06 ORB MALE
WAT-MMM-J08O08	08 JIC MALE	08 ORB MALE
WAT-MMM-J12O12	12 JIC MALE	12 ORB MALE
WAT-MMM-J16O16	16 JIC MALE	16 ORB MALE



WAT-MMFJ12J12

JIC MALE TO JIC FEMALE SWIVEL TEES

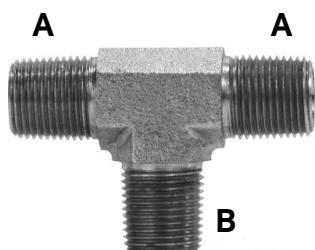
WORLD AMERICAN® #	SIDE A	SIDE B
WAT-MMFSJ04J04	04 JIC MALE	04 JIC FEMALE
WAT-MMFSJ05J05	05 JIC MALE	05 JIC FEMALE
WAT-MMFSJ06J06	06 JIC MALE	06 JIC FEMALE
WAT-MMFSJ08J08	08 JIC MALE	08 JIC FEMALE
WAT-MMFSJ12J12	12 JIC MALE	12 JIC FEMALE
WAT-MMFSJ16J16	16 JIC MALE	16 JIC FEMALE
WAT-MMFSJ24J24	24 JIC MALE	24 JIC FEMALE



WAT-MMM-J12J12

JIC MALE TEES

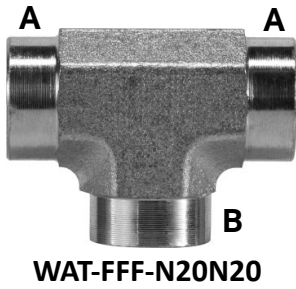
WORLD AMERICAN® #	SIDE A	SIDE B
WAT-MMM-J04J04	04 JIC MALE	04 JIC MALE
WAT-MMM-J06J06	06 JIC MALE	06 JIC MALE
WAT-MMM-J08J08	08 JIC MALE	08 JIC MALE
WAT-MMM-J12J12	12 JIC MALE	12 JIC MALE
WAT-MMM-J16J16	16 JIC MALE	16 JIC MALE



WAT-MMM-N16N16

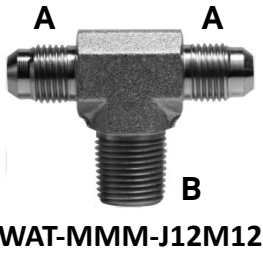
NPT MALE TEES

WORLD AMERICAN® #	SIDE A	SIDE B
WAT-MMM-N04N04	1/4" NPT MALE	1/4" NPT MALE
WAT-MMM-N06N06	3/8" NPT MALE	3/8" NPT MALE
WAT-MMM-N08N08	1/2" NPT MALE	1/2" NPT MALE
WAT-MMM-N12N12	3/4" NPT MALE	3/4" NPT MALE
WAT-MMM-N16N16	1" NPT MALE	1" NPT MALE



NPT FEMALE TEES

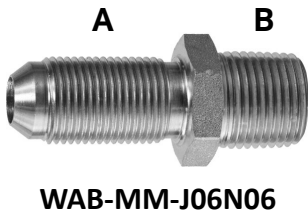
WORLD AMERICAN® #	SIDE A	SIDE B
WAT-FFF-N04N04	1/4" NPT FEMALE	1/4" NPT FEMALE
WAT-FFF-N06N06	3/8" NPT FEMALE	3/8" NPT FEMALE
WAT-FFF-N08N08	1/2" NPT FEMALE	1/2" NPT FEMALE
WAT-FFF-N12N12	3/4" NPT FEMALE	3/4" NPT FEMALE
WAT-FFF-N16N16	1" NPT FEMALE	1" NPT FEMALE
WAT-FFF-N20N20	1-1/4" NPT FEMALE	1-1/4" NPT FEMALE



JIC MALE TO NPT MALE TEES

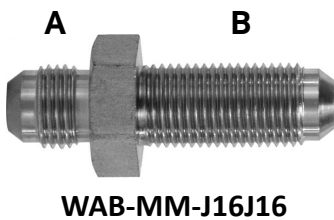
WORLD AMERICAN® #	SIDE A	SIDE B
WAT-MMM-J04N04	04 JIC MALE	1/4" NPT MALE
WAT-MMM-J06N06	06 JIC MALE	3/8" NPT MALE
WAT-MMM-J08N08	08 JIC MALE	1/2" NPT MALE
WAT-MMM-J12N12	12 JIC MALE	3/4" NPT MALE

BULKHEAD FITTINGS ADAPTERS



JIC MALE TO NPT MALE BULKHEAD ADAPTERS

WORLD AMERICAN® #	SIDE A	SIDE B
WAB-MM-J04N04	04 JIC MALE	1/4" NPT MALE
WAB-MM-J06N06	06 JIC MALE	3/8" NPT MALE
WAB-MM-J08N08	08 JIC MALE	1/2" NPT MALE
WAB-MM-J12N12	12 JIC MALE	3/4" NPT MALE
WAB-MM-J16N16	16 JIC MALE	1" NPT MALE



JIC BULK HEAD ADAPTERS

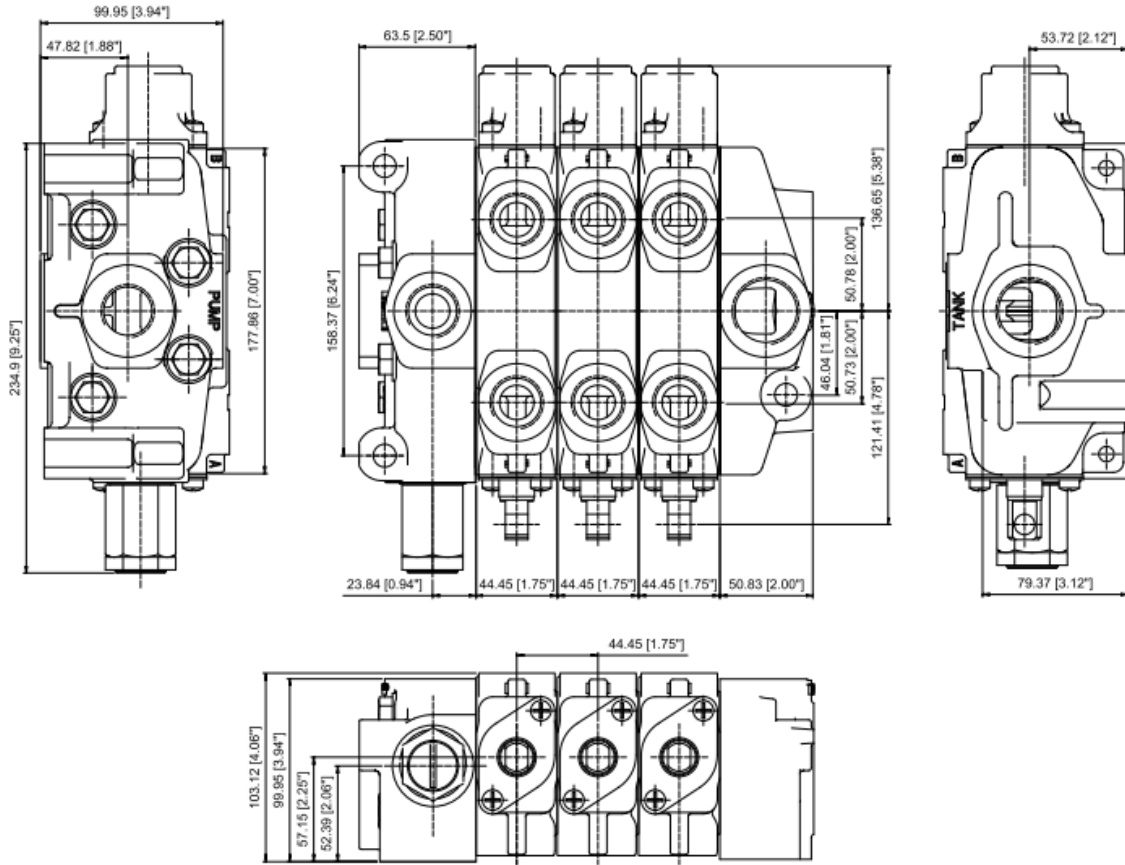
WORLD AMERICAN® #	SIDE A	SIDE B
WAB-MM-J04J04	04 JIC MALE	04 JIC MALE
WAB-MM-J06J06	06 JIC MALE	06 JIC MALE
WAB-MM-J08J08	08 JIC MALE	08 JIC MALE
WAB-MM-J12J12	12 JIC MALE	12 JIC MALE
WAB-MM-J16J16	16 JIC MALE	16 JIC MALE



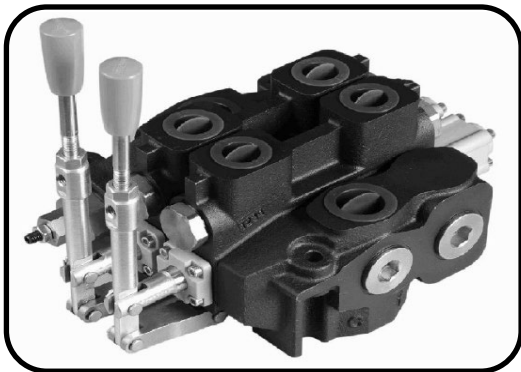
BULKHEAD LOCK NUTS

WORLD AMERICAN® #	DESCRIPTION
WAF-LN-04	04 LOCK NUT
WAF-LN-06	06 LOCK NUT
WAF-LN-08	08 LOCK NUT
WAF-LN-12	12 LOCK NUT
WAF-LN-16	16 LOCK NUT

DIRECTIONAL VALVE ASSEMBLY CODING





WADV4L	-	A88S	-	A1	-	A2	-	A3	-	B1	-	T88
WORLD AMERICAN		INLET		WORK		WORK		WORK		WORK		OUTLET
DIRECTIONAL		TYPE		SECTION		SECTION		SECTION		SECTION		TYPE
VALVE SERIES				#1		#2		#3		#4		



*** OPTIONAL SECTIONS**
Can stack up to 8 total sections

DIRECTIONAL VALVE ASSEMBLY ORDER SHEET

MODEL: WADV4 _____ WADV7 _____

ASSEMBLY DIRECTION: LEFT  _____ RIGHT  _____

INLET TYPE: A - STANDARD

INLET PORTING: 44 = 1" NPT
88 = -16 ORB

PRIMARY RELIEF: S = STANDARD 2500 PSI
H = HI-PRESSURE 3000 PSI
N = PLUGGED

SECTIONS: (CAN STACK UP TO 8 SECTIONS TOTAL)

(REFER TO PAGE#S 102/106 FOR LOW BOY WORK SECTION AND PAGE 103/107 FOR HI-BOY WORK SECTION CODES)

WORK SECTION #1: _____	DO YOU WANT A HANDLE INCLUDED: YES _____ NO _____
SECTION #2: _____*	DO YOU WANT A HANDLE INCLUDED: YES _____ NO _____
SECTION #3: _____*	DO YOU WANT A HANDLE INCLUDED: YES _____ NO _____
SECTION #4: _____*	DO YOU WANT A HANDLE INCLUDED: YES _____ NO _____
SECTION #5: _____*	DO YOU WANT A HANDLE INCLUDED: YES _____ NO _____
SECTION #6: _____*	DO YOU WANT A HANDLE INCLUDED: YES _____ NO _____
SECTION #7: _____*	DO YOU WANT A HANDLE INCLUDED: YES _____ NO _____
SECTION #8: _____*	DO YOU WANT A HANDLE INCLUDED: YES _____ NO _____

(* OPTIONAL)

OUTLET TYPE: T = STANDARD TANK RETURN
P = POWER BEYOND
R = THRU-HOLE STYLE TANK RETURN

OUTLET PORTING SIZES: DV4 44 = 1" NPT
88 = -16 ORB

DV7 55 = 1-1/4" NPT
99 = -20 ORB

FOR MID-INLET VERSIONS: SUBSTITUTE ANY WORK SECTION 2 THRU 7 FOR THE FOLLOWING:

MID-INLET TYPE: S = SPLIT FLOW
C = COMBINED FLOW

MID-INLET PORT SIZES: 4 = 1" NPT
8 = -16 ORB

MID-INLET RELIEF VALVE: S = STANDARD 2500 PSI
H = HI-PRESSURE 3000 PSI
N = PLUGGED

ASSEMBLY CODE:

WADV - _ - _ - _ - _ - _ - _ - _ - _ - _

DV4 INLETS

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-IN-1000	A44	INLET, 1" NPT PORTS	347-9175-001, DVA20-A440
WA20-IN-1001	A88	INLET, SAE-16 PORTS	347-9175-002, DVA20-A880

DV4 MAIN RELIEF VALVES

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-RF-2500	S	500 - 250 PSI ADJUSTABLE	347-1873-001, DVA20-MRV
WA20-RF-3500	H	2000 - 3500 PSI ADJUSTABLE	347-1873-128, DVA20-HMRV
WA20-RF-PLUG4	N	DV4 MAIN RELIEF VALVE PLUG	347-1873-002, DVG-MRVP

DV4 WORK SECTIONS (LO-BOY)

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-WS-0001	A1	SINGLE ACTING CYL DETENT 3 POS. 3/4" NPT	347-9171-026, DVA20-SB3
WA20-WS-0004	A2	SINGLE ACTING CYL DETENT 3 POS. SAE-12	347-9171-027, DVA20-SB7
WA20-WS-0018	A3	SINGLE ACTING CYL SPRING RETURN 3/4" NPT	347-9171-002, DVA20-SA3
WA20-WS-0019	A4	SINGLE ACTING CYL SPRING RETURN SAE-12	347-9171-003, DVA20-SA7
WA20-WS-0020	A5	SINGLE ACTING CYL METERED AS SPG RETURN 3/4"	347-9101-129, DVA20-SV3
WA20-WS-0007	A6	SINGLE ACTING CYL METERED AS SPG RETURN SAE-12	347-9171-018, DVA20-SV7
WA20-WS-0021	A7	SINGLE ACTING CYL ON/OFF AS 3/4" NPT	DVA20-SVA3
WA20-WS-0022	A8	SINGLE ACTING CYL ON/OFF AS SAE-12	DVA20-SVA7
WA20-WS-0023	A9	SINGLE ACTING CYL METERING HYD 3/4" NPT	DVA20-SX3
WA20-WS-0024	A0	SINGLE ACTING CYL METERING HYD SAE-12	347-9101-161, DVA20-SX7

WA20-WS-0008	B1	DOUBLE ACTING CYL DETENT 3 POS. 3/4" NPT	347-9172-026, DVA20-DB3
WA20-WS-0009	B2	DOUBLE ACTING CYL DETENT 3 POS. SAE-12	347-9172-027, DVA20-DB7
WA20-WS-0002	B3	DOUBLE ACTING CYL SPRING RETURN 3/4" NPT	347-9172-002, DVA20-DA3
WA20-WS-0003	B4	DOUBLE ACTING CYL SPRING RETURN SAE-12	347-9172-003, DVA20-DA7
WA20-WS-0010	B5	DOUBLE ACTING CYL METERED AS SPG RETURN 3/4"	347-9172-033, DVA20-DV3
WA20-WS-0011	B6	DOUBLE ACTING CYL METERED AS SPG RETURN SAE-12	347-9172-034, DVA20-DV7
WA20-WS-0025	B7	DOUBLE ACTING CYL ON/OFF AS 3/4" NPT	DVA20-DVA3
WA20-WS-0026	B8	DOUBLE ACTING CYL ON/OFF AS SAE-12	DVA20-DVA7
WA20-WS-0014	B9	DOUBLE ACTING CYL METERING HYD 3/4" NPT	347-9172-043, DVA20-DX3
WA20-WS-0015	B0	DOUBLE ACTING CYL METERING HYD SAE-12	347-9172-044, DVA20-DX7

WA20-WS-0012	C1	DOUBLE ACTING MTR DETENT 3 POS. 3/4" NPT	347-9172-039, DVA20-MB3
WA20-WS-0013	C2	DOUBLE ACTING MTR DETENT 3 POS. SAE-12	347-9172-040, DVA20-MB7
WA20-WS-0005	C3	DOUBLE ACTING MTR SPRING RETURN 3/4" NPT	347-9172-005, DVA20-MA3
WA20-WS-0006	C4	DOUBLE ACTING MTR SPRING RETURN SAE-12	347-9172-006, DVA20-MA7
WA20-WS-0027	C5	DOUBLE ACTING MTR METERED AS SPG RETURN 3/4"	347-9172-136, DVA20-MV3
WA20-WS-0028	C6	DOUBLE ACTING MTR METERED AS SPG RETURN SAE-12	347-9172-137, DVA20-MV7
WA20-WS-0029	C7	DOUBLE ACTING MTR ON/OFF AS 3/4" NPT	DVA20-MVA3
WA20-WS-0030	C8	DOUBLE ACTING MTR ON/OFF AS SAE-12	DVA20-MVA7
WA20-WS-0016	C9	DOUBLE ACTING MTR METERING HYD 3/4" NPT	347-9172-062, DVA20-MX3
WA20-WS-0017	C0	DOUBLE ACTING MTR METERING HYD SAE-12	347-9172-063, DVA20-MX7

DV4 WORK SECTIONS (HI-BOY)

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-WS-0108	D1	SINGLE ACTING CYL DETENT 3 POS. 3/4" NPT	347-9171-010, DVA20-JB3
WA20-WS-0109	D2	SINGLE ACTING CYL DETENT 3 POS. SAE-12	347-9171-012, DVA20-JB7
WA20-WS-0101	D3	SINGLE ACTING CYL SPRING RETURN 3/4" NPT	347-9171-005, DVA20-JA3
WA20-WS-0102	D4	SINGLE ACTING CYL SPRING RETURN SAE-12	947-9171-006, DVA20-JV3
WA20-WS-0106	D5	SINGLE ACTING CYL METERED AS SPG RETURN 3/4"	347-9171-011, DVA20-JV3
WA20-WS-0107	D6	SINGLE ACTING CYL METERED AS SPG RETURN SAE-12	DVA20-JV7
WA20-WS-0113	D7	SINGLE ACTING CYL ON/OFF AS 3/4" NPT	DVA20-JV3
WA20-WS-0114	D8	SINGLE ACTING CYL ON/OFF AS SAE-12	DVA20-JV7
WA20-WS-0115	D9	SINGLE ACTING CYL METERING HYD 3/4" NPT	DVA20-
WA20-WS-0116	D0	SINGLE ACTING CYL METERING HYD SAE-12	

WA20-WS-0103	E1	DOUBLE ACTING CYL DETENT 2 POS. 3/4" NPT	347-9172-017, DVA20-HB3
WA20-WS-0110	E2	DOUBLE ACTING CYL DETENT 3 POS. SAE 12	347-9172-018, DVA20-HB7
WA20-WS-0104	E3	DOUBLE ACTING CYL SPRING RETURN 3/4" NPT	347-9172-008, DVA20-HA3
WA20-WS-0105	E4	DOUBLE ACTING CYL SPRING RETURN SAE 12	347-9172-009, DVA20-HA7
WA20-WS-0117	E5	DOUBLE ACTING CYL METERED AS SPRING RETURN 3/4"	347-9172-024, DVA20-HV3
WA20-WS-0118	E6	DOUBLE ACTING CYL METERED AS SPRING RETURN SAE 12	347-9172-025, DVA20-HV7
WA20-WS-0119	E7	DOUBLE ACTING CYL ON/OFF AS 3/4" NPT	DVA20-HDVA3
WA20-WS-0120	E8	DOUBLE ACTING CYL ON/OFF AS SAE 12	DVA20-HDVA7
WA20-WS-0121	E9	DOUBLE ACTING CYL METERING HYD 3/4" NPT	347-9172-045, DVA20-LX3
WA20-WS-0122	E0	DOUBLE ACTING CYL METERING HYD SAE 12	347-9172-046, DVA20-LX7

WA20-WS-0111	F1	DOUBLE ACTING MTR DETENT 3 POS. 3/4" NPT	347-9172-177, DVA20-LB3
WA20-WS-0112	F2	DOUBLE ACTING MTR DETENT 3 POS. SAE 12	347-9172-178, DVA20-LB7
WA20-WS-0123	F3	DOUBLE ACTING MTR SPRING RETURN 3/4" NPT	347-9172-011, DVA20-LA3
WA20-WS-0124	F4	DOUBLE ACTING MTR SPRING RETURN SAE 12	347-9172-012, DVA20-LA7
WA20-WS-0125	F5	DOUBLE ACTING MTR METERED AS SPRING RETURN 3/4"	347-9172-126, DVA20-LV3
WA20-WS-0126	F6	DOUBLE ACTING MTR METERED AS SPRING RETURN SAE 12	347-9172-127, DVA20-LV7
WA20-WS-0127	F7	DOUBLE ACTING MTR ON/OFF AS 3/4" NPT	DVA20-LVA3
WA20-WS-0128	F8	DOUBLE ACTING MTR ON/OFF AS SAE 12	DVA20-LVA7
WA20-WS-0129	F9	DOUBLE ACTING MTR METERED HYD 3/4" NPT	347-9172-072, DVA20-LX3
WA20-WS-0130	F0	DOUBLE ACTING MTR METERED HYD SAE 12	347-9172-073, DVA20-LX7

*ALL HI-BOY WORK SECTIONS IN ASSEMBLIES COME STANDARD WITH TWO ANTI-CAVITATION RELIEF VALVES (WA20-PR-5000) THAT ARE ADJUSTABLE FROM 500 TO 5000 PSI AND ARE PRE-SET AT 2500 PSI.

PORT RELIEF VALVES FOR HI-BOY WORK SECTIONS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-PR-5000	PORT RELIEF VALVE W/ AC500-5000 PSI	391-1873-006, DR-PRVAC
WA20-PR-5001	PORT VALVE AC ONLY	391-1873-010, DV-AC
WA20-PR-1000	PORT RELIEF ADJUSTABLE 500-1000 PSI	391-1873-344, DV-PRVS1
WA20-PR-2500	PORT RELIEF ADJUSTABLE 1000-2500 PSI	391-1873-345, DV-PRVS2
WA20-PR-3500	PORT RELIEF ADJUSTABLE 2500-3500 PSI	391-1873-346, DV-PRVS3
WA20-PR-2000	PILOT PORT RELIEF VALVE 2000+/-100 PSI	391-9109-027, DV-PPRV-2000
WA20-PR-PLUG	PORT RELIEF VALVE PLUG	391-1873-011, DV-PRVP

WADV4 HANDLE KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-HK-0080	8" HANDLE	391-1873-094, DV20-H-4
WA20-HK-008H	8" HANDLE - HI-BOY STYLE	391-1873-062, DV20-H-8
WA20-HK-001H	10" HANDLE - HI-BOY STYLE	391-1873-063, DV20-H10

WADV4 SPOOL ACTUATION KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-SA-3206	METERED AIR SHIFT KIT	391-1873-203, DV20-K-113
WA20-SA-3207	ON/OFF AIR SHIFT KIT	391-1873-206A, DV20-K-113A
WA20-SA-3019	SPRING RETURN KIT	391-1873-019, DV20-K-100
WA20-SA-3020	3 POSITION DETENT KIT	391-1873-020, DV20-K-101
WA20-SA-3021	METERED HYD REMOTE CONTROL	391-1873-173, DV20-K-109

DV4 MID-INLETS

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-MI-1000	S44	MID-INLET, 3/4" PORTS SPLIT FLOW	347-9174-001, DVA20-SFA30
WA20-MI-1001	S88	MID-INLET, SAE-12 PORTS SPIT FLOW	347-9174-002, DVA20-SFA70
WA20-MI-1002	C44	MID-INLET, 3/4" NPT PORTS COMBINED	347-9174-003, DVA20-CFA30
WA20-MI-1003	C88	MID-INLET, -12 ORB PORTS COMBINED	347-9174-004, DVA20-CFA70

PLUGS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-PLUG-0050	1/2" NPT PLUG	391-1873-012, DV-DPL-50
WA20-PLUG-0075	3/4" NPT PLUG	391-1873-013, DV-DPL-75
WA20-PLUG-0100	1" NPT PLUG	391-1873-014, DV-DPL-100
WA20-PLUG-0125	1.25" NPT PLUG	391-1873-015, DV-DPL-125
WA20-PLUG-0150	1.5" NPT PLUG	391-1873-228, DV-DPL-150
WA20-PLUG-0008	SAE-8 PLUG	391-1873-229, DV-DPL-8
WA20-PLUG-0010	SAE-10 PLUG	391-1873-230, DV-DPL-10
WA20-PLUG-0012	SAE-12 PLUG	391-1873-016, DV-DPL-12
WA20-PLUG-0016	SAE-16 PLUG	391-1873-017, DV-DPL-16
WA20-PLUG-0020	SAE-20 PLUG	391-1873-018, DV-DPL-20

WADV4 OUTLETS

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-OT-0010	T44	OUTLET, 1" NPT PORT	347-9176-001, DVA20-TR44
WA20-OT-0011	T88	OUTLET, SAE-16 PORTS	347-9176-002, DVA20-TR88
WA20-OT-0014	T50	OUTLET, 1-1/4" NPT SIDE PORT ONLY	347-0176-501, DVA20-TR50
WA20-OT-0012	P44	OUTLET, 1" NPT PORTS - POWER BEYOND	347-9176-003, DVA20-PB44
WA20-OT-0013	P88	OUTLET, SAE-16 PORTS - POWER BEYOND	DVA20-PB88
WA20-OT-0015	R88	OUTLET, 1" NPT PORTS - THRU HOLE	347-9176-007, DVA20-TTR88
WA20-OT-0016	R90	OUTLET -20 ORB PORT SIDE ONLY	347-9176-024, DVA20-TTR90

DV4 SEAL KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM REF #
WA20-WS-AK01	DV4 WORK SECTION ASSEMBLY KIT	391-1873-035, DV20-K-1
WA20-WS-RK01	DV4 WORK SECTION REPAIR KIT	391-1873-036, DV20-K-2

STUD KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-SK-0001	STUD KIT, 1 WORK SECTION	391-1873-045, DVA20-SK-1
WA20-SK-0002	STUD KIT, 2 WORK SECTIONS	391-1873-046, DVA20-SK-2
WA20-SK-0003	STUD KIT, 3 WORK SECTIONS	391-1873-047, DVA20-SK-3
WA20-SK-0004	STUD KIT, 4 WORK SECTIONS	391-1873-048, DVA20-SK-4
WA20-SK-0005	STUD KIT, 5 WORK SECTIONS	391-1873-049, DVA20-SK-5
WA20-SK-0006	STUD KIT, 6 WORK SECTIONS	391-1873-050, DVA20-SK-6
WA20-SK-0007	STUD KIT, 7 WORK SECTIONS	391-1873-051, DVA20-SK-7
WA20-SK-0008	STUD KIT, 8 WORK SECTIONS	391-1873-052, DVA20-SK-8

THRU HOLE STUD KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-SK-0011	STUD KIT, 1 WORK SECTION	391-1873-129, DVA20-TSK-1
WA20-SK-0012	STUD KIT, 2 WORK SECTIONS	391-1873-130, DVA20-TSK-2
WA20-SK-0013	STUD KIT, 3 WORK SECTIONS	391-1873-131, DVA20-TSK-3
WA20-SK-0014	STUD KIT, 4 WORK SECTIONS	391-1873-132, DVA20-TSK-4
WA20-SK-0015	STUD KIT, 5 WORK SECTIONS	391-1873-133, DVA20-TSK-5
WA20-SK-0016	STUD KIT, 6 WORK SECTIONS	391-1873-134, DVA20-TSK-6
WA20-SK-0017	STUD KIT, 7 WORK SECTIONS	391-1873-135, DVA20-TSK-7
WA20-SK-0018	STUD KIT, 8 WORK SECTIONS	391-1873-136, DVA20-TSK-8

SPOOLS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-SP-4030	4 WAY, 3 POSITION HOLD IN NEUTRAL	391-1873-067, DVA20-SPL-1
WA20-SP-4031	4 WAY, 3 POSITION FLOAT IN NEUTRAL	391-1873-071, DVA20-SPL-3
WA20-SP-3030	3 WAY, 3 POSITION HOLD IN NEUTRAL	391-1873-075, DVA20-SPL-5

DV7 INLETS

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-IN-1070	A44	INLET, 1" NPT PORTS	348-9175-001, DVA35-A44
WA20-IN-1071	A88	INLET, SAE-16 PORTS	348-9175-005, DVA35-A88
WA20-IN-1072	A98	INLET, SAE-20 PORT SIDE 16 TOP	348-9175-002, DVA35-A98

PRIMARY RELIEF VALVES

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-RF-2507	S	500-2500 PSI ADJUSTABLE	391-1873-003, DVA35-MRV1
WA20-RF-3507	H	2000-3500 PSI ADJUSTABLE	391-1873-137, DVA35-HMRV
WA20-RF-PLUG7	N	DV7 MAIN RELIEF VALVE PLUG	391-1873-002, DVG-MRVP

DV7 WORK SECTIONS (LO-BOY)

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-WS-0701	G1	SINGLE ACTING CYL DETENT 3 POS. 3/4" NPT	348-9171-007, DVA35-SB4
WA20-WS-0702	G2	SINGLE ACTING CYL DETENT 3 POS. SAE-12	348-9171-017, DVA35-SB8
WA20-WS-0703	G3	SINGLE ACTING CYL SPRING RETURN 3/4" NPT	348-9171-002, DVA35-SA4
WA20-WS-0704	G4	SINGLE ACTING CYL SPRING RETURN SAE-12	348-9171-003, DVA35-SA8
WA20-WS-0705	G5	SINGLE ACTING CYL METERED AS SPG RETURN 3/4"	348-9171-018, DVA35-SV4
WA20-WS-0706	G6	SINGLE ACTING CYL METERED AS SPG RETURN SAE-12	348-9171-016, DVA35-SV8
WA20-WS-0707	G7	SINGLE ACTING CYL ON/OFF AS 3/4" NPT	DVA35-SVA4
WA20-WS-0708	G8	SINGLE ACTING CYL ON/OFF AS SAE-12	DVA35-SVA8
WA20-WS-0709	G9	SINGLE ACTING CYL METERING HYD 3/4" NPT	DVA35-SX4
WA20-WS-0710	G0	SINGLE ACTING CYL METERING HYD SAE-12	348-9101-083, DVA35-SX8

WA20-WS-0711	H1	DOUBLE ACTING CYL DETENT 3 POS. 3/4" NPT	348-9172-022, DVA35-DB4
WA20-WS-0712	H2	DOUBLE ACTING CYL DETENT 3 POS. SAE-12	348-9172-023, DVA35-DB8
WA20-WS-0713	H3	DOUBLE ACTING CYL SPRING RETURN 3/4" NPT	348-9172-002, DVA35-DA4
WA20-WS-0714	H4	DOUBLE ACTING CYL SPRING RETURN SAE-12	348-9172-003, DVA35-DA8
WA20-WS-0715	H5	DOUBLE ACTING CYL METERED AS SPG RETURN 3/4"	348-9172-029, DVA35-DV4
WA20-WS-0716	H6	DOUBLE ACTING CYL METERED AS SPG RETURN SAE-12	347-9172-030, DVA35-DV8
WA20-WS-0717	H7	DOUBLE ACTING CYL ON/OFF AS 3/4" NPT	DVA35-DVA4
WA20-WS-0718	H8	DOUBLE ACTING CYL ON/OFF AS SAE-12	DVA35-DVA8
WA20-WS-0719	H9	DOUBLE ACTING CYL METERING HYD 3/4" NPT	347-9172-039, DVA35-DX4
WA20-WS-0720	H0	DOUBLE ACTING CYL METERING HYD SAE-12	347-9172-040, DVA35-DX8

WA20-WS-0721	J1	DOUBLE ACTING MTR DETENT 3 POS. 3/4" NPT	348-9172-081, DVA35-MB4
WA20-WS-0722	J2	DOUBLE ACTING MTR DETENT 3 POS. SAE-12	348-9172-082, DVA35-MB8
WA20-WS-0723	J3	DOUBLE ACTING MTR SPRING RETURN 3/4" NPT	348-9172-005, DVA35-MA4
WA20-WS-0724	J4	DOUBLE ACTING MTR SPRING RETURN SAE-12	348-9172-006, DVA35-MA8
WA20-WS-0725	J5	DOUBLE ACTING MTR METERED AS SPG RETURN 3/4"	DVA35-MV4
WA20-WS-0726	J6	DOUBLE ACTING MTR METERED AS SPG RETURN SAE-12	DVA35-MV8
WA20-WS-0727	J7	DOUBLE ACTING MTR ON/OFF AS 3/4" NPT	DVA35-MVA4
WA20-WS-0728	J8	DOUBLE ACTING MTR ON/OFF AS SAE-12	DVA35-MVA8
WA20-WS-0729	J9	DOUBLE ACTING MTR METERING HYD 3/4" NPT	348-9172-058, DVA35-MX4
WA20-WS-0730	J0	DOUBLE ACTING MTR METERING HYD SAE-12	348-9172-059, DVA35-MX8

DV7 WORK SECTIONS (HI-BOY)

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-WS-7108	K1	SINGLE ACTING CYL DETENT 3 POS. 3/4" NPT	348-9172-060, DVA35-JB4
WA20-WS-7109	K2	SINGLE ACTING CYL DETENT 3 POS. SAE-12	348-9172-061, DVA35-JB8
WA20-WS-7101	K3	SINGLE ACTING CYL SPRING RETURN 3/4" NPT	348-9171-005, DVA35-HSA4
WA20-WS-7102	K4	SINGLE ACTING CYL SPRING RETURN SAE-12	348-9171-006, DVA35-HSA8
WA20-WS-7106	K5	SINGLE ACTING CYL METERED AS SPG RETURN 3/4"	DVA35-HSV4
WA20-WS-7107	K6	SINGLE ACTING CYL METERED AS SPG RETURN SAE-12	DVA35-HSV8
WA20-WS-7113	K7	SINGLE ACTING CYL ON/OFF AS 3/4" NPT	DVA35-HSVA4
WA20-WS-7114	K8	SINGLE ACTING CYL ON/OFF AS SAE-12	DVA35-HSVA8
WA20-WS-7115	K9	SINGLE ACTING CYL METERING HYD 3/4" NPT	DVA35-HSX4
WA20-WS-7116	K0	SINGLE ACTING CYL METERING HYD SAE-12	DVA35-HSX8

WA20-WS-7103	L1	DOUBLE ACTING CYL DETENT 3 POS. 3/4" NPT	348-9172-013, DVA35-HDB4
WA20-WS-7110	L2	DOUBLE ACTING CYL DETENT 3 POS. SAE-12	348-9172-014, DVA35-HDB8
WA20-WS-7104	L3	DOUBLE ACTING CYL SPRING RETURN 3/4" NPT	348-9172-008, DVA35-HDB4
WA20-WS-7105	L4	DOUBLE ACTING CYL SPRING RETURN SAE-12	348-9172-009, DVA35-HDA8
WA20-WS-7117	L5	DOUBLE ACTING CYL METERED AS SPG RETURN 3/4"	348-9172-020, DVA35-HDA4
WA20-WS-7118	L6	DOUBLE ACTING CYL METERED AS SPG RETURN SAE-12	348-9172-021, DVA35-HDV8
WA20-WS-7119	L7	DOUBLE ACTING CYL ON/OFF AS 3/4" NPT	DVA35-HDVA4
WA20-WS-7120	L8	DOUBLE ACTING CYL ON/OFF AS SAE-12	DVA35-HDVA8
WA20-WS-7121	L9	DOUBLE ACTING CYL METERING HYD 3/4" NPT	348-9172-175, DVA35-HDX4
WA20-WS-7122	L0	DOUBLE ACTING CYL METERING HYD SAE-12	348-9172-038, DVA35-HDX8

WA20-WS-7111	M1	DOUBLE ACTING MTR DETENT 3 POS. 3/4" NPT	348-9172-062, DVA-HLB4
WA20-WS-7112	M2	DOUBLE ACTING MTR DETENT 3 POS. SAE-12	348-9172-063, DVA-HLB8
WA20-WS-7123	M3	DOUBLE ACTING MTR SPRING RETURN 3/4" NPT	348-9172-011, DVA-HLA4
WA20-WS-7124	M4	DOUBLE ACTING MTR SPRING RETURN SAE-12	348-9172-012, DVA-HLA8
WA20-WS-7125	M5	DOUBLE ACTING MTR METERED AS SPG RETURN 3/4"	348-9172-126, DVA-HLV4
WA20-WS-7126	M6	DOUBLE ACTING MTR METERED AS SPG RETURN SAE-12	348-9172-066, DVA-HLV8
WA20-WS-7127	M7	DOUBLE ACTING MTR ON/OFF AS 3/4" NPT	DVA35-HMVA4
WA20-WS-7128	M8	DOUBLE ACTING MTR ON/OFF AS SAE-12	DVA35-HMVA4
WA20-WS-7129	M9	DOUBLE ACTING MTR METERING HYD 3/4" NPT	347-9172-072, DVA35-HLX4
WA20-WS-7130	M0	DOUBLE ACTING MTR METERING HYD SAE-12	347-9172-068, DVA35-HLX8

*ALL HI-BOY WORK SECTIONS IN ASSEMBLIES COME STANDARD WITH TWO ANTI-CAVITATION RELIEF VALVES THAT ADJUSTABLE VALVES THAT ARE ADJUSTABLE FROM 500 TO 5000 PSI AND ARE PRE-SET AT 2500 PSI.

PORT RELIEF VALVES FOR HI-BOY WORK SECTIONS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM REF #
WA20-PR-5000	PORT RELIEF VALVE WITH AC 500 - 5000 PSI	391-1873-006, DV-PRVAC
WA20-PR-5001	PORT VALVE AC ONLY	391-1873-010, DV-AC
WA20-PR-1000	PORT RELIEF ADJUSTABLE 500 - 1000 PSI	391-1873-344, DV-PRVS1
WA20-PR-2500	PORT RELIEF ADJUSTABLE 1000 - 2500 PSI	391-1873-345, DV-PRVS2
WA20-PR-3500	PORT RELIEF ADJUSTABLE 2500 - 3500 PSI	391-1873-346, DV-PRVS3
WA20-PR-2000	PILOT PORT RELIEF VALVE 2000+ - 100 PSI	391-9109-027, DV-PPRV-2000
WA20-PR-PLUG	PILOT RELIEF VALVE PLUG	391-1873-011, DV-PRVP

WADV7 HANDLE KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-HK-071	8" HANDLE	391-1873-097, DVA35-H-4
WA20-HK-072H	8" HANDLE - HI-BOY STYLE	391-1873-065, DVA35-H-8
WA20-HK-073H	10" HANDLE - HI-BOY STYLE	391-1873-066, DVA35-H-10

WADV7 SPOOL ACTUATION KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-SA-0071	METERED AIR SHIFT KIT	391-1873-203, DV20-K-213
WA20-SA-0072	ON/OFF AIR SHIFT KIT	DV35-K-213A
WA20-SA-0073	SPRING RETURN KIT	391-1873-019, DV20-K-100
WA20-SA-0074	3 POSITION DETENT KIT	391-1873-020, DV20-K-101
WA20-SA-0075	METERED HYD REMOTE CONTROL	391-1873-173, DV20-K-109

DV7 MID-INLETS

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-MI-1770	S40	MID-INLET, 1" NPT PORTS SPLIT FLOW	348-9174-001, DVA35-SFA30
WA20-MI-1771	S80	MID-INLET, SAE-16 NPT PORTS SPLIT FLOW	348-9174-002, DVA35-SFA70
WA20-MI-1772	C40	MID-INLET, 1" NPT PORTS COMBINED FLOW	348-9174-003, DVA35-CFA30
WA20-MI-1773	C80	MID-INLET, -16 ORB NPT PORTS COMBINED FLOW	348-9174-004, DVA35-CFA70

PLUGS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-PLUG-0075	3/4" NPT PLUG	391-1873-013, DV-DPL-75
WA20-PLUG-0100	1" NPT PLUG	391-1873-014, DV-DPL-100
WA20-PLUG-0125	1.25" NPT PLUG	391-1873-015, DV-DPL-125
WA20-PLUG-0012	SAE-12 PLUG	391-1873-016, DV-DPL-12
WA20-PLUG-0016	SAE-16 PLUG	391-1873-017, DV-DPL-16
WA20-PLUG-0020	SAE-20 PLUG	391-1873-018, DV-DPL-20

WADV7 OUTLETS

WORLD AMERICAN® #	ASSEMBLY CODE #	DESCRIPTION	REPLACES OEM #
WA20-OT-0710	T55	OUTLET, 1-1/4" NPT PORT	348-9176-001, DVA20-TR55
WA20-OT-0711	T99	OUTLET, SAE-20 PORTS	348-9176-002, DVA35-TR99
WA20-OT-0712	P55	OUTLET, 1-1/4" NPT PORTS - POWER BEYOND	348-9176-003, DVA35-PB55
WA20-OT-0713	P99	OUTLET, SAE-20 PORTS - POWER BEYOND	348-9176-012, DVA35-PB99
WA20-OT-0714	P09	OUTLET, SAE-20 TOP ONLY - POWER BEYOND	348-9176-005, DVA35-PB09
WA20-OT-0715	P90	OUTLET, SAE-20 SIDE ONLY - POWER BEYOND	348-9176-004, DVA35-PB90
WA20-OT-0716	R99	OUTLET, 1-1/4" NPT TANK RETURN - THRU HOLE	348-9176-007, DVA35-TTR88
WA20-OT-0717	B99	OUTLET, SAE-20 PORTS - PB THRU HOLE	348-9176-008, DVA35-TPB99

DV7 SEAL KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-WS-SK11	DV7 WORK SECTION ASSEMBLY KIT	391-1873-040, DV35-K11
WA20-WS-RK12	DV7 WORK SECTION REPAIR KIT	391-1873-041, DV35-K12

STUD KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-SK-0071	STUD KIT, 1 WORK SECTION	391-1873-053, DVA35-SK-1
WA20-SK-0072	STUD KIT, 2 WORK SECTIONS	391-1873-054, DVA35-SK-2
WA20-SK-0073	STUD KIT, 3 WORK SECTIONS	391-1873-055, DVA35-SK-3
WA20-SK-0074	STUD KIT, 4 WORK SECTIONS	391-1873-056, DVA35-SK-4
WA20-SK-0075	STUD KIT, 5 WORK SECTIONS	391-1873-057, DVA35-SK-5
WA20-SK-0076	STUD KIT, 6 WORK SECTIONS	391-1873-058, DVA35-SK-6
WA20-SK-0077	STUD KIT, 7 WORK SECTIONS	391-1873-059, DVA35-SK-7
WA20-SK-0078	STUD KIT, 8 WORK SECTIONS	391-1873-060, DVA35-SK-8

THRU HOLE STUD KITS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-SK-0711	STUD KIT, 1 WORK SECTION	391-1873-138, DVA35-TSK-1
WA20-SK-0712	STUD KIT, 2 WORK SECTIONS	391-1873-139, DVA35-TSK-2
WA20-SK-0713	STUD KIT, 3 WORK SECTIONS	391-1873-140, DVA35-TSK-3
WA20-SK-0714	STUD KIT, 4 WORK SECTIONS	391-1873-141, DVA35-TSK-4
WA20-SK-0715	STUD KIT, 5 WORK SECTIONS	391-1873-142, DVA35-TSK-5
WA20-SK-0716	STUD KIT, 6 WORK SECTIONS	391-1873-143, DVA35-TSK-6
WA20-SK-0717	STUD KIT, 7 WORK SECTIONS	391-1873-144, DVA35-TSK-7
WA20-SK-0718	STUD KIT, 8 WORK SECTIONS	391-1873-145, DVA35-TSK-8

SPOOLS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-SP-0740	4 WAY, 3 POSITION HOLD IN NEUTRAL	391-1873-068, DVA35-SPL-11
WA20-SP-0741	4 WAY, 3 POSITION FLOAT IN NEUTRAL	391-1873-072, DVA35-SPL-13
WA20-SP-0742	3 WAY, 3 POSITION HOLD IN NEUTRAL	391-1873-076, DVA35-SPL-15

LOW SPEED HIGH TORQUE MOTORS

WORLD AMERICAN® #	DESCRIPTION	REPLACES OEM #
WA20-LS-2000	H SERIES 50 DISP, 4 BOLT 1.75", 1" KEYED, 1/2" NPT	101-1001
WA20-LS-2001	H SERIES 80 DISP, 4 BOLT 1.75", 1" KEYED, 1/2" NPT	101-1002
WA20-LS-2002	H SERIES 100 DISP, 4 BOLT 1.75", 1" KEYED, 1/2" NPT	101-1003
WA20-LS-2003	H SERIES 200 DISP, 4 BOLT 1.75", 1" KEYED, 1/2" NPT	101-1005
WA20-LS-2004	H SERIES 250 DISP, 4 BOLT 1.75", 1" KEYED, 1/2" NPT	101-1006
WA20-LS-2005	H SERIES 400 DISP, 4 BOLT 1.75", 1" KEYED, 1/2" NPT	101-1008
WA20-LS-2006	H SERIES 200 DISP, 4 BOLT 1.75", 1" KEYED, 7/8" NPT	101-1013
WA20-LS-2007	H SERIES 80 DISP 2A, 1" KEYED, 1/2" NPT	101-1026
WA20-LS-2008	H SERIES 100 DISP 2A, 1" KEYED, 1/2" NPT	101-1027
WA20-LS-2009	H SERIES 160 DISP 2A, 1" KEYED, 1/2" NPT	101-1028
WA20-LS-2010	H SERIES 250 DISP 2A, 1" KEYED, 1/2" NPT	101-1030
WA20-LS-2011	H SERIES 400 DISP 2A, 1" KEYED, 1/2" NPT	101-1032
WA20-LS-2012	H SERIES 50 DISP, 2A, 1" KEYED, 7/8" ORING	101-1033
WA20-LS-2013	H SERIES 200 DISP 2A, 1" KEYED, SAE-10 PORT	101-1037
WA20-LS-2014	H SERIES 160 DISP 4 BOLT 1.75", 1" KEYED, 7/8" O-RING	101-1060
WA20-LS-2015	H SERIES 100 DISP 4 BOLT 1.75", 1" KEYED, 7/8" O-RING	101-1314

WA20-LS-2016	S SERIES 80 DISP 4 BOLT 1.75", 1" KEYED, 1/2" NPT	103-1002
WA20-LS-2017	S SERIES 375 DISP 4 BOLT 1.75", 1" KEYED, 1/2" NPT	103-1008
WA20-LS-2018	S SERIES 250 DISP 4 BOLT 1.75", 1" KEYED, 7/8" O-RING	103-1014
WA20-LS-2019	S SERIES 200 DISP 2 BOLT SAE A, 1" KEYED, 7/8" O-RING	103-1037
WA20-LS-2020	S SERIES 375 DISP 2 BOLT SAE A, 1" KEYED, 7/8" O-RING	103-1040
WA20-LS-2021	S SERIES 50 DISP 2 BOLT SAE A, 1" KEYED, 7/8" O-RING	103-1540

WA20-LS-2022	2K SERIES 125 DISP 2A, 1" KEYED, 7/8" O-RING	104-1003
WA20-LS-2023	2K SERIES 100 DISP 2A, 1" KEYED, 1 1/16" O-RING	104-1038
WA20-LS-2024	2K SERIES 100 DISP 2A, 1-1/4" STRAIGHT, 1 1/16" O-RING	104-1062
WA20-LS-2025	2K SERIES 400 DISP 2A, 1-1/4" STRAIGHT, 7/8" O-RING	104-1228
WA20-LS-2026	4K SERIES 315 DISP 2B, 1-1/4" STRAIGHT, G 3/4" BSP	109-1056
WA20-LS-2027	4K SERIES 7.9 CU.IN. DISP 1-1/4" STRAIGHT SAE-12 O-RING	109-1101
WA20-LS-2028	4K SERIES 250 DISP 2B, 1-1/4" STRAIGHT, 1 1/16" O-RING	109-1104

WA20-LS-2029	6K SERIES 990 DISP 4C, 1-1/2" STRAIGHT, 1 1/16" O-RING	112-1069
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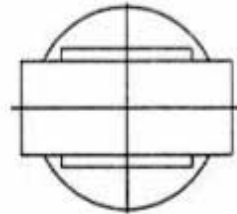
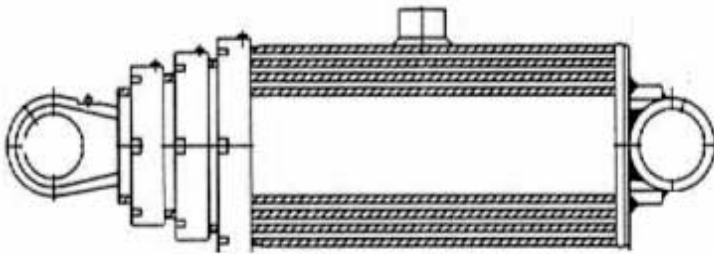
WA20-LS-2030	10K SERIES 990 DISP 4C, 2-1/4" STRAIGHT, 1 5/16" O-RING	119-1031
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HYDRAULIC CYLINDERS

OPERATING FEATURES

- REQUIRES LESS OIL
- FASTER DURING OPERATION
- LIGHTER AND THINNER THEN THE OEM'S
- MORE LOAD CAPACITY PER STAGE
- MAINTENANCE FREE
- NO BLEEDING REQUIRED



WORLD AMERICAN® #	LARGEST STAGE DIAMETER	# OF STAGES	STROKE LENGTH	REPLACES HYVA® REF#	REPLACES CUSTOM HOIST® #
WA20-CH-63108	6"	3	108"	FEE-6-3-108	63-702-108
WA20-CH-63136	6"	3	136"	FEE-6-3-136	63-702-132
WA20-CH-74157	7"	4	157"	FEE-7-4-157	74-701-156
WA20-CH-74169	7"	4	169"	FEE-7-4-169	74-701-167
WA20-CH-84188	8"	5	188"	FEE-8-5-188	85-402-190
WA20-CH-85211	8"	5	211"	FEE-8-5-211	85-402-200
WA20-CH-85228	8"	5	228"	FEE-8-5-228	85-402-220
WA20-CH-95228	9"	5	228"	FEE-9-5-228	95-461-220

- ALL CYLINDERS ARE SPECIAL ORDER
- OTHER SIZES ALSO AVAILABLE

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1946**



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Axles & Wheel Attaching | Air Brake & Valve | Wheel Attaching

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TECHNICAL SECTION



Chelsea® to World American® Interchange

Sample Chelsea® Number

489 X 2

XK 8

Your Chelsea® Number

1 2

3 7

Basic Model

440 = WA06
441 = WA06
442 = WA06
488 = WA08
489 = WA08
230 = WA02
277 = WA10
280 = WA10
660 = WA06
680 = WA08

Mounting Options

G = M (Standard Mount w/ Metric Studs)
K = B (Standard Mount Less Installation Kit)
L = A (Deep Mount less Installation Kit)
X = S (Standard Mount)
Z = D (Deep Mount)
Hot Shift Only
G = S (Standard mount)

Gear Ratio

C = 2
F = 3
H = 4
L = 4
Q = 5
R = 6
S = 7
U = 8
W = 9
Hot Shift Only
B = A
D = B
G = C
M = D
S = E

Input Gear

AB = LC
AH = LI
AP = LQ
AR = LS
AX = LY
BG = MH
BQ = MR
DA = PB
ED = QE
ES = QT
EV = QW
FN = RP
GS = ST
HY = TZ
JK = UL
Hot Shift Only
FJ = RK

