



RL~D40

PARTS LIST # 102689I

USE THIS PARTS LIST FOR:

Hoist Serial Number 24815 to _____

For older hoists use the following:

Parts List No. 102689E for Serial Number 17062 to 24814

Parts List No. 102689C for Serial Number 15327 to 17061

Parts List No. 102689 for Serial Number 001 to 15326

IF YOUR HOIST DOES NOT FALL WITHIN THE SERIAL NUMBERS BREAKS,
CONTACT HARSH TO GET THE APPROPRIATE MANUAL

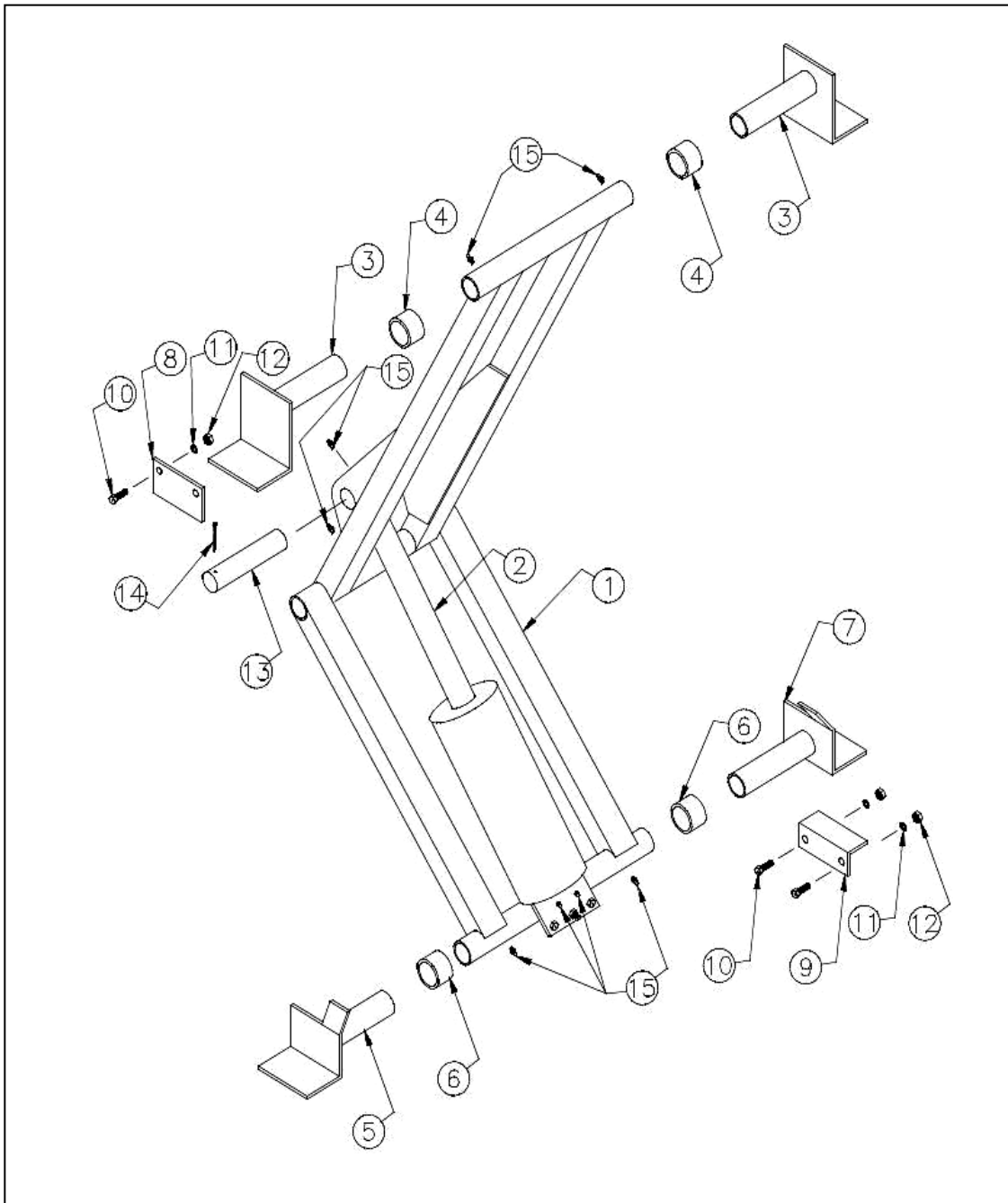
For pump replacement part numbers, consult the parts lists supplied with the pump