Lube Option

X = N (No Lube)
Hot Shift Only
P = L (Pressure Lube)

Shift Option

A = A (Air Shift)
S = D (Combo Valve PTO & Pump w/ Kickout)
T = K (Combo Valve PTO & Pump w/o Kickout)
V = N (Air Shift Less Installation Kit)
W = C (Wire Shift)
X = C (Wire Shift w/o Wire)
Hot Shift Only
B = 2 (12v. Electric Over Hydraulic)
D = 4 (24v Electric Over Hydraulic)

Assembly Arrangement

3 = RF
4 = RR
5 = LF
6 = LR

Output Options

AK = DM (SAE "B" 2 Bolt 7/8" 13T)
AF = BB (SAE "B" 2 Bolt 1" 15T)
RA = DM (Rotatable SAE "B" 2 Bolt 7/8" 13T)
RB = DM (Rotatable SAE "B" 2/4 Bolt 7/8" 13T)
XD = RM (1-1/4" Round Shaft)
XK = DM (Rotatable SAE "B" 2/4 Bolt 7/8" 13T)
XQ = DM (SAE "2 or 4 Bolt 7/8" 13T)

World American® Part Number =

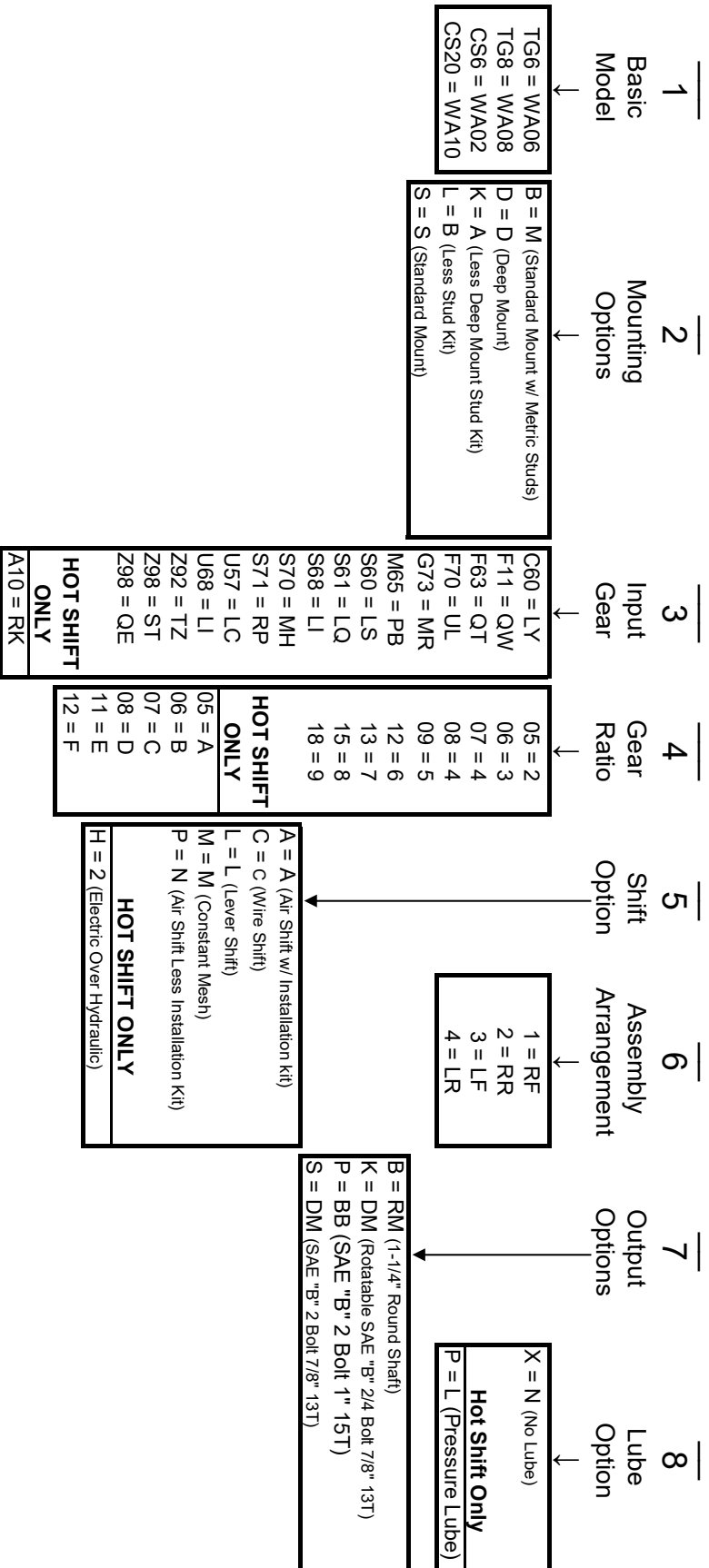
1 2 3 4 5 6 7 8

Muncie® to World American® Interchange

Sample P.T.O Number

CS20 S A10 05 H 3 K P
 1 2 3* 4* 5 6 7 8*

Your P.T.O Number



World American® Part Number =

1 2 4* 3* 8* 5 6 7

* Be Aware of Numbering Sequence

ALSO AVAILABLE AT [HTTP://PTO.WORLDAMERICAN.COM](http://PTO.WORLDAMERICAN.COM)

Power Transmission Options® (P.T.O.) to World American® Interchange

Sample P.T.O Number

1000 X A 01 1 RA
 1 2 4 5 6 7

Your P.T.O Number

1 2 3 4 5 6 7
 Basic Lube Gear Shift Input Assembly Output
 Model Option Ratio Option Gear Arrangement Options

1000 = WA06S
1001 = WA06M
1010 = WA06D
2000 = WA08S
2001 = WA08M
2010 = WA08D
2300 = WA02S
3100 = WA10S
3200 = WA06S

X = N (No Lube)
Hot Shift Only
P = L (Pressure Lube)

A = 2
B = 3
C = 4
E = 5
J = 6
O = 7
R = 8
T = 9
HOT SHIFT ONLY
B = A
C = B
G = C
M = D
S = E

01 = LI
02 = LC
05 = LS
06 = LY
08 = MH
11 = MR
17 = QT
21 = ST
24 = PB
27 = QW
28 = UL
33 = LQ
34 = RP
50 = TZ
52 = QD

1 = RF
2 = RR
3 = LF
4 = LR

RA = DM (Rotatable SAE "B" 2/4 Bolt 7/8" 13T)
RB = BB (Rotatable SAE "B" 2/4 Bolt 1" 15T)
SD = DM (SAE "B" 2 Bolt 7/8" 13T)
SE = RM (1-1/4" Round Shaft)

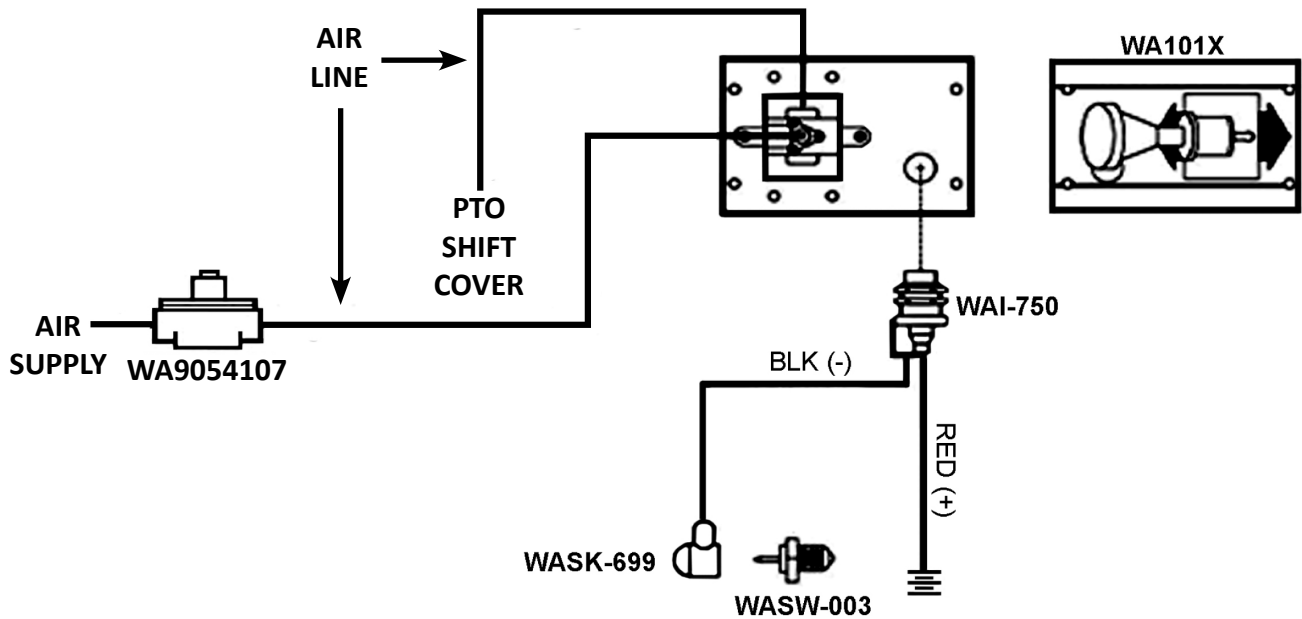
Hot Shift Only
63 = RK

A = A (Air Shift w/ Installation Kit)
L = L (Lever Shift)
N = N (Air Shift Less Installation Kit)
M = M (Constant Mesh)
S = D (Combo Valve PTO & Pump w/ Kickout)
T = K (Combo Valve PTO & Pump w/o Kickout)
W = C (Wire Shift)
Hot Shift Only
E = 2 (Electric Over Hydraulic)

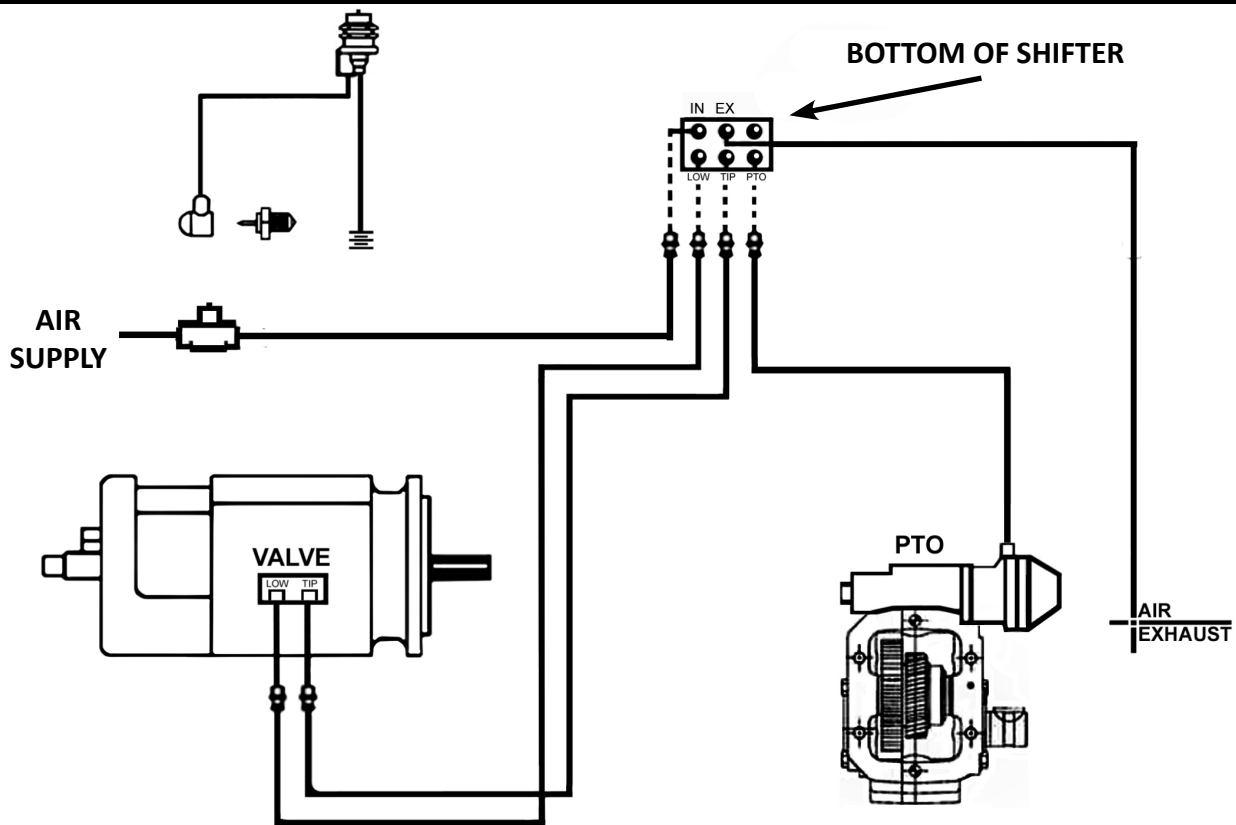
World American® Part Number = 1 3* 5* 2* 4* 6 7

* Be Aware of numbering Sequence

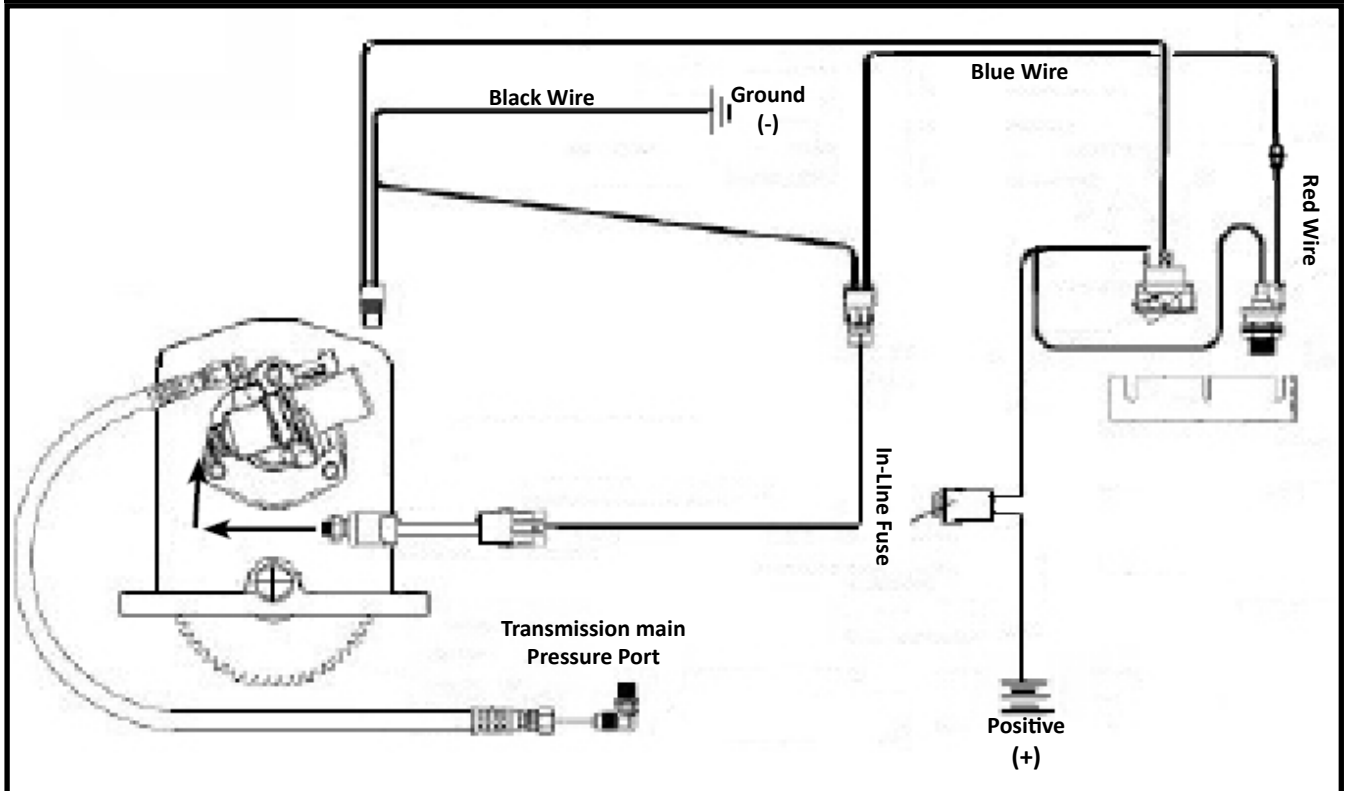
PTO SINGLE CONTROL AIR & ELECTRICAL INSTALLATION GUIDE



PTO & PUMP DUAL CONTROL AIR & ELECTRICAL INSTALLATION GUIDE

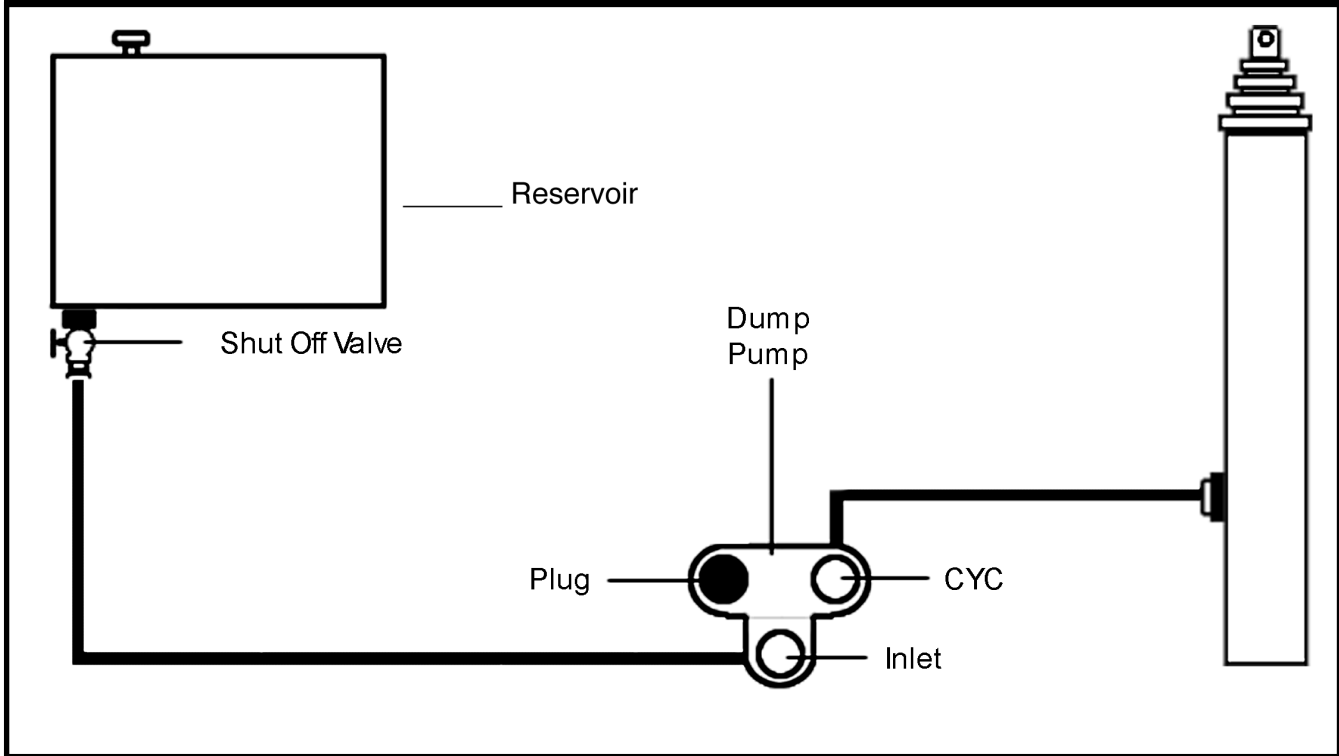


HOT SHIFT PTO ELECTRICAL & HYDRAULIC INSTALLATION GUIDE

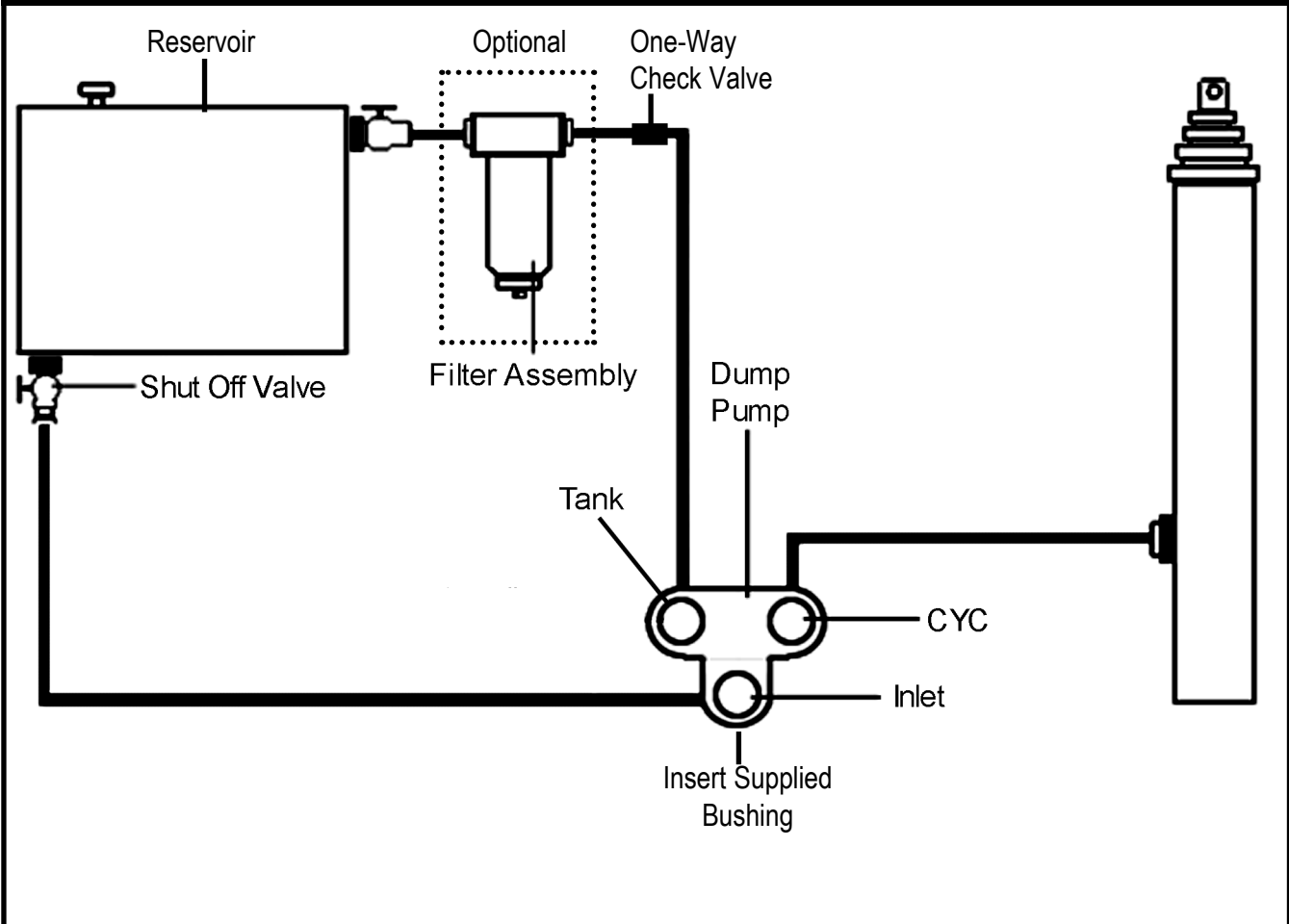


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FOR OUR ONLINE INTERCHANGE AND APPLICATION GUIDE.

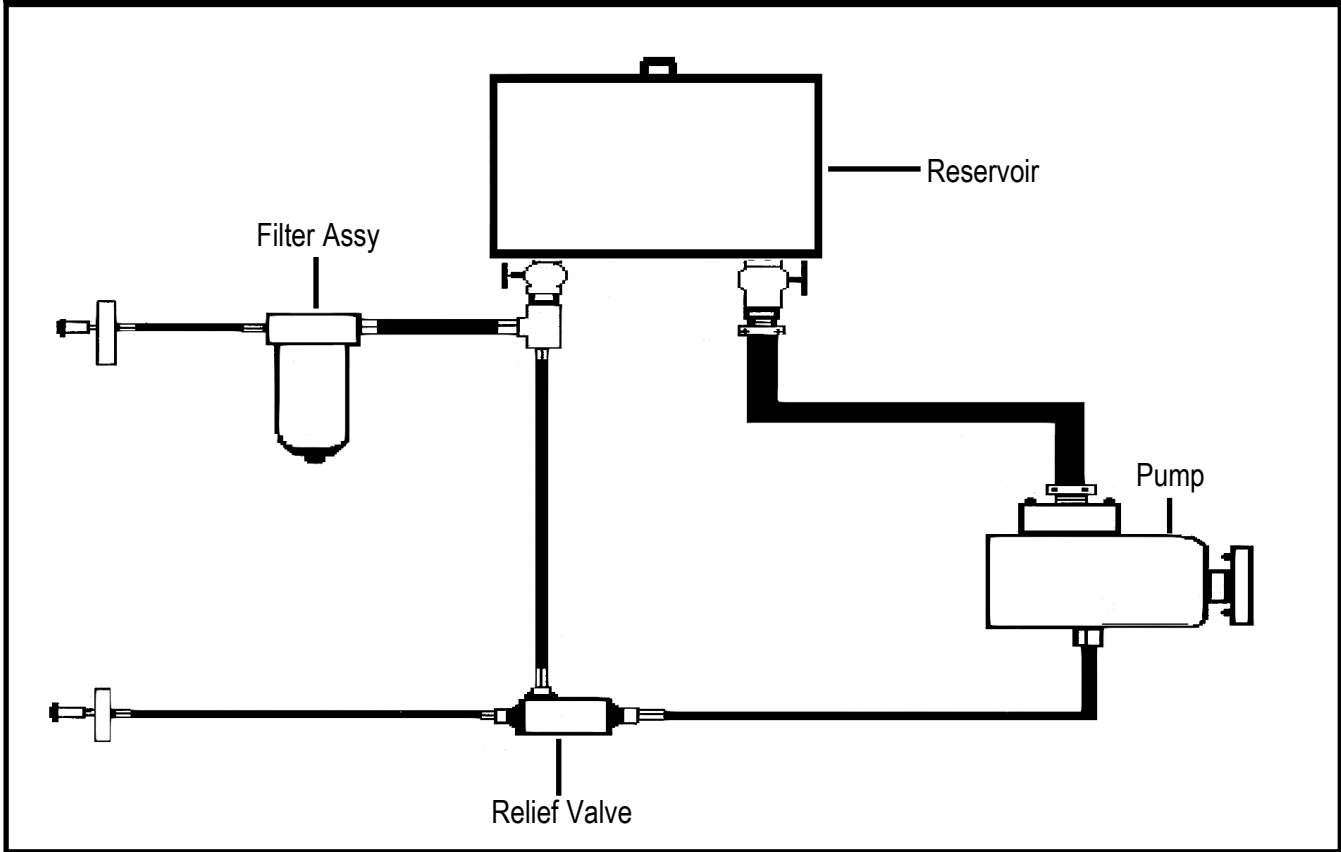
2-LINE HYDRAULIC HOSE INSTALLATION GUIDE



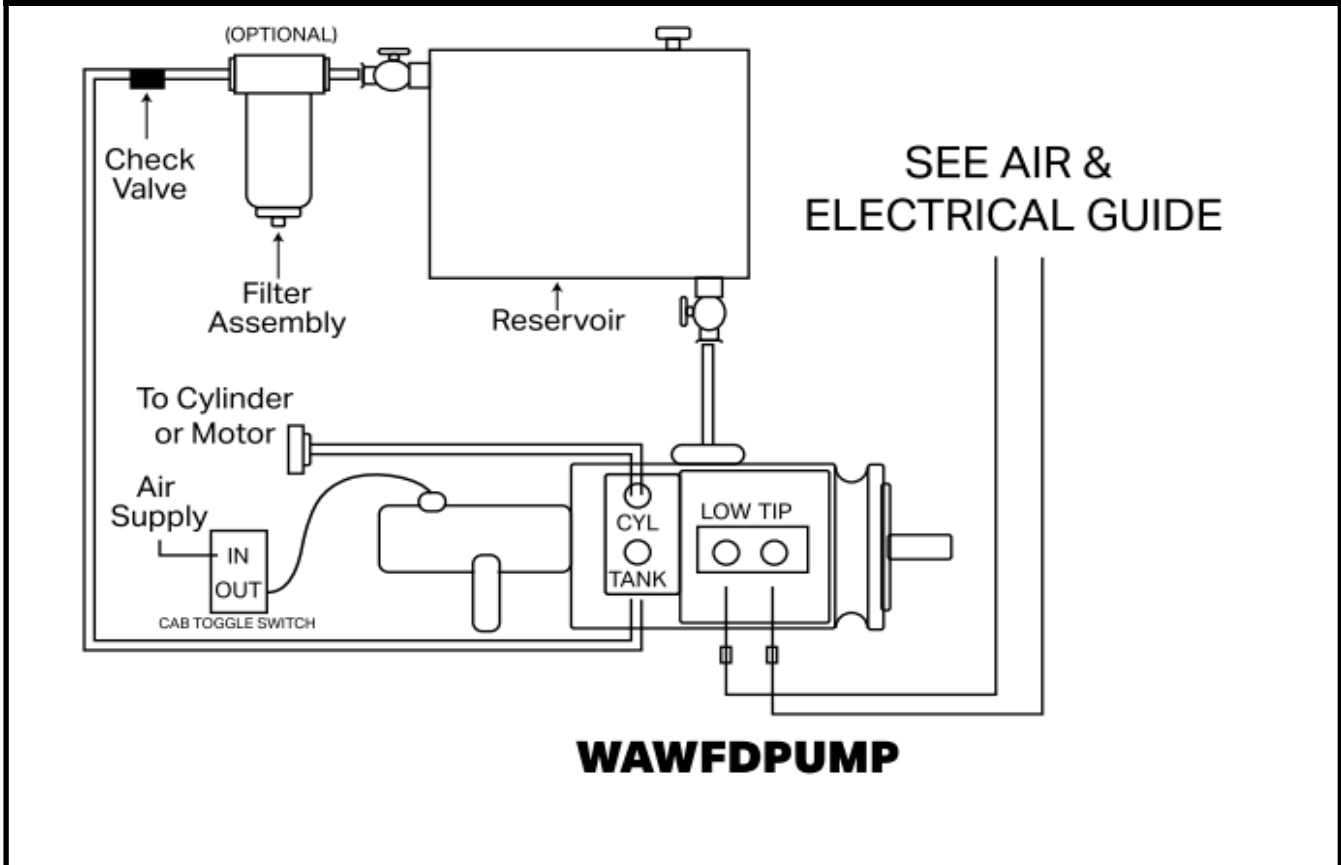
3-LINE HYDRAULIC HOSE INSTALLATION GUIDE



WALKING FLOOR HYDRAULIC SCHEMATIC



COMBINATION WALKING FLOOR/DUMP TRAILER HYDRAULIC SCHEMATIC

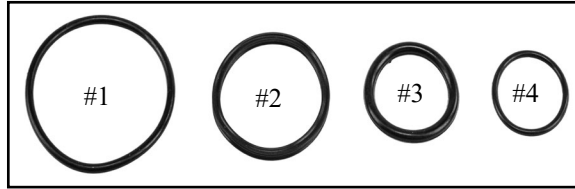


AIR SHIFTER INSTALLATION INSTRUCTIONS

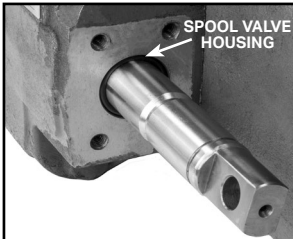
IMPORTANT!

IT IS RECOMMENDED THAT YOU READ THESE INSTRUCTIONS COMPLETELY BEFORE STARTING THE AIR SHIFTER INSTALLATION. THE CORRECT INSTALLATION MAY BE THE DIFFERENCE BETWEEN A SAFE EXTENDED LIFE OR A PREMATURE FAILURE.

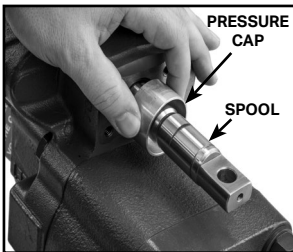
O-RINGS



STEP 1: Remove the retaining ring, washer, and detent housing.



STEP 2: Make sure o-ring #3 is seated in the spool valve housing. If pump is new skip to next step.



STEP 3: Insert the pressure cap onto the spool of the unit.

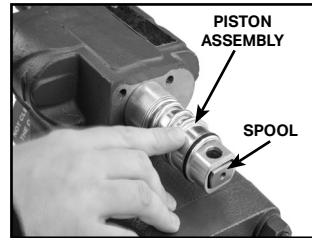


Next, place the o-ring #4 onto the spool. Make sure to apply a light coat of grease onto the o-ring.

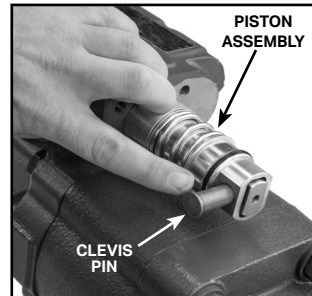


#2 O-RING

STEP 4: Install o-ring #2 onto the piston assembly.



STEP 5: Insert the piston assembly onto the spool.



STEP 6: Insert the clevis pin through the piston assembly & spool and secure it with the snap ring.

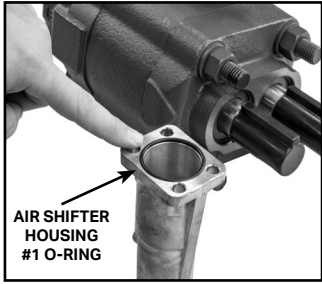


CLEVIS PIN

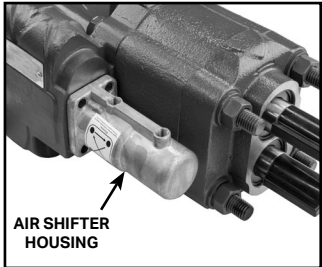
SNAP RING

CONTINUED>

AIR SHIFTER INSTALLATION INSTRUCTIONS



STEP 7: Apply a light coating of grease to the base of the air shifter housing. Install O-Ring #1 as shown.

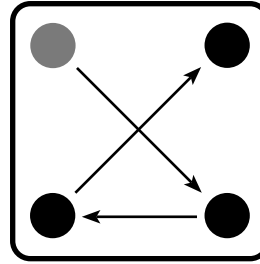


Slide the air shifter housing onto the piston assembly.

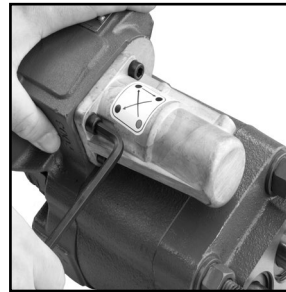
NOTE: Make sure the "O-Ring" on the air shifter housing does not move out of place when installing it onto the piston assembly as shown in the image.



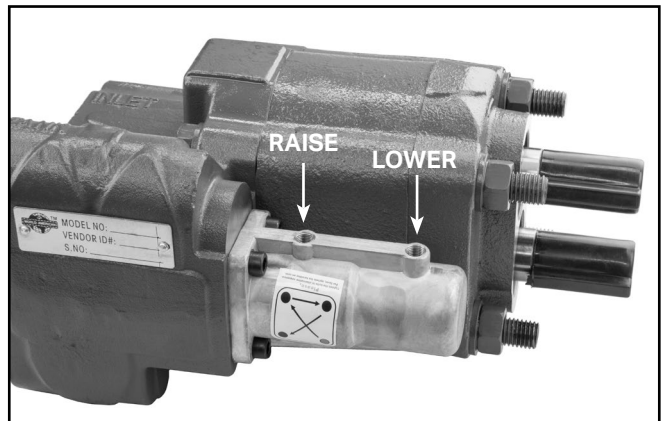
STEP 8: Insert and hand-tighten the 4 air shifter housing cap screws. Then, gently tap the air shifter housing all the way around with a rubber mallet to help align the cover and spool.



STEP 9: Using the following images as your reference, follow the sequence shown in the diagram and tighten the cap screws.



WARNING
Air shifter failure may occur if the recommended sequence is not followed.



STEP 10: Once you have established that the air shifter is secure, we recommend applying more lubricant to the air shifter installation. Remove the caps from the air shifter to apply the lubricant as shown in the image.

- END.

START-UP PROCEDURE

A **FILL THE HYDRAULIC CYLINDER & SYSTEM WITH OIL. THE CYLINDER SHOULD BE IN THE RETRACTED POSITION. TO AID IN THE FILLING OF THE SYSTEM WITH OIL, IT MAY BE NECESSARY TO CRACK THE OUTLET LINE AT THE CYLINDER TO ALLOW TRAPPED AIR TO BLEED OFF.**

NOTE: THE SPOOL VALVE SHOULD BE IN THE LOWER POSITION.

B **OPERATE THE PUMP AT ZERO PRESSURE FOR TWO MINUTES AT THE MINIMUM RPM OF THE TRUCK. BE SURE THE PUMP IS ENGAGED AND THE SPOOL IS SET AT THE LOWER POSITION. DURING THE BREAK-IN PROCEDURE THE PUMP WILL RUN FREE AND NOT DEVELOP EXCESSIVE HEAT.**

C **CYCLE THE TRUCK BED UP & DOWN A FEW TIMES TO BLEED THROUGH ANY REMAINING AIR TRAPPED IN THE SYSTEM. THEN RE-CHECK THE OIL LEVEL & ADD OIL IF REQUIRED.**

OIL RECOMMENDATIONS

VISCOSITY

OPTIMUM OPERATING VISCOSITY IS CONSIDERED TO BE ABOUT 100 SUS (20 cSt)

MINIMUM VISCOSITY 5 SUS (7.5 cSt)

MAXIMUM VISCOSITY AT STARTUP 7500 SUS (1600 cSt)

FLUID GRADES OFTEN USED:

ISO GRADE	40C	100C
32	32 cSt	5 cSt
46	46 cSt	7 cSt

*COLUMN FIGURES ARE BASED ON PUBLISHED INFORMATION FROM VARIOUS OIL COMPANIES.

ADDITIVES SUCH AS RUST, OXIDATION INHIBITORS & FOAM DEPRESSANT ARE USUALLY RECOMMENDED.

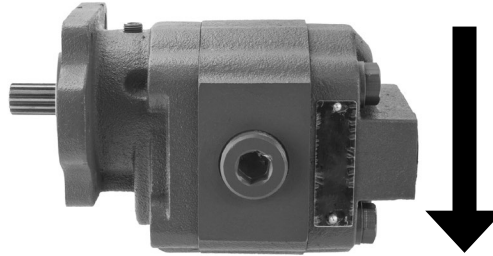
NOTE: ANTI-WEAR ADDITIVES CAN CAUSE DAMAGE TO PUMP AND SYSTEM COMPONENTS THAT ARE MADE OF, OR CONTAIN BRASS, COPPER OR BRONZE. THESE ANTI-WEAR ADDITIVES ARE THE SOLE RESPONSIBILITY OF THE USER.

COLD WEATHER OPERATION

OIL FOR USE IN COLD WEATHER OPERATIONS SHOULD HAVE A VISCOSITY NOT MORE THAN 7500 SUS AT THE MINIMUM STARTUP TEMPERATURE. STARTUP PROCEDURES MUST ALLOW FOR A WARM-UP TIME AND THE EQUIPMENT MUST NOT BE OPERATED AT FULL SYSTEM PRESSURES UNTIL THE OIL COMES TO OPERATING TEMPERATURES OR A FULL FLUID STATE

TROUBLE	POSSIBLE CAUSES	REMEDIES
PUMP IS MAKING NOISE	<ul style="list-style-type: none"> - INSUFFICIENT OIL SUPPLY - AIR LEAKING INTO INLET CONNECTION - RESTRICTED OR COLLAPSED INLET HOSE - RESERVOIR AIR VENT PLUGGED - OIL IS TOO THICK 	<ul style="list-style-type: none"> CHECK OIL LEVEL. FILL AS REQUIRED CORRECT THE AIR LEAK ENSURE CONNECTIONS ARE TIGHT REMOVE BLOCKAGE OR REPLACE THE COLLAPSED HOSE CLEAN OR REPLACE AIR VENT FILTER REPLACE THE OIL TO A LOWER VISCOSITY
PUMP IS OVERHEATING	<ul style="list-style-type: none"> -INSUFFICIENT OIL SUPPLY -DRIVING WITH PTO ENGAGED -INTERNAL LEAK DUE TO EXCESSIVE WEAR -OIL IS TOO THICK -LEAKING RELIEF VALVE 	<ul style="list-style-type: none"> CHECK OIL LEVEL. FILL AS REQUIRED DISENGAGE PTO BEFORE HIGHWAY USE REPAIR OR REPLACE THE PUMP, CLEAN THE RESERVOIR, REPLACE OIL. REPLACE FILTER REPLACE THE OIL TO A LOWER VISCOSITY OIL INSPECT AND CLEAN THE RELIEF VALVE & CHECK VALVE SEAT
PUMP IS LEAKING EXTERNALLY	<ul style="list-style-type: none"> -WORN SHAFT OR SHAFT SEAL DUE TO ABRASIVE MATERIAL IN THE OIL OR AROUND THE SHAFT. -DAMAGED BODY GASKET -WORN OR DAMAGED SPOOL SEAL 	<ul style="list-style-type: none"> REPAIR THE PUMP, CLEAN RESERVOIR & REPLACE FLUID. REPLACE FILTER REPLACE ALL GASKETS & RETORQUE THE STUDS TO 2400 in. lbs. / 200 ft. lbs. REPLACE THE SEAL
PUMP WILL NOT DELIVER FLOW	<ul style="list-style-type: none"> -INSUFFICIENT OIL SUPPLY -RESTRICTED OR COLLAPSED INLET HOSE -WRONG DRIVE ROTATION -AIR LEAK IN THE INLET LINE PREVENTING PRIMING -PUMP WORN DUE TO ABRASIVE MATERIAL IN THE OIL 	<ul style="list-style-type: none"> CHECK OIL LEVEL. FILL AS REQUIRED REMOVE BLOCKAGE OR REPLACE THE COLLAPSED HOSE CHECK ROTATION OF DRIVE TO PUMP INSURE ALL FITTINGS AND CONNECTIONS ARE TIGHT REBUILD OR REPLACE PUMP & CLEAN THE RESERVOIR. REPLACE FILTER
NO PRESSURE IN THE SYSTEM	<ul style="list-style-type: none"> -PUMP NOT DELIVERING OIL -RELIEF VALVE SET TOO LOW -RELIEF VALVE LEAKING 	<ul style="list-style-type: none"> CHECK OIL LEVEL. FILL AS REQUIRED CHECK PRESSURE & TURN ADJUSTMENT SCREW CW TO INCREASE INSPECT SEAT FOR DAMAGE OR FOREIGN MATERIAL. REPLACE IF REQUIRED
FAILURE TO HOLD THE LOAD	<ul style="list-style-type: none"> -VALVE SPOOL IS NOT IN THE NEUTRAL POSITION -FOREIGN MATERIAL LODGED IN THE HOLDING CHECK VALVE OR THE SEAT AREA 	<ul style="list-style-type: none"> INSPECT LINKAGE & ADJUST FOR CENTER POSITION REMOVE RELIEF VALVE & CLEAN. INSPEC VALVE & HOUSING SEAT FOR DAMAGE

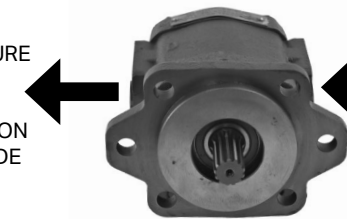
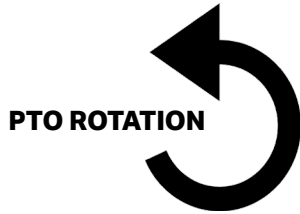
PUMP ROTATION BASED ON PTO SHAFT ROTATION



**VIEW
PUMP
BELLY
DOWN**

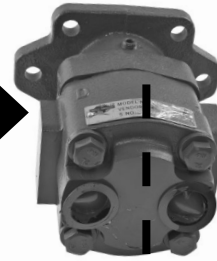
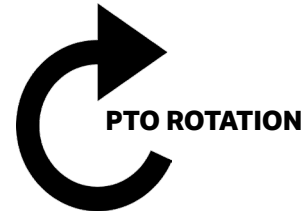
(OPP) LEFT HAND ROTATION

VIEW FROM FRONT OF VEHICLE



INLET SIDE & REAR PORTS ON THIS SIDE

VIEW FROM REAR OF VEHICLE

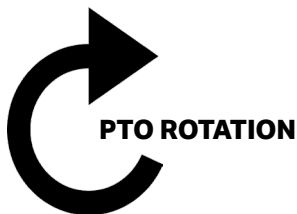


INLET SIDE & REAR PORTS ON THIS SIDE

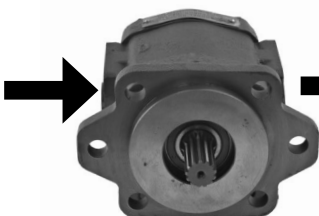
PRESSURE SIDE & REAR PORTS ON THIS SIDE

(ENG) RIGHT HAND ROTATION

VIEW FROM FRONT OF VEHICLE

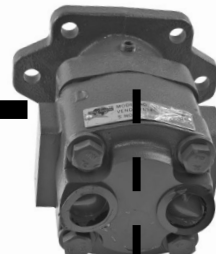
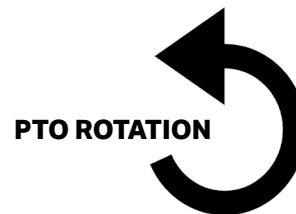


INLET SIDE & REAR PORTS ON THIS SIDE



PRESSURE SIDE & REAR PORTS ON THIS SIDE

VIEW FROM REAR OF VEHICLE



PRESSURE SIDE & REAR PORTS ON THIS SIDE


INLET SIDE & REAR PORTS ON THIS SIDE

PUMP ROTATION BASED ON PTO SHAFT ROTATION

ORDER THESE FOR YOUR SHOP TODAY!



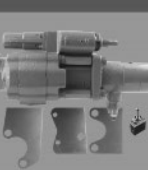
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LITERATURE



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Cab Controls
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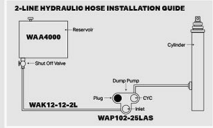
Control Towers
• 4-Click Controls with and without lockout

Hose Kits
• 4-Click Controls with and without lockout

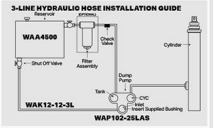
Filter Kits & Accessories
• 4-Click Controls with and without lockout
• Ball Valves
• Nipples, etc.

To find the PTO you need, visit:
PTOWorldAmerican.com

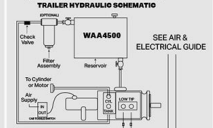
2-LINE HYDRAULIC HOSE INSTALLATION GUIDE



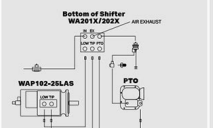
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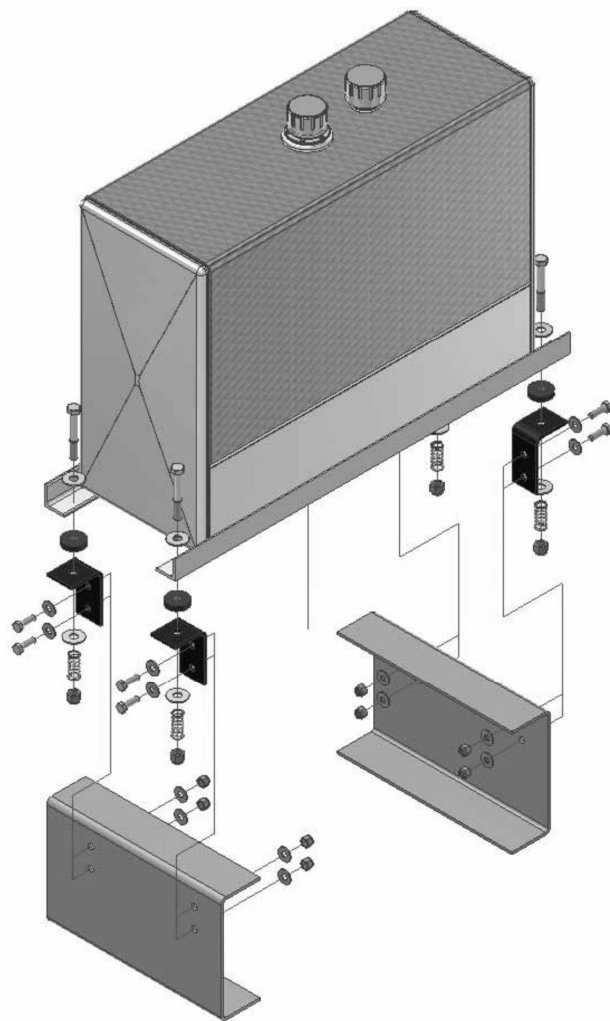
World American® Upright Tank Installation:

Models: WAA3000 & WAA4000

World American Tanks have been designed to accept both 2 line and 3 line systems

Tanks Mounting Hardware Includes:

QTY	Description
4	Pre-Drilled Frame Mounting Brackets
4	Rubber Mounting Pads
4	Grade 5 Bolts
4	Grade 5 Nyloc Nuts
4	Grade 5 Washers
4	2" Compression Springs
1	Filler/ Vent Cap Assembly
1	Auxillary Vent Cap
1	1.25" NPT Plug



**Note: Does Not Include The Frame Mounting
Hardware.**

MOUNTING INSTRUCTIONS:

1. POSITION TANK ON THE FRAME RAILS OF THE TRUCK IN THE DESIRED LOCATION.

2. POSITION THE FRAME MOUNTING BRACKETS TO ALIGN WITH THE TANKS RAILS

NOTE: The frame mounting brackets should be flush with the frame rail. The tank needs to be made level from side to side and front to back. If there is a material covering the frame rails such as a gang plank, guard, ETC; The frame rails need to be adjusted to make the tank level or it could cause the tank to fail.



PIC #1

3. MARK THE MOUNTING HOLES ON THE FRAME AND DRILL ALL THE HOLES. FRAME RAIL MOUNTING HOLES ARE 9/16" (**NOTE:** THE HARDWARE TO MOUNT THE BRACKETS TO THE FRAME ARE NOT INCLUDED.)

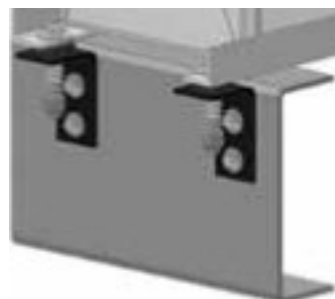


PIC #2

4. NOW THAT THE BRACKETS ARE MOUNTED; MARK THE UNDERSIDE OF THE TANK MOUNTING RAILS. DRILL ALL THE HOLES IN THE RAILS USING A 11/16" DRILL BIT.

5. PLACE THE FOUR (4) RUBBER MOUNTING PADS ON THE BRACKETS AS SHOWN IN PICTURE #2.

NOTE: THE RUBBER MOUNTING PADS SHOULD STICK UP ABOVE THE FRAME RAIL OR COVERING.



PIC #3

6. REMOUNT THE TANK ON TOP OF THE RUBBER MOUNTING PADS, BE SURE TO ALIGN THE HOLES IN THE TANK RAIL WITH THE PRE-DRILLED HOLES IN THE MOUNTING BRACKET. INSTALL THE BOLT, WASHER AND SPRING AS SHOWN ON THE PREVIOUS PAGE.

7. TIGHTEN THE NUTS UNTIL 4 OR 5 THREADS ARE SHOWING ON THE BACK SIDE OF THE NUT. **DO NOT OVER-TIGHTEN THE NUTS AND COMPRESS THE SPRINGS ALL THE WAY.** THIS ALLOWS FOR THE FRAME TO FLEX AND NOT PUT STRESS ON THE TANK.

8. INSTALL THE HOSE(S) IN THE DESIRED CONFIGURATION. EITHER PORT CAN BE USED FOR SUCTION OR RETURN.



PIC #4

World American® Saddle Mount Tank Installation:

Models: WAA50S & WAA35S

World American Tanks have been designed to accept both 2 line and 3 line systems

Tanks Mounting Hardware Includes:

QTY	Description
2	Pre-Drilled Frame Mounting Brackets
2	Steel Straps
2	Rubber Insullators
4	Grade 5 Bolts
4	Grade 5 Nyloc Nuts
8	Grade 5 Washers
1	Filler/ Vent Cap Assembly
1*	Auxillary Vent Cap
3	1.25" NPT Plug



**NOTE: STAINLESS STEEL STRAPS ARE AVAILABLE BY ADDING SS AT THE END OF
EITHER PART NUMBER. (WAA50SSS & WAA35SSS)**

*Not included/required on the 35 gallon tanks

World American® Saddle Mount Tank Installation:

Models: WAA35S & WAA50S

1. FIND A CLEAR AREA ON THE SIDE OF THE FRAME RAIL THAT WILL BE EASY TO REACH WITH ENOUGH CLEARANCE FOR THE TANK TO FIT.

2. POSITION THE TOP OF THE TANK MOUNTING BRACKET FLUSH WITH THE TRUCKS FRAME RAIL.

3. MARK THE HOLES AND DRILL USING A 5/8" DRILL BIT.

NOTE: THE FRAME BRACKETS AND STRAPS SHOULD SIT APPROXIMATELY 2" FROM THE END CAPS OF THE TANK .

4. INSERT THE STRAPS IN TO THE LOWER HOLES OF THE MOUNTING BRACKETS AND START THE NUTS BUT DO NOT TIGHTEN.

5. PLACE THE TANK INTO THE BRACKETS AND BRING THE STRAPS UP AND INTO THE UPPER FRAME BRACKET MOUNTING HOLES.

6. TIGHTEN THE STRAPS EQUALLY FROM TOP TO BOTTOM (DO NOT TIGHTEN ONE SIDE AND THE THE OTHER THIS WILL CAUSE THE STRAPS TO BREAK PREMATURELY) TIGHTENED THE NUTS TO 25FT LBS.

7. INSTALL THE HOSE PLUMBING FROM EITHER OF THE SIDE PORTS. WE RECOMMEND THE BOTTOM PORT ONLY BE USED AS A RETURN PORT. THIS WILL HELP TO KEEP CONTAMINATION OUT OF THE HYDRAULIC SYSTEM.



INTERCHANGE

INTERCHANGE: AMERICAN MOBILE POWER® TO WORLD AMERICAN

AMERICAN MOBILE POWER® #	WORLD AMERICAN #
A-2000	WAP50U
A-3000	WAS50U
A-3070	WAS70U
A3250	WAS25SB
A-3500	WAS50S
A-3535	WAS35S

AMERICAN MOBILE POWER® #	WORLD AMERICAN #
A-4000	WAA50U
A-4035-ST	WAA35U
A-4070	WAA70U
A-4500	WAA50S
A-4500SS	WAA50SS
A-4535	WAA35S

AMERICAN MOBILE POWER® #	WORLD AMERICAN #
AMK624-C-3	WASMBK
AMK624-S-3	WASBKSS
WL-HK-20-12-2L	WAK20-12-2L

INTERCHANGE: AUTOMANN® TO WORLD AMERICAN

AUTOMANN® #	WORLD AMERICAN #
174.C3504	AS102
179.3013.10	WA4306-10
179.3013.15	WA4306-15
761.C101D251	WAP101-25
761.C101D25A1	WAP101-25AS

AUTOMANN® #	WORLD AMERICAN #
761.C102D251	WAP102-25L
761.C102D25A1	WAP102-25LAS
761.G1011	WA101G
761.G101A1	WA101GAS
761.G1021	WA102G

AUTOMANN® #	WORLD AMERICAN #
761.G102A1	WA102GAS

INTERCHANGE: BEZARES® TO WORLD AMERICAN

BEZARES® #	WORLD AMERICAN #
108010200	WA20-04-3065
1000X0N423SE	WA20-06-5156
1000X0W131RA	WA20-06-5219
1000XBA011RA	WA20-06-5082
1000XBA011SE	WA20-06-5124
1000XBN011RA	WA20-06-5022
1000XBN011SE	WA20-06-5021
1000XBS011RA	WA20-06-5135
1000XBT011SE	WA20-06-5140
1000XBW011RA	WA20-06-5149
1000XBW011SE	WA20-06-5023
1000XBW014XK	WA20-06-5002
1000XBW243SE	WA20-06-5292
1000XCA011RA	WA20-06-5010
1000XCA011SE	WA20-06-5130
1000XCA013RA	WA20-06-5200
1000XCA173RA	WA20-06-5227
1000XCA283RA	WA20-06-5240
1000XCA283SE	WA20-06-5250
1000XCN011RA	WA20-06-5009
1000XCN011SE	WA20-06-5077
1000XCN173RA	WA20-06-5285
1000XCN243SE	WA20-06-5280
1000XCN251RA	WA20-06-5093
1000XCN281RA	WA20-06-5216
1000XCN343SE	WA20-06-5155

BEZARES® #	WORLD AMERICAN #
1000XCS011RA	WA20-06-5112
1000XCS011SE	WA20-06-5153
1000XCW011SE	WA20-06-5191
1000XCW013RA	WA20-06-5275
1000XCW171RA	WA20-06-5211
1000XCW211SE	WA20-06-5299
1000XCW503SE	WA20-06-5024
1000XEA011RA	WA20-06-5029
1000XEA011SE	WA20-06-5028
1000XEA013RA	WA20-06-5126
1000XEA014SE	WA20-06-5269
1000XEA021SE	WA20-06-5026
1000XEA051SE	WA20-06-5089
1000XEA171RA	WA20-06-5007
1000XEA171SE	WA20-06-5096
1000XEA173RA	WA20-06-5244
1000XEA173SE	WA20-06-5224
1000XEA283RA	WA20-06-5262
1000XEN011RA	WA20-06-5000
1000XEN011SE	WA20-06-5105
1000XEN012RA	WA20-06-5241
1000XEN013RA	WA20-06-5125
1000XEN021RA	WA20-06-5270
1000XEN021SE	WA20-06-5027
1000XEN023RA	WA20-06-5242
1000XEN051SE	WA20-06-5091

BEZARES® #	WORLD AMERICAN #
1000XEN053SE	WA20-06-5097
1000XEN171RA	WA20-06-5090
1000XES011RA	WA20-06-5003
1000XES171RA	WA20-06-5141
1000XEW011RA	WA20-06-5008
1000XEW011SE	WA20-06-5104
1000XEW014SE	WA20-06-5228
1000XEW171SE	WA20-06-5194
1000XEW181RA	WA20-06-5238
1000XEW193SE	WA20-06-5150
1000XEW523SE	WA20-06-5259
1000XJA011RA	WA20-06-5031
1000XJA011SE	WA20-06-5030
1000XJA053SE	WA20-06-5035
1000XJA171RA	WA20-06-5038
1000XJA281SE	WA20-06-5289
1000XJA283RA	WA20-06-5102
1000XJN011RA	WA20-06-5033
1000XJN011SE	WA20-06-5032
1000XJN053SE	WA20-06-5036
1000XJN081RA	WA20-06-5162
1000XJN083RA	WA20-06-5161
1000XJN171RA	WA20-06-5039
1000XJN271SE	WA20-06-5279
1000XJN283RA	WA20-06-5101
1000XJN663RA	WA20-06-5040

INTERCHANGE

INTERCHANGE: BEZARES® TO WORLD AMERICAN

BEZARES® #	WORLD AMERICAN #
1000XS283RA	WA20-06-5199
1000XJW011RA	WA20-06-5004
1000XJW011SE	WA20-06-5034
1000XJW083SE	WA20-06-5295
1000XJW112SE	WA20-06-5037
1000XJW171SE	WA20-06-5210
1000XJW173RA	WA20-06-5281
1000XJW173SE	WA20-06-5274
1000XJW183SE	WA20-06-5247
1000XJW201RA	WA20-06-5195
1000XJW343RA	WA20-06-5079
1000XJW503SE	WA20-06-5157
1000XOA011RA	WA20-06-5107
1000XOA011SE	WA20-06-5109
1000XOA012RA	WA20-06-5171
1000XOA171RA	WA20-06-5043
1000XOA171SE	WA20-06-5042
1000XOA173RA	WA20-06-5239
1000XOA173SE	WA20-06-5234
1000XOA283RA	WA20-06-5302
1000XOA341RA	WA20-06-5152
1000XOA343RA	WA20-06-5050
1000XOA423RA	WA20-06-5293
1000XON011RA	WA20-06-5232
1000XON011SE	WA20-06-5108
1000XON113SE	WA20-06-5041
1000XON171RA	WA20-06-5046
1000XON171SE	WA20-06-5045
1000XON173RA	WA20-06-5047
1000XON241RA	WA20-06-5246
1000XON303RA	WA20-06-5166
1000XON343RA	WA20-06-5051
1000XON423RA	WA20-06-5248
1000XON423SE	WA20-06-5294
1000XON513RA	WA20-06-5297
1000XOS173SE	WA20-06-5282
1000XOS301RA	WA20-06-5175
1000XOS301SE	WA20-06-5176
1000XOT171RA	WA20-06-5044
1000XOW064SE	WA20-06-5182
1000XOW083RA	WA20-06-5212
1000XOW083SE	WA20-06-5181
1000XOW113RA	WA20-06-5019
1000XOW131SE	WA20-06-5151
1000XOW171RA	WA20-06-5142
1000XOW171SE	WA20-06-5048
1000XOW173RA	WA20-06-5049
1000XOW173SE	WA20-06-5119
1000XOW181RA	WA20-06-5235
1000XOW201RA	WA20-06-5193
1000XOW211SE	WA20-06-5301
1000XOW213RA	WA20-06-5103
1000XOW213SE	WA20-06-5251

BEZARES® #	WORLD AMERICAN #
1000XOW273SE	WA20-06-5172
1000XOW301SE	WA20-06-5183
1000XOW331RA	WA20-06-5129
1000XOW333RA	WA20-06-5137
1000XOW333SE	WA20-06-5083
1000XOW341RA	WA20-06-5110
1000XOW423RA	WA20-06-5231
1000XOW503RA	WA20-06-5088
1000XOW513SE	WA20-06-5052
1000XRA011SE	WA20-06-5123
1000XRA013RA	WA20-06-5196
1000XRA171SE	WA20-06-5159
1000XRA173RA	WA20-06-5158
1000XRA221RA	WA20-06-5265
1000XRA283SE	WA20-06-5268
1000XRA301RA	WA20-06-5132
1000XRA301SE	WA20-06-5134
1000XRN011SE	WA20-06-5122
1000XRN013SE	WA20-06-5148
1000XRN014RA	WA20-06-5054
1000XRN171RA	WA20-06-5092
1000XRN173RA	WA20-06-5260
1000XRN251RA	WA20-06-5245
1000XRN251SE	WA20-06-5255
1000XRN283RA	WA20-06-5187
1000XRN301RA	WA20-06-5131
1000XRN301SE	WA20-06-5133
1000XRN333RA	WA20-06-5163
1000XRS341RA	WA20-06-5170
1000XRW011SE	WA20-06-5055
1000XRW014RA	WA20-06-5056
1000XRW171RA	WA20-06-5058
1000XRW171SE	WA20-06-5220
1000XRW173RA	WA20-06-5098
1000XRW173SE	WA20-06-5059
1000XRW181SE	WA20-06-5060
1000XRW203SE	WA20-06-5288
1000XRW221SE	WA20-06-5267
1000XRW231RA	WA20-06-5201
1000XRW231SE	WA20-06-5217
1000XRW301RA	WA20-06-5205
1000XRW301SE	WA20-06-5188
1000XRW331RA	WA20-06-5180
1000XRW333RA	WA20-06-5057
1000XRW333SE	WA20-06-5020
1000XRW521RA	WA20-06-5215
1000XTA171SE	WA20-06-5067
1000XTA281RA	WA20-06-5164
1000XTA283RA	WA20-06-5169
1000XTA341RA	WA20-06-5128
1000XTN011RA	WA20-06-5062
1000XTN011SE	WA20-06-5266
1000XTN013RA	WA20-06-5298

BEZARES® #	WORLD AMERICAN #
1000XTN014RA	WA20-06-5063
1000XTN171SE	WA20-06-5068
1000XTN173RA	WA20-06-5264
1000XTN181RA	WA20-06-5243
1000XTN253RA	WA20-06-5287
1000XTN341RA	WA20-06-5127
1000XTT011RA	WA20-06-5061
1000XTW014RA	WA20-06-5065
1000XTW014SE	WA20-06-5064
1000XTW113RA	WA20-06-5066
1000XTW171SE	WA20-06-5236
1000XTW173SE	WA20-06-5069
1000XTW181RA	WA20-06-5086
1000XTW181SE	WA20-06-5202
1000XTW183SE	WA20-06-5253
1000XTW201SE	WA20-06-5249
1000XTW203RA	WA20-06-5230
1000XTW301RA	WA20-06-5154
1000XTW331RA	WA20-06-5186
1000XTW331SE	WA20-06-5190
1001XBA011SE	WA20-06-5139
1001XBA013SE	WA20-06-5283
1001XBN011RA	WA20-06-5012
1001XBN011RSA	WA20-06-5278
1001XBN011SE	WA20-06-5005
1001XBW011SE	WA20-06-5013
1001XCA011RA	WA20-06-5014
1001XCA011SE	WA20-06-5284
1001XCN011RA	WA20-06-5016
1001XCN011SE	WA20-06-5015
1001XEA011SE	WA20-06-5184
1001XEA663RA	WA20-06-5080
1001XEN011SE	WA20-06-5145
1001XES011RA	WA20-06-5001
1001XEW011RA	WA20-06-5229
1001XOA011SE	WA20-06-5209
1001XOA663RA	WA20-06-5018
1001XON011DA	WA20-06-5261
1010XBA011RA	WA20-06-5071
1010XBA24X1RA	WA20-06-5116
1010XBN011RA	WA20-06-5078
1010XBN241SE	WA20-06-5218
1010XBN24X1RA	WA20-06-5115
1010XBS241RA	WA20-06-5136
1010XBW241RA	WA20-06-5222
1010XBW241SE	WA20-06-5256
1010XCA241RA	WA20-06-5072
1010XCA24X1SE	WA20-06-5113
1010XCN241RA	WA20-06-5073
1010XCN243RA	WA20-06-5006
1010XCN24X1SE	WA20-06-5114
1010XCS241RA	WA20-06-5221
1010XCT24X1RA	WA20-06-5095

INTERCHANGE

INTERCHANGE: BEZARES® TO WORLD AMERICAN

BEZARES® #	WORLD AMERICAN #
1010XCW333SE	WA20-06-5138
1010XEA011RA	WA20-06-5118
1010XEA011SE	WA20-06-5214
1010XEA241SE	WA20-06-5208
1010XEA343RA	WA20-06-5074
1010XEN011RA	WA20-06-5117
1010XEN24ARA	WA20-06-5225
1010XEN343RA	WA20-06-5075
1010XEW011SE	WA20-06-5146
1010XEW014RA	WA20-06-5213
1010XJA011RA	WA20-06-5263
1010XJA343RA	WA20-06-5296
1010XJN241RA	WA20-06-5111
1010XJN341RA	WA20-06-5189
1010XOA011RA	WA20-06-5233
1010XOA241SE	WA20-06-5121
1010XOA341RA	WA20-06-5100
1010XON011SE	WA20-06-5206
1010XON241SE	WA20-06-5120
1010XON341RA	WA20-06-5099
1010XON343RA	WA20-06-5192
1010XOS3341RA	WA20-06-5177
1010XOS3341SE	WA20-06-5178
1010XOSA341SE	WA20-06-5185
1010XOW011RA	WA20-06-5147
1010XOW333SE	WA20-06-5081
1010XOW341RA	WA20-06-5094
1010XOW343RA	WA20-06-5143
1010XOW401RA	WA20-06-5198
1010XRA343RA	WA20-06-5252
1010XRN241SE	WA20-06-5276
1010XRW343RA	WA20-06-5160
1010XTA343RA	WA20-06-5197
1010XTN341RA	WA20-06-5168
1010XTN343RA	WA20-06-5167
1010XTN343SE	WA20-06-5087
1010XTW341SE	WA20-06-5203
1010XTW343SE	WA20-06-5084
2000XOA013SE	WA20-08-7122
2000XBA011RA	WA20-08-7008
2000XBA011RB	WA20-08-7109
2000XBA011SE	WA20-08-7029
2000XBA013RA	WA20-08-7052
2000XBA013RA	WA20-08-7202
2000XBA014RA	WA20-08-7118
2000XBN011DA	WA20-08-7031
2000XBN011RA	WA20-08-7000
2000XBN011RB	WA20-08-7057
2000XBN011SE	WA20-08-7004
2000XBN013RA	WA20-08-7003
2000XBN013SE	WA20-08-7007
2000XBN014RA	WA20-08-7175
2000XBS011RA	WA20-08-7053

BEZARES® #	WORLD AMERICAN #
2000XBS011SE	WA20-08-7086
2000XBS013RA	WA20-08-7054
2000XBS013SE	WA20-08-7251
2000XBT011RA	WA20-08-7055
2000XBT011SE	WA20-08-7233
2000XBT013RA	WA20-08-7056
2000XBT013SE	WA20-08-7253
2000XBW011RA	WA20-08-7205
2000XCA011RA	WA20-08-7015
2000XCA011RB	WA20-08-7114
2000XCA011RB	WA20-08-7119
2000XCA011SE	WA20-08-7042
2000XCA011SG	WA20-08-7123
2000XCA012RA	WA20-08-7139
2000XCA013RA	WA20-08-7089
2000XCA013SE	WA20-08-7163
2000XCA021RA	WA20-08-7112
2000XCA241SE	WA20-08-7126
2000XCA243RA	WA20-08-7059
2000XCN011DA	WA20-08-7167
2000XCN011RA	WA20-08-7001
2000XCN011SE	WA20-08-7002
2000XCN013RA	WA20-08-7012
2000XCN013RB	WA20-08-7151
2000XCN013SE	WA20-08-7134
2000XCN014RA	WA20-08-7101
2000XCN014SE	WA20-08-7164
2000XCN243DA	WA20-08-7130
2000XCN243RA	WA20-08-7060
2000XCS011RA	WA20-08-7014
2000XCS011SE	WA20-08-7235
2000XCS013RA	WA20-08-7220
2000XCS013SE	WA20-08-7255
2000XCT011RA	WA20-08-7032
2000XCT011SE	WA20-08-7237
2000XCT013RA	WA20-08-7222
2000XCT013SE	WA20-08-7257
2000XCW011RA	WA20-08-7058
2000XCW011SE	WA20-08-7022
2000XEA011RA	WA20-08-7017
2000XEA011RB	WA20-08-7124
2000XEA011SE	WA20-08-7018
2000XEA013RA	WA20-08-7040
2000XEA013SE	WA20-08-7033
2000XEA051RA	WA20-08-7062
2000XEA243RA	WA20-08-7110
2000XEA273RA	WA20-08-7064
2000XEN011RA	WA20-08-7005
2000XEN011RB	WA20-08-7148
2000XEN011SE	WA20-08-7006
2000XEN013RA	WA20-08-7027
2000XEN013SE	WA20-08-7026
2000XEN014RA	WA20-08-7113

BEZARES® #	WORLD AMERICAN #
2000XEN014SE	WA20-08-7173
2000XEN051RA	WA20-08-7063
2000XES011RA	WA20-08-7061
2000XES011SE	WA20-08-7239
2000XES013RA	WA20-08-7224
2000XES013SE	WA20-08-7259
2000XET011RA	WA20-08-7208
2000XET011SE	WA20-08-7241
2000XET013RA	WA20-08-7226
2000XET013SE	WA20-08-7261
2000XEW011RA	WA20-08-7028
2000XEW011SE	WA20-08-7010
2000XEW014SE	WA20-08-7150
2000XJA011RA	WA20-08-7065
2000XJA011SE	WA20-08-7034
2000XJA013RA	WA20-08-7066
2000XJN011RA	WA20-08-7068
2000XJN011SE	WA20-08-7067
2000XJN013RA	WA20-08-7090
2000XJN013SE	WA20-08-7140
2000XJN014RA	WA20-08-7116
2000XJN273RA	WA20-08-7069
2000XJS011RA	WA20-08-7210
2000XJS011SE	WA20-08-7243
2000XJS013RA	WA20-08-7228
2000XJT011RA	WA20-08-7212
2000XJT011SE	WA20-08-7245
2000XJT013RA	WA20-08-7230
2000XJT273RA	WA20-08-7100
2000XJW011RA	WA20-08-7041
2000XJW011SE	WA20-08-7023
2000XJW014SE	WA20-08-7141
2000XJW081RA	WA20-08-7098
2000XJW081SE	WA20-08-7099
2000XOA011RA	WA20-08-7019
2000XOA011SE	WA20-08-7035
2000XOA013RA	WA20-08-7168
2000XON011RA	WA20-08-7070
2000XON011RB	WA20-08-7149
2000XON011SE	WA20-08-7020
2000XON014RA	WA20-08-7161
2000XON273RA	WA20-08-7073
2000XOS011RA	WA20-08-7214
2000XOS011SE	WA20-08-7247
2000XOT011RA	WA20-08-7216
2000XOT011SE	WA20-08-7249
2000XOT273RA	WA20-08-7072
2000XOW011RA	WA20-08-7071
2000XOW014SE	WA20-08-7160
2000XRA011SE	WA20-08-7105
2000XRA241RA	WA20-08-7096
2000XRN011RA	WA20-08-7158
2000XRN011SE	WA20-08-7133

INTERCHANGE

INTERCHANGE: BEZARES® TO WORLD AMERICAN

BEZARES® #	WORLD AMERICAN #
2000XRN241RA	WA20-08-7095
2000XRW051SE	WA20-08-7115
2000XRW081SE	WA20-08-7097
2000XTA011SE	WA20-08-7153
2000XTA251SE	WA20-08-7171
2000XTN013RA	WA20-08-7155
2001X0A013SE	WA20-08-7121
2001XBA011RA	WA20-08-7016
2001XBA011SE	WA20-08-7043
2001XBA013RA	WA20-08-7044
2001XBA013SE	WA20-08-7117
2001XBN011DA	WA20-08-7172
2001XBN011RA	WA20-08-7030
2001XBN011RB	WA20-08-7154
2001XBN011SE	WA20-08-7025
2001XBN013RA	WA20-08-7088
2001XBN013SE	WA20-08-7132
2001XBS011RA	WA20-08-7045
2001XBS011SE	WA20-08-7232
2001XBS013RA	WA20-08-7218
2001XBS013SE	WA20-08-7252
2001XBT011RA	WA20-08-7206
2001XBT011SE	WA20-08-7234
2001XBT013RA	WA20-08-7219
2001XBT013SE	WA20-08-7254
2001XBW011RA	WA20-08-7104
2001XCA011RA	WA20-08-7046
2001XCA011SE	WA20-08-7011
2001XCA013RA	WA20-08-7047
2001XCA013SE	WA20-08-7203
2001XCN011RA	WA20-08-7036
2001XCN011SE	WA20-08-7159
2001XCN013RA	WA20-08-7048
2001XCN013SE	WA20-08-7200
2001XCS011RA	WA20-08-7125
2001XCS011SE	WA20-08-7236
2001XCS013RA	WA20-08-7221
2001XCS013SE	WA20-08-7256
2001XCT011RA	WA20-08-7207
2001XCT011SE	WA20-08-7238
2001XCT013RA	WA20-08-7223
2001XCT013SE	WA20-08-7258
2001XCW011RA	WA20-08-7192
2001XCW011SE	WA20-08-7103
2001XCW013SE	WA20-08-7196
2001XEA011RA	WA20-08-7037
2001XEA011SE	WA20-08-7021
2001XEA013RA	WA20-08-7169
2001XEA013SE	WA20-08-7146
2001XEN011RA	WA20-08-7049
2001XEN011SE	WA20-08-7009
2001XEN013RA	WA20-08-7093
2001XEN013SE	WA20-08-7201

BEZARES® #	WORLD AMERICAN #
2001XES011RA	WA20-08-7152
2001XES011SE	WA20-08-7240
2001XES013RA	WA20-08-7225
2001XES013SE	WA20-08-7260
2001XET011RA	WA20-08-7209
2001XET011SE	WA20-08-7242
2001XET013RA	WA20-08-7227
2001XET013SE	WA20-08-7262
2001XEW011RA	WA20-08-7193
2001XEW011SE	WA20-08-7197
2001XJA011RA	WA20-08-7051
2001XJA011SE	WA20-08-7050
2001XJA013RA	WA20-08-7204
2001XJN011RA	WA20-08-7038
2001XJN011SE	WA20-08-7127
2001XJN013RA	WA20-08-7199
2001XJS011RA	WA20-08-7211
2001XJS011SE	WA20-08-7244
2001XJS013RA	WA20-08-7229
2001XJT011RA	WA20-08-7213
2001XJT011SE	WA20-08-7246
2001XJT013RA	WA20-08-7231
2001XJW011RA	WA20-08-7194
2001XJW011SE	WA20-08-7198
2001X0A011RA	WA20-08-7087
2001X0A011SE	WA20-08-7107
2001XON011RA	WA20-08-7039
2001XON011SE	WA20-08-7102
2001XON013SE	WA20-08-7162
2001XOS011RA	WA20-08-7215
2001XOS011SE	WA20-08-7248
2001XOT011RA	WA20-08-7217
2001XOT011SE	WA20-08-7250
2001XOW011RA	WA20-08-7195
2001XRA011SE	WA20-08-7108
2001XRN011RA	WA20-08-7128
2001XRN011SE	WA20-08-7143
2001XTA011SE	WA20-08-7106
200XRN081RA	WA20-08-7135
2010XBA243RA	WA20-08-7076
2010XBA243SE	WA20-08-7075
2010XBA244RA	WA20-08-7136
2010XBN011RA	WA20-08-7074
2010XBN243RA	WA20-08-7078
2010XBN243SE	WA20-08-7077
2010XBS243RA	WA20-08-7180
2010XBS243SE	WA20-08-7186
2010XBT243RA	WA20-08-7181
2010XBT243SE	WA20-08-7187
2010XCA243RA	WA20-08-7079
2010XCA243SE	WA20-08-7092
2010XCN241RA	WA20-08-7174
2010XCN243IA	WA20-08-7156

BEZARES® #	WORLD AMERICAN #
2010XCN243RA	WA20-08-7081
2010XCN243SE	WA20-08-7091
2010XCS243RA	WA20-08-7129
2010XCS243SE	WA20-08-7188
2010XCT243RA	WA20-08-7080
2010XCT243SE	WA20-08-7189
2010XCW243RA	WA20-08-7170
2010XEN243RA	WA20-08-7120
2010XEN243SE	WA20-08-7131
2010XES013RA	WA20-08-7182
2010XES243SE	WA20-08-7190
2010XET243RA	WA20-08-7183
2010XET243SE	WA20-08-7191
2010XJA243RA	WA20-08-7157
2010XJA243SE	WA20-08-7083
2010XJA243SE	WA20-08-7177
2010XJN243RA	WA20-08-7085
2010XJN243SE	WA20-08-7082
2010XJS243RA	WA20-08-7184
2010XJS243SE	WA20-08-7178
2010XJT243RA	WA20-08-7185
2010XJT243SE	WA20-08-7179
2010XON011RA	WA20-08-7094
2010XON241SE	WA20-08-7165
2010XON243SE	WA20-08-7084
2010XRN243SE	WA20-08-7176
3100PBE63RA	WA20-10-9001
3100PBE63SE	WA20-10-9005
3100PEE63RA	WA20-10-9003
3100PEE63SE	WA20-10-9007
3100PGE63RA	WA20-10-9002
3100PGE63SE	WA20-10-9006
3100PJE63RA	WA20-10-9004
3100PJE63SE	WA20-10-9008
6140S	WA6140
6165S	WA6165
6187S	WA6187
6200S	WA6200
6240S	WA6240
6-3-120AV00	WA20-CH-63120
6-3-126AV00	WA20-CH-63126
6400S	WA6400
6500S	WA6500
6550S	WA6550
6562S	WA6562
6800S	WA6800
7-4-135AV00	WA20-CH-74135
7-4-156AV00	WA20-CH-74156
8190S	WA8190
8248S	WA8248
8295S	WA8295
8-5-190AV00	WA20-CH-85190
8-5-220AV00	WA20-CH-85220

INTERCHANGE

INTERCHANGE: BEZARES® TO WORLD AMERICAN

BEZARES® #	WORLD AMERICAN #
8-5-250AV00	WA20-CH-85250
8-5-265AV00	WA20-CH-85265
8700S	WA8700
AD7011104	WA20-MD-7813
AD705304	WA20-MD-1310
AK126X	WA201X
AK127X	WA202X
GA200	WA20-04-3065
GA6010	WA6010
GA6015	WA6015
GA6020	WA6020
GA6032	WA6032
GA6062	WA6062
GA6093	WA6093
GA6125	WA6125
GA8010	WA8010
GA8015	WA8015
GA8020	WA8020
GA8032	WA8032
GA8062	WA8062
GA8093	WA8093

BEZARES® #	WORLD AMERICAN #
GP-101-20	WA101G
GP-102-LAS-20	WA102GAS
GP-102-LMS-20	WA102G
HSK2L-16-8	WAK16-8-2L
HSK3L-12-12	WAK12-12-3L
HSK3L16-24	WAK16-24-3L
HSK3L-20-24	WAK20-24-3L
M2100A890MDXE10-14	WAK20B8ANX
M2100A890MDXK15-14	WAK20B13ANX
M2100A890MDXK17-14	WAK20B15ANX
M2100A890MDXK20-14	WAK20B17ANX
M5151A224AAXK20-54	WAL51B-23ANX
M5151A224AAXQ17-54	WAL51B-19ANX
M5151A224AAXQ22-54	WAL51B-25ANX
M5151A224AAXQ25-54	WAL51B-27ANX
P2100A290MDXE10-14	WAK20B8ANX
P2100A290MDXK15-14	WAK20B13ANX
P2100A290MDXK17-14	WAK20B15ANX
P2100A290MDXK20-14	WAK20B17ANX
P5151A224AAXK17-54	WAL51B-19ANX
P5151A224AAXK20-54	WAL51B-23ANX

BEZARES® #	WORLD AMERICAN #
P5151A224AAXQ22-54	WAL51B-25ANX
P5151A224AAXQ25-54	WAL51B-27ANX
PP-101-25	WAP101-25
PP-101-A-25	WAP101-25AS
PP-102-LAS-25	WAP102-25LAS
PP-102-LMS-25	WAP102-25L
TA-25-SS	WAS25SB
TA-35-SA	WAA35S
TA-35-SS	WAS35S
TA-50-SA	WAA50S
TA-50-SA-S	WAA50SS
TA-50-SS	WAS50S
TA-50-UA-2	WAA50U
TA-50-UP	WAP50U
TA-50-US	WAS50U
TA-70-UA	WAA70U
TA-70-US	WAS70U
TO126-10	WA600222
TO126-12	WA600223
TO126-8	WA600221
VP42-4COFL-FC55	WADVLPUMP

INTERCHANGE

INTERCHANGE: CHELSEA® TO WORLD AMERICAN

CHELSEA® #	WORLD AMERICAN #
378000	WA20-03-1076
378391	WA20-03-1028
378576	WA20-04-3002
378811	WA20-04-3030
378849	WA20-04-3031
378895	WA20-04-3007
379000	WA20-04-3037
379001	WA20-04-3038
379224	WA20-03-1145
379231	WA20-04-3035
379242	WA20-04-3034
379476	WA20-03-1061
379486	WA20-04-3024
379502	WA20-04-3075
379504	WA20-04-3076
379522	WA20-03-1069
379556	WA20-04-3077
379744	WA20-03-1149
379745	WA20-03-1066
379745	WA20-03-1147
379746	WA20-04-3018
379747	WA20-03-1068
380012	WA20-04-3039
550010	WA20-04-3006
550221	WA20-03-1051
550397	WA20-03-1046
550439	WA20-03-1042
550532	WA20-03-1031
550890	WA20-03-1094
560972	WA20-04-3019
561006	WA20-03-1095
442ZFDAX-W3XD	WA20-06-5256
442ZRFNX-V3XK	WA20-06-5189
5-P-969	WA20-03-1129
14-P-49	WA20-04-3017
14-P-73-1	WA20-03-1029
14-P-73-2	WA20-03-1132
14-P-73-3	WA20-03-1133
14-P73-4	WA20-03-1143
14-P-73-5	WA20-03-1135
14-P-75	WA20-03-1096
14-P-79-1	WA20-04-3043
14-P-79-2	WA20-04-3044
14-P-79-3	WA20-04-3045
14-P-79-4	WA20-04-3046
1-P-552X	WA20-03-1004
1-P-557X	WA20-03-1005
1-P-558X	WA20-03-1006
1-P-562X	WA20-03-1007
1-P-603	WA20-04-3032
21-P-480	WA20-04-3004
21-P-482	WA20-04-3003
22-P-101	WA20-04-3005
22-P-112	WA20-04-3028

CHELSEA® #	WORLD AMERICAN #
22-P-24-1	WA20-03-1027
22-P-24-2	WA20-03-1041
22-P-24-3	WA20-03-1126
230XKDAX-P3XK	WA20-16-1500
230XQAJX-P3XK	WA20-16-1501
270GBHVP-B5XK	WA20-16-1502
277XBFJP-B5XD	WA20-10-9005
277XBFJP-B5XK	WA20-10-9001
277XDFJP-B5XD	WA20-10-9006
277XDFJP-B5XK	WA20-10-9002
277XGFJP-B5XD	WA20-10-9007
277XGFJP-B5XK	WA20-10-9003
277XMFJP-B5XD	WA20-10-9008
277XMFJP-B5XK	WA20-10-9004
28-P-119	WA20-04-3029
28-P-171	WA20-04-3033
28-P-178	WA20-04-3012
28-P-179	WA20-04-3067
28-P-191	WA20-03-1036
28-P-216	WA20-03-1040
28-P-219	WA20-03-1100
28-P-225	WA20-04-3001
28-P-226	WA20-03-1169
28-P-244	WA20-04-3010
28-P-268	WA20-03-1195
28-P-275	WA20-03-1184
28-P-42	WA20-03-1156
28-P-99	WA20-03-1058
2-P-458	WA20-04-3016
2-P-559	WA20-03-1011
2-P-560	WA20-03-1101
2-P-561	WA20-03-1102
2-P-637	WA20-03-1103
2-P-682	WA20-04-3058
2-P-683	WA20-04-3055
2-P-684	WA20-04-3052
2-P-688	WA20-04-3049
2-P-726	WA20-03-1014
2-P-727	WA20-03-1017
2-P-728	WA20-03-1130
2-P-791	WA20-03-1188
2-P-802	WA20-03-1152
2-P-833	WA20-03-1104
31-P-102	WA20-03-1026
31-P-70	WA20-04-3020
328170-14X	WA20-03-1086
328170-192X	WA328170-192X
328170-200X	WA20-03-1116
328170-201X	WA20-03-1056
328170-76X	WA20-03-1062
328170-76X	WA20-03-1117
328170-77X	WA20-03-1071
328273X	WA20-03-1034
328273X-1X	WA20-03-1054

CHELSEA® #	WORLD AMERICAN #
328274-1X	WA20-03-1043
328274X	WA20-03-1064
328356-13X	WA20-03-1053
328356-50X	WA20-03-1052
328380X	WA20-03-1059
328591-16X	WA20-03-1020
328591-30X	WA20-03-1090
328591-70X	WA20-03-1174
328591-92X	WA20-03-1105
328594-13X	WA20-03-1080
329005-1X	WA20-04-3047
329005-2X	WA20-04-3050
329005-3X	WA20-04-3053
329005-4X	WA20-04-3056
329006-1X	WA20-04-3060
329006-8X	WA20-04-3061
329071-19X	WA20-04-3062
329071-36X	WA20-04-3063
329071-7X	WA20-04-3059
329075-2X	WA20-04-3072
329088X	WA20-03-1110
329119-1X	WA20-03-1070
329119-2X	WA20-03-1074
329121-1X	WA20-03-1067
329121-2X	WA20-03-1091
329130-1X	WA20-04-3074
329130-2X	WA20-04-3070
329130-4X	WA20-04-3073
329130-5X	WA20-04-3071
329202X	WA20-03-1134
329271-1X	WA20-03-1197
329271-2X	WA20-03-1183
329328X	AS102G
329333X	WA20-03-1063
329333X-1X	WA20-03-1047
329342X	AS102
329361X	WA20-03-1030
329361X	WA20-03-1168
329463-12X	WA20-04-3023
34-P-143	WA20-04-3027
35-P-15-1	WA8010
35-P-15-2	WA8020
35-P-74	WA20-04-3065
35-P-8	WA20-03-1038
35-P-9-1	WA6010
35-P-9-2	WA6020
378430-9	WA20-03-1039
378447-6	WA20-03-1035
378447-8	WA20-03-1037
379044-7	WA20-03-1191
379287-12	WA20-03-1144
379323-1	WA20-04-3009
379423-12	WA20-03-1150
379423-15	WA20-03-1148

INTERCHANGE

INTERCHANGE: CHELSEA® TO WORLD AMERICAN

CHELSEA® #	WORLD AMERICAN #
379424-18	WA20-03-1146
379424-29	WA20-03-1107
379426-16	WA20-03-1077
379486-1	WA20-04-3025
379486-2	WA20-04-3026
379547X	WA20-04-3000
37-P-39	WA20-04-3013
380057-1	WA20-04-3011
380123-12	WA20-04-3036
3-P-202	WA20-03-1022
3P202-1	WA20-03-1024
3-P-282	WA20-03-1021
3P282-1	WA20-03-1023
3-P-831	WA20-04-3015
3-P-832	WA20-04-3014
3-P-854	WA20-03-1099
3-P-979	WA20-03-1108
42-P-217X	WA20-04-2004
42-P-218X	WA20-04-2002
42-P-223X	WA20-04-2003
42-P-22X	WA20-03-1185
42-P-231X	WA20-04-2001
442GBHVX-A3XK	WA20-06-5226
442GBHVX-A5XK	WA20-06-5272
442GBHVX-V5XK	WA20-06-5011
442GBHVX-W3XK	WA20-06-5291
442GBHVX-W5XK	WA20-06-5223
442GFAHX-A3XD	WA20-06-5139
442GFAHX-A5XD	WA20-06-5283
442GFAHX-S3XK	WA20-06-5278
442GFAHX-V3XD	WA20-06-5005
442GFAHX-V3XK	WA20-06-5012
442GFAHX-W3XD	WA20-06-5013
442GLAHX-A3XD	WA20-06-5284
442GLAHX-A3XK	WA20-06-5014
442GLAHX-V3XD	WA20-06-5015
442GLAHX-V3XK	WA20-06-5016
442GQAHX-A3XD	WA20-06-5184
442GQAHX-S3XK	WA20-06-5001
442GQAHX-V3XD	WA20-06-5145
442GQAHX-W3XK	WA20-06-5229
442GQJAX-A5XK	WA20-06-5080
442GQJXC-V3XK	WA20-06-5017
442GRJAX-V5XK	WA20-06-5018
442GSAHX-A3XD	WA20-06-5209
442GSAHX-V3XY	WA20-06-5261
442KSBGX-V5XD	WA20-06-5271
442KSBGX-W5XK	WA20-06-5019
442KUAPX-W5XD	WA20-06-5020
442LSFNX-A5XK	WA20-06-5204
442XAAHX-A3XD	WA20-06-5273
442XFAHX-A3XD	WA20-06-5124
442XFAHX-A3XK	WA20-06-5082
442XFAHX-S3XK	WA20-06-5135

CHELSEA® #	WORLD AMERICAN #
442XFAHX-T3XD	WA20-06-5140
442XFAHX-V3XD	WA20-06-5021
442XFAHX-V3XK	WA20-06-5022
442XFAHX-V5XD	WA20-06-5320
442XFAHX-V5XK	WA20-06-5304
442XFAHX-W3XD	WA20-06-5023
442XFAHX-W3XK	WA20-06-5149
442XFAHX-W6XK	WA20-06-5002
442XFDAX-W5XD	WA20-06-5292
442XLAHX-A3XD	WA20-06-5130
442XLAHX-A3XK	WA20-06-5010
442XLAHX-S3XD	WA20-06-5153
442XLAHX-S3XK	WA20-06-5112
442XLAHX-V3XD	WA20-06-5077
442XLAHX-V3XK	WA20-06-5009
442XLAHX-V5XK	WA20-06-5200
442XLAHX-W3XD	WA20-06-5191
442XLAHX-W5XK	WA20-06-5275
442XLDAX-V5XD	WA20-06-5280
442XLDUX-V3XK	WA20-06-5093
442XLESX-A5XK	WA20-06-5227
442XLESX-V5XK	WA20-06-5285
442XLESX-W3XK	WA20-06-5211
442XLFNX-V5XD	WA20-06-5155
442XLGSX-W3XD	WA20-06-5299
442XLHYX-W5XD	WA20-06-5024
442XLJKX-A5XD	WA20-06-5250
442XLJKX-A5XK	WA20-06-5240
442XLJKX-V3XK	WA20-06-5216
442XLKIX-W3XK	WA20-06-4000
442XLKXX-W5XD	WA20-06-5025
442XQABX-A3XD	WA20-06-5026
442XQABX-V3XD	WA20-06-5027
442XQABX-V3XK	WA20-06-5270
442XQABX-V4XK	WA20-06-5313
442XQABX-V5XK	WA20-06-5242
442XQAHX-A3XD	WA20-06-5028
442XQAHX-A3XK	WA20-06-5029
442XQAHX-A5XK	WA20-06-5126
442XQAHX-A6XD	WA20-06-5269
442XQAHX-S3XK	WA20-06-5003
442XQAHX-V3XD	WA20-06-5105
442XQAHX-V3XK	WA20-06-5000
442XQAHX-V4XK	WA20-06-5241
442XQAHX-V5XK	WA20-06-5125
442XQAHX-W3XD	WA20-06-5104
442XQAHX-W3XK	WA20-06-5008
442XQAHX-W6XD	WA20-06-5228
442XQARX-A3XD	WA20-06-5089
442XQARX-V3XD	WA20-06-5091
442XQARX-V5XD	WA20-06-5097
442XQEDX-W5XD	WA20-06-5259
442XQESX-A3XD	WA20-06-5096
442XQESX-A3XK	WA20-06-5007

CHELSEA® #	WORLD AMERICAN #
442XQESX-A5XD	WA20-06-5224
442XQESX-A5XK	WA20-06-5244
442XQESX-S3XK	WA20-06-5141
442XQESX-V3XK	WA20-06-5090
442XQESX-W3XD	WA20-06-5194
442XQEWX-W3XK	WA20-06-5238
442XQFCX-W5XD	WA20-06-5150
442XQJKX-A5XK	WA20-06-5262
442XRAHX-A3XD	WA20-06-5030
442XRAHX-A3XK	WA20-06-5031
442XRAHX-S3XK	WA20-06-5322
442XRAHX-V3XD	WA20-06-5032
442XRAHX-V3XK	WA20-06-5033
442XRAHX-W3XD	WA20-06-5034
442XRAHX-W3XK	WA20-06-5004
442XRARX-A5XD	WA20-06-5035
442XRARX-V5XD	WA20-06-5036
442XRBGX-V3XK	WA20-06-5162
442XRBGX-V5XK	WA20-06-5161
442XRBGX-W5XD	WA20-06-5295
442XRBQX-W4XD	WA20-06-5037
442XRESX-A3XK	WA20-06-5038
442XRESX-A5XK	WA20-06-5323
442XRESX-V3XK	WA20-06-5039
442XRESX-W3XD	WA20-06-5210
442XRESX-W5XD	WA20-06-5274
442XRESX-W5XK	WA20-06-5281
442XREVX-V3XD	WA20-06-5279
442XREWX-W5XD	WA20-06-5247
442XRFCX-W3XK	WA20-06-5195
442XRFX-W3XK	WA20-06-5311
442XRFX-W5XK	WA20-06-5079
442XRHYX-W5XD	WA20-06-5157
442XRJAX-V5XK	WA20-06-5040
442XRJKX-A3XD	WA20-06-5289
442XRJKX-A5XK	WA20-06-5102
442XRJKX-S5XK	WA20-06-5199
442XRJKX-V5XK	WA20-06-5101
442XRKIX-W3XD	WA20-06-4001
442XSAHX-A3XD	WA20-06-5109
442XSAHX-A3XK	WA20-06-5107
442XSAHX-A4XK	WA20-06-5171
442XSAHX-V3XD	WA20-06-5108
442XSAHX-V3XK	WA20-06-5232
442XSAHX-W3XK	WA20-06-5317
442XSAPX-V3XK	WA20-06-5309
442XSAPX-W3XK	WA20-06-5129
442XSAPX-W5XD	WA20-06-5083
442XSAPX-W5XK	WA20-06-5137
442XSAXX-W6XD	WA20-06-5182
442XSBGX-W5XD	WA20-06-5181
442XSBGX-W5XK	WA20-06-5212
442XSBMX-S3XD	WA20-06-5176
442XSBMX-S3XK	WA20-06-5175

INTERCHANGE

INTERCHANGE: CHELSEA® TO WORLD AMERICAN

CHELSEA® #	WORLD AMERICAN #
442XSBMX-V5XK	WA20-06-5166
442XSBMX-W3XD	WA20-06-5183
442XSBQX-V5XD	WA20-06-5041
442XSBSX-W3XD	WA20-06-5151
442XSBSX-W3XK	WA20-06-5219
442XSDAX-V3XK	WA20-06-5246
442XSESX-A3XD	WA20-06-5042
442XSESX-A3XK	WA20-06-5043
442XSESX-A5XD	WA20-06-5234
442XSESX-A5XK	WA20-06-5239
442XSESX-S5XK	WA20-06-5282
442XSESX-T3XK	WA20-06-5044
442XSESX-V3XD	WA20-06-5045
442XSESX-V3XK	WA20-06-5046
442XSESX-V5XK	WA20-06-5047
442XSESX-W3XD	WA20-06-5048
442XSESX-W3XK	WA20-06-5142
442XSESX-W5XD	WA20-06-5119
442XSESX-W5XK	WA20-06-5049
442XSEVX-W5XD	WA20-06-5172
442XSEWX-W3XK	WA20-06-5235
442XSFCN-W3XK	WA20-06-5193
442XSFNX-A3XK	WA20-06-5152
442XSFNX-A5XK	WA20-06-5050
442XSFNX-V5XK	WA20-06-5051
442XSFNX-W3XK	WA20-06-5110
442XSFNX-W5XK	WA20-06-5308
442XSGSX-W3XD	WA20-06-5301
442XSGSX-W5XD	WA20-06-5251
442XSGSX-W5XK	WA20-06-5316
442XSGSX-W5XK	WA20-06-5103
442XSHYX-W5XD	WA20-06-5052
442XSHYX-W5XK	WA20-06-5088
442XSJKX-A5XK	WA20-06-5302
442XSJWX-A5XK	WA20-06-5293
442XSJWX-S5XD	WA20-06-5156
442XSJWX-V5XD	WA20-06-5294
442XSJWX-V5XK	WA20-06-5248
442XSJWX-W5XK	WA20-06-5231
442XSKXX-V5XD	WA20-06-5053
442XUAHX-A3XD	WA20-06-5123
442XUAHX-A5XK	WA20-06-5196
442XUAHX-V3XD	WA20-06-5122
442XUAHX-V5XD	WA20-06-5148
442XUAHX-V6XK	WA20-06-5054
442XUAHX-W3XD	WA20-06-5055
442XUAHX-W6XK	WA20-06-5056
442XUAPX-V3XK	WA20-06-5164
442XUAPX-V5XK	WA20-06-5163
442XUAPX-W3XK	WA20-06-5180
442XUAPX-W5XK	WA20-06-5057
442XUBCX-A3XK	WA20-06-5265
442XUBCX-W3XD	WA20-06-5267

CHELSEA® #	WORLD AMERICAN #
442XUBMX-A3XD	WA20-06-5134
442XUBMX-A3XK	WA20-06-5132
442XUBMX-V3XD	WA20-06-5133
442XUBMX-V3XK	WA20-06-5131
442XUBMX-W3XD	WA20-06-5188
442XUBMX-W3XK	WA20-06-5205
442XUBQX-W3XK	WA20-06-5324
442XUBZX-W4XD	WA20-06-5303
442XUDMX-W3XD	WA20-06-5217
442XUDMX-W3XK	WA20-06-5201
442XUDUX-V3XD	WA20-06-5255
442XUDUX-V3XK	WA20-06-5245
442XUEDX-W3XK	WA20-06-5215
442XUESX-A3XD	WA20-06-5159
442XUESX-A5XK	WA20-06-5158
442XUESX-V3XK	WA20-06-5092
442XUESX-V5XK	WA20-06-5260
442XUESX-W3XD	WA20-06-5220
442XUESX-W3XK	WA20-06-5058
442XUESX-W5XD	WA20-06-5059
442XUESX-W5XK	WA20-06-5098
442XUEWX-W3XD	WA20-06-5060
442XUEWX-W3XK	WA20-06-5325
442XUFCX-W5XD	WA20-06-5288
442XUFNX-A5XK	WA20-06-5252
442XUFNX-S3XK	WA20-06-5170
442XUJKX-A5XD	WA20-06-5268
442XUJKX-V5XK	WA20-06-5187
442XUJWX-V5XD	WA20-06-5319
442XUKXX-W5XD	WA20-06-5318
442XUKXX-W5XK	WA20-06-5290
442XWAHX-T3XK	WA20-06-5061
442XWAHX-V3XD	WA20-06-5266
442XWAHX-V3XK	WA20-06-5062
442XWAHX-V5XK	WA20-06-5298
442XWAHX-V6XK	WA20-06-5063
442XWAHX-W6XD	WA20-06-5064
442XWAHX-W6XK	WA20-06-5065
442XWAPX-W3XD	WA20-06-5190
442XWAPX-W5XK	WA20-06-5186
442XWBMX-W3XK	WA20-06-5154
442XWBQX-W4XD	WA20-06-5312
442XWBQX-W5XK	WA20-06-5066
442XWDUX-V5XK	WA20-06-5287
442XWESX-A3XD	WA20-06-5067
442XWESX-V3XD	WA20-06-5068
442XWESX-V5XD	WA20-06-5305
442XWESX-V5XK	WA20-06-5264
442XWESX-W3XD	WA20-06-5236
442XWESX-W5XD	WA20-06-5069
442XWEWX-V3XK	WA20-06-5243
442XWEWX-W3XD	WA20-06-5202
442XWEWX-W3XK	WA20-06-5086