IT IS RECOMMENDED THAT THIS HOIST
BE INSTALLED BY A QUALIFIED
TRUCK EQUIPMENT INSTALLER

Harsh International, Inc.
600 Oak Avenue
Eaton, Colorado 80615

PHONE: (877) 427-7448 Toll-Free
(970) 454-1755 Local

FAX: (970) 454-1761
EMAIL: customersupport@harshenviro.com



D40 HOIST SCISSOR ASSEMBLY

ITEM	PART #	QTY	DESCRIPTION	ITEM	PART #	QTY	DESCRIPTION
1	A15837	1	SCISSOR ASSEMBLY	9	10047	2	FRAME ATTACHMENT ANGLE
*2	A1718	1	CYLINDER ASSEMBLY (COMPLETE)	10	100230	8	SCREW,HX HD CAP
3	A15874	2	UPPER MOUNT	11	100272	8	WASHER, LOCK
4	15877	2	SPACER TUBE 3 OD	12	100250	8	NUT,HX
5	A15872	1	LOWER MOUNT	13	15876	1	CYLINDER MOUNT PIN
6	15573	2	SPACER TUBE 3 OD	14	102132	1	COTTER PIN
7	A15871	1	LOWER MOUNT	15	100037	8	GREASE FITTING (DRIVE IN)
8	10039	2	STRINGER PLATE	*16	A9776	1	DECAL KIT

NOTE: *2 - A1718 INCLUDES CYLINDER ASSY, BOLTS, LOCK WASHERS, NUTS, ZERKS AND SPACER.

*16 - A9776 INCLUDES ALL DECALS USED ON HOIST.

SOME HOISTS MAY HAVE SELF TAPPING ZERKS IN VARIOUS LOCATIONS.

**CYLINDER ASSEMBLY
PART # A1718**

QTY	ITEM #	PART #	DESCRIPTION
3	6	100250	NUT
3	5	100272	LOCK WASHER
3	4	100905	SCREW, HEX HD CAP
1	3	15870	SPACER, MOUNTING
3	2	100037	GREASE ZERK, DRIVE-IN
1	1	A15863	CYLINDER ASSY D40

**GLAND NUT SEAL KIT
PART # A9015**

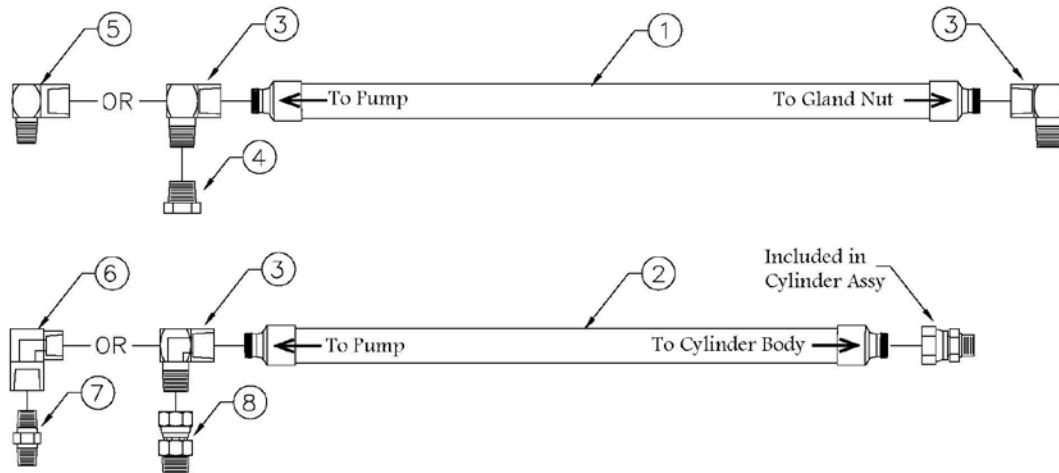
QTY	ITEM #	PART #	DESCRIPTION
1	7	104321	SEAL, B TYPE POLYPAK 18702750-281B
1	6	102736	INSTALLATION INSTRUCTIONS
1	5	100199	WIPER RING, 2-3/4 ID—27
1	4	100609	BACK-UP RING, 2-3/4 ID—335
1	3	100196	O-RING, 2-3/4 ID x 3/16 CS—335
1	2	102753	BACK-UP RING, 5-1/4 ID—252
1	1	100197	O-RING, 5-1/4 ID x 1/8 CS—252