CHELSEA® #	WORLD AMERICAN #
442XWEWX-W5XD	WA20-06-5253
442XWFCX-W3XD	WA20-06-5249
442XWFCX-W5XD	WA20-06-5326
442XWFCX-W5XK	WA20-06-5230
442XWFNX-A3XK	WA20-06-5128
442XWFNX-V3XK	WA20-06-5127
442XWGSX-W5XD	WA20-06-5321
442XWJKX-A5XK	WA20-06-5169
442XWJUX-V3XK	WA20-06-5310
442XWKXX-W5XD	WA20-06-5070
442XWAPX-W5XD	WA20-06-5315
442XWAXX-A6XK	WA20-06-5173
442XWAXX-V6XK	WA20-06-5165
442XWBZX-W4XD	WA20-06-5300
442XWESX-W3XK	WA20-06-5207
442XWEWX-V3XD	WA20-06-5257
442XWEWX-V5XK	WA20-06-5277
442XXHYX-W5XD	WA20-06-5174
442ZFAHX-A3XK	WA20-06-5071
442ZFAHX-V3XK	WA20-06-5078
442ZFDAX-A3XK	WA20-06-5116
442ZFDAX-S3XK	WA20-06-5136
442ZFDAX-V3XD	WA20-06-5218
442ZFDAX-V3XK	WA20-06-5115
442ZFDAX-W3XK	WA20-06-5222
442ZLDAX-W5XD	WA20-06-5138
442ZLDAX-A3XD	WA20-06-5113
442ZLDAX-A3XK	WA20-06-5072
442ZLDAX-S3XK	WA20-06-5221
442ZLDAX-T3XK	WA20-06-5095
442ZLDAX-V3XD	WA20-06-5114
442ZLDAX-V3XK	WA20-06-5073
442ZLDAX-V5XK	WA20-06-5006
442ZQAHX-A3XD	WA20-06-5214
442ZQAHX-A3XK	WA20-06-5118
442ZQAHX-V3XK	WA20-06-5117
442ZQAHX-W3XD	WA20-06-5146
442ZQAHX-W6XK	WA20-06-5213
442ZQDAX-A3XD	WA20-06-5208
442ZQDAX-V3XK	WA20-06-5225
442ZQFNX-A5XK	WA20-06-5074
442ZQFNX-V5XK	WA20-06-5075
442ZRAHX-A3XK	WA20-06-5263
442ZRDAX-V3XD	WA20-06-5306
442ZRDAX-V3XK	WA20-06-5111
442ZRFNX-A5XK	WA20-06-5296
442ZSAHX-A3XK	WA20-06-5233
442ZSAHX-V3XD	WA20-06-5206
442ZSAHX-W3XK	WA20-06-5147
442ZSAPX-W5XD	WA20-06-5081
442ZSCBX-W3XK	WA20-06-5198
442ZSDAX-A3XD	WA20-06-5121
442ZSDAX-V3XD	WA20-06-5120

INTERCHANGE

INTERCHANGE: CHELSEA® TO WORLD AMERICAN

CHELSEA® #	WORLD AMERICAN #
442ZSFNX-A3XD	WA20-06-5185
442ZSFNX-A3XK	WA20-06-5100
442ZSFNX-S3XD	WA20-06-5178
442ZSFNX-S3XK	WA20-06-5177
442ZSFNX-V3XK	WA20-06-5099
442ZSFNX-V5XK	WA20-06-5192
442ZSFNX-W3XK	WA20-06-5094
442ZSFNX-W5XK	WA20-06-5143
442ZSJUX-V5XK	WA20-06-5297
442ZUDAX-V3XD	WA20-06-5276
442ZUDHX-W3XK	WA20-06-5286
442ZUFNX-W5XK	WA20-06-5160
442ZUJGX-W4XD	WA20-06-5314
442ZWBZX-W4XK	WA20-06-5254
442ZWFNX-A5XK	WA20-06-5197
442ZWFNX-V3XK	WA20-06-5168
442ZWFNX-V5XD	WA20-06-5087
442ZWFNX-V5XK	WA20-06-5167
442ZWFNX-W3XD	WA20-06-5203
442ZWFNX-W5XD	WA20-06-5084
442ZWJBX-W4XK	WA20-06-5076
442ZWJUX-W5XD	WA20-06-5237
442ZXFNX-W5XD	WA20-06-5144
489GFAHX-A3XD	WA20-08-7043
489GFAHX-A3XK	WA20-08-7016
489GFAHX-A5XD	WA20-08-7117
489GFAHX-A5XK	WA20-08-7044
489GFAHX-S3XD	WA20-08-7232
489GFAHX-S3XK	WA20-08-7045
489GFAHX-S5XD	WA20-08-7252
489GFAHX-S5XK	WA20-08-7218
489GFAHX-T3XD	WA20-08-7234
489GFAHX-T3XK	WA20-08-7206
489GFAHX-T5XD	WA20-08-7254
489GFAHX-T5XK	WA20-08-7219
489GFAHX-V3AF	WA20-08-7154
489GFAHX-V3XD	WA20-08-7025
489GFAHX-V3XK	WA20-08-7030
489GFAHX-V3XY	WA20-08-7172
489GFAHX-V5XD	WA20-08-7132
489GFAHX-V5XK	WA20-08-7088
489GFAHX-W3XK	WA20-08-7104
489GLAHX-A3XD	WA20-08-7011
489GLAHX-A3XK	WA20-08-7046
489GLAHX-A5XD	WA20-08-7203
489GLAHX-A5XK	WA20-08-7047
489GLAHX-S3XD	WA20-08-7236
489GLAHX-S3XK	WA20-08-7125
489GLAHX-S5XD	WA20-08-7256
489GLAHX-S5XK	WA20-08-7221
489GLAHX-T3XD	WA20-08-7238
489GLAHX-T3XK	WA20-08-7207
489GLAHX-T5XD	WA20-08-7258

CHELSEA® #	WORLD AMERICAN #
489GLAHX-T5XK	WA20-08-7223
489GLAHX-V3XD	WA20-08-7159
489GLAHX-V3XK	WA20-08-7036
489GLAHX-V5XD	WA20-08-7200
489GLAHX-V5XK	WA20-08-7048
489GLAHX-W3XD	WA20-08-7103
489GLAHX-W3XK	WA20-08-7196
489GLAHX-W3XK	WA20-08-7192
489GQAHX-A3XD	WA20-08-7021
489GQAHX-A3XK	WA20-08-7037
489GQAHX-A5XD	WA20-08-7146
489GQAHX-A5XK	WA20-08-7169
489GQAHX-N3XK	WA20-08-7049
489GQAHX-S3XD	WA20-08-7240
489GQAHX-S3XK	WA20-08-7152
489GQAHX-S5XD	WA20-08-7260
489GQAHX-S5XK	WA20-08-7225
489GQAHX-T3XD	WA20-08-7242
489GQAHX-T3XK	WA20-08-7209
489GQAHX-T5XD	WA20-08-7262
489GQAHX-T5XK	WA20-08-7227
489GQAHX-V3XD	WA20-08-7009
489GQAHX-V5XD	WA20-08-7201
489GQAHX-V5XK	WA20-08-7093
489GQAHX-W3XD	WA20-08-7197
489GQAHX-W3XK	WA20-08-7193
489GRAHX-A3XD	WA20-08-7050
489GRAHX-A3XK	WA20-08-7051
489GRAHX-A5XK	WA20-08-7204
489GRAHX-S3XD	WA20-08-7244
489GRAHX-S3XK	WA20-08-7211
489GRAHX-S5XK	WA20-08-7229
489GRAHX-T3XD	WA20-08-7246
489GRAHX-T3XK	WA20-08-7213
489GRAHX-T5XK	WA20-08-7231
489GRAHX-V3XD	WA20-08-7127
489GRAHX-V3XK	WA20-08-7038
489GRAHX-V5XK	WA20-08-7199
489GRAHX-W3XD	WA20-08-7198
489GRAHX-W3XK	WA20-08-7194
489GSAHX-A3XD	WA20-08-7107
489GSAHX-A3XK	WA20-08-7087
489GSAHX-A5XD	WA20-08-7121
489GSAHX-S3XD	WA20-08-7248
489GSAHX-S3XK	WA20-08-7215
489GSAHX-T3XD	WA20-08-7250
489GSAHX-T3XK	WA20-08-7217
489GSAHX-V3XD	WA20-08-7102
489GSAHX-V3XK	WA20-08-7039
489GSAHX-V5XD	WA20-08-7162
489GSAHX-W3XK	WA20-08-7195
489GUAHX-A3XD	WA20-08-7108
489GUAHX-V3XD	WA20-08-7143

CHELSEA® #	WORLD AMERICAN #
489GUAHX-V3XK	WA20-08-7128
489GWAHX-A3XD	WA20-08-7106
489GXAHX-A3XD	WA20-08-7137
489XAAHX-V3XD	WA20-08-7138
489XFAHX-A3AF	WA20-08-7109
489XFAHX-A3XD	WA20-08-7029
489XFAHX-A3XK	WA20-08-7008
489XFAHX-A5XK	WA20-08-7052
489XFAHX-A5XK	WA20-08-7202
489XFAHX-A6XK	WA20-08-7118
489XFAHX-S3XD	WA20-08-7086
489XFAHX-S3XK	WA20-08-7053
489XFAHX-S5XD	WA20-08-7251
489XFAHX-S5XK	WA20-08-7054
489XFAHX-T3XD	WA20-08-7233
489XFAHX-T3XK	WA20-08-7055
489XFAHX-T5XD	WA20-08-7253
489XFAHX-T5XK	WA20-08-7056
489XFAHX-V3AF	WA20-08-7057
489XFAHX-V3XD	WA20-08-7004
489XFAHX-V3XK	WA20-08-7000
489XFAHX-V3XY	WA20-08-7031
489XFAHX-V5XD	WA20-08-7007
489XFAHX-V5XK	WA20-08-7003
489XFAHX-V6XK	WA20-08-7175
489XFAHX-W3XK	WA20-08-7205
489XHAHX-V3XK	WA20-08-7142
489XLABX-A3XK	WA20-08-7112
489XLAHX-A3AF	WA20-08-7119
489XLAHX-A3AZ	WA20-08-7123
489XLAHX-A3XD	WA20-08-7042
489XLAHX-A3XK	WA20-08-7015
489XLAHX-A4XK	WA20-08-7139
489XLAHX-A5XD	WA20-08-7163
489XLAHX-A5XK	WA20-08-7089
489XLAHX-S3XD	WA20-08-7235
489XLAHX-S3XK	WA20-08-7014
489XLAHX-S5XD	WA20-08-7255
489XLAHX-S5XK	WA20-08-7220
489XLAHX-T3XD	WA20-08-7237
489XLAHX-T3XK	WA20-08-7032
489XLAHX-T5XD	WA20-08-7257
489XLAHX-T5XK	WA20-08-7222
489XLAHX-V3AF	WA20-08-7114
489XLAHX-V3XD	WA20-08-7002
489XLAHX-V3XK	WA20-08-7001
489XLAHX-V3XY	WA20-08-7167
489XLAHX-V5AF	WA20-08-7151
489XLAHX-V5XD	WA20-08-7134
489XLAHX-V5XK	WA20-08-7012
489XLAHX-V6XD	WA20-08-7164
489XLAHX-V6XK	WA20-08-7101
489XLAHX-W3XD	WA20-08-7022

INTERCHANGE

INTERCHANGE: CHELSEA® TO WORLD AMERICAN

CHELSEA® #	WORLD AMERICAN #
489XLAHX-W3XK	WA20-08-7058
489XLDAX-A3XD	WA20-08-7126
489XLDAX-A5XK	WA20-08-7059
489XLDAX-V5XK	WA20-08-7060
489XLDAX-V5XY	WA20-08-7130
489XQAHX-A3AF	WA20-08-7124
489XQAHX-A3XD	WA20-08-7018
489XQAHX-A3XK	WA20-08-7017
489XQAHX-A5XD	WA20-08-7033
489XQAHX-A5XK	WA20-08-7040
489XQAHX-S3XD	WA20-08-7239
489XQAHX-S3XK	WA20-08-7061
489XQAHX-S5XD	WA20-08-7259
489XQAHX-S5XK	WA20-08-7224
489XQAHX-T3XD	WA20-08-7241
489XQAHX-T3XK	WA20-08-7208
489XQAHX-T5XD	WA20-08-7261
489XQAHX-T5XK	WA20-08-7226
489XQAHX-V3AF	WA20-08-7148
489XQAHX-V3XD	WA20-08-7006
489XQAHX-V3XK	WA20-08-7005
489XQAHX-V5XD	WA20-08-7026
489XQAHX-V5XK	WA20-08-7027
489XQAHX-V6XD	WA20-08-7173
489XQAHX-V6XK	WA20-08-7113
489XQAHX-W3XD	WA20-08-7010
489XQAHX-W3XK	WA20-08-7028
489XQAHX-W6XD	WA20-08-7150
489XQARX-A3XK	WA20-08-7062
489XQARX-V3XK	WA20-08-7063
489XQEVX-A5XK	WA20-08-7064
489XRAHX-A3XD	WA20-08-7034
489XRAHX-A3XK	WA20-08-7065
489XRAHX-A5XK	WA20-08-7066
489XRAHX-S3XD	WA20-08-7243
489XRAHX-S3XK	WA20-08-7210
489XRAHX-S5XK	WA20-08-7228
489XRAHX-T3XD	WA20-08-7245
489XRAHX-T3XK	WA20-08-7212
489XRAHX-T5XK	WA20-08-7230
489XRAHX-V3XD	WA20-08-7067
489XRAHX-V3XK	WA20-08-7068
489XRAHX-V5XD	WA20-08-7140
489XRAHX-V5XK	WA20-08-7090
489XRAHX-V6XK	WA20-08-7116
489XRAHX-W3XD	WA20-08-7023
489XRAHX-W3XK	WA20-08-7041
489XRAHX-W6XD	WA20-08-7141
489XRBGX-W3XD	WA20-08-7099
489XRBGX-W3XK	WA20-08-7098
489XREVX-T5XK	WA20-08-7100
489XREVX-V5XK	WA20-08-7069
489XSAHX-A3XD	WA20-08-7035

CHELSEA® #	WORLD AMERICAN #
489XSAHX-A3XK	WA20-08-7019
489XSAHX-A5XD	WA20-08-7122
489XSAHX-A5XK	WA20-08-7168
489XSAHX-S3XD	WA20-08-7247
489XSAHX-S3XK	WA20-08-7214
489XSAHX-T3XD	WA20-08-7249
489XSAHX-T3XK	WA20-08-7216
489XSAHX-V3AF	WA20-08-7149
489XSAHX-V3XD	WA20-08-7020
489XSAHX-V3XK	WA20-08-7070
489XSAHX-V6XK	WA20-08-7161
489XSAHX-W3XK	WA20-08-7071
489XSAHX-W6XD	WA20-08-7160
489XSEVX-T5XK	WA20-08-7072
489XSEVX-V5XK	WA20-08-7073
489XUAHX-A3XD	WA20-08-7105
489XUAHX-V3XD	WA20-08-7133
489XUAHX-V3XK	WA20-08-7158
489XUARX-W3XD	WA20-08-7115
489XUBGX-V3XK	WA20-08-7135
489XUBGX-W3XD	WA20-08-7097
489XUDAX-A3XK	WA20-08-7096
489XUDAX-V3XK	WA20-08-7095
489XWAHX-A3XD	WA20-08-7153
489XWAHX-V5XK	WA20-08-7155
489XWDUX-A3XD	WA20-08-7171
489XWAHX-A3XD	WA20-08-7111
489XVDUX-V3XD	WA20-08-7166
489ZFAHX-T5XK	WA20-08-7181
489ZFAHX-V3XK	WA20-08-7074
489ZFDAX-A5XD	WA20-08-7075
489ZFDAX-A5XK	WA20-08-7076
489ZFDAX-A6XK	WA20-08-7136
489ZFDAX-S5XD	WA20-08-7186
489ZFDAX-S5XK	WA20-08-7180
489ZFDAX-T5XD	WA20-08-7187
489ZFDAX-V5XD	WA20-08-7077
489ZFDAX-V5XK	WA20-08-7078
489ZLDAX-A5XD	WA20-08-7092
489ZLDAX-A5XK	WA20-08-7079
489ZLDAX-S5XD	WA20-08-7188
489ZLDAX-S5XK	WA20-08-7129
489ZLDAX-T5XD	WA20-08-7189
489ZLDAX-T5XK	WA20-08-7080
489ZLDAX-V3XK	WA20-08-7174
489ZLDAX-V5XD	WA20-08-7091
489ZLDAX-V5XK	WA20-08-7081
489ZLDAX-V5XY	WA20-08-7156
489ZLDAX-W5XK	WA20-08-7170
489ZQAHX-S5XK	WA20-08-7182
489ZQDAX-A5XK	WA20-08-7110
489ZQDAX-S5XD	WA20-08-7190
489ZQDAX-T5XD	WA20-08-7191

CHELSEA® #	WORLD AMERICAN #
489ZQDAX-T5XK	WA20-08-7183
489ZQDAX-V5XD	WA20-08-7131
489ZQDAX-V5XK	WA20-08-7120
489ZRDAX-A5XD	WA20-08-7177
489ZRDAX-A5XK	WA20-08-7157
489ZRDAX-S5XD	WA20-08-7178
489ZRDAX-S5XK	WA20-08-7184
489ZRDAX-T5XD	WA20-08-7179
489ZRDAX-T5XK	WA20-08-7185
489ZRDAX-V5XD	WA20-08-7082
489ZRDAX-V5XK	WA20-08-7085
489ZSAHX-V3XK	WA20-08-7094
489ZSDAX-A5XD	WA20-08-7083
489ZSDAX-V3XD	WA20-08-7165
489ZSDAX-V5XD	WA20-08-7084
489ZUDAX-V5XD	WA20-08-7176
4-P-147	WA20-04-3008
500007-29	WA20-03-1045
500597-16	WA20-03-1049
5-A-188	WA20-03-1189
5-P-1001	WA20-03-1089
5-P-1004	WA20-03-1008
5-P-1006	WA20-03-1073
5-P-1008	WA20-03-1072
5-P-1010	WA20-03-1124
5-P-1012	WA20-03-1160
5-P-1015	WA20-03-1081
5-P-1019	WA20-03-1190
5-P-1020	WA20-03-1154
5-P-1023	WA20-03-1082
5-P-1025	WA20-03-1155
5-P-1028	WA20-03-1192
5-P-1029	WA20-03-1162
5-P-1037	WA20-03-1033
5-P-1041	WA20-03-1196
5-P-1042	WA20-03-1098
5-P-1045	WA20-03-1157
5-P-1046	WA20-03-1194
5-P-1050	WA20-03-1139
5-P-1055	WA20-03-1158
5-P-1056	WA20-03-1125
5-P-1059	WA20-03-1032
5-P-1060	WA20-03-1075
5-P-1061	WA20-03-1119
5-P-1064	WA20-03-1153
5-P-1070	WA20-03-1084
5-P-1077	WA20-03-1016
5-P-1077 & 2-P-726	WA20-03-1013
5-P-1085	WA20-03-1083
5-P-1085 & 2-P-726	WA20-03-1010
5-P-1150	WA20-03-1164
5-P-1152	WA20-03-1141
5-P-1187	WA20-03-1167

INTERCHANGE

INTERCHANGE: CHELSEA® TO WORLD AMERICAN

CHELSEA® #	WORLD AMERICAN #
5-P-1193	WA20-03-1186
5-P-1214	WA20-03-1109
5-P-1236	WA20-03-1166
5-P-1237	WA20-03-1065
5-P-1243	WA20-03-1097
5-P-1244	WA20-03-1120
5-P-1256	WA20-03-1165
5-P-1261	WA20-03-1123
5-P-1280	WA20-03-1187
5-P-1316	WA20-03-1140
5-P-1319	WA20-03-1170
5-P-1320	WA20-03-1171
5-P-1358	WA20-03-1111
5-P-1364	WA20-03-1151
5-P-1383	WA20-03-1163
5-P-1411	WA20-03-1121
5-P-581	WA20-03-1173
5-P-634	WA20-03-1172
5-P-866	WA20-03-1198
5-P-912	WA20-04-3048
5-P-913	WA20-04-3051
5-P-914	WA20-04-3054
5-P-915	WA20-04-3057
5-P-964	WA20-03-1088
5-P-964 & 2-P-727	WA20-03-1009

CHELSEA® #	WORLD AMERICAN #
5-P-965	WA20-03-1015
5-P-965 & 2-P-559	WA20-03-1012
5-P-966	WA20-03-1113
5-P-966 & 2-P-637	WA20-03-1003
5-P-967	WA20-03-1114
5-P-968	WA20-03-1115
5-P-968 & 2-P-561	WA20-03-1092
626XADA-3XX	WA20-26-0005
626XAH-3XX	WA20-26-0004
628XLQX-5GX	WA20-26-0002
628ZDAX-4XX	WA20-26-0006
630GAHX-3XX	WA20-26-0003
645XAHX-3XX	WA20-26-0001
7170-78X	WA20-03-1060
7170-86X	WA20-04-3064
7-A-032	WA6032
7-A-062	WA6062
7-A-093	WA6093
7-A-125	WA6125
7-A-140	WA6140
7-A-165	WA6165
7-A-187	WA6187
7-A-200	WA6200
7-A-240	WA6240
7-A-270	WA6270

CHELSEA® #	WORLD AMERICAN #
7-A-300	WA6300
7-A-350	WA6350
7-A-400	WA6400
7-A-450	WA6450
7-A-500	WA6500
7-A-550	WA6550
7-A-562	WA6562
7-A-800	WA6800
8-A-032	WA8032
8-A-062	WA8062
8-A-093	WA8093
8-A-1005	WA81005
8-A-165	WA8165
8-A-190	WA8190
8-A-248	WA8248
8-A-295	WA8295
8-A-375	WA8375
8-A-500	WA8500
8-A-700	WA8700
9-P-88 & 379672	WA20-03-1025
9-P-91	WA20-04-3021

INTERCHANGE: CHARLYNN® TO WORLD AMERICAN

CHARLYNN® #	WORLD AMERICAN #
4305310	WA8032
103-1540	WA20-LS-2021
101-1060	WA20-LS-2014
101-1001	WA20-LS-2000
101-1002	WA20-LS-2001
101-1003	WA20-LS-2002
101-1005	WA20-LS-2003
101-1006	WA20-LS-2004
101-1008	WA20-LS-2005
101-1013	WA20-LS-2006
101-1016	WA20-LS-2031
101-1026	WA20-LS-2007
101-1027	WA20-LS-2008
101-1028	WA20-LS-2009
101-1030	WA20-LS-2010
101-1032	WA20-LS-2011
101-1033	WA20-LS-2012
101-1034	WA101-1034
101-1035	WA101-1035
101-1036	WA101-1036
101-1037	WA20-LS-2013
101-1313	WA20-LS-2042

CHARLYNN® #	WORLD AMERICAN #
101-1314	WA20-LS-2015
103-1002	WA20-LS-2016
103-1008	WA20-LS-2017
103-1014	WA20-LS-2018
103-1037	WA20-LS-2019
103-1040	WA20-LS-2020
104-1001	WA20-LS-2033
104-1002	WA20-LS-2040
104-1003	WA20-LS-2022
104-1019	WA20-LS-2046
104-1024	WA20-LS-2044
104-1031	WA20-LS-2047
104-1034	WA20-LS-2043
104-1038	WA20-LS-2023
104-1039	WA20-LS-2041
104-1062	WA20-LS-2024
104-1228	WA20-LS-2025
109-1056	WA20-LS-2026
109-1100	WA20-LS-2034
109-1101	WA20-LS-2027
109-1104	WA20-LS-2028

CHARLYNN® #	WORLD AMERICAN #
112-1069	WA20-LS-2029
119-1031	WA20-LS-2030
5100-16B	WAWC16
5100-20B	WAWC20
5100-24B	WAWC24
5100-S2-16B	WAWC162
5100-S2-20B	WAWC202
5100-S2-24B	WAWC242
5100-S4-16B	WAWC162
5100-S4-20B	WAWC201
5100-S4-24B	WAWC242
5100-S5-16B	WAWC161
5100-S5-20B	WAWC201
5100-S5-24B	WAWC241
5101-16B	WAWC16
5101-20B	WAWC20
5101-24B	WAWC24
FD45-1000-16-16	WAQCB-16
FD45-1002-16-16	WAISOB-16M
FD45-1003-16-16	WAISOB-16F

INTERCHANGE

INTERCHANGE: COMMERCIAL®/PARKER® TO WORLD AMERICAN

COMMERCIAL®/ PARKER® #	WORLD AMERICAN #
3169414001	WADVVALVE
3239110300	WA350-27AOX
X73-37-13	WA20-25-0000
308-9110-269 / PGP020A346QUIR05-25	WAK20B4ANX
312-9320-502	WAK31R11CS11CS
391-2282-006	WA20-12-0009
AA-1058-TC	WA20-20-0122
AB-1133	WA3161133001
AC-1135	WA20-25-0028
AC-1669	WA20-51-0203
AC-1685-3	WA20-31-0008
AC1685-3 DP	312-5017-201
AD-1133	WA3121133003
AD-1135	WA20-51-0239
AE-1135	WA20-51-0240
AE-1669	WA20-20-0103
AF-1133	WA3121133002
AF-1669	WA3913381039
AG-1133	WA20-51-0251
AG-1135	WA20-51-0238
AH-1135	WA20-20-0137
AI-1135	WA20-20-0143
AJ-1133	WA20-51-0252
AJ-1135	WA20-20-0138
AK-1135-XL	WA20-20-0136
AL-1135	WA3161135147
AL-1135M-3-15	WA3162915750
AL-1135M-3-17	WA3162917750
AL-1135M-3-20	WA3162920750
AL-1135M-3-22	WA3162922750
AL-1135M-3-25	WA3162925750
AL-1135M-3-27	WA3162927750
AL-1135M-3-30	WA3162930750
AS-1135	WA3161135148
ASK-17	AS102
ASK49	AS102G
AV-1135	WA20-20-0141
BA-1007M-05	WA3022805000
BA-1007M-07	WA3022807000
BA-1007M-10	WA3022810000
BA-1007M-12	WA3022812000
BA-1007M-15	WA3022815000
BA-1007M-17	WA3022817000
BA-1007M-20	WA3022820000
BA-1058-DV	WA3912185075
BA-1058-TC	WA3912185020
BB-1686-3	WA20-25-0014
BD-1135M-3-07	WA3122907230
BD-1135M-3-10	WA3122910230
BD-1135M-3-12	WA3122912230
BD-1135M-3-15	WA3122915230
BD-1135M-3-17	WA3122917230
BD-1135M-3-20	WA3122920230

COMMERCIAL®/ PARKER® #	WORLD AMERICAN #
BD-1135M-3-25	WA3122925230
BD-1135M-4-07	WA3122907430
BD-1135M-4-10	WA3122910430
BD-1135M-4-12	WA3122912430
BD-1135M-4-15	WA3122915430
BD-1135M-4-17	WA3122917430
BD-1135M-4-20	WA3122920430
C101D-2.5	WAP101-25
C101D-2.5-ASK	WAP101-25AS
C102D-2.5-1	WAP102-25L
C102D-2.5-1-AS	WAP102-25LAS
C102D-2.5-1-AS	WAP102-25RAS
C102D-2.5-AS	WAP102-25R
CB-1685	WA20-25-0013
CH-400-3VSW	WA20-CH-VW03
CH-400-4VSW	WAH4VSW
CH-400-5VSW	WAH5VSW
CH-400-6VSW	WAH6VSW
CH-400-7VSW	WAH7VSW
CH-400-8VSW	WAH8VSW
CH-400-9VSW	WAH8.25VSW
CM-1804-017	WA20-CM-53SK
CM-1804-018	WA20-CM-63SK
CM-1804-019	WA20-CM-73SK
CM-1804-021	WA20-CM-64SK
CM-1804-022	WA20-CM-74SK
CM-1804-023	WA20-CM-84SK
CM-1804-024	WA20-CM-85SK
CM-1804-025	WA20-CM-95SK
CM-375-1804-002	WA20-CM-RK73
CM-375-1804-003	WA20-CM-RK74
CM-375-1804-004	WA20-CM-RK95
CM-375-1804-020	WA20-CM-RK53
CM-375-1804-054	WA20-CM-RK84
CM-375-1804-060	WA20-CM-RK85
CM-375-1804-109	WA20-CM-RK63
CM-375-1804-237	WA20-CM-RK64
DA-1603	WA3023100100
DA-1688-05	WA3028005100
DA-1688-07	WA3028007100
DA-1688-10	WA3028010100
DA-1688-12	WA3028012100
DA-1688-15	WA3028015100
DA-1688-17	WA3028017100
DA-1688-20	WA3028020100
DB-020D	WA20-20-0118
DB-1685-3	WA20-31-0005
DC-1685-244	WA3125027212
DD-1135M-3-07	WA3122907730
DD-1135M-3-10	WA3122910730
DD-1135M-3-12	WA3122912730
DD-1135M-3-15	WA3122915730
DD-1135M-3-17	WA3122917730
DD-1135M-3-20	WA3122920730

COMMERCIAL®/ PARKER® #	WORLD AMERICAN #
EB-1685-3	WA20-31-0006
EB-3	WA3245033201
ED-020D	WA20-20-0117
ED-1135	WA20-20-0139
ED-1135M-3-05	WA3122905740
ED-1135M-3-07	WA3122907740
ED-1135M-3-10	WA3122910740
ED-1135M-3-12	WA3122912740
ED-1135M-3-15	WA3122915740
ED-1135M-3-17	WA3122917740
ED-1135M-3-20	WA3122920740
FB-1685-3	WA20-31-0009
G101-1-2.0	WA101G
G101-1-2.0R-4S	WA102G-20R
G102-1-2.0L-4S	WA102G
G102-1-2.0-L-4S-AS	WA102GAS
G102-1-2.0-R-4S-AD	N/A
G102-1-2.0-R-4S-AS	WA102G-RAS
GB-1685-3	WA20-31-0004
GB-3	WA3245023201
GD-020D	WA20-20-0120
GD-020DS	WA3085029405
GEB-1685-3	WA20-31-0002
HA-1686-3	WA3055031403
HB-1685-3	WA20-51-0218
HB-3	WA3235033201
H-SCREW 5/8- 11UNCX4.25-8	WA20-51-0272
H-SCREW 5/8- 11UNCX4.50-8	WA20-51-0273
H-SCREW 5/8- 11UNCX4.75-8	WA20-51-0274
H-SCREW 5/8- 11UNCX5.00-8	WA20-51-0275
H-SCREW 5/8- 11UNCX5.25-5	WA20-51-0276
H-SCREW 5/8- 11UNCX5.50-8	WA20-51-0277
JA-1007M-05	WA3052805000
JA-1007M-07	WA3052807000
JA-1007M-10	WA3052810000
JA-1007M-12	WA3052812000
JA-1007M-15	WA3052815000
JA-1007M-17	WA3052817000
JA-1007M-20	WA3052820000
JA-1007M-22	WA3052822000
JA-1007M-25	WA3052825000
JA-1007M-30	WA3052830000
JA-1687	WA3057300100
KA-1007M-05	WA20-25-0015
KA-1007M-07	WA20-25-0016
KA-1007M-10	WA20-25-0017
KA-1007M-12	WA20-25-0018
KA-1007M-15	WA20-25-0019

INTERCHANGE

INTERCHANGE: COMMERCIAL®/PARKER® TO WORLD AMERICAN

COMMERCIAL®/ PARKER® #	WORLD AMERICAN #
KA-1007M-17	WA20-25-0020
KA-1007M-20	WA20-25-0021
KA-1007M-22	WA20-25-0022
KA-1007M-25	WA20-25-0023
KA-1685-3	WA3025035201
KB-1685-3	WA20-51-0219
KB-1687	WA20-25-0001
KB-3	WA3235033202
L-3006-47	WA3912881457
LA-1685-3	WA3025025201
LA-1688-05	WA20-37-0001
LA-1688-07	WA20-37-0002
LA-1688-10	WA20-37-0003
LA-1688-12	WA20-37-0004
LA-1688-15	WA20-37-0005
LA-1688-17	WA3058017100
LA-1688-20	WA3058020100
LA-1688-22	WA3058022100
LA-1688-25	WA3058025100
LA-1688-30	WA3058030100
LB-1669-1	WA20-20-0119
LB-1685-3	WA3135027406
LB-1686-3	WA20-25-0008
M1391K	WA20-20-0122
MA-05	WA3238105100
MA-07	WA3238107100
MA-10	WA3238110100
MA-1006M-05	WA3132805000
MA-1006M-07	WA3132807000
MA-1006M-10	WA3132810000
MA-1006M-12	WA3132812000
MA-1006M-15	WA3132815000
MA-1006M-17	WA3132817000
MA-1006M-20	WA3132820000
MA-1006M-22	WA3132822000
MA-1006M-25	WA3132825000
MA-1006M-30	WA3132830000
MA-12	WA3238112100
MA-15	WA3238115100
MA-1686-3	WA3055021401
MA-1688-05	WA3138205100
MA-1688-07	WA3138207100
MA-1688-10	WA3138210100
MA-1688-12	WA3138212100
MA-1688-15	WA3138215100
MA-1688-17	WA3138217100
MA-1688-20	WA3138220100
MA-1688-22	WA3138222100
MA-1688-25	WA3138225100
MA-1688-30	WA3138230100
MA-17	WA3238117100
MA-20	WA3238120100
MA-22	WA3238122100
MA-25	WA3238125100

COMMERCIAL®/ PARKER® #	WORLD AMERICAN #
MA-25 1.25-1.25ODT P50/51	WA20-51-0229
MB-1685-3	WA20-51-0217
MB-1686-3	WA20-25-0012
NA-1603	WA3053100100
NA-1687	WA3027300100
NB-1669-1	WA20-51-0224
NB-1685-3	WA20-51-0221
NB-3	WA3235023202
NE-1135M-3-07	WA3162907250
NE-1135M-3-10	WA3162910250
NE-1135M-3-12	WA3162912250
NE-1135M-3-15	WA3162915250
NE-1135M-3-17	WA3162917250
NE-1135M-3-20	WA3162920250
NE-1135M-3-22	WA3162922250
NE-1135M-3-25	WA3162925250
NE-1135M-3-27	WA3162927250
NE-1135M-3-30	WA3162930250
P21B446BIAO20- 25FBAD12-1	WAK20R17AOD11AOS
P76A678B3ON22011DV	WADVLPUMP
PA-1006M-07	WA3162807000
PA-1006M-10	WA3162810000
PA-1006M-12	WA3162812000
PA-1006M-15	WA3162815000
PA-1006M-17	WA3162817000
PA-1006M-20	WA3162820000
PA-1006M-22	WA3162822000
PA-1006M-25	WA3162825000
PA-1006M-27	WA3162827000
PA-1006M-30	WA3162830000
PB-1135	WA20-25-0029
PB-1685-3	WA20-31-0007
PB-3	WA3245033202
PD-1135M-3-10	WA3132910250
PD-1135M-3-12	WA3132912250
PD-1135M-3-15	WA3132915250
PD-1135M-3-17	WA3132917250
PD-1135M-3-20	WA3132920250
PD-1135M-3-22	WA3132922250
PD-1135M-3-25	WA3132925250
PD-1135M-4-12	WA3132912450
PD-1135M-4-15	WA3132915450
PD-1135M-4-17	WA3132917450
PD-1135M-4-20	WA3132920450
PD-1135M-4-22	WA3132922450
PD-1135M-4-25	WA3132925450
PGP020A346QUYL15-25	WAK20B13ANX
PGP020A346QUYL20-25	WAK20B17ANX
PGP020B346JEAF12-25	WAK20B11AOX
PGP020B346JEAF15-25	WAK20B13AOX
PGP020B346JEAL10-25	WAK20B8AOX
PGP020B346JEAL17-25	WAK20B15AOX

COMMERCIAL®/ PARKER® #	WORLD AMERICAN #
PGP020B346JEAL20-25	WAK20B17AOX
PGP020B346QUYL12-25	WAK20B11ANX
PGP020B346QUYL17-25	WAK20B15ANX
PGP020C346QUYL10-25	WAK20B8ANX
PGP020B346JEAL10-25	WAL51B-19ANX
PGP051B346***YL*20-65	WAL51B-23ANX
PGP051A46BEYL22-65	WAL51B-25ANX
R-1032	WA3910381060
RA-05	WA3248105100
RA-07	WA3248107100
RA-10	WA3248110100
RA-1072	WA3912584051
RA-11-2	WA3237300100
RA-12	WA3248112100
RA-15	WA3248115100
RA-1603	WA20-25-0002
RA-1688-05	WA20-31-0013
RA-1688-07	WA20-31-0014
RA-1688-10	WA3128210100
RA-1688-12	WA3128212100
RA-1688-15	WA3128215100
RA-1688-17	WA3128217100
RA-1688-20	WA3128220100
RA-1688-25	WA3128225100
RA-17	WA3248117100
RA-20	WA3248120100
RB-1135	WA20-25-0030
RB-1685-3	WA20-51-0220
RB-3	WA3235023201
RD-020-05D	WA3088205100
RD-020-07D	WA3088207100
RD-020-10D	WA3088210100
RD-020-12D	WA3088212100
RD-020-15D	WA3088215100
RD-020-17D	WA3088217100
RD-020-20D	WA3088220100
RHB-3	WA3235053201
RPL-100-A-2500	WARF100
RPL-12-A-2500	WARF12
RPL-16-A-2500	WARF16A
RPL-75-A-2500	WARF75
S-1032	WA20-51-0121
S63DC-101-107	WA20-CH-63108
S63DC-101-120	WA20-CH-63120
S63DC-101-126	WA20-CH-63126
S63DC-96-130 CM2	WA20-CH-63136
S74DC-74-135	WA20-CH-74135
S74DC-74-156	WA20-CH-74156
S74DC-74-167	WA20-CH-74169
S85DC-66-190	WA20-CH-85190
S85DC-66-190	WA20-CH-84188
S85DC-66-197	WA20-CH-85211
S85DC-66-220	WA20-CH-85220

INTERCHANGE

INTERCHANGE: COMMERCIAL®/PARKER® TO WORLD AMERICAN

COMMERCIAL®/ PARKER® #	WORLD AMERICAN #
S85DC-66-220	WA20-CH-85228
S85DC-66-250	WA20-CH-85250
SA-1686-3	WA20-25-0011
SA-1688-07	WA3168207100
SA-1688-10	WA3168210100
SA-1688-12	WA3168212100
SA-1688-15	WA3168215100
SA-1688-17	WA3168217100
SA-1688-20	WA3168220100
SA-1688-22	WA3168222100
SA-1688-25	WA3168225100
SA-1688-27	WA3168227100
SA-1688-30	WA3168230100
SB-1685-3	WA3165037401
SB-1686-3	WA20-25-0005
SD-1135M-3-10	WA3132910750
SD-1135M-3-12	WA3132912750
SD-1135M-3-15	WA3132915750
SD-1135M-3-17	WA3132917750
SD-1135M-3-20	WA3132920750
SD-1135M-3-22	WA3132922750
SD-1135M-3-25	WA3122925750
T1391	WA20-20-0123
TA-1133	WA20-25-0024
TA-1685-3	WA3025025202
TA-1686-3	WA20-25-0007
TA-1687	WA20-51-0228
TA-1687-11	WA3137723100
TA-1688-20	WA3148020100
TA-1688-25	WA3148025100
TB-1669	WA20-20-0145
TB-1685-3	WA3165037402
TB-1686-3	WA20-25-0026
TD-1135M-3-07	WA3132907740
TD-1135M-3-10	WA3132910740
TD-1135M-3-12	WA3132912740
TD-1135M-3-15	WA3132915740
TD-1135M-3-17	WA3132917740
TD-1135M-3-20	WA3132920740
TD-1135M-3-22	WA3132922740
TD-1135M-3-25	WA3132925740

COMMERCIAL®/ PARKER® #	WORLD AMERICAN #
U-1058-TC	WA3912185007
UA-1686-3	WA20-25-0004
UB-1685-3	WA3165037403
UB-3006-239	WA20-20-0128
UB-3006-242	WA3912884050
UB-3006-244	WA20-51-0230
UB-3006-246	WA3912884074
UB-3006-252	WA3912884024
UC-1135-1	WA20-25-0025
V-1007M-05	WA3122805000
V-1007M-07	WA3122805000
V-1007M-10	WA3122810000
V-1007M-12	WA3122812000
V-1007M-15	WA3122815000
V-1007M-17	WA3122817000
V-1007M-20	WA3122820000
V-1007M-25	WA3122825000
VA-1687	WA3127740100
VA-1687N	WA3127300100
VB-1135	WA20-25-0027
VB-1669	WA3913383018
VB-1669-1	WA20-51-0201
VB-1685-3	WA3165027402
VB-1686-3	WA20-25-0010
VD-020D	WA20-20-0130
VD-1135M-3-10	WA3132910230
VD-1135M-3-12	WA3132912230
VD-1135M-3-15	WA3132915230
VD-1135M-3-17	WA3132917230
VD-1135M-3-20	WA3132920230
VD-1135M-3-22	WA3132922230
VD-1135M-3-25	WA3132925230
VD-1135M-4-20	WA3132920430
VD-1135M-4-25	WA3132925430
WA-1687-11	WA3127723100
WB-1669-1	WA3912585011
WB-1685-3	WA20-31-0003
WD-020D	WA20-20-0119
X10-13	WA20-20-0162
X10-38	WA20-51-0250
X10-98	WA3912082033

COMMERCIAL®/ PARKER® #	WORLD AMERICAN #
X10-99	WA20-51-0122
X134-206	WA20-20-0100
X134-283	WA20-51-0200
X69-40	WA20-20-0102
X69-58	WA20-51-0202
X69-59	WA3910381078
X73-37-10	WA3912883052
X73-37-16	WA20-20-0106
X73-37-17	WA20-51-0204
X73-37-18	WA20-20-0104
X73-50-1	WA3912883094
X73-50-11	WA20-20-0105
X73-50-3	WA20-12-0002
X73-50-8	WA20-51-0205
X73-50-9	WA20-20-0107
X96-315	WA3912686025
X97-100	WA20-20-0144
XA-03	WA3243010100
XA-03-T	WA3243000100
XA-1603	WA3123120100
XA-1603-RP	WA3123420100
XA-1686-3	WA20-25-0009
XD-020D	WA20-20-0133
Y-1032	WA20-20-0120
Y-1058-TC	WA20-51-0227
YA-1133	WA20-51-0232
YA-1603	WA3163120100
YA-1686-3	WA20-25-0006
YA-1687	WA3167740100
YA-1687-11	WA3167723100
ZA-03-D	WA3233012100
ZA-03-M	WA3233020100
ZA-03-T	WA3233000100
ZA-1133	WA20-20-0132
ZA-1603	WA20-51-0233
ZA-1603-RP	WA20-51-0234

INTERCHANGE

INTERCHANGE: COMMERCIAL® TO WORLD AMERICAN

COMMERCIAL® #	WORLD AMERICAN #
3139610800	WAL51B-27BNX
3139610801	WAL51B-27BOX
3169414001	WADVVALVE
3239110300	WA350-27AOX
3771413308	WA20-CH-63136
3771413320	WA20-CH-63108
3771413321	WA20-CH-63120
3771413322	WA20-CH-63126
3772514123	WA20-CH-74156
3772514123	WA20-CH-74157
3772514125	WA20-CH-74135
3772915160	WA20-CH-85250
3772915162	WA20-CH-85211
3772915166	WA20-CH-85190
3772915166	WA20-CH-84188
3772915167	WA20-CH-85220
3772915167	WA20-CH-85228
308-9110-264	WAK20B13ANX
308-9110-265	WAK20B15ANX
308-9110-266	WAK20B17ANX
308-9110-269	WAK20B4ANX
308-9110-271	WAK20B8ANX
308-9110-272	WAK20B11ANX
308-9110-274	WAK20B8AOX
308-9110-275	WAK20B13AOX
308-9110-276	WAK20B15AOX
308-9110-277	WAK20B17AOX
308-9110-278	WAK20B11AOX
308-9310-047	WA101G
308-9310-413	WA102G-RAS
308-9310-416	WA102G-20R
308-9310-418	WA102G
308-9310-905	WA102GAS
308-9414-049	AS102G
312-9320-502	WAK31R11CS11CS
313-9610-658	WAL51B-27ANX
313-9610-659	WAL51B-25ANX
313-9610-663	WAL51B-23ANX
313-9610-664	WAL51B-19ANX
313-9610-767	WAL51B-25AOX
313-9610-768	WAL51B-23AOX
313-9610-769	WAL51B-19AOX
313-9610-817	WAL51B-23KNX
313-9610-821	WAL51B-27KNX
313-9710-339	WAL51B-25KNX
314-9310-226	WAP101-25
314-9310-902	WAP101-25AS
314-9325-018	WAP102-25RAS

COMMERCIAL® #	WORLD AMERICAN #
314-9325-227	WAP102-25LAS
314-9325-229	WAP102-25L
314-9325-234	WAP102-25R
314-9414-017	AS102
316-9610-246	WADVLPUMP
326-9110-101	WA315L-11ANX
347-1873-001	WA20-RF-2500
347-1873-002	WA20-RF-PLUG
347-1873-128	WA20-RF-3500
347-9171-004	WA20-WS-0100
347-9171-005	WA20-WS-0101
347-9171-006	WA20-WS-0102
347-9171-018	WA20-WS-0110
347-9172-001	WA20-WS-0001
347-9172-002	WA20-WS-0002
347-9172-003	WA20-WS-0003
347-9172-004	WA20-WS-0004
347-9172-005	WA20-WS-0005
347-9172-006	WA20-WS-0006
347-9172-007	WA20-WS-0103
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347-9172-018	WA20-WS-0007
347-9172-026	WA20-WS-0008
347-9172-027	WA20-WS-0009
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347-9172-034	WA20-WS-0011
347-9172-039	WA20-WS-0012
347-9172-040	WA20-WS-0013
347-9172-043	WA20-WS-0014
347-9172-044	WA20-WS-0015
347-9172-062	WA20-WS-0016
347-9172-063	WA20-WS-0017
347-9172-077	WA20-WS-0111
347-9172-078	WA20-WS-0112
347-9175-001	WA20-IN-1000
347-9175-002	WA20-IN-1001
347-9175-003	WA20-IN-0000
347-9176-001	WA20-OT-0010
347-9176-002	WA20-OT-0011
347-9176-003	WA20-OT-0012
347-9176-006	WA20-OT-0000
347-9176-009	WA20-OT-0001
391-1873-006	WA20-PR-5000

COMMERCIAL® #	WORLD AMERICAN #
391-1873-010	WA20-PR-5001
391-1873-011	WA20-PR-PLUG
391-1873-012	WA20-PG-0050
391-1873-013	WA20-PG-0075
391-1873-014	WA20-PG-0100
391-1873-015	WA20-PG-0125
391-1873-016	WA20-PG-0012
391-1873-017	WA20-PG-0016
391-1873-018	WA20-PG-0020
391-1873-019	WA20-SA-3019
391-1873-020	WA20-SA-3020
391-1873-035	WA20-WS-AK01
391-1873-036	WA20-WS-RK01
391-1873-040	WA20-WS-SK01
391-1873-041	WA20-WS-RK02
391-1873-045	WA20-SK-0001
391-1873-046	WA20-SK-0002
391-1873-047	WA20-SK-0003
391-1873-048	WA20-SK-0004
391-1873-049	WA20-SK-0005
391-1873-050	WA20-SK-0006
391-1873-051	WA20-SK-0007
391-1873-052	WA20-SK-0008
391-1873-062	WA20-HK-008H
391-1873-063	WA20-HK-001H
391-1873-067	WA20-SP-4030
391-1873-071	WA20-SP-4031
391-1873-075	WA20-SP-3030
391-1873-079	WA20-SP-3031
391-1873-094	WA20-HK-0080
391-1873-095	WA20-HK-0010
391-1873-203	WA20-SA-3206
391-1873-206A	WA20-SA-3207
391-1873-228	WA20-PG-0150
391-1873-229	WA20-PG-0008
391-1873-230	WA20-PG-0010
391-1873-344	WA20-PR-1000
391-1873-345	WA20-PR-2500
391-1873-346	WA20-PR-3500
391-2282-006	WA20-12-0009
391-9109-027	WA20-PR-2000
X73-37-13	WA20-25-0000

INTERCHANGE

INTERCHANGE: MUNCIE® TO WORLD AMERICAN

MUNCIE® #	WORLD AMERICAN #
10T21017	WA20-04-3006
11T37790	11T37790
13M35091	WA6010
13M35092	WA6020
13M35151	WA8010
13M35152	WA8020
13T35777	WA20-04-3065
20MK8807	WA328170-192X
23M60032S	WA6032
23M60062S	WA6062
23M60093S	WA6093
23M60125S	WA6125
23M60140S	WA6140
23M60165S	WA6165
23M60187S	WA6187
23M60200S	WA6200
23M60240S	WA6240
23M60270	WA6270
23M60300	WA6300
23M60350	WA6350
23M60400	WA6400
23M60450	WA6450
23M60500	WA6500
23M60550	WA6550
23M60800	WA6800
23M80032	WA8032
23M80062	WA8062
23M80093	WA8093
23M80165	WA8165
23M80190	WA8190
23M80248	WA8248
23M80295	WA8295
23M80375	WA8375
23M80500	WA8500
23M80700	WA8700
23M81005	WA81005
2570-10	WA4306-10
2570-12	WA4306-12
2570-15	WA4306-15
2570-20	WA4306-20
2570-25	WA4306-25
30T38111	WASW-003
31MT15759	WA9054107
32M12001	WAI-750
34T38163	WASWK-699
35M18653	WA101X
35T36353	WA201X
45M44430	WA20-03-1191
97023A/97023A1	WADVLPUMP
A035R2AAGXY	WAA35S
A050AU2AAGXY	WAA50U
A050R2AAGXY	WAA50S
A070U2AAGXY	WAA70U