**PISTON SEAL KIT
PART # A9417**

QTY	ITEM #	PART #	DESCRIPTION
2	3	100608	BACK-UP RING, 5 ID—429
2	2	100165	O-RING, 5 ID x 1/4 CS—429
1	1	100200	O-RING, 2-1/2 ID x 1/8 CS—230

**DECAL KIT # A9776
RL-D40**

QTY	ITEM #	PART #	DESCRIPTION
1	7	101045	DECAL, MAX CYL PRESS 3300 PSI
1	6	101117	DECAL, PUMP-PTO
1	5	101106	DECAL, HOIST OPERATION (ELEC PUMP)
1	4	101102	DECAL, BOX PROP
2	3	101101	DECAL, BOX PROP
1	2	100974	DECAL, TAILHINGE
1	1	100896	DECAL, HOIST OPERATION (PTO PUMP)



D40 HOIST HOSE ASSEMBLY

ITEM #	PART #	QTY	DESCRIPTION
1	100973	1	HOSE ASSY, 72" LG
2	100000	1	HOSE ASSY, 49" LG
3	100451	4	ELBOW, 90 DEG, 3/8 (M) x 3/8 (F)
4	100015	1	BUSHING
5	100527	1	ELBOW, 90 DEG, 3/8 (F) x 1/4 (M)
6	102010	1	ELBOW, 90 DEG, 3/8 (F) x 1/4 (F)
7	102011	1	ADAPTER, 1/4 (M) x 1/4 (M)
8	103041	1	ADAPTER, 1/2 (M) x 3/8 (F) SWVL

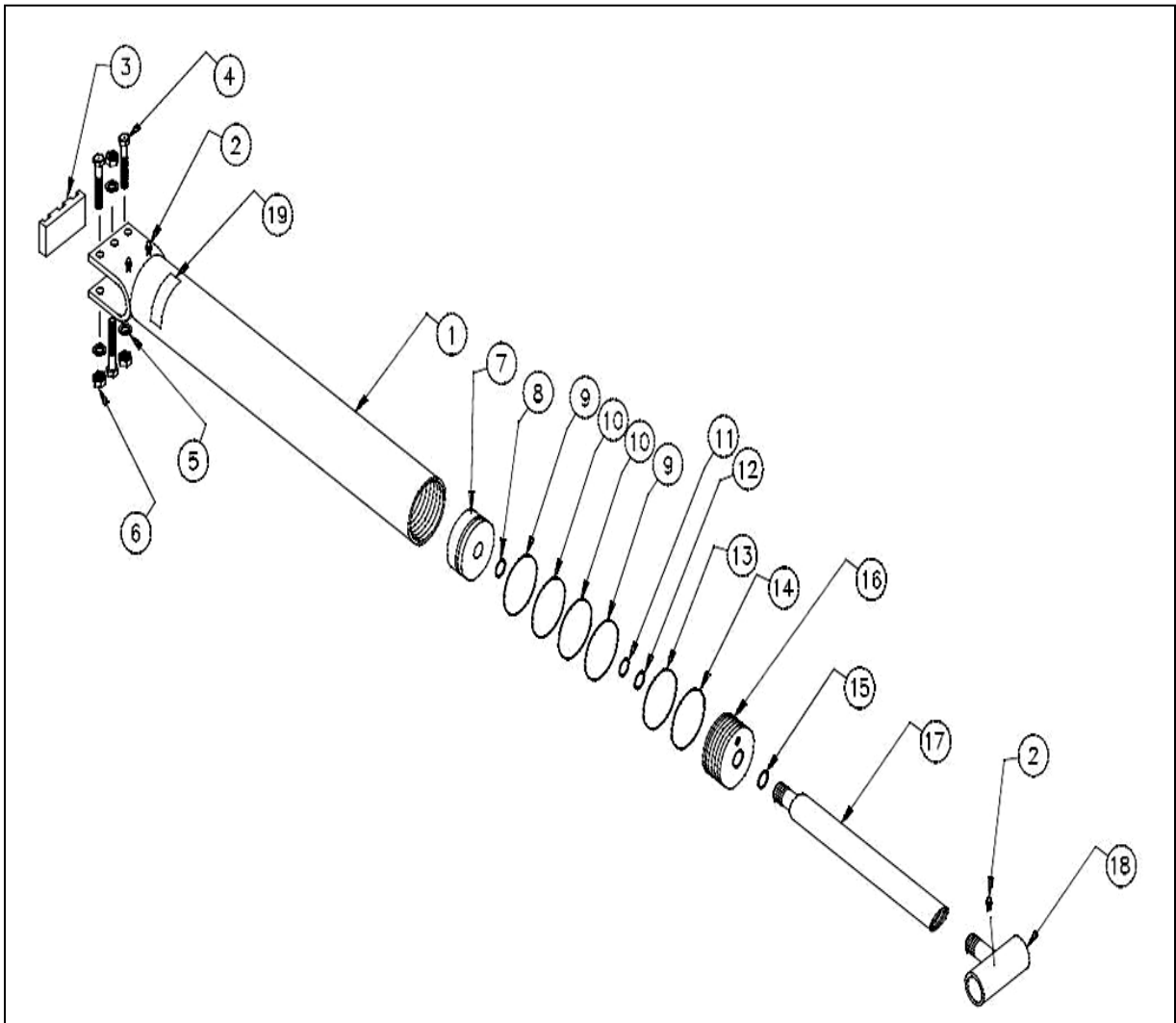
NOTE: *3 FOR PTO DRIVEN PUMP—USE 100451, QTY: 4

*3 FOR ELEC PUMP—USE 100451, QTY: 2

*4 FOR TANK & VALVE—ADD BUSHINGS (100015) TO ELBOW (100451) BEFORE CONNECTING TO VALVE

*6, 7, 8 FOR USE ON MONARCH ELECTRIC PUMP (103012)