MUNCIE® #	WORLD AMERICAN #
ACM-300	AS102
ACM-400	AS102G
AMK624-C	WASMSK
B1235A	WAPBK-1001
CS24A1005H3BX	WA20-10-9005
CS24A1005H3KX	WA20-10-9001
CS24A1006H3BX	WA20-10-9006
CS24A1006H3KX	WA20-10-9002
CS24A1007H3BX	WA20-10-9007
CS24A1007H3KX	WA20-10-9003
CS24A1010H3BX	WA20-10-9008
CS24A1010H3KX	WA20-10-9004
E2XA-27-17BPRL	WAB102-25LAS
E3XA27-1RPRB	WAP101-25AS
E3XA27-2BPRL	WAP102-25LAS
E3XA27-2BPRR	WAP102-25RAS
E3XL27-1RPRB	WAP101-25
E3XL27-2BPRL	WAP102-25L
E3XL27-2BPRR	WAP102-25R
HHPP-16Z	WA20-12-0009
HKU1-12-8	WAK12-8-2L
HKU1-16-8	WAK16-8-2L
HKU2-12-12	WAK12-12-3L
HKU2-9-4	WAK9-8-3L
P050U2AAGXY	WAP50U
PK1-04-02-BPBB	WAK20B4ANX
PK1-04-02-BSBB	WAK20B4AOX
PK1-04-09-BPBB	WAK20B4KNX
PK1-06-02-BPBB	WAK20B6ANX
PK1-06-02-BSBB	WAK20B6AOX
PK1-06-09-BPBB	WAK20B6KNX
PK1-08-02-BPBB	WAK20B8ANX
PK1-08-02-BSBB	WAK20B8AOX
PK1-08-09-BPBB	WAK20B8KNX
PK1-11-02-BPBB	WAK20B11ANX
PK1-11-02-BSBB	WAK20B11AOX
PK1-11-09-BPBB	WAK20B11KNX
PK1-13-02-BPBB	WAK20B13ANX
PK1-13-02-BSBB	WAK20B13AOX
PK1-13-09-BPBB	WAK20B13KNX
PK1-15-02-BPBB	WAK20B15ANX
PK1-15-02-BSBB	WAK20B15AOX
PK1-15-09-BPBB	WAK20B15KNX
PK1-17-02-BPBB	WAK20B17ANX
PK1-17-02-BSBB	WAK20B17AOX
PK1-17-09-BPBB	WAK20B17KNX
PL1-1028-14	WA20-51-0276
PL1-1028-16	WA20-51-0277
PL1-1028-294	WA20-51-0273
PL1-1028-295	WA20-51-0275
PL1-1028-341	WA20-51-0274
PL1-1125-27-PCR	WA20-51-0229
PL1-19-02-BPBB	WAL51B-19ANX

MUNCIE® #	WORLD AMERICAN #
PL1-19-02-BSBB	WAL51B-19AOX
PL1-19-09-BPBB	WAL51B-19KNX
PL1-23-02-BPBB	WAL51B-23ANX
PL1-23-02-BSBB	WAL51B-23AOX
PL1-23-07-BPBB	WAL51B-23KNX
PL1-23-17-BSBB	WAL51B-23BOX
PL1-23-17-BSRB	WAL51B-23BOSR
PL1-25-02-BPBB	WAL51B-25ANX
PL1-25-02-BSBB	WAL51B-25AOX
PL1-25-07-BPBB	WAL51B-25KNX
PL1-27-02-BPBB	WAL51B-27ANX
PL1-27-02-BSBB	WAL51B-27AOX
PL1-27-07-BPBB	WAL51B-27KNX
PL1-27-17BPBB	WAL51B-27BNX
PL1-27-17BSBB	WAL51B-27BOX
PS1-1214-V	WA20-12-0031
S025B4AAGXN	WAS25SB
S035R2AAGXY	WAS35S
S050R2AAGXY	WAS50S
S050U2AAGXY	WAS50U
S070U2AAGXY	WAS70U
S3AD15-1RPRB	WA101GAS
S3AD15-2BPRL	WA102GAS
S3AD15-2BPRR	WA102G-RAS
S3LD15-1RPRB	WA101G
S3LD15-2BPRL	WA102G
S3LD15-2BPRR	WA102G-20R
TG6AS7113A3KX	WA20-06-5204
TG6BA6905A1KX	WA20-06-5226
TG6BF8409A3KX	WA20-06-5080
TG6BF8412P3KX	WA20-06-5018
TG6BU6806A1BX	WA20-06-5139
TG6BU6806A1KX	WA20-06-5327
TG6BU6806A3BX	WA20-06-5283
TG6BU6806C1BX	WA20-06-5013
TG6BU6806P1BX	WA20-06-5005
TG6BU6806P1KX	WA20-06-5012
TG6BU6807A1BX	WA20-06-5284
TG6BU6807A1KX	WA20-06-5014
TG6BU6807P1BX	WA20-06-5015
TG6BU6807P1KX	WA20-06-5016
TG6BU6809A1BX	WA20-06-5184
TG6BU6809A1KX	WA20-06-5334
TG6BU6809C1KX	WA20-06-5229
TG6BU6809P1BX	WA20-06-5145
TG6BU6812A1BX	WA20-06-5373
TG6BU6812P1BX	WA20-06-5358
TG6BU6813A1BX	WA20-06-5209
TG6BU6813A1KX	WA20-06-5343
TG6BU6813P1BX	WA20-06-5359
TG6BU6813P1IX	WA20-06-5261
TG6BU6813P1KX	WA20-06-5342
TG6BU6815A1BX	WA20-06-5374

INTERCHANGE

INTERCHANGE: MUNCIE® TO WORLD AMERICAN

MUNCIE® #	WORLD AMERICAN #
TG6BU6815P1BX	WA20-06-5360
TG6BU69812A1KX	WA20-06-5337
TG6DM6512P1BX	WA20-06-5306
TG6DN8113C1BX	WA20-06-5198
TG6DS6113C3BX	WA20-06-5081
TG6DS6806A1KX	WA20-06-5071
TG6DS6812A1KX	WA20-06-5263
TG6DS7112A3KX	WA20-06-5296
TG6DS7112P1DX	WA20-06-5189
TG6DS7113A1BX	WA20-06-5185
TG6DS7113C1KX	WA20-06-5094
TG6DS7113C3KX	WA20-06-5143
TG6DS7113P1KX	WA20-06-5331
TG6DS7113P3KX	WA20-06-5192
TG6DS7115A3KX	WA20-06-5252
TG6DS7118A3KX	WA20-06-5197
TG6DS7118C1BX	WA20-06-5203
TG6DS7118P1KX	WA20-06-5168
TG6DS7118P3KX	WA20-06-5167
TG6DU6806P1KX	WA20-06-5078
TG6DU6809A1BX	WA20-06-5214
TG6DU6809A1KX	WA20-06-5118
TG6DU6809C4KX	WA20-06-5213
TG6DU6809P1KX	WA20-06-5117
TG6DU6809W1BX	WA20-06-5146
TG6DU6813A1KX	WA20-06-5233
TG6DU6813C1KX	WA20-06-5147
TG6DU6813P1BX	WA20-06-5206
TG6DW8018C2KX	WA20-06-5254
TG6DZ9318C2KX	WA20-06-5076
TG6LG7313C3KX	WA20-06-5019
TG6LS6115C3BX	WA20-06-5020
TG6LS7013P3BX	WA20-06-5271
TG6NS7109A3KX	WA20-06-5074
TG6NS7109P3KX	WA20-06-5075
TG6NS7113A1KX	WA20-06-5100
TG6NS7113C1KX	WA20-06-5110
TG6NS7113C3BX	WA20-06-5052
TG6NS7113P1KX	WA20-06-5099
TG6NS7113P3KX	WA20-06-5051
TG6NS7115C3KX	WA20-06-5160
TG6NS7118A1KX	WA20-06-5128
TG6NS7118C3BX	WA20-06-5084
TG6NS7118P1KX	WA20-06-5127
TG6NS7118P3BX	WA20-06-5087
TG6SC5715C1BX	WA20-06-5217
TG6SC5715C1KX	WA20-06-5201
TG6SC6013C4BX	WA20-06-5182
TG6SC6018P4KX	WA20-06-5165
TG6SC6115A1KX	WA20-06-5265
TG6SC6115C1BX	WA20-06-5267
TG6SC7013C1BX	WA20-06-5183
TG6SC7013P3KX	WA20-06-5166

MUNCIE® #	WORLD AMERICAN #
TG6SC7014A1BX	WA20-06-5134
TG6SC7015A1KX	WA20-06-5132
TG6SC7015C1BX	WA20-06-5188
TG6SC7015C1KX	WA20-06-5205
TG6SC7015P1BX	WA20-06-5133
TG6SC7015P1KX	WA20-06-5131
TG6SC7018C1KX	WA20-06-5154
TG6SC7613C1BX	WA20-06-5151
TG6SC7613C1KX	WA20-06-5219
TG6SF1112P1BX	WA20-06-5279
TG6SF1113C3BX	WA20-06-5172
TG6SF6109C1KX	WA20-06-5238
TG6SF6112C3BX	WA20-06-5247
TG6SF6113C1KX	WA20-06-5235
TG6SF6113P1KX	WA20-06-5330
TG6SF6115C1BX	WA20-06-5060
TG6SF6115C1KX	WA20-06-5325
TG6SF6117C3BX	WA20-06-5253
TG6SF6118C1BX	WA20-06-5202
TG6SF6118C1KX	WA20-06-5086
TG6SF6118P1BX	WA20-06-5257
TG6SF6118P1KX	WA20-06-5243
TG6SF6118P3KX	WA20-06-5277
TG6SF6307A3KX	WA20-06-5227
TG6SF6307C1KX	WA20-06-5211
TG6SF6307P3KX	WA20-06-5285
TG6SF6309A1BX	WA20-06-5096
TG6SF6309A1KX	WA20-06-5007
TG6SF6309A3BX	WA20-06-5224
TG6SF6309A3KX	WA20-06-5244
TG6SF6309A3KX	WA20-06-5323
TG6SF6309C1BX	WA20-06-5194
TG6SF6309P1KX	WA20-06-5090
TG6SF6312A1KX	WA20-06-5038
TG6SF6312C1BX	WA20-06-5210
TG6SF6312C3BX	WA20-06-5274
TG6SF6312C3KX	WA20-06-5281
TG6SF6312P1KX	WA20-06-5039
TG6SF6313A1BX	WA20-06-5042
TG6SF6313A1KX	WA20-06-5043
TG6SF6313A3BX	WA20-06-5234
TG6SF6313A3KX	WA20-06-5239
TG6SF6313C1BX	WA20-06-5048
TG6SF6313C1KX	WA20-06-5142
TG6SF6313C3BX	WA20-06-5119
TG6SF6313C3KX	WA20-06-5049
TG6SF6313P1BX	WA20-06-5045
TG6SF6313P1KX	WA20-06-5046
TG6SF6313P3KX	WA20-06-5047
TG6SF6315A1BX	WA20-06-5159
TG6SF6315A3KX	WA20-06-5158
TG6SF6315C1BX	WA20-06-5220
TG6SF6315C1KX	WA20-06-5058

MUNCIE® #	WORLD AMERICAN #
TG6SF6315C3BX	WA20-06-5059
TG6SF6315C3KX	WA20-06-5098
TG6SF6315P1KX	WA20-06-5092
TG6SF6315P3KX	WA20-06-5260
TG6SF6318A1BX	WA20-06-5067
TG6SF6318C1BX	WA20-06-5236
TG6SF6318C1KX	WA20-06-5207
TG6SF6318C3BX	WA20-06-5069
TG6SF6318P1BX	WA20-06-5068
TG6SF6318P3BX	WA20-06-5305
TG6SF6318P3KX	WA20-06-5264
TG6SF66113C3KX	WA20-06-5231
TG6SF6613A3KX	WA20-06-5293
TG6SF6613P3BX	WA20-06-5294
TG6SF6613P3KX	WA20-06-5248
TG6SF6615P3BX	WA20-06-5319
TG6SF7007A3BX	WA20-06-5250
TG6SF7007A3KX	WA20-06-5240
TG6SF7007P1KX	WA20-06-5216
TG6SF7009A3KX	WA20-06-5262
TG6SF7012A1BX	WA20-06-5289
TG6SF7012A3KX	WA20-06-5102
TG6SF7012P3KX	WA20-06-5101
TG6SF7013A3KX	WA20-06-5302
TG6SF7015A3BX	WA20-06-5268
TG6SF7015P3KX	WA20-06-5187
TG6SF7018A3KX	WA20-06-5169
TG6SF7112C3KX	WA20-06-5079
TG6SF7507P1KX	WA20-06-5093
TG6SF7515P1BX	WA20-06-5255
TG6SF7515P1KX	WA20-06-5245
TG6SF7518P3KX	WA20-06-5287
TG6SF8412P3KX	WA20-06-5040
TG6SG7312C2BX	WA20-06-5037
TG6SG7313P3BX	WA20-06-5041
TG6SG7315C1KX	WA20-06-5324
TG6SG7318C2BX	WA20-06-5312
TG6SG7318C3KX	WA20-06-5066
TG6SG7915C3BX	WA20-06-5288
TG6SG7918C1BX	WA20-06-5249
TG6SG7918C3BX	WA20-06-5326
TG6SM6506A1KX	WA20-06-5116
TG6SM6506C1BX	WA20-06-5256
TG6SM6506C1KX	WA20-06-5222
TG6SM6506C3BX	WA20-06-5292
TG6SM6506P1BX	WA20-06-5218
TG6SM6506P1KX	WA20-06-5115
TG6SM6507A1BX	WA20-06-5113
TG6SM6507A1KX	WA20-06-5072
TG6SM6507P1BX	WA20-06-5114
TG6SM6507P1KX	WA20-06-5073
TG6SM6507P3BX	WA20-06-5280
TG6SM6507P3KX	WA20-06-5006

INTERCHANGE

INTERCHANGE: MUNCIE® TO WORLD AMERICAN

MUNCIE® #	WORLD AMERICAN #
TG6SM6509A1BX	WA20-06-5208
TG6SM6509P1DX	WA20-06-5225
TG6SM6512P1KX	WA20-06-5111
TG6SM6513A1BX	WA20-06-5121
TG6SM6513P1BX	WA20-06-5120
TG6SM6513P1KX	WA20-06-5246
TG6SM6515P1BX	WA20-06-5276
TG6SN7912C1KX	WA20-06-5195
TG6SN7913C1KX	WA20-06-5193
TG6SN7918C3BX	WA20-06-5230
TG6SN8009C3BX	WA20-06-5150
TG6SS6009A1BX	WA20-06-5089
TG6SS6009P1BX	WA20-06-5091
TG6SS6009P3BX	WA20-06-5097
TG6SS6012A3BX	WA20-06-5035
TG6SS6012P3BX	WA20-06-5036
TG6SS6018A4KX	WA20-06-5173
TG6SS6107C3BX	WA20-06-5138
TG6SS6113C1KX	WA20-06-5129
TG6SS6113C3BX	WA20-06-5083
TG6SS6113C3KX	WA20-06-5137
TG6SS6113P1KX	WA20-06-5309
TG6SS6115C1KX	WA20-06-5180
TG6SS6115C3KX	WA20-06-5057
TG6SS6115P1KX	WA20-06-5164
TG6SS6115P3KX	WA20-06-5163
TG6SS6118C1BX	WA20-06-5190
TG6SS6118C3BX	WA20-06-5315
TG6SS6118C3DX	WA20-06-5186
TG6SS7012C3BX	WA20-06-5295
TG6SS7012P1KX	WA20-06-5162
TG6SS7012P3KX	WA20-06-5161
TG6SS7013C3BX	WA20-06-5181
TG6SS7013C3KX	WA20-06-5212
TG6SS7107P3BX	WA20-06-5155
TG6SS7109C1KX	WA20-06-5311
TG6SS7113A1KX	WA20-06-5152
TG6SS7113A3KX	WA20-06-5050
TG6SS7113C3KX	WA20-06-5308
TG6SS7313P3KX	WA20-06-5297
TG6SS7318C3BX	WA20-06-5237
TG6SS7318P1KX	WA20-06-5310
TG6SU5708P2KX	WA20-06-5313
TG6SU5709A1BX	WA20-06-5026
TG6SU5709P1BX	WA20-06-5027
TG6SU5709P1KX	WA20-06-5270
TG6SU5709P3KX	WA20-06-5242
TG6SU6806A1BX	WA20-06-5124
TG6SU6806A1KX	WA20-06-5082
TG6SU6806C1BX	WA20-06-5023
TG6SU6806C1KX	WA20-06-5149
TG6SU6806C4KX	WA20-06-5002
TG6SU6806P1BX	WA20-06-5021

MUNCIE® #	WORLD AMERICAN #
TG6SU6806P1KX	WA20-06-5022
TG6SU6806P3BX	WA20-06-5320
TG6SU6806P3KX	WA20-06-5304
TG6SU6807A1BX	WA20-06-5130
TG6SU6807A1KX	WA20-06-5010
TG6SU6807C1BX	WA20-06-5191
TG6SU6807C3KX	WA20-06-5275
TG6SU6807P1BX	WA20-06-5077
TG6SU6807P1KX	WA20-06-5009
TG6SU6807P3KX	WA20-06-5200
TG6SU6809A1BX	WA20-06-5028
TG6SU6809A1KX	WA20-06-5029
TG6SU6809A3KX	WA20-06-5126
TG6SU6809A4BX	WA20-06-5269
TG6SU6809C1BX	WA20-06-5104
TG6SU6809C1KX	WA20-06-5008
TG6SU6809C4BX	WA20-06-5228
TG6SU6809P1BX	WA20-06-5105
TG6SU6809P1KX	WA20-06-5000
TG6SU6809P1KX	WA20-06-5333
TG6SU6809P2KX	WA20-06-5241
TG6SU6809P3KX	WA20-06-5125
TG6SU6812A1BX	WA20-06-5030
TG6SU6812A1KX	WA20-06-5031
TG6SU6812C1BX	WA20-06-5034
TG6SU6812C1KX	WA20-06-5004
TG6SU6812P1BX	WA20-06-5032
TG6SU6812P1KX	WA20-06-5033
TG6SU6813A1BX	WA20-06-5109
TG6SU6813A1KX	WA20-06-5107
TG6SU6813A2KX	WA20-06-5171
TG6SU6813C1KX	WA20-06-5317
TG6SU6813P1BX	WA20-06-5108
TG6SU6813P1KX	WA20-06-5232
TG6SU6814A1BX	WA20-06-5123
TG6SU6815A3KX	WA20-06-5196
TG6SU6815C1BX	WA20-06-5055
TG6SU6815C4KX	WA20-06-5056
TG6SU6815P1BX	WA20-06-5122
TG6SU6815P3BX	WA20-06-5148
TG6SU6815P4KX	WA20-06-5054
TG6SU6818C4BX	WA20-06-5064
TG6SU6818C4KX	WA20-06-5065
TG6SU6818P1KX	WA20-06-5062
TG6SU6818P3KX	WA20-06-5298
TG6SU6818P4KX	WA20-06-5063
TG6SU6818PIBX	WA20-06-5266
TG6SW8015C2BX	WA20-06-5303
TG6SW8018C2BX	WA20-06-5300
TG6SZ9008C3BX	WA20-06-5025
TG6SZ9013P3BX	WA20-06-5053
TG6SZ9015C3BX	WA20-06-5318
TG6SZ9015C3KX	WA20-06-5290

MUNCIE® #	WORLD AMERICAN #
TG6SZ9018C3BX	WA20-06-5070
TG6SZ9207C3BX	WA20-06-5024
TG6SZ9212C3BX	WA20-06-5157
TG6SZ9213C3KX	WA20-06-5088
TG6SZ9218C3BX	WA20-06-5174
TG6SZ9807C1BX	WA20-06-5299
TG6SZ9813C1BX	WA20-06-5301
TG6SZ9813C3BX	WA20-06-5251
TG6SZ9813C3KX	WA20-06-5103
TG6SZ9815C1KX	WA20-06-5215
TG6SZ9818C3BX	WA20-06-5321
TG6SZ9909C3BX	WA20-06-5259
TG6Z9813C3BX	WA20-06-5316
TG8BU6805A3KX	WA20-08-7044
TG8BU6806A1BX	WA20-08-7043
TG8BU6806A1KX	WA20-08-7016
TG8BU6806A3BX	WA20-08-7117
TG8BU6806C1KX	WA20-08-7104
TG8BU6806P1BX	WA20-08-7025
TG8BU6806P1KX	WA20-08-7030
TG8BU6806P1LX	WA20-08-7172
TG8BU6806P1PX	WA20-08-7154
TG8BU6806P3BX	WA20-08-7132
TG8BU6806P3KX	WA20-08-7088
TG8BU6807A1BX	WA20-08-7011
TG8BU6807A1KX	WA20-08-7046
TG8BU6807A3BX	WA20-08-7203
TG8BU6807A3KX	WA20-08-7047
TG8BU6807C1BX	WA20-08-7196
TG8BU6807C1KX	WA20-08-7192
TG8BU6807P1BX	WA20-08-7159
TG8BU6807P1KX	WA20-08-7036
TG8BU6807P3BX	WA20-08-7200
TG8BU6807P3KX	WA20-08-7048
TG8BU6807W1BX	WA20-08-7103
TG8BU6809A1BX	WA20-08-7021
TG8BU6809A3BX	WA20-08-7146
TG8BU6809A3KX	WA20-08-7037
TG8BU6809C1BX	WA20-08-7197
TG8BU6809C1KX	WA20-08-7193
TG8BU6809P1BX	WA20-08-7009
TG8BU6809P1KX	WA20-08-7049
TG8BU6809P3BX	WA20-08-7201
TG8BU6809P3KX	WA20-08-7093
TG8BU6812A1BX	WA20-08-7050
TG8BU6812A1KX	WA20-08-7051
TG8BU6812A3KX	WA20-08-7204
TG8BU6812C1BX	WA20-08-7198
TG8BU6812C1KX	WA20-08-7194
TG8BU6812P1BX	WA20-08-7127
TG8BU6812P1KX	WA20-08-7038
TG8BU6812P3KX	WA20-08-7199
TG8BU6813A1BX	WA20-08-7107

INTERCHANGE

INTERCHANGE: MUNCIE® TO WORLD AMERICAN

MUNCIE® #	WORLD AMERICAN #
TG8BU6813A3BX	WA20-08-7121
TG8BU6813C1KX	WA20-08-7195
TG8BU6813P1BX	WA20-08-7102
TG8BU6813P1KX	WA20-08-7039
TG8BU6813P3BX	WA20-08-7162
TG8BU6815A1BX	WA20-08-7108
TG8BU6815P1BX	WA20-08-7143
TG8BU6815P1KX	WA20-08-7128
TG8BU6818A1BX	WA20-08-7106
TG8BU6818A1BX	WA20-08-7137
TG8DM6506P3KX	WA20-08-7078
TG8DM6507A3KX	WA20-08-7079
TG8DM6507C3KX	WA20-08-7170
TG8DM6507P1KX	WA20-08-7174
TG8DM6507P3KX	WA20-08-7081
TG8DM6512A3BX	WA20-08-7177
TG8DM6513P1BX	WA20-08-7165
TG8DS6806P1KX	WA20-08-7074
TG8DU6813P1KX	WA20-08-7094
TG8GU6813A1KX	WA20-08-7087
TG8SD6507P3IX	WA20-08-7156
TG8SF1109A3KX	WA20-08-7064
TG8SF1112P3KX	WA20-08-7069
TG8SF1113P3KX	WA20-08-7073
TG8SF7518A1BX	WA20-08-7171
TG8SF7518P1BX	WA20-08-7166
TG8SM6506A3BX	WA20-08-7075
TG8SM6506A3KX	WA20-08-7076
TG8SM6506A4KX	WA20-08-7136
TG8SM6506P3BX	WA20-08-7077
TG8SM6507A1BX	WA20-08-7126
TG8SM6507A3BX	WA20-08-7092
TG8SM6507A3KX	WA20-08-7059
TG8SM6507P3BX	WA20-08-7091
TG8SM6507P3IX	WA20-08-7130
TG8SM6507P3KX	WA20-08-7060
TG8SM6509A3KX	WA20-08-7110
TG8SM6509P3BX	WA20-08-7131
TG8SM6509P3KX	WA20-08-7120
TG8SM6512A3KX	WA20-08-7157
TG8SM6512P3BX	WA20-08-7082
TG8SM6512P3KX	WA20-08-7085
TG8SM6513A3BX	WA20-08-7083
TG8SM6513P3BX	WA20-08-7084
TG8SM6515A1KX	WA20-08-7096
TG8SM6515P1KX	WA20-08-7095

MUNCIE® #	WORLD AMERICAN #
TG8SM6515P3BX	WA20-08-7176
TG8SS6009A1KX	WA20-08-7062
TG8SS6009P1KX	WA20-08-7063
TG8SS6015C1BX	WA20-08-7115
TG8SS7012C1BX	WA20-08-7099
TG8SS7012C1KX	WA20-08-7098
TG8SS7015C1BX	WA20-08-7097
TG8SS7015P1KX	WA20-08-7135
TG8SU5707A1KX	WA20-08-7112
TG8SU6804A1BX	WA20-06-5273
TG8SU6804P1BX	WA20-08-7138
TG8SU6806A1BX	WA20-08-7029
TG8SU6806A1KX	WA20-08-7008
TG8SU6806A1PX	WA20-08-7109
TG8SU6806A3KX	WA20-08-7052
TG8SU6806A3KX	WA20-08-7202
TG8SU6806A4KX	WA20-08-7118
TG8SU6806B1KX	WA20-08-7205
TG8SU6806P1BX	WA20-08-7004
TG8SU6806P1IX	WA20-08-7031
TG8SU6806P1KX	WA20-08-7000
TG8SU6806P1PX	WA20-08-7057
TG8SU6806P3BX	WA20-08-7007
TG8SU6806P3KX	WA20-08-7003
TG8SU6806P4KX	WA20-08-7175
TG8SU6807A1BX	WA20-08-7042
TG8SU6807A1KX	WA20-08-7015
TG8SU6807A1PX	WA20-08-7119
TG8SU6807A1ZX	WA20-08-7123
TG8SU6807A2KX	WA20-08-7139
TG8SU6807A3BX	WA20-08-7163
TG8SU6807A3KX	WA20-08-7089
TG8SU6807C1BX	WA20-08-7022
TG8SU6807C1KX	WA20-08-7058
TG8SU6807P1BX	WA20-08-7002
TG8SU6807P1KX	WA20-08-7001
TG8SU6807P1KX	WA20-08-7142
TG8SU6807P1PX	WA20-08-7114
TG8SU6807P3BX	WA20-08-7134
TG8SU6807P3KX	WA20-08-7012
TG8SU6807P3PX	WA20-08-7151
TG8SU6807P4BX	WA20-08-7164
TG8SU6807P4KX	WA20-08-7101
TG8SU6808P1LX	WA20-08-7167
TG8SU6809A1BX	WA20-08-7018
TG8SU6809A1KX	WA20-08-7017

MUNCIE® #	WORLD AMERICAN #
TG8SU6809A1PX	WA20-08-7124
TG8SU6809A3BX	WA20-08-7033
TG8SU6809A3KX	WA20-08-7040
TG8SU6809A3KX	WA20-08-7169
TG8SU6809C1KX	WA20-08-7028
TG8SU6809C3BX	WA20-08-7010
TG8SU6809C4BX	WA20-08-7150
TG8SU6809P1BX	WA20-08-7006
TG8SU6809P1KX	WA20-08-7005
TG8SU6809P1PX	WA20-08-7148
TG8SU6809P3BX	WA20-08-7026
TG8SU6809P3KX	WA20-08-7027
TG8SU6809P4BX	WA20-08-7173
TG8SU6809P4KX	WA20-08-7113
TG8SU6812A1BX	WA20-08-7034
TG8SU6812A1KX	WA20-08-7065
TG8SU6812A3KX	WA20-08-7066
TG8SU6812C1BX	WA20-08-7023
TG8SU6812C1KX	WA20-08-7041
TG8SU6812C4BX	WA20-08-7141
TG8SU6812P1KX	WA20-08-7068
TG8SU6812P3BX	WA20-08-7140
TG8SU6812P3KX	WA20-08-7090
TG8SU6812P4KX	WA20-08-7116
TG8SU6812PIBX	WA20-08-7067
TG8SU6813A1BX	WA20-08-7035
TG8SU6813A1KX	WA20-08-7019
TG8SU6813A3BX	WA20-08-7122
TG8SU6813A3KX	WA20-08-7168
TG8SU6813C1KX	WA20-08-7071
TG8SU6813C4BX	WA20-08-7160
TG8SU6813P1BX	WA20-08-7020
TG8SU6813P1KX	WA20-08-7070
TG8SU6813P1PX	WA20-08-7149
TG8SU6813P4KX	WA20-08-7161
TG8SU6815A1BX	WA20-08-7105
TG8SU6815P1BX	WA20-08-7133
TG8SU6815P1KX	WA20-08-7158
TG8SU6818A1BX	WA20-08-7111
TG8SU6818A1BX	WA20-08-7153
TG8SU6818P3KX	WA20-08-7155
TGGDS7118C3BX	WA20-06-5144

INTERCHANGE

INTERCHANGE: PERMCO® TO WORLD AMERICAN

PERMCO® #	WORLD AMERICAN #
997-00971A	AS102
AS-400	AS102G
DM-640-25-XR-M-AS-250	WAP101-25AS
DM-640-25-XR-M-T-250	WAP101-25
DM-640-25-ZR-M-AS-250	WAP101-25AS
DM-640-25-ZR-M-T-250	WAP101-25
DMD-25-X-L-AS-25	WAP102-25LAS
DMD-25-X-R-AS-25	WAP102-25RAS
DMD-25-X-R-MS-25	WAP102-25R
DMD-25-Z-L-AS-25	WAP102-25LAS
DMD-25-Z-L-MS-25	WAP102-25L
DMD-25-Z-L-MS-25	WAP102-25L
DMD-25-Z-R-AS-25	WAP102-25RAS
DMD-25-Z-R-MS-25	WAP102-25R
DMD-400-20-XL-200	WA102G
DMD-400-20-XL-200-AS	WA102GAS
DMD-400-20-XR-200	WA102G-20R
DMD-400-20-XR-200-AS	WA102G-RAS
DMD-400-20-ZL-200	WA102G
DMD-400-20-ZL-200-AS	WA102GAS
DMD-400-20-ZR-200	WA102G-20R
DMD-400-20-ZR-200-AS	WA102G-RAS
DMR-400-20-XL-200	WA101G
DMR-400-20-XL-200-AS	WA101GAS
DMR-400-20-ZL-200	WA101G
DMR-400-20-ZL-200-AS	WA101GAS
JZ-0996L-05	WA20-25-0015
JZ-0996L-07	WA20-25-0016
JZ-0996L-10	WA20-25-0017

PERMCO® #	WORLD AMERICAN #
JZ-0996L-12	WA20-25-0018
JZ-0996L-15	WA20-25-0019
JZ-0996L-17	WA20-25-0020
JZ-0996L-20	WA20-25-0021
JZ-0996L-22	WA20-25-0022
JZ-0996L-25	WA20-25-0023
LZ-0577-25-67D	WA20-51-0229
M2100A890IDZE10-14	WAK20B8AOX
M2100A890IDZE12-14	WAK20B11AOX
M2100A890IDZK15-14	WAK20B13AOX
M2100A890IDZK17-14	WAK20B15AOX
M2100A890IDZK20-14	WAK20B17AOX
M2100A890MDXE10-14	WAK20B8ANX
M2100A890MDXE12-14	WAK20B11ANX
M2100A890MDXK15-14	WAK20B13ANX
M2100A890MDXK17-14	WAK20B15ANX
M2100A890MDXK20-14	WAK20B17ANX
M5151A224AAXK20-54	WAL51B-23ANX
M5151A224AAXQ17-54	WAL51B-19ANX
M5151A224AAXQ22-54	WAL51B-25ANX
M5151A224AAXQ25-54	WAL51B-27ANX
NA-1687	WA3027300100
P2100A290IDZE10-14	WAK20B8AOX
P2100A290IDZE12-14	WAK20B11AOX
P2100A290IDZK15-14	WAK20B13AOX
P2100A290IDZK17-14	WAK20B15AOX
P2100A290IDZK20-14	WAK20B17AOX
P2100A290MDXE10-14	WAK20B8ANX
P2100A290MDXE12-14	WAK20B11ANX

PERMCO® #	WORLD AMERICAN #
P2100A290MDXE15-14	WAK20B13ANX
P2100A290MDXK15-14	WAK20B13ANX
P2100A290MDXK17-14	WAK20B15ANX
P2100A290MDXK20-14	WAK20B17ANX
P2100A290MDZA07-14	WAK20B6ANX
P2100A290MDZA10-14	WAK20B8ANX
P2100A290MDZA20-14	WAK20B17ANX
P2100A590IDZA05-14	WAK20B4AOX
P2100A590MDZA05-14	WAK20B4ANX
P2100C531AXXK20-14AXK20-1	WAK20B17D17ANX
P257A431CAZA25-14	WA350-27AOX
P3100C367AXNI15-6BNI15-1	WAK31R11CS11CS
P5151A224AAXK17-54	WAL51B-19ANX
P5151A224AAXK20-54	WAL51B-23ANX
P5151A224AAXQ22-54	WAL51B-25ANX
P5151A224AAXQ25-54	WAL51B-27ANX
P7500A567ADZK25-6	WAM76B-44AOS
P7600A469CDNM2200DV	WADVLPUMP
Q-2995-7	WA20-12-0031
TA-1685-3	WA3025025202
TB-0024-0	WA20-25-0025
W09-02	WA20-20-0162
W1-14	WA20-51-0275
W1-58	WA20-51-0273
W1-78	WA20-51-0277
W58-39	WA20-20-0102
ZB-0024	WA20-25-0028

INTERCHANGE

INTERCHANGE: WORLD AMERICAN TO CHELSEA®

WORLD AMERICAN #	CHELSEA® #
WA20-06-5098	442XUESX-W5XK
WA20-06-5000	442XQAHX-V3XK
WA20-06-5001	442GQAHX-S3XK
WA20-06-5002	442XFAHX-W6XK
WA20-06-5003	442XQAHX-S3XK
WA20-06-5004	442XRAHX-W3XK
WA20-06-5005	442GFAHX-V3XD
WA20-06-5006	442ZLDAX-V5XK
WA20-06-5007	442XQESX-A3XK
WA20-06-5008	442XQAHX-W3XK
WA20-06-5009	442XLAHX-V3XK
WA20-06-5010	442XLAHX-A3XK
WA20-06-5011	442GBHVX-V5XK
WA20-06-5012	442GFAHX-V3XK
WA20-06-5013	442GFAHX-W3XD
WA20-06-5014	442GLAHX-A3XK
WA20-06-5015	442GLAHX-V3XD
WA20-06-5016	442GLAHX-V3XK
WA20-06-5017	442GQJCX-V3XK
WA20-06-5018	442GRJAX-V5XK
WA20-06-5019	442KSBQX-W5XK
WA20-06-5020	442KUAPX-W5XD
WA20-06-5021	442XFAHX-V3XD
WA20-06-5022	442XFAHX-V3XK
WA20-06-5023	442XFAHX-W3XD
WA20-06-5024	442XLHYX-W5XD
WA20-06-5025	442XKXX-W5XD
WA20-06-5026	442XQABX-A3XD
WA20-06-5027	442XQABX-V3XD
WA20-06-5028	442XQAHX-A3XD
WA20-06-5029	442XQAHX-A3XK
WA20-06-5030	442XRAHX-A3XD
WA20-06-5031	442XRAHX-A3XK
WA20-06-5032	442XRAHX-V3XD
WA20-06-5033	442XRAHX-V3XK
WA20-06-5034	442XRAHX-W3XD
WA20-06-5035	442XRARX-A5XD
WA20-06-5036	442XRARX-V5XD
WA20-06-5037	442XRBQX-W4XD
WA20-06-5038	442XRESX-A3XK
WA20-06-5039	442XRESX-V3XK
WA20-06-5040	442XRJAX-V5XK
WA20-06-5041	442XSBQX-V5XD
WA20-06-5042	442XSESX-A3XD
WA20-06-5043	442XSESX-A3XK
WA20-06-5044	442XSESX-T3XK
WA20-06-5045	442XSESX-V3XD
WA20-06-5046	442XSESX-V3XK
WA20-06-5047	442XSESX-V5XK
WA20-06-5048	442XSESX-W3XD
WA20-06-5049	442XSESX-W5XK
WA20-06-5050	442XSFNX-A5XK
WA20-06-5051	442XSFNX-V5XK
WA20-06-5052	442XSHYX-W5XD

WORLD AMERICAN #	CHELSEA® #
WA20-06-5053	442XSXXX-V5XD
WA20-06-5054	442XUAHX-V6XK
WA20-06-5055	442XUAHX-W3XD
WA20-06-5056	442XUAHX-W6XK
WA20-06-5057	442XUAPX-W5XK
WA20-06-5058	442XUESX-W3XK
WA20-06-5059	442XUESX-W5XD
WA20-06-5060	442XUEWX-W3XD
WA20-06-5061	442XWAHX-T3XK
WA20-06-5062	442XWAHX-V3XK
WA20-06-5063	442XWAHX-V6XK
WA20-06-5064	442XWAHX-W6XD
WA20-06-5065	442XWAHX-W6XK
WA20-06-5066	442XWBQX-W5XK
WA20-06-5067	442XWESX-A3XD
WA20-06-5068	442XWESX-V3XD
WA20-06-5069	442XWESX-W5XD
WA20-06-5070	442XWKXX-W5XD
WA20-06-5071	442ZFAHX-A3XK
WA20-06-5072	442ZLDAX-A3XK
WA20-06-5073	442ZLDAX-V3XK
WA20-06-5074	442ZFQNX-A5XK
WA20-06-5075	442ZFQNX-V5XK
WA20-06-5076	442ZWJBX-W4XK
WA20-06-5077	442XLAHX-V3XD
WA20-06-5078	442ZFAHX-V3XK
WA20-06-5079	442XRFXW-W5XK
WA20-06-5080	442GQJAX-A5XK
WA20-06-5081	442ZSAPX-W5XD
WA20-06-5082	442XFAHX-A3XK
WA20-06-5083	442XSAPX-W5XD
WA20-06-5084	442ZWFNX-W5XD
WA20-06-5086	442XWEWX-W3XK
WA20-06-5087	442ZWFNX-V5XD
WA20-06-5088	442XSHYX-W5XK
WA20-06-5089	442XQARX-A3XD
WA20-06-5090	442XQESX-V3XK
WA20-06-5091	442XQARX-V3XD
WA20-06-5092	442XUESX-V3XK
WA20-06-5093	442XLDUX-V3XK
WA20-06-5094	442ZSFNX-W3XK
WA20-06-5095	442ZLDAX-T3XK
WA20-06-5096	442XQESX-A3XD
WA20-06-5097	442XQARX-V5XD
WA20-06-5099	442ZSFNX-V3XK
WA20-06-5100	442ZSFNX-A3XK
WA20-06-5101	442XRJXX-V5XK
WA20-06-5102	442XRJXX-A5XK
WA20-06-5103	442XSGSX-W5XK
WA20-06-5104	442XQAHX-W3XD
WA20-06-5105	442XQAHX-V3XD
WA20-06-5107	442XSAHX-A3XK
WA20-06-5108	442XSAHX-V3XD
WA20-06-5109	442XSAHX-A3XD

WORLD AMERICAN #	CHELSEA® #
WA20-06-5110	442XSFNX-W3XK
WA20-06-5111	442ZRDAX-V3XK
WA20-06-5112	442XLAHX-S3XK
WA20-06-5113	442ZLDAX-A3XD
WA20-06-5114	442ZLDAX-V3XD
WA20-06-5115	442ZFDAX-V3XK
WA20-06-5116	442ZFDAX-A3XK
WA20-06-5117	442ZQAHX-V3XK
WA20-06-5118	442ZQAHX-A3XK
WA20-06-5119	442XSESX-W5XD
WA20-06-5120	442ZSDAX-V3XD
WA20-06-5121	442ZSDAX-A3XD
WA20-06-5122	442XUAHX-V3XD
WA20-06-5123	442XUAHX-A3XD
WA20-06-5124	442XFAHX-A3XD
WA20-06-5125	442XQAHX-V5XK
WA20-06-5126	442XQAHX-A5XK
WA20-06-5127	442XWFNX-V3XK
WA20-06-5128	442XWFNX-A3XK
WA20-06-5129	442XSAPX-W3XK
WA20-06-5130	442XLAHX-A3XD
WA20-06-5131	442XUBMX-V3XK
WA20-06-5132	442XUBMX-A3XK
WA20-06-5133	442XUBMX-V3XD
WA20-06-5134	442XUBMX-A3XD
WA20-06-5135	442XFAHX-S3XK
WA20-06-5136	442ZFDAX-S3XK
WA20-06-5137	442XSAPX-W5XK
WA20-06-5138	442ZLAPX-W5XD
WA20-06-5139	442GFAHX-A3XD
WA20-06-5140	442XFAHX-T3XD
WA20-06-5141	442XQESX-S3XK
WA20-06-5142	442XSESX-W3XK
WA20-06-5143	442ZSFNX-W5XK
WA20-06-5144	442ZXFNX-W5XD
WA20-06-5145	442GQAHX-V3XD
WA20-06-5146	442ZQAHX-W3XD
WA20-06-5147	442ZSAHX-W3XK
WA20-06-5148	442XUAHX-V5XD
WA20-06-5149	442XFAHX-W3XK
WA20-06-5150	442XQFCX-W5XD
WA20-06-5151	442XSBSX-W3XD
WA20-06-5152	442XSFNX-A3XK
WA20-06-5153	442XLAHX-S3XD
WA20-06-5154	442XWBMX-W3XK
WA20-06-5155	442XLFNX-V5XD
WA20-06-5156	442XSJWX-S5XD
WA20-06-5157	442XRHYX-W5XD
WA20-06-5158	442XUESX-A5XK
WA20-06-5159	442XUESX-A3XD
WA20-06-5160	442ZUFNX-W5XK
WA20-06-5161	442XRBGX-V5XK
WA20-06-5162	442XRBGX-V3XK
WA20-06-5163	442XUAPX-V5XK

INTERCHANGE

INTERCHANGE: WORLD AMERICAN TO CHELSEA®

WORLD AMERICAN #	CHELSEA® #
WA20-06-5164	442XUAPX-V3XK
WA20-06-5165	442XXAXX-V6XK
WA20-06-5166	442XSBMX-V5XK
WA20-06-5167	442ZWFNX-V5XK
WA20-06-5168	442ZWFNX-V3XK
WA20-06-5169	442XWJKX-A5XK
WA20-06-5170	442XUFNX-S3XK
WA20-06-5171	442XSAHX-A4XK
WA20-06-5172	442XSEVX-W5XD
WA20-06-5173	442XXARX-A6XK
WA20-06-5174	442XHYX-W5XD
WA20-06-5175	442XSBMX-S3XK
WA20-06-5176	442XSBMX-S3XD
WA20-06-5177	442ZSFNX-S3XK
WA20-06-5178	442ZSFNX-S3XD
WA20-06-5180	442XUAPX-W3XK
WA20-06-5181	442XSBGX-W5XD
WA20-06-5182	442XSAXX-W6XD
WA20-06-5183	442XSBMX-W3XD
WA20-06-5184	442GQAHX-A3XD
WA20-06-5185	442ZSFNX-A3XD
WA20-06-5186	442XWAPX-W5XK
WA20-06-5187	442XUJKX-V5XK
WA20-06-5188	442XUBMX-W3XD
WA20-06-5189	442ZRFNX-V3XK
WA20-06-5190	442XWAPX-W3XD
WA20-06-5191	442XLAHX-W3XD
WA20-06-5192	442ZSFNX-V5XK
WA20-06-5193	442XSFCN-W3XK
WA20-06-5194	442XQESX-W3XD
WA20-06-5195	442XRFCX-W3XK
WA20-06-5196	442XUAHX-A5XK
WA20-06-5197	442ZWFNX-A5XK
WA20-06-5198	442ZSCBX-W3XK
WA20-06-5199	442XRJKX-S5XK
WA20-06-5200	442XLAHX-V5XK
WA20-06-5201	442XUDMX-W3XK
WA20-06-5202	442XWEWX-W3XD
WA20-06-5203	442ZWFNX-W3XD
WA20-06-5204	442LSFNX-A5XK
WA20-06-5205	442XUBMX-W3XK
WA20-06-5206	442ZSAHX-V3XD
WA20-06-5207	442XESX-W3XK
WA20-06-5208	442ZQDAX-A3XD
WA20-06-5209	442GSAHX-A3XD
WA20-06-5210	442XRESX-W3XD
WA20-06-5211	442XLESX-W3XK
WA20-06-5212	442XSBGX-W5XK
WA20-06-5213	442ZQAHX-W6XK
WA20-06-5214	442ZQAHX-A3XD
WA20-06-5215	442XUEDX-W3XK
WA20-06-5216	442XLJKX-V3XK
WA20-06-5217	442XUDMX-W3XD
WA20-06-5218	442ZFDAX-V3XD

WORLD AMERICAN #	CHELSEA® #
WA20-06-5219	442XSBSX-W3XK
WA20-06-5220	442XUESX-W3XD
WA20-06-5221	442ZLDAX-S3XK
WA20-06-5222	442ZFDAX-W3XK
WA20-06-5223	442GBHVX-W5XK
WA20-06-5224	442XQESX-A5XD
WA20-06-5225	442ZQDAX-V3XK
WA20-06-5226	442GBHVX-A3XK
WA20-06-5227	442XLESX-A5XK
WA20-06-5228	442XQAHX-W6XD
WA20-06-5229	442GQAHX-W3XK
WA20-06-5230	442XWFCX-W5XK
WA20-06-5231	442XSJWX-W5XK
WA20-06-5232	442XSAHX-V3XK
WA20-06-5233	442ZSAHX-A3XK
WA20-06-5234	442XSESX-A5XD
WA20-06-5235	442XSEWX-W3XK
WA20-06-5236	442XWESX-W3XD
WA20-06-5237	442ZVJUX-W5XD
WA20-06-5238	442XQEWX-W3XK
WA20-06-5239	442XSESX-A5XK
WA20-06-5240	442XLJKX-A5XK
WA20-06-5241	442XQAHX-V4XK
WA20-06-5242	442XQABX-V5XK
WA20-06-5243	442XWEWX-V3XK
WA20-06-5244	442XQESX-A5XK
WA20-06-5245	442XUDUX-V3XK
WA20-06-5246	442XSDAX-V3XK
WA20-06-5247	442XREWV-W5XD
WA20-06-5248	442XSJWX-V5XK
WA20-06-5249	442XWFCX-W3XD
WA20-06-5250	442XLJKX-A5XD
WA20-06-5251	442XSGSX-W5XD
WA20-06-5252	442XUFNX-A5XK
WA20-06-5253	442XWEWX-W5XD
WA20-06-5254	442ZWBZX-W4XK
WA20-06-5255	442XUDUX-V3XD
WA20-06-5256	442ZFDAX-W3XD
WA20-06-5257	442XEWX-V3XD
WA20-06-5259	442XQEDX-W5XD
WA20-06-5260	442XUESX-V5XK
WA20-06-5261	442GSAHX-V3XY
WA20-06-5262	442XQJKX-A5XK
WA20-06-5263	442ZRAHX-A3XK
WA20-06-5264	442XWESX-V5XK
WA20-06-5265	442XUBCX-A3XK
WA20-06-5266	442XWAHX-V3XD
WA20-06-5267	442XUBCX-W3XD
WA20-06-5268	442XUJKX-A5XD
WA20-06-5269	442XQAHX-A6XD
WA20-06-5270	442XQABX-V3XK
WA20-06-5271	442XSBGX-V5XD
WA20-06-5272	442GBHVX-A5XK
WA20-06-5273	442XAAHX-A3XD

WORLD AMERICAN #	CHELSEA® #
WA20-06-5274	442XRESX-W5XD
WA20-06-5275	442XLAHX-W5XK
WA20-06-5276	442ZUDAX-V3XD
WA20-06-5277	442XEWX-V5XK
WA20-06-5278	442GFAHX-S3XK
WA20-06-5279	442XREVX-V3XD
WA20-06-5280	442XLDAX-V5XD
WA20-06-5281	442XRESX-W5XK
WA20-06-5282	442XSESX-S5XK
WA20-06-5283	442GFAHX-A5XD
WA20-06-5284	442GLAHX-A3XD
WA20-06-5285	442XLESX-V5XK
WA20-06-5286	442ZUDHX-W3XK
WA20-06-5287	442XWDUX-V5XK
WA20-06-5288	442XUFCX-W5XD
WA20-06-5289	442XRJKX-A3XD
WA20-06-5290	442XUKXX-W5XK
WA20-06-5291	442GBHVX-W3XK
WA20-06-5292	442XFDAX-W5XD
WA20-06-5293	442XSJWX-A5XK
WA20-06-5294	442XSJWX-V5XD
WA20-06-5295	442XRBGX-W5XD
WA20-06-5296	442ZRFNX-A5XK
WA20-06-5297	442ZSUX-V5XK
WA20-06-5298	442XWAHX-V5XK
WA20-06-5299	442XLGSX-W3XD
WA20-06-5300	442XBZX-W4XD
WA20-06-5301	442XSGSX-W3XD
WA20-06-5302	442XSJKX-A5XK
WA20-06-5303	442XUBZX-W4XD
WA20-06-5304	442XFAHX-V5XK
WA20-06-5305	442XWESX-V5XD
WA20-06-5306	442ZRDX-V3XD
WA20-06-5308	442XSNX-W5XK
WA20-06-5309	442XSAPX-V3XK
WA20-06-5310	442XWJUX-V3XK
WA20-06-5311	442XRFNX-W3XK
WA20-06-5312	442XWBQX-W4XD
WA20-06-5313	442XQABX-V4XK
WA20-06-5314	442ZUJGX-W4XD
WA20-06-5315	442XXAPX-W5XD
WA20-06-5316	442XSGSX-W5XD
WA20-06-5317	442XSAHX-W3XK
WA20-06-5318	442XUKXX-W5XD
WA20-06-5319	442XUJWX-V5XD
WA20-06-5320	442XFAHX-V5XD
WA20-06-5321	442XWGSX-W5XD
WA20-06-5322	442XRAHX-S3XK
WA20-06-5323	442XRESX-A5XK
WA20-06-5324	442XUBQX-W3XK
WA20-06-5325	442XUEWX-W3XK
WA20-06-5326	442XWFCX-W5XD
WA20-06-5327	442GFAHX-A3XK
WA20-06-5328	442XFAHX-T3XK

INTERCHANGE

INTERCHANGE: WORLD AMERICAN TO CHELSEA®

WORLD AMERICAN #	CHELSEA® #
WA20-06-5329	442GFAHX-T3XK
WA20-06-5330	442XSEWX-V3XK
WA20-06-5331	442ZSFNX-V3XK
WA20-06-5332	442GLAHX-T3XK
WA20-06-5333	442GQAHX-V3XK
WA20-06-5334	442GQAHX-A3XK
WA20-06-5335	442XQAHX-T3XK
WA20-06-5336	442GQAHX-T3XK
WA20-06-5337	442GRAHX-A3XK
WA20-06-5339	442GRAHX-S3XK
WA20-06-5340	442XRAHX-T3XK
WA20-06-5341	442GRAHX-T3XK
WA20-06-5342	442GSAHX-V3XK
WA20-06-5343	442GSAHX-A3XK
WA20-06-5344	442XSAHX-S3XK
WA20-06-5345	442GSAHX-S3XK
WA20-06-5346	442XSAHX-T3XK
WA20-06-5347	442GSAHX-T3XK
WA20-06-5348	442XFAHX-S3XD
WA20-06-5349	442GFAHX-S3XD
WA20-06-5350	442GFAHX-T3XD
WA20-06-5351	442GLAHX-S3XD
WA20-06-5352	442XLAHX-T3XD
WA20-06-5353	442GLAHX-T3XD
WA20-06-5354	442XQAHX-S3XD
WA20-06-5355	442GQAHX-S3XD
WA20-06-5356	442XQAHX-T3XD
WA20-06-5357	442GQAHX-T3XD
WA20-06-5358	442GRAHX-V3XD
WA20-06-5359	442GSAHX-V3XD
WA20-06-5360	442GUAHX-V3XD
WA20-06-5361	442XRAHX-S3XD
WA20-06-5362	442XSAHX-S3XD
WA20-06-5363	442XUAHX-S3XD
WA20-06-5364	442GRAHX-S3XD
WA20-06-5365	442XRAHX-T3XD
WA20-06-5366	442GRAHX-T3XD
WA20-06-5367	442GSAHX-S3XD
WA20-06-5368	442XSAHX-T3XD
WA20-06-5369	442GSAHX-T3XD
WA20-06-5370	442GUAHX-S3XD
WA20-06-5371	442XUAHX-T3XD
WA20-06-5372	442GUAHX-T3XD
WA20-06-5373	442GRAHX-A3XD
WA20-06-5374	442GUAHX-A3XD
WA20-06-5375	442GLAHX-S3XK
WA20-06-5376	442XLAHX-T3XK
WA20-08-7000	489XFAHX-V3XK
WA20-08-7001	489XLAHX-V3XK
WA20-08-7002	489XLAHX-V3XD
WA20-08-7003	489XFAHX-V5XK
WA20-08-7004	489XFAHX-V3XD
WA20-08-7005	489XQAHX-V3XK
WA20-08-7006	489XQAHX-V3XD