*9 FOR USE WITH PTO DRIVEN PUMP



D40 HOIST CYLINDER PARTS LIST

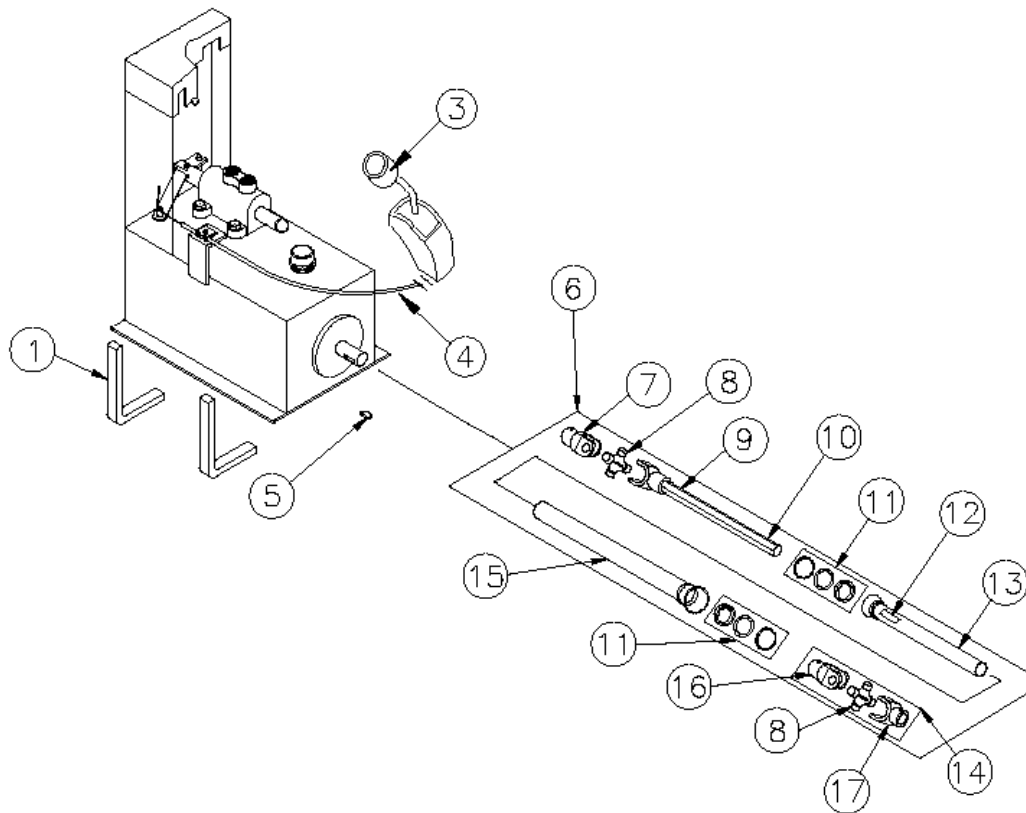
ITEM	PART #	QTY	DESCRIPTION	ITEM	PART #	QTY	DESCRIPTION
*	A1718	1	CYLINDER ASSEMBLY (COMPLETE)		A9015	1	SEAL KIT
1	A15864	1	CYLINDER BODY ASSEMBLY	*11	100196	1	O-RING
2	100037	3	GREASE FITTING (DRIVE IN)	*12	100609	1	BACK-UP RING
3	15870	1	CYLINDER MNT SPACER	*13	100197	1	O-RING
4	100905	3	SCREW, HX HD CAP	*14	102735	1	BACK-UP RING
5	100272	3	WASHER, LOCK	*15	100199	1	WIPER RING
6	100250	3	NUT, HX	16	16334	1	GLAND NUT
7	15866	1	PISTON	17	10033	1	CYLINDER ROD TUBE
	A9417	1	SEAL KIT	18	A15867	1	CYLINDER TOP MNT ASSEMBLY
*8	100200	1	O-RING	19	101045	1	DECAL, MAX CYL PRESS 3300 PSI
*9	100165	2	O-RING				
*10	100608	2	BACK-UP RING				

NOTE: *A1718 - INCLUDES CYLINDER ASSY, SCREWS, LOCK WASHERS, NUTS, ZERKS AND SPACER.

*8-10 - NOT SOLD SEPARATELY, SOLD AS SEAL KIT #A9417 ONLY.

*11-15 - NOT SOLD SEPARATELY, SOLD AS SEAL KIT #A9015 ONLY.

*11-12 - REPLACED BY 104321 - SEAL, B TYPE POLYPAK 18702750-281B



PTO SHAFT AND PUMP ACCESSORIES

ITEM #	PART #	QTY	DESCRIPTION	ITEM #	PART #	QTY	DESCRIPTION
1	10062	2	PUMP MOUNT BRACKET, STD, 2 CHANNEL FORMED	7	9802	1	YOKE, IMPLEMENT, 1 BORE
*2	103057	1	RECEIVER BONNET KIT	8	9788	2	CROSS & BEARING KIT, COMPLETE, HOIST
*3	W2376	1	CONTROL HEAD, ANGLED	9	9801	1	DECAL, "DANGER WARNING" INSIDE SHIELD
	W2375	1	CONTROL HEAD, STRAIGHT	10	A9840	1	YOKE & SHAFT ASSEMBLY, 1 1/8 HEX X 41 3/4 LG
*4	103060	1	CABLE RECIEVER W/SHORT FITTING, 72 LG	11	9795	2	BEARING SHIELD KIT, G & G PTO SHAFT
	103056	1	CABLE RECIEVER W/ SHORT FITTING, 84 LG	12	9800	1	DECAL, "DANGER WARNING" OUTSIDE SHIELD
	103061	1	CABLE RECEIVER W/ SHORT FITTING, 96 LG	13	9793	1	OUTER PLASTIC SHIELD, 2 11/16 OD, HOIST
	103062	1	CABLE RECEIVER W/ SHORT FITTING, 120 LG	14	102999	1	U-JOINT ASSEMBLY, 1 1/8 HEX X 1 1/4 RND
	103075	1	BONNET STYLE CABLE, 144 LG	15	9794	1	INNER PLASTIC SHIELD, 2 3/8 OD, HOIST
	W2584	1	CABLE, BONNET STYLE, 180 LG	16	9797	1	YOKE, SLIP, 1 1/8 HEX BORE, HOIST
5	4451	1	KEY, WOODRUFF 7/8 X 1/4 X 3/8	17	9799	1	YOKE, IMPLEMENT, 1 1/4 RND BORE, HOIST
*6	102943	1	DRIVE SHAFT, 1 1/8 HEX SHAFT, HOIST	*18	100896	1	DECAL, "HOIST OPERATION INSTRUCTIONS" PTO PUMP

NOTE:*2—CONNECTION HARDWARE NOT SHOWN

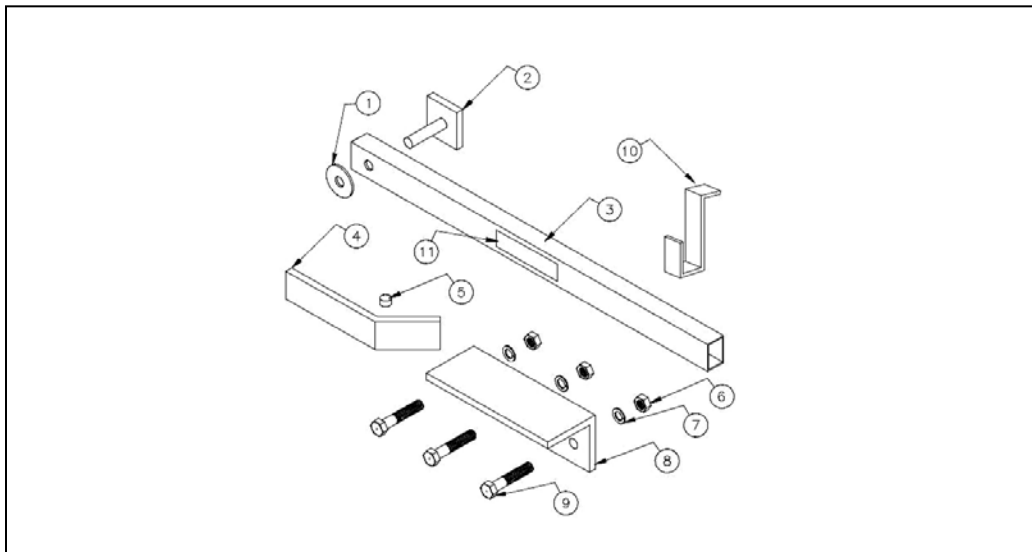
*3—UNIT IS SHIPPED WITH PART # 103058

*4—VARIOUS LENGTHS AVAILABLE.

*6—INCLUDES ITEMS 7 THROUGH 15.

*18—APPLY DECAL #100896 ON DASHBOARD AS NEAR AS POSSIBLE TO HOIST CONTROLS.
DECAL IS INCLUDED IN DECAL KIT #A9775.