WORLD AMERICAN #	CHELSEA® #
WA20-08-7007	489XFAHX-V5XD
WA20-08-7008	489XFAHX-A3XK
WA20-08-7009	489GQAHX-V3XD
WA20-08-7010	489XQAHX-W3XD
WA20-08-7011	489GLAHX-A3XD
WA20-08-7012	489XLAHX-V5XK
WA20-08-7014	489XLAHX-S3XK
WA20-08-7015	489XLAHX-A3XK
WA20-08-7016	489GFAHX-A3XK
WA20-08-7017	489XQAHX-A3XK
WA20-08-7018	489XQAHX-A3XD
WA20-08-7019	489XSAHX-A3XK
WA20-08-7020	489XSAHX-V3XD
WA20-08-7021	489GQAHX-A3XD
WA20-08-7022	489XLAHX-W3XD
WA20-08-7023	489XRAHX-W3XD
WA20-08-7025	489GFAHX-V3XD
WA20-08-7026	489XQAHX-V5XD
WA20-08-7027	489XQAHX-V5XK
WA20-08-7028	489XQAHX-W3XK
WA20-08-7029	489XFAHX-A3XD
WA20-08-7030	489GFAHX-V3XK
WA20-08-7031	489XFAHX-V3XY
WA20-08-7032	489XLAHX-T3XK
WA20-08-7033	489XQAHX-A5XD
WA20-08-7034	489XRAHX-A3XD
WA20-08-7035	489XSAHX-A3XD
WA20-08-7036	489GLAHX-V3XK
WA20-08-7037	489GQAHX-A3XK
WA20-08-7038	489GRAHX-V3XK
WA20-08-7039	489GSAHX-V3XK
WA20-08-7040	489XQAHX-A5XK
WA20-08-7041	489XRAHX-W3XK
WA20-08-7042	489XLAHX-A3XD
WA20-08-7043	489GFAHX-A3XD
WA20-08-7044	489GFAHX-A5XK
WA20-08-7045	489GFAHX-S3XK
WA20-08-7046	489GLAHX-A3XK
WA20-08-7047	489GLAHX-A5XK
WA20-08-7048	489GLAHX-V5XK
WA20-08-7049	489GQAHX-N3XK
WA20-08-7050	489GRAHX-A3XD
WA20-08-7051	489GRAHX-A3XK
WA20-08-7052	489XFAHX-A5XK
WA20-08-7053	489XFAHX-S3XK
WA20-08-7054	489XFAHX-S5XK
WA20-08-7055	489XFAHX-T3XK
WA20-08-7056	489XFAHX-T5XK
WA20-08-7057	489XFAHX-V3AF
WA20-08-7058	489XLAHX-W3XK
WA20-08-7059	489XLDAX-A5XK
WA20-08-7060	489XLDAX-V5XK
WA20-08-7061	489XQAHX-S3XK
WA20-08-7062	489XQARX-A3XK

WORLD AMERICAN #	CHELSEA® #
WA20-08-7063	489XQARX-V3XK
WA20-08-7064	489XQEVX-A5XK
WA20-08-7065	489XRAHX-A3XK
WA20-08-7066	489XRAHX-A5XK
WA20-08-7067	489XRAHX-V3XD
WA20-08-7068	489XRAHX-V3XK
WA20-08-7069	489XREVX-V5XK
WA20-08-7070	489XSAHX-V3XK
WA20-08-7071	489XSAHX-W3XK
WA20-08-7072	489XSEVX-T5XK
WA20-08-7073	489XSEVX-V5XK
WA20-08-7074	489ZFAHX-V3XK
WA20-08-7075	489ZFDAX-A5XD
WA20-08-7076	489ZFDAX-A5XK
WA20-08-7077	489ZFDAX-V5XD
WA20-08-7078	489ZFDAX-V5XK
WA20-08-7079	489ZLDAX-A5XK
WA20-08-7080	489ZLDAX-T5XK
WA20-08-7081	489ZLDAX-V5XK
WA20-08-7082	489ZRDAX-V5XD
WA20-08-7083	489ZSDAX-A5XD
WA20-08-7084	489ZSDAX-V5XD
WA20-08-7085	489ZRDAX-V5XK
WA20-08-7086	489XFAHX-S3XD
WA20-08-7087	489GSAHX-A3XK
WA20-08-7088	489GFAHX-V5XK
WA20-08-7089	489XLAHX-A5XK
WA20-08-7090	489XRAHX-V5XK
WA20-08-7091	489ZLDAX-V5XD
WA20-08-7092	489ZLDAX-A5XD
WA20-08-7093	489GQAHX-V5XK
WA20-08-7094	489ZSAHX-V3XK
WA20-08-7095	489XUDAX-V3XK
WA20-08-7096	489XUDAX-A3XK
WA20-08-7097	489XUBGX-W3XD
WA20-08-7098	489XRBGX-W3XK
WA20-08-7099	489XRBGX-W3XD
WA20-08-7100	489XREVX-T5XK
WA20-08-7101	489XLAHX-V6XK
WA20-08-7102	489GSAHX-V3XD
WA20-08-7103	489GLAHX-W3XD
WA20-08-7104	489GFAHX-W3XK
WA20-08-7105	489XUAHX-A3XD
WA20-08-7106	489GWAHX-A3XD
WA20-08-7107	489GSAHX-A3XD
WA20-08-7108	489GUAHX-A3XD
WA20-08-7109	489XFAHX-A3AF
WA20-08-7110	489ZQDAX-A5XK
WA20-08-7111	489XXAHX-A3XD
WA20-08-7112	489XLABX-A3XK
WA20-08-7113	489XQAHX-V6XK
WA20-08-7114	489XLAHX-V3AF
WA20-08-7115	489XUARX-W3XD
WA20-08-7116	489XRAHX-V6XK

INTERCHANGE

INTERCHANGE: WORLD AMERICAN TO CHELSEA®

WORLD AMERICAN #	CHELSEA® #
WA20-08-7117	489GFAHX-A5XD
WA20-08-7118	489XFAHX-A6XK
WA20-08-7119	489XLAHX-A3AF
WA20-08-7120	489ZQDAX-V5XK
WA20-08-7121	489GSAHX-A5XD
WA20-08-7122	489XSAHX-A5XD
WA20-08-7123	489XLAHX-A3AZ
WA20-08-7124	489XQAHX-A3AF
WA20-08-7125	489GLAHX-S3XK
WA20-08-7126	489XLDAHX-A3XD
WA20-08-7127	489GRAHX-V3XD
WA20-08-7128	489GUAHX-V3XK
WA20-08-7129	489ZLDAX-S5XK
WA20-08-7130	489XLDAHX-V5XY
WA20-08-7131	489ZQDAX-V5XD
WA20-08-7132	489GFAHX-V5XD
WA20-08-7133	489XUAHX-V3XD
WA20-08-7134	489XLAHX-V5XD
WA20-08-7135	489XUBGX-V3XK
WA20-08-7136	489ZFDAX-A6XK
WA20-08-7137	489GXAHX-A3XD
WA20-08-7138	489XAAHX-V3XD
WA20-08-7139	489XLAHX-A4XK
WA20-08-7140	489XRAHX-V5XD
WA20-08-7141	489XRAHX-W6XD
WA20-08-7142	489XHAHX-V3XK
WA20-08-7143	489GUAHX-V3XD
WA20-08-7146	489GQAHX-A5XD
WA20-08-7148	489XQAHX-V3AF
WA20-08-7149	489XSAHX-V3AF
WA20-08-7150	489XQAHX-W6XD
WA20-08-7151	489XLAHX-V5AF
WA20-08-7152	489GQAHX-S3XK
WA20-08-7153	489XWAHX-A3XD
WA20-08-7154	489GFAHX-V3AF
WA20-08-7155	489XWAHX-V5XK
WA20-08-7156	489ZLDAX-V5XY
WA20-08-7157	489ZRDAX-A5XK
WA20-08-7158	489XUAHX-V3XK
WA20-08-7159	489GLAHX-V3XD
WA20-08-7160	489XSAHX-W6XD
WA20-08-7161	489XSAHX-V6XK
WA20-08-7162	489GSAHX-V5XD
WA20-08-7163	489XLAHX-A5XD
WA20-08-7164	489XLAHX-V6XD
WA20-08-7165	489ZSDAX-V3XD
WA20-08-7166	489XDXHX-V3XD
WA20-08-7167	489XLAHX-V3XY
WA20-08-7168	489XSAHX-A5XK
WA20-08-7169	489GQAHX-A5XK
WA20-08-7170	489ZLDAX-W5XK
WA20-08-7171	489XWDHX-A3XD
WA20-08-7172	489GFAHX-V3XY
WA20-08-7173	489XQAHX-V6XD

WORLD AMERICAN #	CHELSEA® #
WA20-08-7174	489ZLDAX-V3XK
WA20-08-7175	489XFAHX-V6XK
WA20-08-7176	489ZUDAX-V5XD
WA20-08-7177	489ZRDAX-A5XD
WA20-08-7178	489ZRDAX-S5XD
WA20-08-7179	489ZRDAX-T5XD
WA20-08-7180	489ZFDAX-S5XK
WA20-08-7181	489ZFAHX-T5XK
WA20-08-7182	489ZQAHX-S5XK
WA20-08-7183	489ZQDAX-T5XK
WA20-08-7184	489ZRDAX-S5XK
WA20-08-7185	489ZRDAX-T5XK
WA20-08-7186	489ZFDAX-S5XD
WA20-08-7187	489ZFDAX-T5XD
WA20-08-7188	489ZLDAX-S5XD
WA20-08-7189	489ZLDAX-T5XD
WA20-08-7190	489ZQDAX-S5XD
WA20-08-7191	489ZQDAX-T5XD
WA20-08-7192	489GLAHX-W3XK
WA20-08-7193	489GQAHX-W3XK
WA20-08-7194	489GRAHX-W3XK
WA20-08-7195	489GSAHX-W3XK
WA20-08-7196	489GLAHX-W3XD
WA20-08-7197	489GQAHX-W3XD
WA20-08-7198	489GRAHX-W3XD
WA20-08-7199	489GRAHX-V5XK
WA20-08-7200	489GLAHX-V5XD
WA20-08-7201	489GQAHX-V5XD
WA20-08-7202	489XFAHX-A5XK
WA20-08-7203	489GLAHX-A5XD
WA20-08-7204	489GRAHX-A5XK
WA20-08-7205	489XFAHX-W3XK
WA20-08-7206	489GFAHX-T3XK
WA20-08-7207	489GLAHX-T3XK
WA20-08-7208	489XQAHX-T3XK
WA20-08-7209	489GQAHX-T3XK
WA20-08-7210	489XRAHX-S3XK
WA20-08-7211	489GRAHX-S3XK
WA20-08-7212	489XRAHX-T3XK
WA20-08-7213	489GRAHX-T3XK
WA20-08-7214	489XSAHX-S3XK
WA20-08-7215	489GSAHX-S3XK
WA20-08-7216	489XSAHX-T3XK
WA20-08-7217	489GSAHX-T3XK
WA20-08-7218	489GFAHX-S5XK
WA20-08-7219	489GFAHX-T5XK
WA20-08-7220	489XLAHX-S5XK
WA20-08-7221	489GLAHX-S5XK
WA20-08-7222	489XLAHX-T5XK
WA20-08-7223	489GLAHX-T5XK
WA20-08-7224	489XQAHX-S5XK
WA20-08-7225	489GQAHX-S5XK
WA20-08-7226	489XQAHX-T5XK
WA20-08-7227	489GQAHX-T5XK

WORLD AMERICAN #	CHELSEA® #
WA20-08-7228	489XRAHX-S5XK
WA20-08-7229	489GRAHX-S5XK
WA20-08-7230	489XRAHX-T5XK
WA20-08-7231	489GRAHX-T5XK
WA20-08-7232	489GFAHX-S3XD
WA20-08-7233	489XFAHX-T3XD
WA20-08-7234	489GFAHX-T3XD
WA20-08-7235	489XLAHX-S3XD
WA20-08-7236	489GLAHX-S3XD
WA20-08-7237	489XLAHX-T3XD
WA20-08-7238	489GLAHX-T3XD
WA20-08-7239	489XQAHX-S3XD
WA20-08-7240	489GQAHX-S3XD
WA20-08-7241	489XQAHX-T3XD
WA20-08-7242	489GQAHX-T3XD
WA20-08-7243	489XRAHX-S3XD
WA20-08-7244	489GRAHX-S3XD
WA20-08-7245	489XRAHX-T3XD
WA20-08-7246	489GRAHX-T3XD
WA20-08-7247	489XSAHX-S3XD
WA20-08-7248	489GSAHX-S3XD
WA20-08-7249	489XSAHX-T3XD
WA20-08-7250	489GSAHX-T3XD
WA20-08-7251	489XFAHX-S5XD
WA20-08-7252	489GFAHX-S5XD
WA20-08-7253	489XFAHX-T5XD
WA20-08-7254	489GFAHX-T5XD
WA20-08-7255	489XLAHX-S5XD
WA20-08-7256	489GLAHX-S5XD
WA20-08-7257	489XLAHX-T5XD
WA20-08-7258	489GLAHX-T5XD
WA20-08-7259	489XQAHX-S5XD
WA20-08-7260	489GQAHX-S5XD
WA20-08-7261	489XQAHX-T5XD
WA20-08-7262	489GQAHX-T5XD
WA20-10-9001	277XBFJP-B5XK
WA20-10-9002	277XDFJP-B5XK
WA20-10-9003	277XGFJP-B5XK
WA20-10-9004	277XMFJP-B5XK
WA20-10-9005	277XBFJP-B5XD
WA20-10-9006	277XDFJP-B5XD
WA20-10-9007	277XGFJP-B5XD
WA20-10-9008	277XMFJP-B5XD
WA20-26-0001	645XAHX-3XX
WA20-26-0002	628XLQX-5GX
WA20-26-0003	630GAHX-3XX
WA20-26-0004	626XAH-3XX
WA20-26-0005	626XADA-3XX
WA20-26-0006	628ZDAX-4XX

INTERCHANGE

INTERCHANGE: NEW WORLD AMERICAN TO OLD WORLD AMERICAN

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-03-1019	WAXD
WA20-06-5098	WA244XUESX-W5XK
AS102	WAAIRSHIFTCYC
AS102G	WAAIRSHIFTCYG
WA20-03-1003	WAS
WA20-03-1004	WA1P552X
WA20-03-1005	WA1P557X
WA20-03-1006	WA1P558X
WA20-03-1007	WA1P562X
WA20-03-1008	WAAH
WA20-03-1009	WAL
WA20-03-1010	WAFDA
WA20-03-1011	WA2P559
WA20-03-1012	WAQ
WA20-03-1013	WAFAH
WA20-03-1014	WA2P726
WA20-03-1015	WA5P965
WA20-03-1016	WA5P1077
WA20-03-1017	WA2P727
WA20-03-1018	WAXKSUB
WA20-03-1020	WAXK
WA20-03-1021	WA3P282
WA20-03-1022	WA3P202
WA20-03-1023	WA3P282-1
WA20-03-1024	WA3P202-1
WA20-03-1025	WA9P88-1
WA20-03-1026	WA31P102
WA20-03-1027	WA22P24-1
WA20-03-1028	WA378391
WA20-03-1029	WA14P73-1
WA20-03-1030	WA329361X
WA20-03-1031	550532
WA20-03-1032	WAES
WA20-03-1033	WADA
WA20-03-1034	WA328273X
WA20-03-1035	WA378447-6
WA20-03-1036	WA28P191
WA20-03-1037	WA378447-8
WA20-03-1038	WA35P8
WA20-03-1039	WA378430-9
WA20-03-1040	WA28P216
WA20-03-1041	WA22P24-2
WA20-03-1042	550439
WA20-03-1043	WA328274-1X
WA20-03-1044	WA8170-200XK
WA20-03-1045	WA500007-29
WA20-03-1046	550397
WA20-03-1047	WA329333-1X
WA20-03-1048	XDMOUNTGSK
WA20-03-1049	WA500597-16
WA20-03-1050	XK MOUNTINGGSK
WA20-03-1051	550221
WA20-03-1052	WA328356-50X

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-03-1053	WA328356-13X
WA20-03-1054	WA328273-1X
WA20-03-1055	6XK MOUNTGSK
WA20-03-1056	WA170-68X
WA20-03-1057	WA8170-200XO
WA20-03-1058	WA28P99
WA20-03-1059	WA328380X
WA20-03-1060	WA170-78X
WA20-03-1061	WA379746
WA20-03-1062	WA8170-76XK
WA20-03-1063	WA329333X
WA20-03-1064	WA328274X
WA20-03-1065	WAHY
WA20-03-1066	WA379745
WA20-03-1067	WA329121-1X
WA20-03-1068	WA379747
WA20-03-1069	WA379522
WA20-03-1070	WA329119-1X
WA20-03-1071	WA8170-77X
WA20-03-1072	WAAR
WA20-03-1073	WAAP
WA20-03-1074	WA329119-2X
WA20-03-1075	WAEV
WA20-03-1076	WA378000
WA20-03-1077	WA379426-16
WA20-03-1078	WA8170-76XO
WA20-03-1079	6XDMOUNTGSK
WA20-03-1080	WA328594-13X
WA20-03-1081	WABG
WA20-03-1082	WABQ
WA20-03-1083	WA5P1085
WA20-03-1084	WAFN
WA20-03-1085	WA244X
WA20-03-1086	WA328170-14X
WA20-03-1088	WA5P964
WA20-03-1089	WA5P1001
WA20-03-1090	WAAF
WA20-03-1091	WA329121-2X
WA20-03-1092	WAU
WA20-03-1094	550890
WA20-03-1095	561006
WA20-03-1096	14P75
WA20-03-1097	WAJA
WA20-03-1098	WADJ
WA20-03-1099	WA3P854
WA20-03-1101	WA2P560
WA20-03-1102	WA2P561
WA20-03-1103	WA2P637
WA20-03-1104	WA2P833
WA20-03-1105	WA328591-92X
WA20-03-1107	WA379424-29
WA20-03-1108	WA3P979
WA20-03-1109	WA5P1214

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-03-1110	WA329088X
WA20-03-1111	WA5P1358
WA20-03-1113	WA5P966
WA20-03-1114	WA5P967
WA20-03-1115	WA5P968
WA20-03-1116	WA8170-200X
WA20-03-1117	WA8170-76X
WA20-03-1118	WA9P8D
WA20-03-1119	WAEW
WA20-03-1120	WAJB
WA20-03-1121	WAKX
WA20-03-1122	WAXDSUB
WA20-03-1123	WAJK
WA20-03-1125	WAED
WA20-03-1126	WA22P24-3
WA20-03-1127	WAR
WA20-03-1128	WAW
WA20-03-1129	WA5P969
WA20-03-1130	WA2P728
WA20-03-1131	WAX
WA20-03-1132	WA14P73-2
WA20-03-1133	WA14P73-3
WA20-03-1134	WA329202X
WA20-03-1135	WA14P73-5
WA20-03-1136	WA244Z
WA20-03-1137	WA984X
WA20-03-1138	WA984Z
WA20-03-1139	WADU
WA20-03-1140	WAJU
WA20-03-1141	WAGS
WA20-03-1143	WA14P73-4
WA20-03-1153	WAFB
WA20-03-1154	WABM
WA20-03-1155	WABS
WA20-03-1156	WA28P42
WA20-03-1162	WACB
WA20-03-1163	WAKN
WA20-03-1164	WAGQ
WA20-03-1165	WAJG
WA20-03-1166	WAHX
WA20-03-1168	WA20-03-1030
WA20-03-1170	WAUX
WA20-03-1171	WA3UX
WA20-03-1172	WA5P634
WA20-03-1174	WA328591-70X
WA20-03-1184	WA28-P-275 / WA28P275
WA20-03-1185	WA42P22X/WA42-P-22X/ WA628X
WA20-03-1186	WA5P1193/WA5-P-1193
WA20-03-1187	WA5P1280/WA5-P-1280
WA20-03-1188	WA2-P-791/WA2P791
WA20-03-1189	WA5-A-188/WA5A188
WA20-03-1190	WABL

INTERCHANGE

INTERCHANGE: NEW WORLD AMERICAN TO OLD WORLD AMERICAN

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-03-1191	WA379044-7
WA20-03-1192	WA5P1028/WA5-P-1028
WA20-03-1194	WA5-P-1046 / WA5P1046
WA20-03-1195	WA28-P-268 / WA28P268
WA20-03-1196	WA5-P-1041 / WA5P1041
WA20-03-1197	WA329271-1X / WA3292711X
WA20-03-1198	WA5-P-866 / WA5P866
WA20-04-3000	WA379547X
WA20-04-3001	WA28P225
WA20-04-3002	WA378576
WA20-04-3003	WA21P482
WA20-04-3004	WA21P480
WA20-04-3005	WA22P101
WA20-04-3006	550010
WA20-04-3007	WA378395
WA20-04-3008	WA4P147
WA20-04-3009	WA379323-1
WA20-04-3010	WA28P244
WA20-04-3011	WA380057-1
WA20-04-3012	WA28P178
WA20-04-3013	WA37P39
WA20-04-3014	WA3P832
WA20-04-3015	WA3P831
WA20-04-3016	WA2P458
WA20-04-3017	WA14P49
WA20-04-3018	WA379746
WA20-04-3019	560972
WA20-04-3020	WA31P70
WA20-04-3021	WA9P91
WA20-04-3023	WA329463-12X
WA20-04-3024	WA379486
WA20-04-3025	WA379486-1
WA20-04-3026	WA379486-2
WA20-04-3027	WA34P143
WA20-04-3028	WA22P112
WA20-04-3029	WA28P119
WA20-04-3030	WA378811
WA20-04-3031	WA378849
WA20-04-3032	WA1P603
WA20-04-3033	WA28P171
WA20-04-3034	WA379242
WA20-04-3035	WA379231
WA20-04-3036	WA380123-12
WA20-04-3037	WA379000
WA20-04-3038	WA379001
WA20-04-3039	WA380012
WA20-04-3043	WA14P79-1
WA20-04-3044	WA14P79-2
WA20-04-3045	WA14P79-3
WA20-04-3046	WA14P79-4
WA20-04-3047	WA329005-1X
WA20-04-3048	WA5P912

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-04-3049	WA2P688
WA20-04-3050	WA329005-2X
WA20-04-3051	WA5P913
WA20-04-3052	WA2P684
WA20-04-3053	WA329005-3X
WA20-04-3054	WA5P914
WA20-04-3055	WA2P683
WA20-04-3056	WA329005-4X
WA20-04-3057	WA5P915
WA20-04-3058	WA2P682
WA20-04-3059	WA329071-7X
WA20-04-3060	WA329006-1X
WA20-04-3061	WA329006-8X
WA20-04-3062	WA329071-19X
WA20-04-3063	WA329071-36X
WA20-04-3064	WA7170-86X
WA20-04-3070	WA329130-2X
WA20-04-3071	WA329130-5X
WA20-04-3072	WA329075-2X
WA20-04-3073	WA329130-4X
WA20-04-3074	WA329130-1X
WA20-04-3075	WA379502
WA20-04-3076	WA379504
WA20-06-5000	WA244XQAHX-V3XK
WA20-06-5001	WA244GQAHX-S3XK
WA20-06-5002	WA244XFAHX-W6XK
WA20-06-5003	WA244XQAHX-S3XK
WA20-06-5004	WA244XRAHX-W3XK
WA20-06-5005	WA244GFAHX-V3XD
WA20-06-5006	WA244ZLDAX-V5XK
WA20-06-5007	WA244XQESX-A3XK
WA20-06-5008	WA244XQAHX-W3XK
WA20-06-5009	WA244XLAHX-V3XK
WA20-06-5010	WA244XLAHX-A3XK
WA20-06-5011	WA244GBHVX-V5XK
WA20-06-5012	WA244GFAHX-V3XK
WA20-06-5013	WA244GFAHX-W3XD
WA20-06-5014	WA244GLAHX-A3XK
WA20-06-5015	WA244GLAHX-V3XD
WA20-06-5016	WA244GLAHX-V3XK
WA20-06-5017	WA244GQJCX-V3XK
WA20-06-5018	WA244GRJAX-V5XK
WA20-06-5019	WA244KSBQX-W5XK
WA20-06-5020	WA244KUAPX-W5XD
WA20-06-5021	WA244XFAHX-V3XD
WA20-06-5022	WA244XFAHX-V3XK
WA20-06-5023	WA244XFAHX-W3XD
WA20-06-5024	WA244XLHYX-W5XD
WA20-06-5025	WA244XLKXX-W5XD
WA20-06-5026	WA244XQABX-A3XD
WA20-06-5027	WA244XQABX-V3XD
WA20-06-5028	WA244XQAHX-A3XD
WA20-06-5029	WA244XQAHX-A3XK

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-06-5030	WA244XRAHX-A3XD
WA20-06-5031	WA244XRAHX-A3XK
WA20-06-5032	WA244XRAHX-V3XD
WA20-06-5033	WA244XRAHX-V3XK
WA20-06-5034	WA244XRAHX-W3XD
WA20-06-5035	WA244XRARX-A5XD
WA20-06-5036	WA244XRARX-V5XD
WA20-06-5037	WA244XRBRQX-W4XD
WA20-06-5038	WA244XRESX-A3XK
WA20-06-5039	WA244XRESX-V3XK
WA20-06-5040	WA244XRJAX-V5XK
WA20-06-5041	WA244XSBQX-V5XD
WA20-06-5042	WA244XSESX-A3XD
WA20-06-5043	WA244XSESX-A3XK
WA20-06-5044	WA244XSESX-T3XK
WA20-06-5045	WA244XSESX-V3XD
WA20-06-5046	WA244XSESX-V3XK
WA20-06-5047	WA244XSESX-V5XK
WA20-06-5048	WA244XSESX-W3XD
WA20-06-5049	WA244XSESX-W5XK
WA20-06-5050	WA244XSFNX-A5XK
WA20-06-5051	WA244XSFNX-V5XK
WA20-06-5052	WA244XSHYX-W5XD
WA20-06-5053	WA244XSKXX-V5XD
WA20-06-5054	WA244XUAHX-V6XK
WA20-06-5055	WA244XUAHX-W3XD
WA20-06-5056	WA244XUAHX-W6XK
WA20-06-5057	WA244XUAPX-W5XK
WA20-06-5058	WA244XUESX-W3XK
WA20-06-5059	WA244XUESX-W5XD
WA20-06-5060	WA244XUEWX-W3XD
WA20-06-5061	WA244XWAHX-T3XK
WA20-06-5062	WA244XWAHX-V3XK
WA20-06-5063	WA244XWAHX-V6XK
WA20-06-5064	WA244XWAHX-W6XD
WA20-06-5065	WA244XWAHX-W6XK
WA20-06-5066	WA244XWBQX-W5XK
WA20-06-5067	WA244XWESX-A3XD
WA20-06-5068	WA244XWESX-V3XD
WA20-06-5069	WA244XWESX-W5XD
WA20-06-5070	WA244XWKXX-W5XD
WA20-06-5071	WA244ZFAHX-A3XK
WA20-06-5072	WA244ZLDAX-A3XK
WA20-06-5073	WA244ZLDAX-V3XK
WA20-06-5074	WA244ZQFNX-A5XK
WA20-06-5075	WA244ZQFNX-V5XK
WA20-06-5076	WA244ZWJ BX-W4XK
WA20-06-5077	WA244XLAHX-V3XD
WA20-06-5078	WA244ZFAHX-V3XK
WA20-06-5079	WA244XRFNX-W5XK
WA20-06-5080	WA244GQJAX-A5XK
WA20-06-5081	WA244ZSAPX-W5XD
WA20-06-5082	WA244XFAHX-A3XK

INTERCHANGE

INTERCHANGE: NEW WORLD AMERICAN TO OLD WORLD AMERICAN

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-06-5083	WA244XSAPX-W5XD
WA20-06-5084	WA244ZWFNX-W5XD
WA20-06-5086	WA244XWEWX-W3XK
WA20-06-5087	WA244XWFNX-V5XD
WA20-06-5088	WA244XSHYX-W5XK
WA20-06-5089	WA244XQARX-A3XD
WA20-06-5090	WA244XQESX-V3XK
WA20-06-5091	WA244XQARX-V3XD
WA20-06-5092	WA244XUESX-V3XK
WA20-06-5093	WA244XLDUX-V3XK
WA20-06-5094	WA244ZSFNX-W3XK
WA20-06-5095	WA244ZLDAX-T3XK
WA20-06-5096	WA244XQESX-A3XD
WA20-06-5097	WA244XQARX-V5XD
WA20-06-5099	WA244ZSFNX-V3XK
WA20-06-5100	WA244ZSFNX-A3XK
WA20-06-5101	WA244XRJKX-V5XK
WA20-06-5102	WA244XRJKX-A5XK
WA20-06-5103	WA244XSGSX-W5XK
WA20-06-5104	WA244XQAHX-W3XD
WA20-06-5105	WA244XQAHX-V3XD
WA20-06-5107	WA244XSAHX-A3XK
WA20-06-5108	WA244XSAHX-V3XD
WA20-06-5109	WA244XSAHX-A3XD
WA20-06-5110	WA244XSFNX-W3XK
WA20-06-5111	WA244ZRDX-V3XK
WA20-06-5112	WA244XLAHX-S3XK
WA20-06-5113	WA244ZLDAX-A3XD
WA20-06-5114	WA244ZLDAX-V3XD
WA20-06-5115	WA244ZFDAX-V3XK
WA20-06-5116	WA244ZFDAX-A3XK
WA20-06-5117	WA244ZQAHX-V3XK
WA20-06-5118	WA244ZQAHX-A3XK
WA20-06-5119	WA244XSESX-W5XD
WA20-06-5120	WA244ZSDAX-V3XD
WA20-06-5121	WA244ZSDAX-A3XD
WA20-06-5122	WA244XUAHX-V3XD
WA20-06-5123	WA244XUAHX-A3XD
WA20-06-5124	WA244XFAHX-A3XD
WA20-06-5125	WA244XQAHX-V5XK
WA20-06-5126	WA244XQAHX-A5XK
WA20-06-5127	WA244XWFNX-V3XK
WA20-06-5128	WA244XWFNX-A3XK
WA20-06-5129	WA244XSAPX-W3XK
WA20-06-5130	WA244XLAHX-A3XD
WA20-06-5131	WA244XUBMX-V3XK
WA20-06-5132	WA244XUBMX-A3XK
WA20-06-5133	WA244XUBMX-V3XD
WA20-06-5134	WA244XUBMX-A3XD
WA20-06-5135	WA244XFAHX-S3XK
WA20-06-5136	WA244ZFDAX-S3XK
WA20-06-5137	WA244XSAPX-W5XK
WA20-06-5138	WA244ZLAPX-W5XD

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-06-5139	WA244GFAHX-A3XD
WA20-06-5140	WA244XFAHX-T3XD
WA20-06-5141	WA244XQESX-S3XK
WA20-06-5142	WA244XSESX-W3XK
WA20-06-5143	WA244ZSFNX-W5XK
WA20-06-5144	WA244ZXFNX-W5XD
WA20-06-5145	WA244GQAHX-V3XD
WA20-06-5146	WA244ZQAHX-W3XD
WA20-06-5147	WA244ZSAHX-W3XK
WA20-06-5148	WA244XUAHX-V5XD
WA20-06-5149	WA244XFAHX-W3XK
WA20-06-5150	WA244XQFCX-W5XD
WA20-06-5151	WA244XSBSX-W3XD
WA20-06-5152	WA244XSFNX-A3XK
WA20-06-5153	WA244XLAHX-S3XD
WA20-06-5154	WA244XWBMX-W3XK
WA20-06-5155	WA244XLFNX-V5XD
WA20-06-5156	WA244XJWX-S5XD
WA20-06-5157	WA244XRHYX-W5XD
WA20-06-5158	WA244XUESX-A5XK
WA20-06-5159	WA244XUESX-A3XD
WA20-06-5160	WA244ZUFNX-W5XK
WA20-06-5161	WA442XRBGX-V5XK
WA20-06-5162	WA442XRBGX-V3XK
WA20-06-5163	WA244XUAPX-V5XK
WA20-06-5164	WA244XUAPX-V3XK
WA20-06-5165	WA244XXAXX-V6XK
WA20-06-5166	WA244XSBMX-V5XK
WA20-06-5167	WA244ZWFNX-V5XK
WA20-06-5168	WA244ZWFNX-V3XK
WA20-06-5169	WA244XWJKX-A5XK
WA20-06-5170	WA244XUFNX-S3XK
WA20-06-5171	WA244XSAHX-A4XK
WA20-06-5172	WA244XSEVX-W5XD
WA20-06-5173	WA244XARX-A6XK
WA20-06-5174	WA244XHYX-W5XD
WA20-06-5175	WA244XSBMX-S3XK
WA20-06-5176	WA244XSBMX-S3XD
WA20-06-5177	WA244ZSFNX-S3XK
WA20-06-5178	WA244ZSFNX-S3XD
WA20-06-5180	WA244XUAPX-W3XK
WA20-06-5181	WA244XSBGX-W5XD
WA20-06-5182	WA244XSAXX-W6XD
WA20-06-5183	WA244XSBMX-W3XD
WA20-06-5184	WA244GQAHX-A3XD
WA20-06-5185	WA244ZSFNX-A3XD
WA20-06-5186	WA244XWAPN-W5XK
WA20-06-5187	WA244XUJKX-V5XK
WA20-06-5188	WA244XUBMX-W3XD
WA20-06-5189	WA244ZRFNX-V3XK
WA20-06-5190	WA244XWAPN-W3XD
WA20-06-5191	WA244XLAHX-W3XD
WA20-06-5192	WA244ZSFNX-V5XK

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-06-5193	WA244X7FCX-W3XK
WA20-06-5194	WA244XQESX-W3XD
WA20-06-5195	WA244XRFCX-W3XK
WA20-06-5196	WA244XUAHX-A5XK
WA20-06-5197	WA244ZWFNX-A5XK
WA20-06-5198	WA244ZSCBX-W3XK
WA20-06-5199	WA244XRJKX-S5XK
WA20-06-5200	WA244XLAHX-V5XK
WA20-06-5201	WA244XUDMX-W3XK
WA20-06-5202	WA244XWEWX-W3XD
WA20-06-5203	WA244ZWFNX-W3XD
WA20-06-5204	WA244LSFNX-A5XK
WA20-06-5205	WA244XUBMX-W3XK
WA20-06-5206	WA244ZSAHX-V3XD
WA20-06-5207	WA244XESX-W3XK
WA20-06-5208	WA244ZQDAX-A3XD
WA20-06-5209	WA244GSAHX-A3XD
WA20-06-5210	WA244XRESX-W3XD
WA20-06-5211	WA244XLESX-W3XK
WA20-06-5212	WA244XSBGX-W5XK
WA20-06-5213	WA244ZQAHX-W6XK
WA20-06-5214	WA244ZQAHX-A3XD
WA20-06-5215	WA244XUEDX-W3XK
WA20-06-5216	WA244XUJKX-V3XK
WA20-06-5217	WA244XUDMX-W3XD
WA20-06-5218	WA244ZFDAX-V3XD
WA20-06-5219	WA244XSBSX-W3XK
WA20-06-5220	WA244XUESX-W3XD
WA20-06-5221	WA244ZLDAX-S3XK
WA20-06-5222	WA244ZFDAX-W3XK
WA20-06-5223	WA244GBHGX-W5XK
WA20-06-5224	WA244XQESX-A5XD
WA20-06-5225	WA442ZQDAX-V3XK
WA20-06-5226	WA244GBHGX-A3XK
WA20-06-5227	WA244XLESX-A5XK
WA20-06-5228	WA244XQAHX-W6XD
WA20-06-5229	WA244GQAHX-W3XK
WA20-06-5230	WA244XWFCX-W5XK
WA20-06-5231	WA244XSJWX-W5XK
WA20-06-5232	WA442XSAHX-V3XK
WA20-06-5233	WA244ZSAHX-A3XK
WA20-06-5234	WA244XSESX-A5XD
WA20-06-5235	WA244XSEWX-W3XK
WA20-06-5236	WA244XWESX-W3XD
WA20-06-5237	WA244ZJWX-W5XD
WA20-06-5238	WA244XQEWX-W3XK
WA20-06-5239	WA244XSESX-A5XK
WA20-06-5240	WA244XUJKX-A5XK
WA20-06-5241	WA244XQAHX-V4XK
WA20-06-5242	WA244XQABX-V5XK
WA20-06-5243	WA244XWEWX-V3XK
WA20-06-5244	WA244XQESX-A5XK
WA20-06-5245	WA244XDUX-V3XK

INTERCHANGE

INTERCHANGE: NEW WORLD AMERICAN TO OLD WORLD AMERICAN

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-06-5246	WA244XSDAX-V3XK
WA20-06-5247	WA244XREWX-W5XD
WA20-06-5248	WA244XSJWX-V5XK
WA20-06-5249	WA244XWFCX-W3XD
WA20-06-5250	WA244XLJKX-A5XD
WA20-06-5251	WA244XSGSX-W5XD
WA20-06-5252	WA244XZUFNX-A5XK
WA20-06-5253	WA442XWEWX-W5XD
WA20-06-5254	WA244ZWVZX-W4XK
WA20-06-5255	WA244XUDUX-V3XD
WA20-06-5256	WA244ZFDAX-CRFRM
WA20-06-5257	WA244XEWX-V3XD
WA20-06-5259	WA244XQEDX-W5XD
WA20-06-5260	WA244XUESX-V5XK
WA20-06-5261	WA244GSAHX-V3XY
WA20-06-5262	WA244XQJX-A5XK
WA20-06-5263	WA244ZRAHX-A3XK
WA20-06-5264	WA244XWESX-V5XK
WA20-06-5265	WA244XUBCX-A3XK
WA20-06-5266	WA244XWAHX-V3XD
WA20-06-5267	WA244XUBCX-W3XD
WA20-06-5268	WA244XUJX-A5XD
WA20-06-5269	WA244XQAHX-A6XD
WA20-06-5270	WA244XQABX-V3XK
WA20-06-5271	WA244KSBGX-V5XD
WA20-06-5272	WA244GBHX-A5XK
WA20-06-5273	WA244XAAHX-A3XD
WA20-06-5274	WA244XRESX-W5XD
WA20-06-5275	WA244XLAHX-W5XK
WA20-06-5276	WA244ZUDAX-V3XD
WA20-06-5277	WA244XEWX-V5XK
WA20-06-5278	WA244GFAHX-S3XK
WA20-06-5279	WA244XREVX-V3XD
WA20-06-5280	WA244XLDAX-V5XD
WA20-06-5281	WA244XRESX-W5XK
WA20-06-5282	WA244XSESX-S5XK
WA20-06-5283	WA244GFAHX-A5XD
WA20-06-5284	WA244GLAHX-A3XD
WA20-06-5285	WA244XLESX-V5XK
WA20-06-5286	WA244ZUDHX-W3XK
WA20-06-5287	WA244XWDUX-V5XK
WA20-06-5288	WA244XUFCX-W5XD
WA20-06-5289	WA244XRJX-A3XD
WA20-06-5290	WA244XUKXX-W5XK
WA20-06-5291	WA244GBHX-W3XK
WA20-06-5292	WA244XFDAX-W5XD
WA20-06-5293	WA244XSJWX-A5XK
WA20-06-5294	WA244XSJWX-V5XD
WA20-06-5295	WA244XRBGX-W5XD
WA20-06-5296	WA244ZRFNX-A5XK
WA20-06-5297	WA244ZSJX-V5XK
WA20-06-5298	WA244XWAHX-V5XK
WA20-06-5299	WA244XLSGX-W3XD

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-06-5300	WA244XBZX-W4XD
WA20-06-5301	WA244XSGSX-W3XD
WA20-06-5302	WA244XSJKX-A5XK
WA20-08-7000	WA984XFAHX-V3XK
WA20-08-7001	WA984XLAHX-V3XK
WA20-08-7002	WA984XLAHX-V3XD
WA20-08-7003	WA984XFAHX-V5XK
WA20-08-7004	WA984XFAHX-V3XD
WA20-08-7005	WA984XQAHX-V3XK
WA20-08-7006	WA984XQAHX-V3XD
WA20-08-7007	WA984XFAHX-V5XD
WA20-08-7008	WA984XFAHX-A3XK
WA20-08-7009	WA984GQAHX-V3XD
WA20-08-7010	WA984XQAHX-W3XD
WA20-08-7011	WA984GLAHX-A3XD
WA20-08-7012	WA984XLAHX-V5XK
WA20-08-7014	WA984XLAHX-S3XK
WA20-08-7015	WA984XLAHX-A3XK
WA20-08-7016	WA984GFAHX-A3XK
WA20-08-7017	WA984XQAHX-A3XK
WA20-08-7018	WA984XQAHX-A3XD
WA20-08-7019	WA984XSAHX-A3XK
WA20-08-7020	WA984XSAHX-V3XD
WA20-08-7021	WA984GQAHX-A3XD
WA20-08-7022	WA984XLAHX-W3XD
WA20-08-7023	WA984XRAHX-W3XD
WA20-08-7025	WA984GFAHX-V3XD
WA20-08-7026	WA984XQAHX-V5XD
WA20-08-7027	WA984XQAHX-V5XK
WA20-08-7028	WA984XQAHX-W3XK
WA20-08-7029	WA984XFAHX-A3XD
WA20-08-7030	WA984GFAHX-V3XK
WA20-08-7031	WA984XFAHX-V3XY
WA20-08-7032	WA984XLAHX-T3XK
WA20-08-7033	WA984XQAHX-A5XD
WA20-08-7034	WA984XRAHX-A3XD
WA20-08-7035	WA984XSAHX-A3XD
WA20-08-7036	WA984GLAHX-V3XK
WA20-08-7037	WA984GQAHX-A3XK
WA20-08-7038	WA984GRAHX-V3XK
WA20-08-7039	WA984GSAHX-V3XK
WA20-08-7040	WA984XQAHX-A5XK
WA20-08-7041	WA984XRAHX-W3XK
WA20-08-7042	WA984XLAHX-A3XD
WA20-08-7043	WA984GFAHX-A3XD
WA20-08-7044	WA984GFAHX-A5XK
WA20-08-7045	WA984GFAHX-S3XK
WA20-08-7046	WA984GLAHX-A3XK
WA20-08-7047	WA984GLAHX-A5XK
WA20-08-7048	WA984GLAHX-V5XK
WA20-08-7049	WA984GQAHX-V3XK
WA20-08-7050	WA984GRAHX-A3XD
WA20-08-7051	WA984GRAHX-A3XK

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-08-7052	WA984XFAHX-A5XK
WA20-08-7053	WA984XFAHX-S3XK
WA20-08-7054	WA984XFAHX-S5XK
WA20-08-7055	WA984XFAHX-T3XK
WA20-08-7056	WA984XFAHX-T5XK
WA20-08-7057	WA984XFAHX-V3AF
WA20-08-7058	WA984XLAHX-W3XK
WA20-08-7059	WA984XLDAX-A5XK
WA20-08-7060	WA984XLDAX-V5XK
WA20-08-7061	WA984XQAHX-S3XK
WA20-08-7062	WA984XQARX-A3XK
WA20-08-7063	WA984XQARX-V3XK
WA20-08-7064	WA984XQEVX-A5XK
WA20-08-7065	WA984XRAHX-A3XK
WA20-08-7066	WA984XRAHX-A5XK
WA20-08-7067	WA984XRAHX-V3XD
WA20-08-7068	WA984XRAHX-V3XK
WA20-08-7069	WA984XREVX-V5XK
WA20-08-7070	WA984XSAHX-V3XK
WA20-08-7071	WA984XSAHX-W3XK
WA20-08-7072	WA984XSEVX-T5XK
WA20-08-7073	WA984XSEVX-V5XK
WA20-08-7074	WA984ZFAHX-V3XK
WA20-08-7075	WA984ZFDAX-A5XD
WA20-08-7076	WA984ZFDAX-A5XK
WA20-08-7077	WA984ZFDAX-V5XD
WA20-08-7078	WA984ZFDAX-V5XK
WA20-08-7079	WA984ZLDAX-A5XK
WA20-08-7080	WA984ZLDAX-T5XK
WA20-08-7081	WA984ZLDAX-V5XK
WA20-08-7082	WA984ZRDX-V5XD
WA20-08-7083	WA984ZSDAX-A5XD
WA20-08-7084	WA984ZSDAX-V5XD
WA20-08-7085	WA984ZRDX-V5XK
WA20-08-7086	WA984XFAHX-S3XD
WA20-08-7087	WA984GSAHX-A3XK
WA20-08-7088	WA984GFAHX-V5XK
WA20-08-7089	WA984XLAHX-A5XK
WA20-08-7090	WA984XRAHX-V5XK
WA20-08-7091	WA984ZLDAX-V5XD
WA20-08-7092	WA984ZLDAX-A5XD
WA20-08-7093	WA984GQAHX-V5XK
WA20-08-7094	WA984ZSAHX-V3XK
WA20-08-7095	WA984XUDAX-V3XK
WA20-08-7096	WA984XUDAX-A3XK
WA20-08-7097	WA984XUBGX-W3XD
WA20-08-7098	WA984XRBGX-W3XK
WA20-08-7099	WA984XRBGX-W3XD
WA20-08-7100	WA984XREVX-T5XK
WA20-08-7101	WA984XLAHX-V6XK
WA20-08-7102	WA984GSAHX-V3XD
WA20-08-7103	WA984GLAHX-W3XD
WA20-08-7104	WA984GFAHX-W3XK

INTERCHANGE

INTERCHANGE: NEW WORLD AMERICAN TO OLD WORLD AMERICAN

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-08-7105	WA984XUAHX-A3XD
WA20-08-7106	WA984GWAHX-A3XD
WA20-08-7107	WA984GSAHX-A3XD
WA20-08-7108	WA984GUAHX-A3XD
WA20-08-7109	WA984XFAHX-A3AF
WA20-08-7110	WA984ZQDAX-A5XK
WA20-08-7111	WA984XXAHX-A3XD
WA20-08-7112	WA984XLABX-A3XK
WA20-08-7113	WA984XQAHX-V6XK
WA20-08-7114	WA984XLAHX-V3AF
WA20-08-7115	WA984XUARX-W3XD
WA20-08-7116	WA984XRAHX-V6XK
WA20-08-7117	WA984GFAHX-A5XD
WA20-08-7118	WA984XFAHX-A6XK
WA20-08-7119	WA984XLAHX-A3AF
WA20-08-7120	WA984ZQDAX-V5XK
WA20-08-7121	WA984GSAHX-A5XD
WA20-08-7122	WA984XSAHX-A5XD
WA20-08-7123	WA984XLAHX-A3AZ
WA20-08-7124	WA984XQAHX-A3AF
WA20-08-7125	WA984GLAHX-S3XK
WA20-08-7126	WA984XHDAX-A3XD
WA20-08-7127	WA984GRAHX-V3XD
WA20-08-7128	WA489GUAHX-V3XK
WA20-08-7129	WA489ZLDAX-S5XK
WA20-08-7130	WA984XLDAX-V5XY
WA20-08-7131	WA984ZQDAX-V5XD
WA20-08-7132	WA984GFAHX-V5XD
WA20-08-7133	WA984XUAHX-V3XD
WA20-08-7134	WA984XLAHX-V5XD
WA20-08-7135	WA984XUBGX-V3XK
WA20-08-7136	WA984ZFDAX-A6XK
WA20-08-7137	WA984GXAHX-A3XD
WA20-08-7138	WA984XAAHX-V3XD
WA20-08-7139	WA984XLAHX-A4XK
WA20-08-7140	WA984XRAHX-V5XD
WA20-08-7141	WA984XRAHX-W6XD
WA20-08-7143	WA984GUAHX-V3XD
WA20-08-7146	WA984GQAHX-A5XD
WA20-08-7148	WA984XQAHX-V3AF
WA20-08-7149	WA984XSAHX-V3AF
WA20-08-7150	WA984XQAHX-W6XD
WA20-08-7151	WA984XLAHX-V5AF
WA20-08-7152	WA984GQAHX-S3XK
WA20-08-7153	WA984XWAHX-A3XD
WA20-08-7154	WA984GFAHX-V3AF
WA20-08-7155	WA984XWAHX-V5XK
WA20-08-7156	WA984ZLDAX-V5XY
WA20-08-7157	WA984ZRDX-A5XK
WA20-08-7158	WA984XUAHX-V3XK
WA20-08-7159	WA984GLAHX-V3XD
WA20-08-7160	WA984XSAHX-W6XD
WA20-08-7161	WA984XSAHX-V6XK

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-08-7162	WA984GSAHX-V5XD
WA20-08-7163	WA984XLAHX-A5XD
WA20-08-7164	WA984XLAHX-V6XD
WA20-10-9001	WA772XBFJP-B5XK
WA20-10-9002	WA772XDFJP-B5XK
WA20-10-9003	WA772XGFJP-B5XK
WA20-10-9004	WA772XMFJP-B5XK
WA20-10-9005	WA772XBFJP-B5XD
WA20-10-9006	WA772XDFJP-B5XD
WA20-10-9007	WA772XGFJP-B5XD
WA20-10-9008	WA772XMFJP-B5XD
WA20-12-0001	WA3912681493
WA20-12-0002	WA3912883096
WA20-12-0003	WA3145039201
WA20-12-0004	WA31429X640
WA20-12-0008	WA3913283052
WA20-12-0009	WA20-PLUG-020
WA20-12-0010	WA3559001067
WA20-12-0013	WA3912688003
WA20-12-0014	WA3913782126
WA20-12-0015	WA3912883147
WA20-12-0016	WA3140100003
WA20-12-0017	WA3913788002
WA20-12-0018	WA3913581383
WA20-12-0019	WA3910282009
WA20-12-0020	WA3912583079
WA20-12-0021	WA3144000001
WA20-12-0022	WA3912085009
WA20-12-0023	WA3910981010
WA20-12-0024	WA3911402063
WA20-12-0025	WA3911881073
WA20-20-0100	WA391-2686-063
WA20-20-0102	WA391-0381-040
WA20-20-0103	WA391-3381-040
WA20-20-0104	WA3912883107
WA20-20-0105	WA3912883126
WA20-20-0106	WA3912883058
WA20-20-0107	WA3912883119
WA20-20-0117	WA3085030401
WA20-20-0118	WA3085053402
WA20-20-0119	WA391-2585-006
WA20-20-0119	WA3085020404
WA20-20-0120	WA391-0381-068
WA20-20-0120	WA3085020401
WA20-20-0122	WA3913681001
WA20-20-0122	WA391-2185-013
WA20-20-0123	WA3912286004
WA20-20-0127	WA3912882086
WA20-20-0128	WA3912884019
WA20-20-0130	WA3087300100
WA20-20-0131	WA3087363100
WA20-20-0132	WA3121133001
WA20-20-0133	WA3083100100