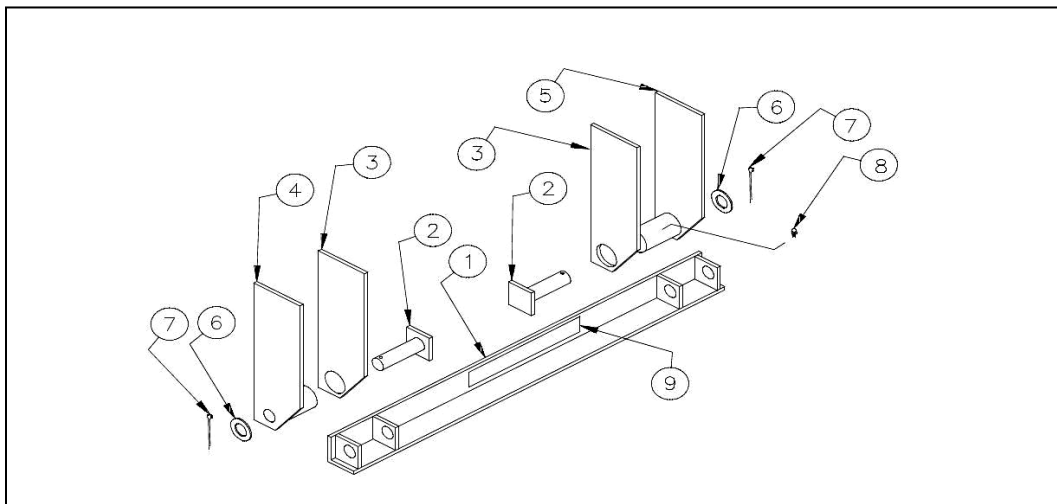
NEVER OPERATE PTO WITHOUT SHIELDS IN PLACE



D40 SAFETY PROP PARTS LIST

ITEM	PART #	QTY	DESCRIPTION	ITEM	PART #	QTY	DESCRIPTION
	A1387	1	SAFETY PROP ASSEMBLY	7	100272	3	LOCKWASHER
1	101123	1	WASHER, FLAT	8	12251	1	BOTTOM ANGLE
2	A12245	1	PIN PLATE ASSEMBLY	9	100230	3	SCREW, HEX HD CAP
3	12243	1	SAFETY BOX PROP	10	12256	1	BRACKET, LATCHING
4	12249	1	SIDE PLATE	*11	101101	2	DECAL, BOX PROP (10 x 4 3/4)
5	12248	1	STOP PEG	12	101102	1	DECAL, BOX PROP (9 1/4 x 1 1/2)
6	100250	3	NUT				

NOTE: *11 - APPLY ON OUTSIDE RUB RAIL IN AREA OF THE SERVICE SAFETY PROP. ONE DECAL ON EACH SIDE OF BOX.



D40 HOIST TAIL HINGE PARTS LIST

ITEM	PART #	QTY	DESCRIPTION	ITEM	PART #	QTY	DESCRIPTION
	A1282	1	TAIL HINGE ASSEMBLY	5	A10167-2	1	VERTICAL PLATE ASSY
1	A10170	1	TAIL HINGE ANGLE ASSY	6	101123	2	WASHER, FLAT
2	A10164	2	PIN ASSY	7	101077	2	COTTER PIN, 2" LG.
3	10165	2	VERTICAL PLATE	8	100037	2	GREASE ZERK
4	A10167-1	1	VERTICAL PLATE ASSY	9	100974	1	DECAL, TAIL HINGE

HOIST SHIPPING GROUP

OPTION	PUMP	DESCRIPTION	SCISSOR BUNDLE	SM PARTS	PTO SHAFT	TAIL HINGE	BOX PROP	QTY
D40-00	~~	NO PUMP	A1717	A1799	~~	~~	A1387	1
D40-03	10306 7	PUMP, 8P, 27QT, (2)4- WAY VALVE WMS#F98 - 6 - 6R - 27QT - 7	~~	A1743	A1837	A1282	A1387	1
D40-04	10306 6	PUMP, 8P, 27QT, 4- WAY VALVE (WMS #F98) WMS#F98 -6- 27QT - 2416-7	A1717	A1743	A1837	A1282	A1387	1
D40-07	10301 2	ELECTRIC PUMP, 3300PSI MONARCH # M- 3551-0155	A1717	A1742	~~	A1282	A1387	1
D40-08	10291 2	TANK & VALVE-27QT, 4-WAY VALVE (WMS #W15) G70-H80	A1717	A1743	~~	A1282	A1387	1
D40-10	10291 2	TANK & VALVE-27QT, 4-WAY VALVE	A1717	A1743	~~	A1282	A1387	1
~~	10305 3	PUMP, 8 GPM, GP2025 (WMS)	~~	~~	~~	~~	~~	~~
D40-20	~~	ENGLAND	A1766	~~	~~	~~	~~	~~
D40-20	~~	ENGLAND-UPSIDE DOWN MOUNT	A1877					1
~~	A1906 9	HOIST SUB-FRAME	~~	~~	~~	~~	~~	~~

PUMP, 8P 2-4W VALVE, WMS# F98-6-6R-27QT-2416-7 PART # 103067

QTY	ITEM #	PART #	DESCRIPTION
1	15	9843	SAFETY & OPERATING MANUAL, PUMP (WMS)
1	14	100182	BREATHING CAP, 2 3/4 OD X 1 1/2 (WMS #1013)
1	13	4451	KEY, WOODRUFF 7/8 X 1/4 X 3/8
1	12	103055	CONTROL KIT, BONNET STYLE 6 W/ CURVED HANDLE, 84 LG
1	11	9661	HOSE, 3/8 X 16 1/2 LG (WMS #1276)
1	10	9331	HOSE, 3/8 X 22 LG (WMS #1264)
2	9	9037	SHAFT SEAL (WMS #1028)
2	8	101273	GASKET, VALVE, 4-BOLT (WMS)
1	7	9036	RESERVOIR PUMP GASKET (WMS #1012)
1	6	9783	PUMP KIT, 8P, F98, 3300PSI (WMS #F98-11)
1	5	9785	PUMP KIT, 8P, F98R, 3300PSI (REBUILT)
1	4	9844	RELIEF VALVE, AUX, #2559 (WMS #1087)
2	3	9282	RELIEF VALVE, SYSTEM, 3300PSI (WMS #1087)
1	2	101275	VALVE KIT, 4-WAY, #6R
1	1	103068	VALVE KIT, 4-WAY, #6

**PUMP, 8P-4W VALVE, WMS# F98-6-27QT-2416-7
PART # 103066**

QTY	ITEM #	PART #	DESCRIPTION
1	1	9843	MANUAL,SAFETY/MAINTENANCE
1	1	103055	CABLE CONTROL
1	1	100182	CAP, BREATHER
1	9	4451	KEY, WOODRUFF 1/4 x 7/8
1	8	9661	PRESSURE LINE
2	7	9037	SEAL, SHAFT
2	6	101273	GASKET, VALVE (4-BOLT)
1	5	9036	GASKET,PUMP-RESERVOIR
1	4	9783	KIT, F98 PUMP
1	3	9785	KIT, F98R PUMP (REBUILT)
2	2	9282	VALVE, RELIEF (SYSTEM)
1	1	103068	KIT, #6 VALVE, 4-WAY

MONARCH ELECTRIC PUMP PART # 103012

QTY	ITEM #	PART #	DESCRIPTION
1	12	9983	VENT PLUG
1	11	9859	PUMP MNT BRACKET
1	10	9858	RELIEF VALVE PARTS KIT
1	9	9857	CONTROL BOX ASSY
1	8	9856	POPPET ASSY, FLOW CONTRIL
1	7	4437	SWITCH, SOLENOID
1	6	9990	RESERVOIR, 6 OD x 24 LG, POLY
1	5	9853	MOTOR, ELEC PUMP
1	4	~~~~	COIL, 10 VDC
1	3	9851	VALVE, 2-WAY
1	2	9850	VALVE, 4-WAY
1	1	9861	PUMP ASSY. ELECTRIC, 3300 PSI