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-20-0134	WA3913782146
WA20-20-0136	WA3121135192
WA20-20-0137	WA3121135133
WA20-20-0138	WA3121135138
WA20-20-0139	WA3121500400
WA20-20-0141	WA3121135152
WA20-20-0143	WA3121000200
WA20-20-0144	WA3912685011
WA20-20-0145	WA3120100002
WA20-20-0150	WA3911451115
WA20-20-0162	WA391-1781-021
WA20-25-0001	WA303-7300-100
WA20-25-0002	WA303-3100-100
WA20-25-0004	WA303-5021-403
WA20-25-0005	WA303-5022-202
WA20-25-0006	WA303-5021-204
WA20-25-0007	WA303-5037-401
WA20-25-0008	WA303-5022-201
WA20-25-0011	WA303-5011-202
WA20-25-0013	WA303-5043-202
WA20-25-0015	WA303-2805-000
WA20-25-0016	WA303-2807-000
WA20-25-0017	WA303-2810-000
WA20-25-0018	WA303-2812-000
WA20-25-0019	WA303-2815-000
WA20-25-0020	WA303-2817-000
WA20-25-0021	WA303-2820-000
WA20-25-0022	WA303-2822-000
WA20-25-0023	WA303-2825-000
WA20-25-0025	WA303-1135-049
WA20-25-0027	WA303-1135-028
WA20-25-0029	WA303-1135-021
WA20-25-0030	WA303-1135-023
WA20-31-0002	WA312-5057-401
WA20-31-0003	WA312-5027-404
WA20-31-0004	WA312-5027-401
WA20-31-0005	WA20-30-0300
WA20-31-0006	WA312-5037-401
WA20-31-0007	WA312-5037-402
WA20-31-0008	WA312-5017-401
WA20-31-0009	WA312-5047-401
WA20-31-0010	WA312-5029-210
WA20-31-0011	WA312-5027-209
WA20-31-0013	WA312-8205-100
WA20-31-0014	WA312-8207-100
WA20-37-0001	WA305-8005-100
WA20-37-0002	WA305-8007-100
WA20-37-0003	WA305-8010-100
WA20-37-0004	WA305-8012-100
WA20-37-0005	WA305-8015-100
WA20-51-0121	WA391-0381-059
WA20-51-0122	WA391-2082-032
WA20-51-0200	WA3912686065

INTERCHANGE

INTERCHANGE: NEW WORLD AMERICAN TO OLD WORLD AMERICAN

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-51-0201	WA3913383087
WA20-51-0202	WA3910381077
WA20-51-0203	WA3913383020
WA20-51-0204	WA3912883103
WA20-51-0205	WA3912883115
WA20-51-0217	WA3135017401
WA20-51-0218	WA3135037401
WA20-51-0219	WA3135037402
WA20-51-0220	WA3135027401
WA20-51-0221	WA3135027402
WA20-51-0224	WA3912585009
WA20-51-0225	WA3912882050
WA20-51-0227	WA3912185012
WA20-51-0228	WA3137740100
WA20-51-0230	WA3912884021
WA20-51-0238	WA3913784028
WA20-51-0275	WA391-1401-025
WA20-51-0277	WA391-1401-089
WA20-51-5800	WA3911451076
WA20-LS-2000	WA101-1001
WA20-LS-2001	WA101-1002
WA20-LS-2002	WA101-1003
WA20-LS-2003	WA101-1005
WA20-LS-2004	WA101-1006
WA20-LS-2005	WA101-1008
WA20-LS-2006	WA101-1013

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-LS-2007	WA101-1026
WA20-LS-2008	WA101-1027
WA20-LS-2009	WA101-1028
WA20-LS-2010	WA101-1030
WA20-LS-2011	WA101-1032
WA20-LS-2012	WA101-1033
WA20-LS-2013	WA101-1037
WA20-LS-2014	WA101-1060
WA20-LS-2015	WA101-1314
WA20-LS-2016	WA103-1002
WA20-LS-2017	WA103-1008
WA20-LS-2018	WA103-1014
WA20-LS-2019	WA103-1037
WA20-LS-2020	WA103-1040
WA20-LS-2021	WA103-1540
WA20-LS-2022	WA104-1003
WA20-LS-2023	WA104-1038
WA20-LS-2024	WA104-1062
WA20-LS-2025	WA104-1228
WA20-LS-2026	WA109-1056
WA20-LS-2027	WA109-1101
WA20-LS-2028	WA109-1104
WA20-LS-2029	WA112-1069
WA20-LS-2030	WA119-1031
WA20-LS-2031	WA101-1016
WA20-LS-2033	WA104-1001

NEW WORLD AMERICAN #	OLD WORLD AMERICAN #
WA20-LS-2035	WAYMSY160E2S1SB
WA20-LS-2040	WA104-1002
WA20-LS-2041	WA104-1039
WA20-LS-2043	WA104-1034
WA20-LS-2044	WA104-1024
WA20-LS-2046	WA104-1019
WA20-LS-2047	WA104-1031
WA20-SA-3020	WA391-1873-020
WA6270	WA7-A-270
WAA35S	WAA4535
WAA35U	WA4035
WAA50S	WAA4500
WAA50SS	WAA4500SS
WAA50U	WAA4000
WAA70U	WAA4070
WAFJX-0404	WAPH05F
WAFJX-0404-90	WAPH05F-90
WAMP-1616-W	WAMP1616-W
WAP50U	WAA2000
WAPBK-1001	WA3140100005
WAS35S	WAA3535
WAS50S	WAA3500
WAS50U	WAA3000
WAS70U	WAA3070
WASWK-699	WA600334G

INTERCHANGE: WORLD AMERICAN TO BOM

WORLD AMERICAN #	BOM #
WA20-06-5098	WA06S8QTN-CLFDM
WA20-06-5000	WA06S5LIN-NRFDM
WA20-06-5001	WA06M5LIN-DRFDM
WA20-06-5002	WA06S3LIN-CLRDM
WA20-06-5003	WA06S5LIN-DRFDM
WA20-06-5004	WA06S6LIN-CRFDM
WA20-06-5005	WA06M3LIN-NRFDM
WA20-06-5006	WA06D4PBN-NLFDM
WA20-06-5007	WA06S5QTN-ARFDM
WA20-06-5008	WA06S5LIN-CRFDM
WA20-06-5009	WA06S4LIN-NRFDM
WA20-06-5010	WA06S4LIN-ARFDM
WA20-06-5011	WA06MATWN-NLFDM
WA20-06-5012	WA06M3LIN-NRFDM
WA20-06-5013	WA06M3LIN-CRFDM
WA20-06-5014	WA06M4LIN-ARFDM
WA20-06-5015	WA06M4LIN-NRFDM
WA20-06-5016	WA06M4LIN-NRFDM
WA20-06-5017	WA06M5UDN-NRFDM
WA20-06-5018	WA06M6UBN-NLFDM
WA20-06-5019	WA06B7MRN-CLFDM

WORLD AMERICAN #	BOM #
WA20-06-5020	WA06B8LQN-CLFRM
WA20-06-5021	WA06S3LIN-NRFDM
WA20-06-5022	WA06S3LIN-NRFDM
WA20-06-5023	WA06S3LIN-CRFDM
WA20-06-5024	WA06S4TZN-CLFRM
WA20-06-5025	WA06S4VYN-CLFRM
WA20-06-5026	WA06S5LQN-ARFDM
WA20-06-5027	WA06S5LQN-NRFDM
WA20-06-5028	WA06S5LIN-ARFDM
WA20-06-5029	WA06S5LIN-ARFDM
WA20-06-5030	WA06S6LIN-ARFDM
WA20-06-5031	WA06S6LIN-ARFDM
WA20-06-5032	WA06S6LIN-NRFDM
WA20-06-5033	WA06S6LIN-NRFDM
WA20-06-5034	WA06S6LIN-CRFDM
WA20-06-5035	WA06S6LSN-ALFRM
WA20-06-5036	WA06S6LSN-NLFDM
WA20-06-5037	WA06S6MRN-CRRDM
WA20-06-5038	WA06S6QTN-ARFDM
WA20-06-5039	WA06S6QTN-NRFDM
WA20-06-5040	WA06S6UBN-NLFDM

WORLD AMERICAN #	BOM #
WA20-06-5041	WA06S7MRN-NLFRM
WA20-06-5042	WA06S7QTN-ARFDM
WA20-06-5043	WA06S7QTN-ARFDM
WA20-06-5044	WA06S7QTN-KRFDM
WA20-06-5045	WA06S7QTN-NRFDM
WA20-06-5046	WA06S7QTN-NRFDM
WA20-06-5047	WA06S7QTN-NLFDM
WA20-06-5048	WA06S7QTN-CRFDM
WA20-06-5049	WA06S7QTN-CLFDM
WA20-06-5050	WA06S7RPN-ALFDM
WA20-06-5051	WA06S7RPN-NLFDM
WA20-06-5052	WA06S7TZN-CLFRM
WA20-06-5053	WA06S7VYN-NLFRM
WA20-06-5054	WA06S8LIN-NLFRM
WA20-06-5055	WA06S8LIN-CRFDM
WA20-06-5056	WA06S8LIN-CLRDM
WA20-06-5057	WA06S8LQN-CLFDM
WA20-06-5058	WA06S8QTN-CRFDM
WA20-06-5059	WA06S8QTN-CLFRM
WA20-06-5060	WA06S8QXN-CRFDM
WA20-06-5061	WA06S9LIN-KRFDM

INTERCHANGE

INTERCHANGE: WORLD AMERICAN TO BOM

WORLD AMERICAN #	BOM #
WA20-06-5062	WA06S9LIN-NRFD
WA20-06-5063	WA06S9LIN-NLRDM
WA20-06-5064	WA06S9LIN-CLRRM
WA20-06-5065	WA06S9LIN-CLRDM
WA20-06-5066	WA06S9MRN-CLFDM
WA20-06-5067	WA06S9QTN-ARFRM
WA20-06-5068	WA06S9QTN-NRFRM
WA20-06-5069	WA06S9QTN-CLFRM
WA20-06-5070	WA06S9VYN-CLFRM
WA20-06-5071	WA06D3LIN-ARFDM
WA20-06-5072	WA06D4PBN-ARFDM
WA20-06-5073	WA06D4PBN-NRFD
WA20-06-5074	WA06D5RPN-ALFDM
WA20-06-5075	WA06D5RPN-NLFDM
WA20-06-5076	WA06D9UCN-CRRDM
WA20-06-5077	WA06S4LIN-NRFRM
WA20-06-5078	WA06D3LIN-NRFD
WA20-06-5079	WA06S5RPN-CLFDM
WA20-06-5080	WA06M5UBN-ALFDM
WA20-06-5081	WA06D7LQN-CLFRM
WA20-06-5082	WA06S3LIN-ARFDM
WA20-06-5083	WA06S7LQN-CLFRM
WA20-06-5084	WA06D9RPN-CLFRM
WA20-06-5085	USE WA20-06-5115
WA20-06-5086	WA06S9QXN-CRFD
WA20-06-5087	WA06D9RPN-NLFRM
WA20-06-5088	WA06S7TZN-CLFDM
WA20-06-5089	WA06S5LSN-ARFRM
WA20-06-5090	WA06S5QTN-NRFD
WA20-06-5091	WA06S5LSN-NRFRM
WA20-06-5092	WA06S8QTN-NRFD
WA20-06-5093	WA06S4PVN-NRFD
WA20-06-5094	WA06D7RPN-CRFD
WA20-06-5095	WA06D4PBN-KRFD
WA20-06-5096	WA06S5LSN-ALFRM
WA20-06-5097	WA06S5LSN-NLFRM
WA20-06-5099	WA06D7RPN-NRFD
WA20-06-5100	WA06D7RPN-ARFDM
WA20-06-5101	WA06S6ULN-NLFDM
WA20-06-5102	WA06S6ULN-ALFDM
WA20-06-5103	WA06S7STN-CLFDM
WA20-06-5104	WA06S5LIN-CRFRM
WA20-06-5105	WA06S5LIN-NRFRM
WA20-06-5106	USE WA20-06-5232
WA20-06-5107	WA06S7LIN-ARFDM
WA20-06-5108	WA06S7LIN-NRFRM
WA20-06-5109	WA06S7LIN-ARFRM
WA20-06-5110	WA06S7RPN-CRFD
WA20-06-5111	WA06D6PBN-NRFD
WA20-06-5112	WA06S4LIN-DRFDM
WA20-06-5113	WA06D4PBN-ARFRM
WA20-06-5114	WA06D4PBN-NRFRM
WA20-06-5115	WA06D3PBN-NRFD

WORLD AMERICAN #	BOM #
WA20-06-5116	WA06D3PBN-ARFDM
WA20-06-5117	WA06D5LIN-NRFD
WA20-06-5118	WA06D5LIN-ARFDM
WA20-06-5119	WA06S7QTN-CLFRM
WA20-06-5120	WA06D7PBN-NRFRM
WA20-06-5121	WA06D7PBN-ARFRM
WA20-06-5122	WA06S8LIN-NRFRM
WA20-06-5123	WA06S8LIN-ARFRM
WA20-06-5124	WA06S3LIN-ARFRM
WA20-06-5125	WA06S5LIN-NLFDM
WA20-06-5126	WA06S5LIN-ALFDM
WA20-06-5127	WA06S9RPN-NRFD
WA20-06-5128	WA06S9RPN-ARFDM
WA20-06-5129	WA06S7LQN-CRFD
WA20-06-5130	WA06S4LIN-ARFRM
WA20-06-5131	WA06S9MNN-NRFD
WA20-06-5132	WA06S9MNN-ARFDM
WA20-06-5133	WA06S9MNN-NRFRM
WA20-06-5134	WA06S9MNN-ARFRM
WA20-06-5135	WA06S3LIN-DRFDM
WA20-06-5136	WA06D3PBN-DRFDM
WA20-06-5137	WA06S7LQN-CLFDM
WA20-06-5138	WA06D4RPN-CLFRM
WA20-06-5139	WA06M3LIN-ARFRM
WA20-06-5140	WA06S3LIN-KRFRM
WA20-06-5141	WA06S5QTN-DRFDM
WA20-06-5142	WA06S7QTN-CRFD
WA20-06-5143	WA06D7RPN-CLFDM
WA20-06-5144	WA06D0RPN-CLFRM
WA20-06-5145	WA06M5LIN-NRFRM
WA20-06-5146	WA06D5LIN-CRFRM
WA20-06-5147	WA06D7LIN-CRFD
WA20-06-5148	WA06S8LIN-NLFRM
WA20-06-5149	WA06S3LIN-CRFD
WA20-06-5150	WA06S5GDN-CLFRM
WA20-06-5151	WA06S7MTN-CRFRM
WA20-06-5152	WA06S7RPN-ARFRM
WA20-06-5153	WA06S4LIN-DRFRM
WA20-06-5154	WA06S9MNN-CRFD
WA20-06-5155	WA06S4RPN-NLFRM
WA20-06-5156	WA06S7UXN-DLFRM
WA20-06-5157	WA06S6TZN-CLFRM
WA20-06-5158	WA06S8QTN-ALFDM
WA20-06-5159	WA06S8QTN-ARFRM
WA20-06-5160	WA06D8RPN-CLFDM
WA20-06-5161	WA06S6MHN-NLFDM
WA20-06-5162	WA06S6MHN-NRFD
WA20-06-5163	WA06S8LQN-NLFDM
WA20-06-5164	WA06S8LQN-NRFD
WA20-06-5165	WA06S0LYN-NLFDM
WA20-06-5166	WA06S7MNN-NLFDM
WA20-06-5167	WA06D9RPN-NLFDM
WA20-06-5168	WA06D9RPN-NRFD

WORLD AMERICAN #	BOM #
WA20-06-5169	WA06S9ULN-ALFDM
WA20-06-5170	WA06S8RPN-DRFDM
WA20-06-5171	WA06S7LIN-ARRDM
WA20-06-5172	WA06S7QWN-CLFRM
WA20-06-5173	WA06S0LSN-ALRDM
WA20-06-5174	WA06S0TZN-CLFRM
WA20-06-5175	WA06S7MNN-DRFDM
WA20-06-5176	WA06S7MNN-DRFRM
WA20-06-5177	WA06D7RPN-DRFDM
WA20-06-5178	WA06D7RPN-DRFRM
WA20-06-5180	WA06S8LQN-CRFD
WA20-06-5181	WA06S7MHN-CLFRM
WA20-06-5182	WA06S7LYN-CLRRM
WA20-06-5183	WA06S7MNN-CRFRM
WA20-06-5184	WA06M5LIN-ARFRM
WA20-06-5185	WA06D7RPN-ARFRM
WA20-06-5186	WA06S9LQN-CLFDM
WA20-06-5187	WA06S8ULN-NLFDM
WA20-06-5188	WA06S8MNN-CRFRM
WA20-06-5189	WA06D6RPN-NRFD
WA20-06-5190	WA06S9LQN-CRFRM
WA20-06-5191	WA06S4LIN-CRFRM
WA20-06-5192	WA06D7RPN-NLFDM
WA20-06-5193	WA06S8GDN-CRFD
WA20-06-5194	WA06S5QTN-CRFRM
WA20-06-5195	WA06S6GDN-CRFD
WA20-06-5196	WA06S8LIN-ALFDM
WA20-06-5197	WA06D9RPN-ALFDM
WA20-06-5198	WA06D7NBN-CRFD
WA20-06-5199	WA06S6ULN-DLFD
WA20-06-5200	WA06S4LIN-NLFDM
WA20-06-5201	WA06S8PNN-CRFD
WA20-06-5202	WA06S9QXN-CRFRM
WA20-06-5203	WA06D9RPN-CRFRM
WA20-06-5204	WA06A7RPN-ALFDM
WA20-06-5205	WA06S8MNN-CRFD
WA20-06-5206	WA06D7LIN-NRFRM
WA20-06-5207	WA06S0QTN-CRFD
WA20-06-5208	WA06D5PBN-ARFRM
WA20-06-5209	WA06M7LIN-ARFRM
WA20-06-5210	WA06S6QTN-CRFRM
WA20-06-5211	WA06S4QTN-CRFD
WA20-06-5212	WA06S7MHN-CLFDM
WA20-06-5213	WA06D5LIN-CLRDM
WA20-06-5214	WA06D5LIN-ARFRM
WA20-06-5215	WA06S8QEN-CRFD
WA20-06-5216	WA06S4ULN-NRFD
WA20-06-5217	WA06S8PNN-CRFRM
WA20-06-5218	WA06D3PBN-NRFRM
WA20-06-5219	WA06S7MTN-CRFD
WA20-06-5220	WA06S8QTN-CRFRM
WA20-06-5221	WA06D4PBN-DRFDM
WA20-06-5222	WA06D3PBN-CRFD

INTERCHANGE

INTERCHANGE: WORLD AMERICAN TO BOM

WORLD AMERICAN #	BOM #
WA20-06-5223	WA06MATWN-CLFDM
WA20-06-5224	WA06S5QTN-ALFRM
WA20-06-5225	WA06D5PBN-NRFDMM
WA20-06-5226	WA06MATWN-ARFDM
WA20-06-5227	WA06S4QTN-ALFDM
WA20-06-5228	WA06S5LIN-CLRRM
WA20-06-5229	WA06M5LIN-CLRDM
WA20-06-5230	WA06S9GDN-CLFDM
WA20-06-5231	WA06S7UXN-CLFDM
WA20-06-5232	WA06S7LIN-NRFDMM
WA20-06-5233	WA06D7LIN-ARFDM
WA20-06-5234	WA06S7QTN-ALFRM
WA20-06-5235	WA06S7QXN-CRFDMM
WA20-06-5236	WA06S9QTN-CRFRM
WA20-06-5237	WA06D9UVN-CLFRM
WA20-06-5238	WA06S5QXN-CRFDMM
WA20-06-5239	WA06S7QTN-ALFDM
WA20-06-5240	WA06S4ULN-ALFDM
WA20-06-5241	WA06S5LIN-NRRDM
WA20-06-5242	WA06S5LCN-NLFDMM
WA20-06-5243	WA06S9QXN-NRFDMM
WA20-06-5244	WA06S5QTN-ALFDM
WA20-06-5245	WA06S8PVN-NRFDMM
WA20-06-5246	WA06S7PBN-NRFDMM
WA20-06-5247	WA06S6QXN-CLFRM
WA20-06-5248	WA06S7UXN-NLFDMM
WA20-06-5249	WA06S9RDN-CRFRM
WA20-06-5250	WA06S4ULN-ALFRM
WA20-06-5251	WA06S7STN-CLFRM
WA20-06-5252	WA06D8RPN-ALFDM
WA20-06-5253	WA06S9QXN-CLFRM
WA20-06-5254	WA06D9MAN-CRRDM
WA20-06-5255	WA06S8PVN-NRFRM
WA20-06-5256	WA06D3PBN-CRFRM
WA20-06-5257	WA06S0QXN-NRFRM
WA20-06-5259	WA06S5QEN-CLFRM
WA20-06-5260	WA06S8QTN-NLFDMM
WA20-06-5261	WA06M7LIN-NRFEU
WA20-06-5262	WA06S5ULN-ALFDM
WA20-06-5263	WA06D6LIN-ARFDM
WA20-06-5264	WA06S9QTN-NLFDMM
WA20-06-5265	WA06S8MDN-ARFDM
WA20-06-5266	WA06S9LIN-NRFRM
WA20-06-5267	WA06S8MDN-CRFRM
WA20-06-5268	WA06S8ULN-ALFRM
WA20-06-5269	WA06S6LIN-ALRRM
WA20-06-5270	WA06S5LCN-NRFDMM
WA20-06-5271	WA06B7MHN-NLFRM
WA20-06-5272	WA06MATWN-ALFDM
WA20-06-5273	WA06S1LIN-ARFRM
WA20-06-5274	WA06S6QTN-CLFRM
WA20-06-5275	WA06S4LIN-CLFDM
WA20-06-5276	WA06D8PBN-NRFRM

WORLD AMERICAN #	BOM #
WA20-06-5277	WA06S0QXN-NLFDMM
WA20-06-5278	WA06M3LIN-DRFDMM
WA20-06-5279	WA06S6QWN-NRFRN
WA20-06-5280	WA06S4PBN-NLFRM
WA20-06-5281	WA06S6QTN-CLFDM
WA20-06-5282	WA06S7QTN-DLFDMM
WA20-06-5283	WA06M3LIN-ALFRM
WA20-06-5284	WA06M4LIN-ARFRM
WA20-06-5285	WA06S4QTN-NLFDMM
WA20-06-5286	WA06D8PIN-CRFDMM
WA20-06-5287	WA06S9PVN-NLFDMM
WA20-06-5288	WA06S8RCN-CLFRM
WA20-06-5289	WA06S6ULN-ARFDM
WA20-06-5290	WA06S8VYN-CLFDM
WA20-06-5291	WA06MATWN-CRFDMM
WA20-06-5292	WA06S3PBN-CLFRM
WA20-06-5293	WA06S7UXN-ALFDM
WA20-06-5294	WA06S7UXN-NLFRM
WA20-06-5295	WA06S6MHN-CLFRM
WA20-06-5296	WA06D6RPN-ALFDM
WA20-06-5297	WA06D7UVN-NLFDMM
WA20-06-5298	WA06S9LIN-NLFDMM
WA20-06-5299	WA06S4STN-CRFRM
WA20-06-5300	WA06S0MAN-CRRRM
WA20-06-5301	WA06S7STN-CRFRM
WA20-06-5302	WA06S7ULN-ALFDM
WA20-06-5303	WA06S8MAN-CRRRM
WA20-06-5304	WA06S3LIN-NLFDMM
WA20-06-5305	WA06S9QTN-NLFRM
WA20-06-5306	WA06D6PBN-NRFRM
WA20-06-5307	WA06MATWN-ALFDM
WA20-06-5308	WA06S7RPN-CLFDM
WA20-06-5309	WA06S7LQN-NRFDMM
WA20-06-5310	WA06D9UVN-NRFDMM
WA20-06-5311	WA06S6LQN-CRFDMM
WA20-06-5312	WA06S9MRN-CRRRM
WA20-06-5313	WA06S5LCN-NRRDM
WA20-06-5314	WA06D8UHN-CRRRM
WA20-06-5315	WA06S0LQN-CLFRM
WA20-06-5316	WA06S7STN-CLFRM
WA20-06-5317	WA06S7LIN-CRFDMM
WA20-06-5318	WA06S8VYN-CLFRM
WA20-06-5319	WA06S8UXN-NLFRM
WA20-06-5320	WA06S3LIN-NLFRM
WA20-06-5321	WA06S9STN-CLFRM
WA20-06-5322	WA06S6LIN-DRFDMM
WA20-06-5323	WA06S6QTN-ALFDM
WA20-06-5324	WA06S8MRN-CRFDMM
WA20-06-5325	WA06S8QXN-CRFDMM
WA20-06-5326	WA06S9RCN-CLFRM
WA20-06-5327	WA06M3LIN-ARFDM
WA20-06-5328	WA06S3LIN-KRFDMM
WA20-06-5329	WA06M3LIN-KRFDMM

WORLD AMERICAN #	BOM #
WA20-06-5330	WA06S7QXN-NRFDMM
WA20-06-5331	WA06D7RPN-NRFDMM
WA20-06-5332	WA06M4LIN-KRFDMM
WA20-06-5333	WA06M5LIN-NRFDMM
WA20-06-5334	WA06M5LIN-ARFDM
WA20-06-5335	WA06S5LIN-KRFDMM
WA20-06-5336	WA06M5LIN-KRFDMM
WA20-06-5337	WA06M6LIN-ARFDM
WA20-06-5339	WA06M6LIN-DRFDMM
WA20-06-5340	WA06S6LIN-KRFDMM
WA20-06-5341	WA06M6LIN-KRFDMM
WA20-06-5342	WA06M7LIN-NRFDMM
WA20-06-5343	WA06M7LIN-ARFDM
WA20-06-5344	WA06S7LIN-DRFDMM
WA20-06-5345	WA06M7LIN-DRFDMM
WA20-06-5346	WA06S7LIN-KRFDMM
WA20-06-5347	WA06M7LIN-KRFDMM
WA20-06-5348	WA06S3LIN-DRFRM
WA20-06-5349	WA06M3LIN-DRFRM
WA20-06-5350	WA06M3LIN-KRFRM
WA20-06-5351	WA06M4LIN-DRFRM
WA20-06-5352	WA06S4LIN-KRFRM
WA20-06-5353	WA06M4LIN-KRFRM
WA20-06-5354	WA06S5LIN-DRFRM
WA20-06-5355	WA06M5LIN-DRFRM
WA20-06-5356	WA06S5LIN-KRFRM
WA20-06-5357	WA06M5LIN-KRFRM
WA20-06-5358	WA06M6LIN-NRFRM
WA20-06-5359	WA06M7LIN-NRFRM
WA20-06-5360	WA06M8LIN-NRFRM
WA20-06-5361	WA06S6LIN-DRFRM
WA20-06-5362	WA06S7LIN-DRFRM
WA20-06-5363	WA06S8LIN-DRFRM
WA20-06-5364	WA06M6LIN-DRFRM
WA20-06-5365	WA06S6LIN-KRFRM
WA20-06-5366	WA06M6LIN-KRFRM
WA20-06-5367	WA06M7LIN-DRFRM
WA20-06-5368	WA06S7LIN-KRFRM
WA20-06-5369	WA06M7LIN-KRFRM
WA20-06-5370	WA06M8LIN-DRFRM
WA20-06-5371	WA06S8LIN-KRFRM
WA20-06-5372	WA06M8LIN-KRFRM
WA20-06-5373	WA06M6LIN-ARFRM
WA20-06-5374	WA06M8LIN-ARFRM
WA20-06-5375	WA06M4LIN-DRFDMM
WA20-06-5376	WA06S4LIN-KRFDMM
WA20-08-7000	WA08S3LIN-NRFDMM
WA20-08-7001	WA08S4LIN-NRFDMM
WA20-08-7002	WA08S4LIN-NRFRM
WA20-08-7003	WA08S3LIN-NLFDMM
WA20-08-7004	WA08S3LIN-NRFRM
WA20-08-7005	WA08S5LIN-NRFDMM
WA20-08-7006	WA08S5LIN-NRFRM

INTERCHANGE

INTERCHANGE: WORLD AMERICAN TO BOM

WORLD AMERICAN #	BOM #
WA20-08-7007	WA08S3LIN-NLFRM
WA20-08-7008	WA08S3LIN-ARFDM
WA20-08-7009	WA08M5LIN-NRFRM
WA20-08-7010	WA08S5LIN-CRFRM
WA20-08-7011	WA08M4LIN-ARFRM
WA20-08-7012	WA08S4LIN-NLFRM
WA20-08-7014	WA08S4LIN-DRFDM
WA20-08-7015	WA08S4LIN-ARFDM
WA20-08-7016	WA08M3LIN-ARFDM
WA20-08-7017	WA08S5LIN-ARFDM
WA20-08-7018	WA08S5LIN-ARFRM
WA20-08-7019	WA08S7LIN-ARFDM
WA20-08-7020	WA08S7LIN-NRFRM
WA20-08-7021	WA08M5LIN-ARFRM
WA20-08-7022	WA08S4LIN-CRFRM
WA20-08-7023	WA08S6LIN-CRFRM
WA20-08-7025	WA08M3LIN-NRFRM
WA20-08-7026	WA08S5LIN-NLFRM
WA20-08-7027	WA08S5LIN-NLFRM
WA20-08-7028	WA08S5LIN-CRFRM
WA20-08-7029	WA08S3LIN-ARFRM
WA20-08-7030	WA08M3LIN-NRFRM
WA20-08-7031	WA08S3LIN-NRFEU
WA20-08-7032	WA08S4LIN-KRFDM
WA20-08-7033	WA08S5LIN-ALFRM
WA20-08-7034	WA08S6LIN-ARFRM
WA20-08-7035	WA08S7LIN-ARFRM
WA20-08-7036	WA08M4LIN-NRFRM
WA20-08-7037	WA08M5LIN-ARFDM
WA20-08-7038	WA08M6LIN-NRFRM
WA20-08-7039	WA08M7LIN-NRFRM
WA20-08-7040	WA08S5LIN-ALFDM
WA20-08-7041	WA08S6LIN-CRFRM
WA20-08-7042	WA08S4LIN-ARFRM
WA20-08-7043	WA08M3LIN-ARFRM
WA20-08-7044	WA08M3LIN-ALFDM
WA20-08-7045	WA08M3LIN-DRFDM
WA20-08-7046	WA08M4LIN-ARFDM
WA20-08-7047	WA08M4LIN-ALFDM
WA20-08-7048	WA08M4LIN-NLFRM
WA20-08-7049	WA08M5LIN-NRFRM
WA20-08-7050	WA08M6LIN-ARFRM
WA20-08-7051	WA08M6LIN-ARFDM
WA20-08-7052	WA08S3LIN-ALFDM
WA20-08-7053	WA08S3LIN-DRFDM
WA20-08-7054	WA08S3LIN-DLFRM
WA20-08-7055	WA08S3LIN-KRFDM
WA20-08-7056	WA08S3LIN-KLFRM
WA20-08-7057	WA08S3LIN-NRFBF
WA20-08-7058	WA08S4LIN-CRFRM
WA20-08-7059	WA08S4PBN-ALFDM
WA20-08-7060	WA08S4PBN-NLFRM
WA20-08-7061	WA08S5LIN-DRFDM

WORLD AMERICAN #	BOM #
WA20-08-7062	WA08S5LSN-ARFDM
WA20-08-7063	WA08S5LSN-NRFRM
WA20-08-7064	WA08S5QWN-ALFDM
WA20-08-7065	WA08S6LIN-ARFDM
WA20-08-7066	WA08S6LIN-ALFDM
WA20-08-7067	WA08S6LIN-NRFRM
WA20-08-7068	WA08S6LIN-NRFRM
WA20-08-7069	WA08S6QWN-NLFRM
WA20-08-7070	WA08S7LIN-NRFRM
WA20-08-7071	WA08S7LIN-CRFRM
WA20-08-7072	WA08S7QWN-KLFRM
WA20-08-7073	WA08S7QWN-NLFRM
WA20-08-7074	WA08D3LIN-NRFRM
WA20-08-7075	WA08D3PBN-ALFRM
WA20-08-7076	WA08D3PBN-ALFDM
WA20-08-7077	WA08D3PBN-NLFRM
WA20-08-7078	WA08D3PBN-NLFRM
WA20-08-7079	WA08D4PBN-ALFDM
WA20-08-7080	WA08D4PBN-KLFRM
WA20-08-7081	WA08D4PBN-NLFRM
WA20-08-7082	WA08D6PBN-NLFRM
WA20-08-7083	WA08D7PBN-ALFRM
WA20-08-7084	WA08D7PBN-NLFRM
WA20-08-7085	WA08D6PBN-NLFRM
WA20-08-7086	WA08S3LIN-DRFRM
WA20-08-7087	WA08M7LIN-ARFDM
WA20-08-7088	WA08M3LIN-NLFRM
WA20-08-7089	WA08S4LIN-ALFDM
WA20-08-7090	WA08S6LIN-NLFRM
WA20-08-7091	WA08D4PBN-NLFRM
WA20-08-7092	WA08D4PBN-ALFRM
WA20-08-7093	WA08M5LIN-NLFRM
WA20-08-7094	WA08D7LIN-NRFRM
WA20-08-7095	WA08S8PBN-NRFRM
WA20-08-7096	WA08S8PBN-ARFDM
WA20-08-7097	WA08S8MHN-CRFRM
WA20-08-7098	WA08S6MHN-CRFRM
WA20-08-7099	WA08S6MHN-CRFRM
WA20-08-7100	WA08S6QWN-KLFRM
WA20-08-7101	WA08S4LIN-NLRDM
WA20-08-7102	WA08M7LIN-NRFRM
WA20-08-7103	WA08M4LIN-CRFRM
WA20-08-7104	WA08M3LIN-CRFRM
WA20-08-7105	WA08S8LIN-ARFRM
WA20-08-7106	WA08M9LIN-ARFRM
WA20-08-7107	WA08M7LIN-ARFRM
WA20-08-7108	WA08M8LIN-ARFRM
WA20-08-7109	WA08S3LIN-ARFBF
WA20-08-7110	WA08D5PBN-ALFDM
WA20-08-7111	WA08S0LIN-ARFRM
WA20-08-7112	WA08S4LCN-ARFDM
WA20-08-7113	WA08S5LIN-NLRDM
WA20-08-7114	WA08S4LIN-NRFBF

WORLD AMERICAN #	BOM #
WA20-08-7115	WA08S8LSN-CRFRM
WA20-08-7116	WA08S6LIN-NLRDM
WA20-08-7117	WA08M3LIN-ALFRM
WA20-08-7118	WA08S3LIN-ALRDM
WA20-08-7119	WA08S4LIN-ARFBF
WA20-08-7120	WA08D5PBN-NLFRM
WA20-08-7121	WA08M7LIN-ALFRM
WA20-08-7122	WA08S7LIN-ALFRM
WA20-08-7123	WA08S4LIN-ARFDS
WA20-08-7124	WA08S5LIN-ARFBF
WA20-08-7125	WA08M4LIN-DRFDM
WA20-08-7126	WA08S4PBN-ARFRM
WA20-08-7127	WA08M6LIN-NRFRM
WA20-08-7128	WA08M8LIN-NRFRM
WA20-08-7129	WA08D4PBN-DLFRM
WA20-08-7130	WA08S4PBN-NLFEU
WA20-08-7131	WA08D5PBN-NLFRM
WA20-08-7132	WA08M3LIN-NLFRM
WA20-08-7133	WA08S8LIN-NRFRM
WA20-08-7134	WA08S4LIN-NLFRM
WA20-08-7135	WA08S8MHN-NRFRM
WA20-08-7136	WA08D3PBN-ALRDM
WA20-08-7137	WA08M0LIN-ARFRM
WA20-08-7138	WA08S1LIN-NRFRM
WA20-08-7139	WA08S4LIN-ARRDM
WA20-08-7140	WA08S6LIN-NLFRM
WA20-08-7141	WA08S6LIN-CLRRM
WA20-08-7142	WA08SHLIN-NRFRM
WA20-08-7143	WA08M8LIN-NRFRM
WA20-08-7146	WA08M5LIN-ALFRM
WA20-08-7148	WA08S5LIN-NRFBF
WA20-08-7149	WA08S7LIN-NRFBF
WA20-08-7150	WA08S5LIN-CLRRM
WA20-08-7151	WA08S4LIN-NLFBF
WA20-08-7152	WA08M5LIN-DRFDM
WA20-08-7153	WA08S9LIN-ARFRM
WA20-08-7154	WA08M3LIN-NRFBF
WA20-08-7155	WA08S9LIN-NLFRM
WA20-08-7156	WA08D4PBN-NLFEU
WA20-08-7157	WA08D6PBN-ALFDM
WA20-08-7158	WA08S8LIN-NRFRM
WA20-08-7159	WA08M4LIN-NRFRM
WA20-08-7160	WA08S7LIN-CLRRM
WA20-08-7161	WA08S7LIN-NLRDM
WA20-08-7162	WA08M7LIN-NLFRM
WA20-08-7163	WA08S4LIN-ALFRM
WA20-08-7164	WA08S4LIN-NLRRM
WA20-08-7165	WA08D7PBN-NRFRM
WA20-08-7166	WA08S0PBN-NRFRM
WA20-08-7167	WA08S4LIN-NRFEU
WA20-08-7168	WA08S7LIN-ALFDM
WA20-08-7169	WA08M5LIN-ALFDM
WA20-08-7170	WA08D4PBN-CLFDM

INTERCHANGE

INTERCHANGE: WORLD AMERICAN TO BOM

WORLD AMERICAN #	BOM #
WA20-08-7171	WA08S9PVN-ARFRM
WA20-08-7172	WA08M3LIN-NRFEU
WA20-08-7173	WA08S5LIN-NLRRM
WA20-08-7174	WA08D4PBN-NRFDM
WA20-08-7175	WA08S3LIN-NLRDM
WA20-08-7176	WA08D8PBN-NLFRM
WA20-08-7177	WA08D6PBN-ALFRM
WA20-08-7178	WA08D6PBN-DLFRM
WA20-08-7179	WA08D6PBN-KLFRM
WA20-08-7180	WA08D3PBN-DLFD
WA20-08-7181	WA08D3PBN-KLFD
WA20-08-7182	WA08D5PBN-DLFD
WA20-08-7183	WA08D5PBN-KLFD
WA20-08-7184	WA08D6PBN-DLFD
WA20-08-7185	WA08D6PBN-KLFD
WA20-08-7186	WA08D3PBN-DLFRM
WA20-08-7187	WA08D3PBN-KLFRM
WA20-08-7188	WA08D4PBN-DLFRM
WA20-08-7189	WA08D4PBN-KLFRM
WA20-08-7190	WA08D5PBN-DLFRM
WA20-08-7191	WA08D5PBN-KLFRM
WA20-08-7192	WA08M4LIN-CRFDM
WA20-08-7193	WA08M5LIN-CRFDM
WA20-08-7194	WA08M6LIN-CRFDM
WA20-08-7195	WA08M7LIN-CRFDM
WA20-08-7196	WA08M4LIN-CRFRM
WA20-08-7197	WA08M5LIN-CRFRM
WA20-08-7198	WA08M6LIN-CRFRM
WA20-08-7199	WA08M6LIN-NLFD
WA20-08-7200	WA08M4LIN-NLFRM
WA20-08-7201	WA08M5LIN-NLFRM
WA20-08-7202	WA08S3LIN-ALFRM
WA20-08-7203	WA08M4LIN-ALFRM
WA20-08-7204	WA08M6LIN-ALFD
WA20-08-7205	WA08S3LIN-CRFDM
WA20-08-7206	WA08M3LIN-KRFD
WA20-08-7207	WA08M4LIN-KRFD

WORLD AMERICAN #	BOM #
WA20-08-7208	WA08S5LIN-KRFD
WA20-08-7209	WA08M5LIN-KRFD
WA20-08-7210	WA08S6LIN-DRFD
WA20-08-7211	WA08M6LIN-DRFD
WA20-08-7212	WA08S6LIN-KRFD
WA20-08-7213	WA08M6LIN-KRFD
WA20-08-7214	WA08S7LIN-DRFD
WA20-08-7215	WA08M7LIN-DRFD
WA20-08-7216	WA08S7LIN-KRFD
WA20-08-7217	WA08M7LIN-KRFD
WA20-08-7218	WA08M3LIN-DLFD
WA20-08-7219	WA08M3LIN-KLFD
WA20-08-7220	WA08S4LIN-DLFD
WA20-08-7221	WA08M4LIN-DLFD
WA20-08-7222	WA08S4LIN-KLFD
WA20-08-7223	WA08M4LIN-KLFD
WA20-08-7224	WA08S5LIN-DLFD
WA20-08-7225	WA08M5LIN-DLFD
WA20-08-7226	WA08S5LIN-KLFD
WA20-08-7227	WA08M5LIN-KLFD
WA20-08-7228	WA08S6LIN-DLFD
WA20-08-7229	WA08M6LIN-DLFD
WA20-08-7230	WA08S6LIN-KLFD
WA20-08-7231	WA08M6LIN-KLFD
WA20-08-7232	WA08M3LIN-DRFRM
WA20-08-7233	WA08S3LIN-KRFRM
WA20-08-7234	WA08M3LIN-KRFRM
WA20-08-7235	WA08S4LIN-DRFRM
WA20-08-7236	WA08M4LIN-DRFRM
WA20-08-7237	WA08S4LIN-KRFRM
WA20-08-7238	WA08M4LIN-KRFRM
WA20-08-7239	WA08S5LIN-DRFRM
WA20-08-7240	WA08M5LIN-DRFRM
WA20-08-7241	WA08S5LIN-KRFRM
WA20-08-7242	WA08M5LIN-KRFRM
WA20-08-7243	WA08S6LIN-DRFRM
WA20-08-7244	WA08M6LIN-DRFRM

WORLD AMERICAN #	BOM #
WA20-08-7245	WA08S6LIN-KRFRM
WA20-08-7246	WA08M6LIN-KRFRM
WA20-08-7247	WA08S7LIN-DRFRM
WA20-08-7248	WA08M7LIN-DRFRM
WA20-08-7249	WA08S7LIN-KRFRM
WA20-08-7250	WA08M7LIN-KRFRM
WA20-08-7251	WA08S3LIN-DLFRM
WA20-08-7252	WA08M3LIN-DLFRM
WA20-08-7253	WA08S3LIN-KLFRM
WA20-08-7254	WA08M3LIN-KLFRM
WA20-08-7255	WA08S4LIN-DLFRM
WA20-08-7256	WA08M4LIN-DLFRM
WA20-08-7257	WA08S4LIN-KLFRM
WA20-08-7258	WA08M4LIN-KLFRM
WA20-08-7259	WA08S5LIN-DLFRM
WA20-08-7260	WA08M5LIN-DLFRM
WA20-08-7261	WA08S5LIN-KLFRM
WA20-08-7262	WA08M5LIN-KLFRM
WA20-10-9001	WA10SARKL-2LFD
WA20-10-9002	WA10SBRKL-2LFD
WA20-10-9003	WA10SCRKL-2LFD
WA20-10-9004	WA10SDRKL-2LFD
WA20-10-9005	WA10SARKL-2LFRM
WA20-10-9006	WA10SBRKL-2LFRM
WA20-10-9007	WA10SCRKL-2LFRM
WA20-10-9008	WA10SDRKL-2LFRM
WA20-16-1500	WA16SFPBN-2RFDM
WA20-16-1501	WA16SGAKN-2RFDM
WA20-16-1502	WAH6MATWL-2LFD
WA20-26-0001	WA26SLIN-3NN
WA20-26-0002	WA26SLQN-LFS
WA20-26-0003	WA26MLIN-3LI
WA20-26-0004	WA26SLIN-3LI
WA20-26-0005	WA26SPBN-3
WA20-26-0006	WA26DPBN-4

INTERCHANGE

INTERCHANGE: BOM TO WORLD AMERICAN

BOM #	WORLD AMERICAN #
WA06M5LIN-CLRDM	WA20-06-5229
WA06S8ULN-NLFD	WA20-06-5187
WA08D4PBN-NLFEU	WA20-08-7156
WA08M6LIN-NRFRM	WA20-08-7127
WA08S4PBN-NLFEU	WA20-08-7130
WA06A7RPN-ALFDM	WA20-06-5204
WA06B7MHN-NLFRM	WA20-06-5271
WA06B7MRN-CLFDM	WA20-06-5019
WA06B8LQN-CLFRM	WA20-06-5020
WA06D0RPN-CLFRM	WA20-06-5144
WA06D3LIN-ARFDM	WA20-06-5071
WA06D3LIN-NRFD	WA20-06-5078
WA06D3PBN-ARFDM	WA20-06-5116
WA06D3PBN-CRFD	WA20-06-5222
WA06D3PBN-CRFRM	WA20-06-5256
WA06D3PBN-DRFDM	WA20-06-5136
WA06D3PBN-NRFD	WA20-06-5115
WA06D3PBN-NRFRM	WA20-06-5218
WA06D4PBN-ARFDM	WA20-06-5072
WA06D4PBN-ARFRM	WA20-06-5113
WA06D4PBN-DRFDM	WA20-06-5221
WA06D4PBN-KRFD	WA20-06-5095
WA06D4PBN-NLFD	WA20-06-5006
WA06D4PBN-NRFD	WA20-06-5073
WA06D4PBN-NRFRM	WA20-06-5114
WA06D4RPN-CLFRM	WA20-06-5138
WA06D5LIN-ARFDM	WA20-06-5118
WA06D5LIN-ARFRM	WA20-06-5214
WA06D5LIN-CLRDM	WA20-06-5213
WA06D5LIN-CRFRM	WA20-06-5146
WA06D5LIN-NRFD	WA20-06-5117
WA06D5PBN-ARFRM	WA20-06-5208
WA06D5PBN-NRFD	WA20-06-5225
WA06D5RPN-ALFDM	WA20-06-5074
WA06D5RPN-NLFD	WA20-06-5075
WA06D6LIN-ARFDM	WA20-06-5263
WA06D6PBN-NRFD	WA20-06-5111
WA06D6PBN-NRFRM	WA20-06-5306
WA06D6RPN-ALFDM	WA20-06-5296
WA06D6RPN-NRFD	WA20-06-5189
WA06D7LIN-ARFDM	WA20-06-5233
WA06D7LIN-CRFD	WA20-06-5147
WA06D7LIN-NRFRM	WA20-06-5206
WA06D7LQN-CLFRM	WA20-06-5081
WA06D7NCN-CRFD	WA20-06-5198
WA06D7PBN-ARFRM	WA20-06-5121
WA06D7PBN-NRFRM	WA20-06-5120
WA06D7RPN-ARFDM	WA20-06-5100
WA06D7RPN-ARFRM	WA20-06-5185
WA06D7RPN-CLFDM	WA20-06-5143
WA06D7RPN-CRFD	WA20-06-5094
WA06D7RPN-DRFDM	WA20-06-5177
WA06D7RPN-DRFRM	WA20-06-5178
WA06D7RPN-NLFD	WA20-06-5192
WA06D7RPN-NRFD	WA20-06-5099
WA06D7RPN-NRFRM	WA20-06-5331

BOM #	WORLD AMERICAN #
WA06D7UVN-NLFD	WA20-06-5297
WA06D8PBN-NRFRM	WA20-06-5276
WA06D8PBN-CRFD	WA20-06-5286
WA06D8RPN-ALFDM	WA20-06-5252
WA06D8RPN-CLFDM	WA20-06-5160
WA06D8UHN-CRRRM	WA20-06-5314
WA06D9MAN-CRRDM	WA20-06-5254
WA06D9RPN-ALFDM	WA20-06-5197
WA06D9RPN-CLFRM	WA20-06-5084
WA06D9RPN-CRFRM	WA20-06-5203
WA06D9RPN-NLFD	WA20-06-5167
WA06D9RPN-NLFRM	WA20-06-5087
WA06D9RPN-NRFD	WA20-06-5168
WA06D9UCN-CRRDM	WA20-06-5076
WA06D9UVN-CLFRM	WA20-06-5237
WA06D9UVN-NRFD	WA20-06-5310
WA06M3LIN-ALFRM	WA20-06-5283
WA06M3LIN-ARFDM	WA20-06-5327
WA06M3LIN-ARFRM	WA20-06-5139
WA06M3LIN-CRFRM	WA20-06-5013
WA06M3LIN-DRFDM	WA20-06-5278
WA06M3LIN-DRFRM	WA20-06-5349
WA06M3LIN-KRFD	WA20-06-5329
WA06M3LIN-KRFRM	WA20-06-5350
WA06M3LIN-NRFD	WA20-06-5012
WA06M3LIN-NRFRM	WA20-06-5005
WA06M4LIN-ARFDM	WA20-06-5014
WA06M4LIN-ARFRM	WA20-06-5284
WA06M4LIN-DRFDM	WA20-06-5375
WA06M4LIN-DRFRM	WA20-06-5351
WA06M4LIN-KRFD	WA20-06-5332
WA06M4LIN-KRFRM	WA20-06-5353
WA06M4LIN-NRFD	WA20-06-5016
WA06M4LIN-NRFRM	WA20-06-5015
WA06M5LIN-ARFDM	WA20-06-5334
WA06M5LIN-ARFRM	WA20-06-5184
WA06M5LIN-DRFDM	WA20-06-5001
WA06M5LIN-DRFRM	WA20-06-5355
WA06M5LIN-KRFD	WA20-06-5336
WA06M5LIN-KRFRM	WA20-06-5357
WA06M5LIN-NRFD	WA20-06-5333
WA06M5LIN-NRFRM	WA20-06-5145
WA06M5UBN-ALFDM	WA20-06-5080
WA06M5UDN-NRFD	WA20-06-5017
WA06M6LIN-ARFDM	WA20-06-5337
WA06M6LIN-ARFRM	WA20-06-5373
WA06M6LIN-DRFDM	WA20-06-5339
WA06M6LIN-DRFRM	WA20-06-5364
WA06M6LIN-KRFD	WA20-06-5341
WA06M6LIN-KRFRM	WA20-06-5366
WA06M6LIN-NRFRM	WA20-06-5358
WA06M6UBN-NLFD	WA20-06-5018
WA06M7LIN-ARFDM	WA20-06-5343
WA06M7LIN-ARFRM	WA20-06-5209
WA06M7LIN-DRFDM	WA20-06-5345
WA06M7LIN-DRFRM	WA20-06-5367

BOM #	WORLD AMERICAN #
WA06M7LIN-KRFD	WA20-06-5347
WA06M7LIN-KRFRM	WA20-06-5369
WA06M7LIN-NRFD	WA20-06-5342
WA06M7LIN-NRFEU	WA20-06-5261
WA06M7LIN-NRFRM	WA20-06-5359
WA06M8LIN-ARFRM	WA20-06-5374
WA06M8LIN-DRFRM	WA20-06-5370
WA06M8LIN-KRFRM	WA20-06-5372
WA06M8LIN-NRFRM	WA20-06-5360
WA06MATWN-ALFDM	WA20-06-5272
WA06MATWN-ALFDM	WA20-06-5307
WA06MATWN-ARFDM	WA20-06-5226
WA06MATWN-CLFDM	WA20-06-5223
WA06MATWN-CRFD	WA20-06-5291
WA06MATWN-NLFD	WA20-06-5011
WA06S0LQN-CLFRM	WA20-06-5315
WA06S0LSN-ALRDM	WA20-06-5173
WA06S0LYN-NLFD	WA20-06-5165
WA06S0MAN-CRRRM	WA20-06-5300
WA06S0QTN-CRFD	WA20-06-5207
WA06S0QXN-NLFD	WA20-06-5277
WA06S0QXN-NRFRM	WA20-06-5257
WA06S0TZN-CLFRM	WA20-06-5174
WA06S1LIN-ARFRM	WA20-06-5273
WA06S3LIN-ARFDM	WA20-06-5082
WA06S3LIN-ARFRM	WA20-06-5124
WA06S3LIN-CLRDM	WA20-06-5002
WA06S3LIN-CRFD	WA20-06-5149
WA06S3LIN-CRFRM	WA20-06-5023
WA06S3LIN-DRFDM	WA20-06-5135
WA06S3LIN-DRFRM	WA20-06-5348
WA06S3LIN-KRFD	WA20-06-5328
WA06S3LIN-KRFRM	WA20-06-5140
WA06S3LIN-NLFD	WA20-06-5304
WA06S3LIN-NLFRM	WA20-06-5320
WA06S3LIN-NRFD	WA20-06-5022
WA06S3LIN-NRFRM	WA20-06-5021
WA06S3PBN-CLFRM	WA20-06-5292
WA06S4LIN-ARFDM	WA20-06-5010
WA06S4LIN-ARFRM	WA20-06-5130
WA06S4LIN-CLFDM	WA20-06-5275
WA06S4LIN-CRFRM	WA20-06-5191
WA06S4LIN-DRFDM	WA20-06-5112
WA06S4LIN-DRFRM	WA20-06-5153
WA06S4LIN-KRFD	WA20-06-5376
WA06S4LIN-KRFRM	WA20-06-5352
WA06S4LIN-NLFD	WA20-06-5200
WA06S4LIN-NRFD	WA20-06-5009
WA06S4LIN-NRFRM	WA20-06-5077
WA06S4PBN-NLFRM	WA20-06-5280
WA06S4PVN-NRFD	WA20-06-5093
WA06S4QTN-ALFDM	WA20-06-5227
WA06S4QTN-CRFD	WA20-06-5211
WA06S4QTN-NLFD	WA20-06-5285
WA06S4RPN-NLFRM	WA20-06-5155
WA06S4STN-CRFRM	WA20-06-5299

INTERCHANGE

INTERCHANGE: BOM TO WORLD AMERICAN

BOM #	WORLD AMERICAN #
WA06S4TZN-CLFRM	WA20-06-5024
WA06S4ULN-ALFDM	WA20-06-5240
WA06S4ULN-ALFRM	WA20-06-5250
WA06S4ULN-NRFDM	WA20-06-5216
WA06S4VYN-CLFRM	WA20-06-5025
WA06S5GDN-CLFRM	WA20-06-5150
WA06S5LCN-ARFRM	WA20-06-5026
WA06S5LCN-NLFDM	WA20-06-5242
WA06S5LCN-NRFDM	WA20-06-5270
WA06S5LCN-NRFRM	WA20-06-5027
WA06S5LCN-NRRDM	WA20-06-5313
WA06S5LIN-ALFDM	WA20-06-5126
WA06S5LIN-ARFDM	WA20-06-5029
WA06S5LIN-ARFRM	WA20-06-5028
WA06S5LIN-CLRRM	WA20-06-5228
WA06S5LIN-CRFD	WA20-06-5008
WA06S5LIN-CRFRM	WA20-06-5104
WA06S5LIN-DRFDM	WA20-06-5003
WA06S5LIN-DRFRM	WA20-06-5354
WA06S5LIN-KRFD	WA20-06-5335
WA06S5LIN-KRFRM	WA20-06-5356
WA06S5LIN-NLFDM	WA20-06-5125
WA06S5LIN-NRFDM	WA20-06-5000
WA06S5LIN-NRFRM	WA20-06-5105
WA06S5LIN-NRRDM	WA20-06-5241
WA06S5LSN-ALFRM	WA20-06-5096
WA06S5LSN-ARFRM	WA20-06-5089
WA06S5LSN-NLFRM	WA20-06-5097
WA06S5LSN-NRFRM	WA20-06-5091
WA06S5QEN-CLFRM	WA20-06-5259
WA06S5QTN-ALFDM	WA20-06-5244
WA06S5QTN-ALFRM	WA20-06-5224
WA06S5QTN-ARFDM	WA20-06-5007
WA06S5QTN-CRFRM	WA20-06-5194
WA06S5QTN-DRFDM	WA20-06-5141
WA06S5QTN-NRFDM	WA20-06-5090
WA06S5QXN-CRFD	WA20-06-5238
WA06S5RPN-CLFDM	WA20-06-5079
WA06S5ULN-ALFDM	WA20-06-5262
WA06S6GDN-CRFD	WA20-06-5195
WA06S6LIN-ALRRM	WA20-06-5269
WA06S6LIN-ARFDM	WA20-06-5031
WA06S6LIN-ARFRM	WA20-06-5030
WA06S6LIN-CRFD	WA20-06-5004
WA06S6LIN-CRFRM	WA20-06-5034
WA06S6LIN-DRFDM	WA20-06-5322
WA06S6LIN-DRFRM	WA20-06-5361
WA06S6LIN-KRFD	WA20-06-5340
WA06S6LIN-KRFRM	WA20-06-5365
WA06S6LIN-NRFDM	WA20-06-5033
WA06S6LIN-NRFRM	WA20-06-5032
WA06S6LQN-CRFD	WA20-06-5311
WA06S6LSN-ALFRM	WA20-06-5035
WA06S6LSN-NLFRM	WA20-06-5036

BOM #	WORLD AMERICAN #
WA06S6MHN-CLFRM	WA20-06-5295
WA06S6MHN-NLFDM	WA20-06-5161
WA06S6MHN-NRFDM	WA20-06-5162
WA06S6MRN-CRRRM	WA20-06-5037
WA06S6QTN-ALFDM	WA20-06-5323
WA06S6QTN-ARFDM	WA20-06-5038
WA06S6QTN-CLFDM	WA20-06-5281
WA06S6QTN-CLFRM	WA20-06-5274
WA06S6QTN-CRFRM	WA20-06-5210
WA06S6QTN-NRFDM	WA20-06-5039
WA06S6QWN-NRFRN	WA20-06-5279
WA06S6QXN-CLFRM	WA20-06-5247
WA06S6TZN-CLFRM	WA20-06-5157
WA06S6UBN-NLFDM	WA20-06-5040
WA06S6ULN-ALFDM	WA20-06-5102
WA06S6ULN-ARFDM	WA20-06-5289
WA06S6ULN-DLFDM	WA20-06-5199
WA06S6ULN-NLFDM	WA20-06-5101
WA06S7LIN-ARFDM	WA20-06-5107
WA06S7LIN-ARFRM	WA20-06-5109
WA06S7LIN-ARRDM	WA20-06-5171
WA06S7LIN-CRFD	WA20-06-5317
WA06S7LIN-DRFDM	WA20-06-5344
WA06S7LIN-DRFRM	WA20-06-5362
WA06S7LIN-KRFD	WA20-06-5346
WA06S7LIN-KRFRM	WA20-06-5368
WA06S7LIN-NRFDM	WA20-06-5232
WA06S7LIN-NRFRM	WA20-06-5108
WA06S7LQN-CLFDM	WA20-06-5137
WA06S7LQN-CLFRM	WA20-06-5083
WA06S7LQN-CRFD	WA20-06-5129
WA06S7LQN-NRFDM	WA20-06-5309
WA06S7LYN-CLRRM	WA20-06-5182
WA06S7MHN-CLFDM	WA20-06-5212
WA06S7MHN-CLFRM	WA20-06-5181
WA06S7MNN-CRFRM	WA20-06-5183
WA06S7MNN-DRFDM	WA20-06-5175
WA06S7MNN-DRFRM	WA20-06-5176
WA06S7MNN-NLFDM	WA20-06-5166
WA06S7MRN-NLFRM	WA20-06-5041
WA06S7MTN-CRFD	WA20-06-5219
WA06S7MTN-CRFRM	WA20-06-5151
WA06S7PBN-NRFDM	WA20-06-5246
WA06S7QTN-ALFDM	WA20-06-5239
WA06S7QTN-ALFRM	WA20-06-5234
WA06S7QTN-ARFDM	WA20-06-5043
WA06S7QTN-ARFRM	WA20-06-5042
WA06S7QTN-CLFDM	WA20-06-5049
WA06S7QTN-CLFRM	WA20-06-5119
WA06S7QTN-CRFD	WA20-06-5142
WA06S7QTN-CRFRM	WA20-06-5048
WA06S7QTN-DLFDM	WA20-06-5282
WA06S7QTN-KRFD	WA20-06-5044
WA06S7QTN-NLFDM	WA20-06-5047

BOM #	WORLD AMERICAN #
WA06S7QTN-NRFD	WA20-06-5046
WA06S7QTN-NRFRM	WA20-06-5045
WA06S7QWN-CLFRM	WA20-06-5172
WA06S7QXN-CRFD	WA20-06-5235
WA06S7QXN-NRFDM	WA20-06-5330
WA06S7RPN-ALFDM	WA20-06-5050
WA06S7RPN-ARFRM	WA20-06-5152
WA06S7RPN-CLFDM	WA20-06-5308
WA06S7RPN-CRFD	WA20-06-5110
WA06S7RPN-NLFD	WA20-06-5051
WA06S7STN-CLFDM	WA20-06-5103
WA06S7STN-CLFRM	WA20-06-5251
WA06S7STN-CLFRM	WA20-06-5316
WA06S7STN-CRFRM	WA20-06-5301
WA06S7TZN-CLFDM	WA20-06-5088
WA06S7TZN-CLFRM	WA20-06-5052
WA06S7ULN-ALFDM	WA20-06-5302
WA06S7UXN-ALFDM	WA20-06-5293
WA06S7UXN-CLFDM	WA20-06-5231
WA06S7UXN-DLFDM	WA20-06-5156
WA06S7UXN-NLFD	WA20-06-5248
WA06S7UXN-NLFRM	WA20-06-5294
WA06S7VYN-NLFRM	WA20-06-5053
WA06S8GDN-CRFD	WA20-06-5193
WA06S8LIN-ALFDM	WA20-06-5196
WA06S8LIN-ARFRM	WA20-06-5123
WA06S8LIN-CLRDM	WA20-06-5056
WA06S8LIN-CRFRM	WA20-06-5055
WA06S8LIN-DRFRM	WA20-06-5363
WA06S8LIN-KRFRM	WA20-06-5371
WA06S8LIN-NLFRM	WA20-06-5148
WA06S8LIN-NLRDM	WA20-06-5054
WA06S8LIN-NRFRM	WA20-06-5122
WA06S8LQN-CLFDM	WA20-06-5057
WA06S8LQN-CRFD	WA20-06-5180
WA06S8LQN-NLFD	WA20-06-5163
WA06S8LQN-NRFDM	WA20-06-5164
WA06S8MAN-CRRRM	WA20-06-5303
WA06S8MDN-ARFDM	WA20-06-5265
WA06S8MDN-CRFRM	WA20-06-5267
WA06S8MNN-CRFD	WA20-06-5205
WA06S8MNN-CRFRM	WA20-06-5188
WA06S8MRN-CRFD	WA20-06-5324
WA06S8PNN-CRFD	WA20-06-5201
WA06S8PNN-CRFRM	WA20-06-5217
WA06S8PVN-NRFD	WA20-06-5245
WA06S8PVN-NRFRM	WA20-06-5255
WA06S8QEN-CRFD	WA20-06-5215
WA06S8QTN-ALFDM	WA20-06-5158
WA06S8QTN-ARFRM	WA20-06-5159
WA06S8QTN-CLFDM	WA20-06-5098
WA06S8QTN-CLFRM	WA20-06-5059
WA06S8QTN-CRFD	WA20-06-5058
WA06S8QTN-CRFRM	WA20-06-5220

INTERCHANGE

INTERCHANGE: BOM TO WORLD AMERICAN

BOM #	WORLD AMERICAN #
WA06S8QTN-NLFD	WA20-06-5260
WA06S8QTN-NRFD	WA20-06-5092
WA06S8QXN-CRFD	WA20-06-5325
WA06S8QXN-CRFR	WA20-06-5060
WA06S8RCN-CLFR	WA20-06-5288
WA06S8RPN-DRFD	WA20-06-5170
WA06S8ULN-ALFR	WA20-06-5268
WA06S8UXN-NLFR	WA20-06-5319
WA06S8VYN-CLFD	WA20-06-5290
WA06S8VYN-CLFR	WA20-06-5318
WA06S9GDN-CLFD	WA20-06-5230
WA06S9LIN-CLRD	WA20-06-5065
WA06S9LIN-CLRR	WA20-06-5064
WA06S9LIN-KRFD	WA20-06-5061
WA06S9LIN-NLFD	WA20-06-5298
WA06S9LIN-NLRD	WA20-06-5063
WA06S9LIN-NRFD	WA20-06-5062
WA06S9LIN-NRFR	WA20-06-5266
WA06S9LQN-CLFD	WA20-06-5186
WA06S9LQN-CRFR	WA20-06-5190
WA06S9MNN-ARFD	WA20-06-5132
WA06S9MNN-ARFR	WA20-06-5134
WA06S9MNN-CRFD	WA20-06-5154
WA06S9MNN-NRFD	WA20-06-5131
WA06S9MNN-NRFR	WA20-06-5133
WA06S9MRN-CLFD	WA20-06-5066
WA06S9MRN-CRRR	WA20-06-5312
WA06S9PVN-NLFD	WA20-06-5287
WA06S9QTN-ARFR	WA20-06-5067
WA06S9QTN-CLFR	WA20-06-5069
WA06S9QTN-CRFR	WA20-06-5236
WA06S9QTN-NLFD	WA20-06-5264
WA06S9QTN-NLFR	WA20-06-5305
WA06S9QTN-NRFR	WA20-06-5068
WA06S9QXN-CLFR	WA20-06-5253
WA06S9QXN-CRFD	WA20-06-5086
WA06S9QXN-CRFR	WA20-06-5202
WA06S9QXN-NRFD	WA20-06-5243
WA06S9RCN-CLFR	WA20-06-5326
WA06S9RDN-CRFR	WA20-06-5249
WA06S9RPN-ARFD	WA20-06-5128
WA06S9RPN-NRFD	WA20-06-5127
WA06S9STN-CLFR	WA20-06-5321
WA06S9ULN-ALFD	WA20-06-5169
WA06S9VYN-CLFR	WA20-06-5070
WA08D3LIN-NRFD	WA20-08-7074
WA08D3PBN-ALFD	WA20-08-7076
WA08D3PBN-ALFR	WA20-08-7075
WA08D3PBN-ALRD	WA20-08-7136
WA08D3PBN-DLFD	WA20-08-7180
WA08D3PBN-DLFR	WA20-08-7186
WA08D3PBN-KLFD	WA20-08-7181
WA08D3PBN-KLFR	WA20-08-7187
WA08D3PBN-NLFD	WA20-08-7078

BOM #	WORLD AMERICAN #
WA08D3PBN-NLFR	WA20-08-7077
WA08D4PBN-ALFD	WA20-08-7079
WA08D4PBN-ALFR	WA20-08-7092
WA08D4PBN-CLFD	WA20-08-7170
WA08D4PBN-DLFD	WA20-08-7129
WA08D4PBN-DLFR	WA20-08-7188
WA08D4PBN-KLFD	WA20-08-7080
WA08D4PBN-KLFR	WA20-08-7189
WA08D4PBN-NLFD	WA20-08-7081
WA08D4PBN-NLFR	WA20-08-7091
WA08D4PBN-NRFD	WA20-08-7174
WA08D5PBN-ALFD	WA20-08-7110
WA08D5PBN-DLFD	WA20-08-7182
WA08D5PBN-DLFR	WA20-08-7190
WA08D5PBN-KLFD	WA20-08-7183
WA08D5PBN-KLFR	WA20-08-7191
WA08D5PBN-NLFD	WA20-08-7120
WA08D5PBN-NLFR	WA20-08-7131
WA08D6PBN-ALFD	WA20-08-7157
WA08D6PBN-ALFR	WA20-08-7177
WA08D6PBN-DLFD	WA20-08-7184
WA08D6PBN-DLFR	WA20-08-7178
WA08D6PBN-KLFD	WA20-08-7185
WA08D6PBN-KLFR	WA20-08-7179
WA08D6PBN-NLFD	WA20-08-7085
WA08D6PBN-NLFR	WA20-08-7082
WA08D7LIN-NRFD	WA20-08-7094
WA08D7PBN-ALFR	WA20-08-7083
WA08D7PBN-NLFR	WA20-08-7084
WA08D7PBN-NRFR	WA20-08-7165
WA08D8PBN-NLFR	WA20-08-7176
WA08M0LIN-ARFR	WA20-08-7137
WA08M3LIN-ALFD	WA20-08-7044
WA08M3LIN-ALFR	WA20-08-7117
WA08M3LIN-ARFD	WA20-08-7016
WA08M3LIN-ARFR	WA20-08-7043
WA08M3LIN-CRFD	WA20-08-7104
WA08M3LIN-DLFD	WA20-08-7218
WA08M3LIN-DLFR	WA20-08-7252
WA08M3LIN-DRFD	WA20-08-7045
WA08M3LIN-DRFR	WA20-08-7232
WA08M3LIN-KLFD	WA20-08-7219
WA08M3LIN-KLFR	WA20-08-7254
WA08M3LIN-KRFD	WA20-08-7206
WA08M3LIN-KRFR	WA20-08-7234
WA08M3LIN-NLFD	WA20-08-7088
WA08M3LIN-NLFR	WA20-08-7132
WA08M3LIN-NRFBB	WA20-08-7154
WA08M3LIN-NRFD	WA20-08-7030
WA08M3LIN-NRFEU	WA20-08-7172
WA08M3LIN-NRFR	WA20-08-7025
WA08M4LIN-ALFD	WA20-08-7047
WA08M4LIN-ALFR	WA20-08-7203
WA08M4LIN-ARFD	WA20-08-7046

BOM #	WORLD AMERICAN #
WA08M4LIN-ARFR	WA20-08-7011
WA08M4LIN-CRFD	WA20-08-7192
WA08M4LIN-CRFR	WA20-08-7103
WA08M4LIN-CRFR	WA20-08-7196
WA08M4LIN-DLFD	WA20-08-7221
WA08M4LIN-DLFR	WA20-08-7256
WA08M4LIN-DRFD	WA20-08-7125
WA08M4LIN-DRFR	WA20-08-7236
WA08M4LIN-KLFD	WA20-08-7223
WA08M4LIN-KLFR	WA20-08-7258
WA08M4LIN-KRFD	WA20-08-7207
WA08M4LIN-KRFR	WA20-08-7238
WA08M4LIN-NLFD	WA20-08-7048
WA08M4LIN-NLFR	WA20-08-7200
WA08M4LIN-NRFD	WA20-08-7036
WA08M4LIN-NRFR	WA20-08-7159
WA08M5LIN-ALFD	WA20-08-7169
WA08M5LIN-ALFR	WA20-08-7146
WA08M5LIN-ARFD	WA20-08-7037
WA08M5LIN-ARFR	WA20-08-7021
WA08M5LIN-CRFD	WA20-08-7193
WA08M5LIN-CRFR	WA20-08-7197
WA08M5LIN-DLFD	WA20-08-7225
WA08M5LIN-DLFR	WA20-08-7260
WA08M5LIN-DRFD	WA20-08-7152
WA08M5LIN-DRFR	WA20-08-7240
WA08M5LIN-KLFD	WA20-08-7227
WA08M5LIN-KLFR	WA20-08-7262
WA08M5LIN-KRFD	WA20-08-7209
WA08M5LIN-KRFR	WA20-08-7242
WA08M5LIN-NLFD	WA20-08-7093
WA08M5LIN-NLFR	WA20-08-7201
WA08M5LIN-NRFD	WA20-08-7049
WA08M5LIN-NRFR	WA20-08-7009
WA08M6LIN-ALFD	WA20-08-7204
WA08M6LIN-ARFD	WA20-08-7051
WA08M6LIN-ARFR	WA20-08-7050
WA08M6LIN-CRFD	WA20-08-7194
WA08M6LIN-CRFR	WA20-08-7198
WA08M6LIN-DLFD	WA20-08-7229
WA08M6LIN-DRFD	WA20-08-7211
WA08M6LIN-DRFR	WA20-08-7244
WA08M6LIN-KLFD	WA20-08-7231
WA08M6LIN-KRFD	WA20-08-7213
WA08M6LIN-KRFR	WA20-08-7246
WA08M6LIN-NLFD	WA20-08-7199
WA08M6LIN-NRFD	WA20-08-7038
WA08M7LIN-ALFR	WA20-08-7121
WA08M7LIN-ARFD	WA20-08-7087
WA08M7LIN-ARFR	WA20-08-7107
WA08M7LIN-CRFD	WA20-08-7195
WA08M7LIN-DRFD	WA20-08-7215
WA08M7LIN-DRFR	WA20-08-7248
WA08M7LIN-KRFD	WA20-08-7217

INTERCHANGE

INTERCHANGE: BOM TO WORLD AMERICAN

BOM #	WORLD AMERICAN #
WA08M7LIN-KRFRM	WA20-08-7250
WA08M7LIN-NLFRM	WA20-08-7162
WA08M7LIN-NRFDM	WA20-08-7039
WA08M7LIN-NRFRM	WA20-08-7102
WA08M8LIN-ARFRM	WA20-08-7108
WA08M8LIN-NRFDM	WA20-08-7128
WA08M8LIN-NRFRM	WA20-08-7143
WA08M9LIN-ARFRM	WA20-08-7106
WA08S0LIN-ARFRM	WA20-08-7111
WA08S0PVN-NRFRM	WA20-08-7166
WA08S1LIN-NRFRM	WA20-08-7138
WA08S3LIN-ALFDM	WA20-08-7052
WA08S3LIN-ALFRM	WA20-08-7202
WA08S3LIN-ALRDM	WA20-08-7118
WA08S3LIN-ARFBB	WA20-08-7109
WA08S3LIN-ARFDM	WA20-08-7008
WA08S3LIN-ARFRM	WA20-08-7029
WA08S3LIN-CRFD	WA20-08-7205
WA08S3LIN-DLFDM	WA20-08-7054
WA08S3LIN-DLFRM	WA20-08-7251
WA08S3LIN-DRFDM	WA20-08-7053
WA08S3LIN-DRFRM	WA20-08-7086
WA08S3LIN-KLFDM	WA20-08-7056
WA08S3LIN-KLFRM	WA20-08-7253
WA08S3LIN-KRFD	WA20-08-7055
WA08S3LIN-KRFRM	WA20-08-7233
WA08S3LIN-NLFD	WA20-08-7003
WA08S3LIN-NLFRM	WA20-08-7007
WA08S3LIN-NLRDM	WA20-08-7175
WA08S3LIN-NRFBB	WA20-08-7057
WA08S3LIN-NRFDM	WA20-08-7000
WA08S3LIN-NRFEU	WA20-08-7031
WA08S3LIN-NRFRM	WA20-08-7004
WA08S4LCN-ARFDM	WA20-08-7112
WA08S4LIN-ALFDM	WA20-08-7089
WA08S4LIN-ALFRM	WA20-08-7163
WA08S4LIN-ARFBB	WA20-08-7119
WA08S4LIN-ARFDM	WA20-08-7015
WA08S4LIN-ARFDS	WA20-08-7123
WA08S4LIN-ARFRM	WA20-08-7042
WA08S4LIN-ARRDM	WA20-08-7139
WA08S4LIN-CRFD	WA20-08-7058
WA08S4LIN-CRFRM	WA20-08-7022
WA08S4LIN-DLFDM	WA20-08-7220
WA08S4LIN-DLFRM	WA20-08-7255
WA08S4LIN-DRFDM	WA20-08-7014
WA08S4LIN-DRFRM	WA20-08-7235
WA08S4LIN-KLFDM	WA20-08-7222
WA08S4LIN-KLFRM	WA20-08-7257
WA08S4LIN-KRFD	WA20-08-7032
WA08S4LIN-KRFRM	WA20-08-7237
WA08S4LIN-NLFBB	WA20-08-7151

BOM #	WORLD AMERICAN #
WA08S4LIN-NLFD	WA20-08-7012
WA08S4LIN-NLFRM	WA20-08-7134
WA08S4LIN-NLRDM	WA20-08-7101
WA08S4LIN-NLRRM	WA20-08-7164
WA08S4LIN-NRFBB	WA20-08-7114
WA08S4LIN-NRFDM	WA20-08-7001
WA08S4LIN-NRFEU	WA20-08-7167
WA08S4LIN-NRFRM	WA20-08-7002
WA08S4PBN-ALFDM	WA20-08-7059
WA08S4PBN-ARFRM	WA20-08-7126
WA08S4PBN-NLFD	WA20-08-7060
WA08S5LIN-ALFDM	WA20-08-7040
WA08S5LIN-ALFRM	WA20-08-7033
WA08S5LIN-ARFBB	WA20-08-7124
WA08S5LIN-ARFDM	WA20-08-7017
WA08S5LIN-ARFRM	WA20-08-7018
WA08S5LIN-CLRRM	WA20-08-7150
WA08S5LIN-CRFD	WA20-08-7028
WA08S5LIN-CRFRM	WA20-08-7010
WA08S5LIN-DLFDM	WA20-08-7224
WA08S5LIN-DLFRM	WA20-08-7259
WA08S5LIN-DRFDM	WA20-08-7061
WA08S5LIN-DRFRM	WA20-08-7239
WA08S5LIN-KLFDM	WA20-08-7226
WA08S5LIN-KLFRM	WA20-08-7261
WA08S5LIN-KRFD	WA20-08-7208
WA08S5LIN-KRFRM	WA20-08-7241
WA08S5LIN-NLFD	WA20-08-7027
WA08S5LIN-NLFRM	WA20-08-7026
WA08S5LIN-NLRDM	WA20-08-7113
WA08S5LIN-NLRRM	WA20-08-7173
WA08S5LIN-NRFBB	WA20-08-7148
WA08S5LIN-NRFDM	WA20-08-7005
WA08S5LIN-NRFRM	WA20-08-7006
WA08S5LSN-ARFDM	WA20-08-7062
WA08S5LSN-NRFDM	WA20-08-7063
WA08S5QWN-ALFDM	WA20-08-7064
WA08S6LIN-ALFDM	WA20-08-7066
WA08S6LIN-ARFDM	WA20-08-7065
WA08S6LIN-ARFRM	WA20-08-7034
WA08S6LIN-CLRRM	WA20-08-7141
WA08S6LIN-CRFD	WA20-08-7041
WA08S6LIN-CRFRM	WA20-08-7023
WA08S6LIN-DLFDM	WA20-08-7228
WA08S6LIN-DRFDM	WA20-08-7210
WA08S6LIN-DRFRM	WA20-08-7243
WA08S6LIN-KLFDM	WA20-08-7230
WA08S6LIN-KRFD	WA20-08-7212
WA08S6LIN-KRFRM	WA20-08-7245
WA08S6LIN-NLFD	WA20-08-7090
WA08S6LIN-NLFRM	WA20-08-7140
WA08S6LIN-NLRDM	WA20-08-7116

BOM #	WORLD AMERICAN #
WA08S6LIN-NRFDM	WA20-08-7068
WA08S6LIN-NRFRM	WA20-08-7067
WA08S6MHN-CRFD	WA20-08-7098
WA08S6MHN-CRFRM	WA20-08-7099
WA08S6QWN-KLFDM	WA20-08-7100
WA08S6QWN-NLFD	WA20-08-7069
WA08S7LIN-ALFDM	WA20-08-7168
WA08S7LIN-ALFRM	WA20-08-7122
WA08S7LIN-ARFDM	WA20-08-7019
WA08S7LIN-ARFRM	WA20-08-7035
WA08S7LIN-CLRRM	WA20-08-7160
WA08S7LIN-CRFD	WA20-08-7071
WA08S7LIN-DRFDM	WA20-08-7214
WA08S7LIN-DRFRM	WA20-08-7247
WA08S7LIN-KRFD	WA20-08-7216
WA08S7LIN-KRFRM	WA20-08-7249
WA08S7LIN-NLRDM	WA20-08-7161
WA08S7LIN-NRFBB	WA20-08-7149
WA08S7LIN-NRFDM	WA20-08-7070
WA08S7LIN-NRFRM	WA20-08-7020
WA08S7QWN-KLFDM	WA20-08-7072
WA08S7QWN-NLFD	WA20-08-7073
WA08S8LIN-ARFRM	WA20-08-7105
WA08S8LIN-NRFDM	WA20-08-7158
WA08S8LIN-NRFRM	WA20-08-7133
WA08S8LSN-CRFRM	WA20-08-7115
WA08S8MHN-CRFRM	WA20-08-7097
WA08S8MHN-NRFDM	WA20-08-7135
WA08S8PBN-ARFDM	WA20-08-7096
WA08S8PBN-NRFDM	WA20-08-7095
WA08S9LIN-ARFRM	WA20-08-7153
WA08S9LIN-NLFD	WA20-08-7155
WA08S9PVN-ARFRM	WA20-08-7171
WA08SHLIN-NRFDM	WA20-08-7142
WA10SARKL-2LFDM	WA20-10-9001
WA10SARKL-2LFRM	WA20-10-9005
WA10SBRKL-2LFDM	WA20-10-9002
WA10SBRKL-2LFRM	WA20-10-9006
WA10SCRKL-2LFDM	WA20-10-9003
WA10SCRKL-2LFRM	WA20-10-9007
WA10SDRKL-2LFDM	WA20-10-9004
WA10SDRKL-2LFRM	WA20-10-9008
WA16SFPBN-2RFDM	WA20-16-1500
WA16SGAKN-2RFDM	WA20-16-1501
WA26DPBN-4	WA20-26-0006
WA26MLIN-3LI	WA20-26-0003
WA26SLIN-3LI	WA20-26-0004
WA26SLIN-3NN	WA20-26-0001
WA26SLQN-LFS	WA20-26-0002
WA26SPBN-3	WA20-26-0005
WAH6MATWL-2LFDM	WA20-16-1502

WORLD AMERICAN® PTO FAMILY CHART

WORLD AMERICAN® PTO FAMILY CHART

Base PTO (BOM CODE)	With Metric Stud Kit (WA20-03-1056)	With Single ON/OFF Control (WA101X)	With Metric Kit & ON/OFF Control (WA20-03-1056 & WA101X)
WA20-08-7000 (WA08S3LIN-NRFD)	WA20-08-7030 (WA08M3LIN-NRFD)	WA20-08-7008 (WA08S3LIN-ARFD)	WA20-08-7016 (WA08M3LIN-ARFD)
WA20-08-7001 (WA08S4LIN-NRFD)	WA20-08-7036 (WA08M4LIN-NRFD)	WA20-08-7015 (WA08S4LIN-ARFD)	WA20-08-7046 (WA08M4LIN-ARFD)
WA20-08-7005 (WA08S5LIN-NRFD)	WA20-08-7049 (WA08M5LIN-NRFD)	WA20-08-7017 (WA08S5LIN-ARFD)	WA20-08-7037 (WA08M5LIN-ARFD)
WA20-08-7068 (WA08S6LIN-NRFD)	WA20-08-7038 (WA08M6LIN-NRFD)	WA20-08-7065 (WA08S6LIN-ARFD)	WA20-08-7051 (WA08M6LIN-ARFD)
WA20-08-7070 (WA08S7LIN-NRFD)	WA20-08-7039 (WA08M7LIN-NRFD)	WA20-08-7019 (WA08S7LIN-ARFD)	WA20-08-7087 (WA08M7LIN-ARFD)
WA20-08-7003 (WA08S3LIN-NLFD)	WA20-08-7088 (WA08M3LIN-NLFD)	WA20-08-7052 (WA08S3LIN-ALFD)	WA20-08-7044 (WA08M3LIN-ALFD)
WA20-08-7012 (WA08S4LIN-NLFD)	WA20-08-7048 (WA08M4LIN-NLFD)	WA20-08-7089 (WA08S4LIN-ALFD)	WA20-08-7047 (WA08M4LIN-ALFD)
WA20-08-7027 (WA08S5LIN-NLFD)	WA20-08-7093 (WA08M5LIN-NLFD)	WA20-08-7040 (WA08S5LIN-ALFD)	WA20-08-7169 (WA08M5LIN-ALFD)
WA20-08-7090 (WA08S6LIN-NLFD)	WA20-08-7199 (WA08M6LIN-NLFD)	WA20-08-7066 (WA08S6LIN-ALFD)	WA20-08-7204 (WA08M6LIN-ALFD)
WA20-08-7004 (WA08S3LIN-NRFR)	WA20-08-7025 (WA08M3LIN-NRFR)	WA20-08-7029 (WA08S3LIN-ARFR)	WA20-08-7043 (WA08M3LIN-ARFR)
WA20-08-7002 (WA08S4LIN-NRFR)	WA20-08-7159 (WA08M4LIN-NRFR)	WA20-08-7042 (WA08S4LIN-ARFR)	WA20-08-7011 (WA08M4LIN-ARFR)
WA20-08-7006 (WA08S5LIN-NRFR)	WA20-08-7009 (WA08M5LIN-NRFR)	WA20-08-7018 (WA08S5LIN-ARFR)	WA20-08-7021 (WA08M5LIN-ARFR)
WA20-08-7067 (WA08S6LIN-NRFR)	WA20-08-7127 (WA08M6LIN-NRFR)	WA20-08-7034 (WA08S6LIN-ARFR)	WA20-08-7050 (WA08M6LIN-ARFR)
WA20-08-7020 (WA08S7LIN-NRFR)	WA20-08-7102 (WA08M7LIN-NRFR)	WA20-08-7035 (WA08S7LIN-ARFR)	WA20-08-7107 (WA08M7LIN-ARFR)
WA20-08-7007 (WA08S3LIN-NLFR)	WA20-08-7132 (WA08M3LIN-NLFR)	WA20-08-7202 (WA08S3LIN-ALFR)	WA20-08-7117 (WA08M3LIN-ALFR)
WA20-08-7134 (WA08S4LIN-NLFR)	WA20-08-7200 (WA08M4LIN-NLFR)	WA20-08-7163 (WA08S4LIN-ALFR)	WA20-08-7203 (WA08M4LIN-ALFR)
WA20-08-7026 (WA08S5LIN-NLFR)	WA20-08-7201 (WA08M5LIN-NLFR)	WA20-08-7033 (WA08S5LIN-ALFR)	WA20-08-7146 (WA08M5LIN-ALFR)
WA20-08-7205 (WA08S3LIN-CRFD)	WA20-08-7104 (WA08M3LIN-CRFD)	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
WA20-08-7058 (WA08S4LIN-CRFD)	WA20-08-7192 (WA08M4LIN-CRFD)	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
WA20-08-7028 (WA08S5LIN-CRFD)	WA20-08-7193 (WA08M5LIN-CRFD)	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
WA20-08-7041 (WA08S6LIN-CRFD)	WA20-08-7194 (WA08M6LIN-CRFD)	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
WA20-08-7071 (WA08S7LIN-CRFD)	WA20-08-7195 (WA08M7LIN-CRFD)	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS

With Dual Control With Kickout (WA201X)	With Dual control With Kickout & Metric Stud Kit (WA201X & Wa20-03-1056)	With Dual Control Without Kickout (WA202X)	With Dual Control Without Kickout & Metric Stud Kit (WA202X & Wa20-03-1056)
WA20-08-7053 (WA08S3LIN-DRFDM)	WA20-08-7051 (WA08M3LIN-DRFDM)	WA20-08-7047 (WA08S3LIN-KRFDM)	WA20-08-7206 (WA08M3LIN-KRFDM)
WA20-08-7014 (WA08S4LIN-DRFDM)	WA20-08-7125 (WA08M4LIN-DRFDM)	WA20-08-7032 (WA08S4LIN-KRFDM)	WA20-08-7207 (WA08M4LIN-KRFDM)
WA20-08-7061 (WA08S5LIN-DRFDM)	WA20-08-7152 (WA08M5LIN-DRFDM)	WA20-08-7208 (WA08S5LIN-KRFDM)	WA20-08-7209 (WA08M5LIN-KRFDM)
WA20-08-7210 (WA08S6LIN-DRFDM)	WA20-08-7211 (WA08M6LIN-DRFDM)	WA20-08-7212 (WA08S6LIN-KRFDM)	WA20-08-7213 (WA08M6LIN-KRFDM)
WA20-08-7214 (WA08S7LIN-DRFDM)	WA20-08-7215 (WA08M7LIN-DRFDM)	WA20-08-7216 (WA08S7LIN-KRFDM)	WA20-08-7217 (WA08M7LIN-KRFDM)
WA20-08-7054 (WA08S3LIN-DLFRM)	WA20-08-7218 (WA08M3LIN-DLFRM)	WA20-08-7056 (WA08S3LIN-KLFRM)	WA20-08-7219 (WA08M3LIN-KLFRM)
WA20-08-7220 (WA08S4LIN-DLFRM)	WA20-08-7221 (WA08M4LIN-DLFRM)	WA20-08-7222 (WA08S4LIN-KLFRM)	WA20-08-7223 (WA08M4LIN-KLFRM)
WA20-08-7224 (WA08S5LIN-DLFRM)	WA20-08-7225 (WA08M5LIN-DLFRM)	WA20-08-7226 (WA08S5LIN-KLFRM)	WA20-08-7227 (WA08M5LIN-KLFRM)
WA20-08-7228 (WA08S6LIN-DLFRM)	WA20-08-7229 (WA08M6LIN-DLFRM)	WA20-08-7230 (WA08S6LIN-KLFRM)	WA20-08-7231 (WA08M6LIN-KLFRM)
WA20-08-7086 (WA08S3LIN-DRFRM)	WA20-08-7232 (WA08M3LIN-DRFRM)	WA20-08-7233 (WA08S3LIN-KRFRM)	WA20-08-7234 (WA08M3LIN-KRFRM)
WA20-08-7235 (WA08S4LIN-DRFRM)	WA20-08-7236 (WA08M4LIN-DRFRM)	WA20-08-7237 (WA08S4LIN-KRFRM)	WA20-08-7238 (WA08M4LIN-KRFRM)
WA20-08-7239 (WA08S5LIN-DRFRM)	WA20-08-7240 (WA08M5LIN-DRFRM)	WA20-08-7241 (WA08S5LIN-KRFRM)	WA20-08-7242 (WA08M5LIN-KRFRM)
WA20-08-7243 (WA08S6LIN-DRFRM)	WA20-08-7244 (WA08M6LIN-DRFRM)	WA20-08-7245 (WA08S6LIN-KRFRM)	WA20-08-7246 (WA08M6LIN-KRFRM)
WA20-08-7247 (WA08S7LIN-DRFRM)	WA20-08-7248 (WA08M7LIN-DRFRM)	WA20-08-7249 (WA08S7LIN-KRFRM)	WA20-08-7250 (WA08M7LIN-KRFRM)
WA20-08-7251 (WA08S3LIN-DLFRM)	WA20-08-7252 (WA08M3LIN-DLFRM)	WA20-08-7253 (WA08S3LIN-KLFRM)	WA20-08-7254 (WA08M3LIN-KLFRM)
WA20-08-7255 (WA08S4LIN-DLFRM)	WA20-08-7256 (WA08M4LIN-DLFRM)	WA20-08-7257 (WA08S4LIN-KLFRM)	WA20-08-7258 (WA08M4LIN-KLFRM)
WA20-08-7259 (WA08S5LIN-DLFRM)	WA20-08-7260 (WA08M5LIN-DLFRM)	WA20-08-7261 (WA08S5LIN-KLFRM)	WA20-08-7262 (WA08M5LIN-KLFRM)
DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS

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WORLD AMERICAN® PTO FAMILY CHART (Continued)

Base PTO (BOM CODE)	With Metric Stud Kit (WA20-03-1056)	With Single ON/OFF Control (WA101X)	With Metric Kit & ON/OFF Control (WA20-03-1056 & WA101X)
WA20-08-7022 (WA08S4LIN-CRFRM)	WA20-08-7103 (WA08M4LIN-CRFRM)	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
WA20-08-7010 (WA08S5LIN-CRFRM)	WA20-08-7197 (WA08M5LIN-CRFRM)	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
WA20-08-7023 (WA08S6LIN-CRFRM)	WA20-08-7198 (WA08M6LIN-CRFRM)	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
WA20-08-7078 (WA08D3PBN-NLFD)	DOES NOT USE METRIC KITS	WA20-08-7076 (WA08D3PBN-ALFD)	DOES NOT USE METRIC KITS
WA20-08-7081 (WA08D4PBN-NLFD)	DOES NOT USE METRIC KITS	WA20-08-7079 (WA08D4PBN-ALFD)	DOES NOT USE METRIC KITS
WA20-08-7120 (WA08D5PBN-NLFD)	DOES NOT USE METRIC KITS	WA20-08-7110 (WA08D5PBN-ALFD)	DOES NOT USE METRIC KITS
WA20-08-7085 (WA08D6PBN-NLFD)	DOES NOT USE METRIC KITS	WA20-08-7157 (WA08D6PBN-ALFD)	DOES NOT USE METRIC KITS
WA20-08-7077 (WA08D3PBN-NLFRM)	DOES NOT USE METRIC KITS	WA20-08-7075 (WA08D3PBN-ALFRM)	DOES NOT USE METRIC KITS
WA20-08-7091 (WA08D4PBN-NLFRM)	DOES NOT USE METRIC KITS	WA20-08-7092 (WA08D4PBN-ALFRM)	DOES NOT USE METRIC KITS
WA20-08-7131 (WA08D5PBN-NLFRM)	DOES NOT USE METRIC KITS	WA20-08-7144 (WA08D5PBN-ALFRM)	DOES NOT USE METRIC KITS
WA20-08-7082 (WA08D6PBN-NLFRM)	DOES NOT USE METRIC KITS	WA20-08-7263 (WA08D6PBN-ALFRM)	DOES NOT USE METRIC KITS
WA20-06-5022 (WA06S3LIN-NRFD)	WA20-06-5012 (WA06M3LIN-NRFD)	WA20-06-5082 (WA06S3LIN-ARFD)	WA20-06-5327 (WA06M3LIN-ARFD)
WA20-06-5009 (WA06S4LIN-NRFD)	WA20-06-5016 (WA06M4LIN-NRFD)	WA20-06-5010 (WA06S4LIN-ARFD)	WA20-06-5014 (WA06M4LIN-ARFD)
WA20-06-5000 (WA06S5LIN-NRFD)	WA20-06-5333 (WA06M5LIN-NRFD)	WA20-06-5029 (WA06S5LIN-ARFD)	WA20-06-5334 (WA06M5LIN-ARFD)
WA20-06-5033 (WA06S6LIN-NRFD)	WA20-06-5179 (WA06M6LIN-NRFD)	WA20-06-5031 (WA06S6LIN-ARFD)	WA20-06-5337 (WA06M6LIN-ARFD)
WA20-06-5232 (WA06S7LIN-NRFD)	WA20-06-5342 (WA06M7LIN-NRFD)	WA20-06-5107 (WA06S7LIN-ARFD)	WA20-06-5343 (WA06M7LIN-ARFD)
WA20-06-5021 (WA06S3LIN-NRFRM)	WA20-06-5005 (WA06M3LIN-NRFRM)	WA20-06-5124 (WA06S3LIN-ARFRM)	WA20-06-5139 (WA06M3LIN-ARFRM)
WA20-06-5077 (WA06S4LIN-NRFRM)	WA20-06-5015 (WA06M4LIN-NRFRM)	WA20-06-5130 (WA06S4LIN-ARFRM)	WA20-06-5284 (WA06M4LIN-ARFRM)
WA20-06-5105 (WA06S5LIN-NRFRM)	WA20-06-5145 (WA06M5LIN-NRFRM)	WA20-06-5028 (WA06S5LIN-ARFRM)	WA20-06-5184 (WA06M5LIN-ARFRM)
WA20-06-5032 (WA06S6LIN-NRFRM)	WA20-06-5358 (WA06M6LIN-NRFRM)	WA20-06-5030 (WA06S6LIN-ARFRM)	WA20-06-5373 (WA06M6LIN-ARFRM)
WA20-06-5108 (WA06S7LIN-NRFRM)	WA20-06-5359 (WA06M7LIN-NRFRM)	WA20-06-5109 (WA06S7LIN-ARFRM)	WA20-06-5209 (WA06M7LIN-ARFRM)
WA20-06-5122 (WA06S8LIN-NRFRM)	WA20-06-5360 (WA06M8LIN-NRFRM)	WA20-06-5123 (WA06S8LIN-ARFRM)	WA20-06-5374 (WA06M8LIN-ARFRM)

With Dual Control With Kickout (WA201X)	With Dual control With Kickout & Metric Stud Kit (WA201X & Wa20-03-1056)	With Dual Control Without Kickout (WA202X)	With Dual Control Without Kickout & Metric Stud Kit (WA202X & Wa20-03-1056)
DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS	DOES NOT USE AIR SHIFT KITS
WA20-08-7180 (WA08D3PBN-DLFDM)	DOES NOT USE METRIC KITS	WA20-08-7181 (WA08D3PBN-KLFDM)	DOES NOT USE METRIC KITS
WA20-08-7124 (WA08D4PBN-DLFDM)	DOES NOT USE METRIC KITS	WA20-08-7080 (WA08D4PBN-KLFDM)	DOES NOT USE METRIC KITS
WA20-08-7182 (WA08D5PBN-DLFDM)	DOES NOT USE METRIC KITS	WA20-08-7183 (WA08D5PBN-KLFDM)	DOES NOT USE METRIC KITS
WA20-08-7184 (WA08D6PBN-DLFDM)	DOES NOT USE METRIC KITS	WA20-08-7185 (WA08D6PBN-KLFDM)	DOES NOT USE METRIC KITS
WA20-08-7186 (WA08D3PBN-DLFRM)	DOES NOT USE METRIC KITS	WA20-08-7187 (WA08D3PBN-KLFRM)	DOES NOT USE METRIC KITS
WA20-08-7188 (WA08D4PBN-DLFRM)	DOES NOT USE METRIC KITS	WA20-08-7189 (WA08D4PBN-KLFRM)	DOES NOT USE METRIC KITS
WA20-08-7190 (WA08D5PBN-DLFRM)	DOES NOT USE METRIC KITS	WA20-08-7191 (WA08D5PBN-KLFRM)	DOES NOT USE METRIC KITS
WA20-08-7178 (WA08D6PBN-DLFRM)	DOES NOT USE METRIC KITS	WA20-08-7179 (WA08D6PBN-KLFRM)	DOES NOT USE METRIC KITS
WA20-06-5135 (WA06S3LIN-DRFDM)	WA20-06-5278 (WA06M3LIN-DRFDM)	WA20-06-5328 (WA06S3LIN-KRFDM)	WA20-06-5329 (WA06M3LIN-KRFDM)
WA20-06-5112 (WA06S4LIN-DRFDM)	WA20-06-5375 (WA06M4LIN-DRFDM)	WA20-06-5376 (WA06S4LIN-KRFDM)	WA20-06-5332 (WA06M4LIN-KRFDM)
WA20-06-5003 (WA06S5LIN-DRFDM)	WA20-06-5001 (WA06M5LIN-DRFDM)	WA20-06-5335 (WA06S5LIN-KRFDM)	WA20-06-5336 (WA06M5LIN-KRFDM)
WA20-06-5322 (WA06S6LIN-DRFDM)	WA20-06-5339 (WA06M6LIN-DRFDM)	WA20-06-5340 (WA06S6LIN-KRFDM)	WA20-06-5341 (WA06M6LIN-KRFDM)
WA20-06-5344 (WA06S7LIN-DRFDM)	WA20-06-5345 (WA06M7LIN-DRFDM)	WA20-06-5346 (WA06S7LIN-KRFDM)	WA20-06-5347 (WA06M7LIN-KRFDM)
WA20-06-5348 (WA06S3LIN-DRFRM)	WA20-06-5349 (WA06M3LIN-DRFRM)	WA20-06-5140 (WA06S3LIN-KRFRM)	WA20-06-5350 (WA06M3LIN-KRFRM)
WA20-06-5153 (WA06S4LIN-DRFDM)	WA20-06-5351 (WA06M4LIN-DRFRM)	WA20-06-5352 (WA06S4LIN-KRFRM)	WA20-06-5353 (WA06M4LIN-KRFRM)
WA20-06-5354 (WA06S5LIN-DRFRM)	WA20-06-5355 (WA06M5LIN-DRFRM)	WA20-06-5356 (WA06S5LIN-KRFRM)	WA20-06-5357 (WA06M5LIN-KRFRM)
WA20-06-5361 (WA06S6LIN-DRFRM)	WA20-06-5364 (WA06M6LIN-DRFRM)	WA20-06-5365 (WA06S6LIN-KRFRM)	WA20-06-5366 (WA06M6LIN-KRFRM)
WA20-06-5362 (WA06S7LIN-DRFRM)	WA20-06-5367 (WA06M7LIN-DRFRM)	WA20-06-5368 (WA06S7LIN-KRFRM)	WA20-06-5369 (WA06M7LIN-KRFRM)
WA20-06-5363 (WA06S8LIN-DRFRM)	WA20-06-5370 (WA06M8LIN-DRFRM)	WA20-06-5371 (WA06S8LIN-KRFRM)	WA20-06-5372 (WA06M8LIN-KRFRM)

WARRANTY CLAIM FORM

HYDRAULIC UNITS

DATE: _____
RGA NUMBER: _____ INVOICE OR SALES ORDER NUMBER: _____
COMPANY NAME: _____ CONTACT: _____
ADDRESS: _____
CITY, STATE, ZIP: _____
PHONE: _____ FAX OR EMAIL: _____

TYPE OF UNIT

DUMP PUMP: _____ GEAR PUMP: _____ PTO: _____ POWER STEERING PUMP: _____
PART NUMBER: _____ SERIAL NUMBER: _____
DATE INSTALLED: _____ DATE OF COMPLAINT: _____
HOW IS UNIT SHIFTED (CIRCLE ONE): AIR CABLE/WIRE

APPLICATION

TRANSMISSION MODEL: _____ PTO NUMBER OF PUMPS ONLY: _____
OPERATING ENGINE RPM: _____ DUTY CYCLE (HOW LONG IT RUNS FOR): _____
OPERATING PSI: _____ RELIEF VALVE SETTING: _____
TYPE OF HYDRAULIC HOSE SYSTEM (CIRCLE ONE): 2 LINE / 3 LINE

REASON FOR RETURN (BE SPECIFIC): _____

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MIDWEST QUALITY CONTROL ONLY RGA ISSUED BY: _____

VENDOR CODE: _____ BATCH CODE: _____

VISUAL INSPECTION: _____

DISASSEMBLY INSPECTION: _____

CONCLUSION: _____

APPROVED: _____ DENIED: _____ DENIAL LETTER #: _____ FORM S/N: _____

QUALITY ASSURANCE MANAGER: _____ DATE: _____