

To Protect Your Warranty, Use Only ENERPAC Hydraulic Oil.

Enerpac recommends that all kit components be installed to insure optimum performance of the repaired product.

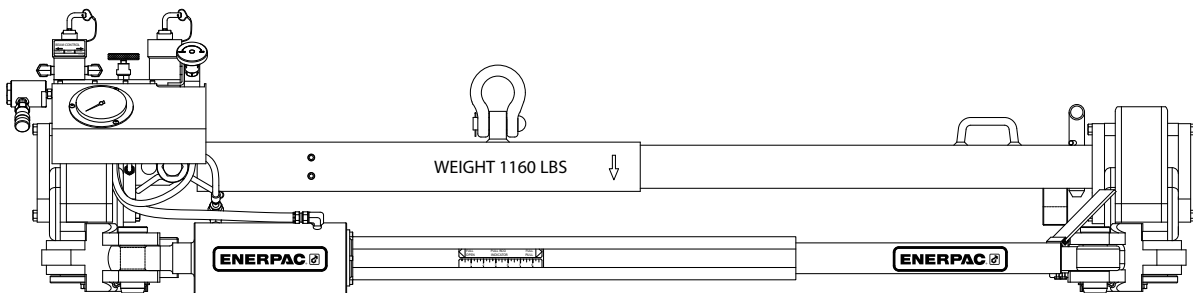
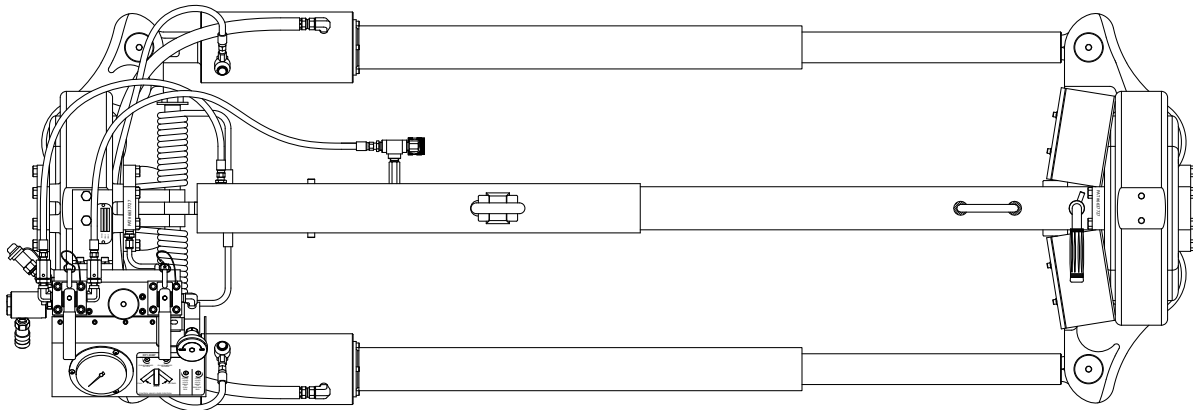
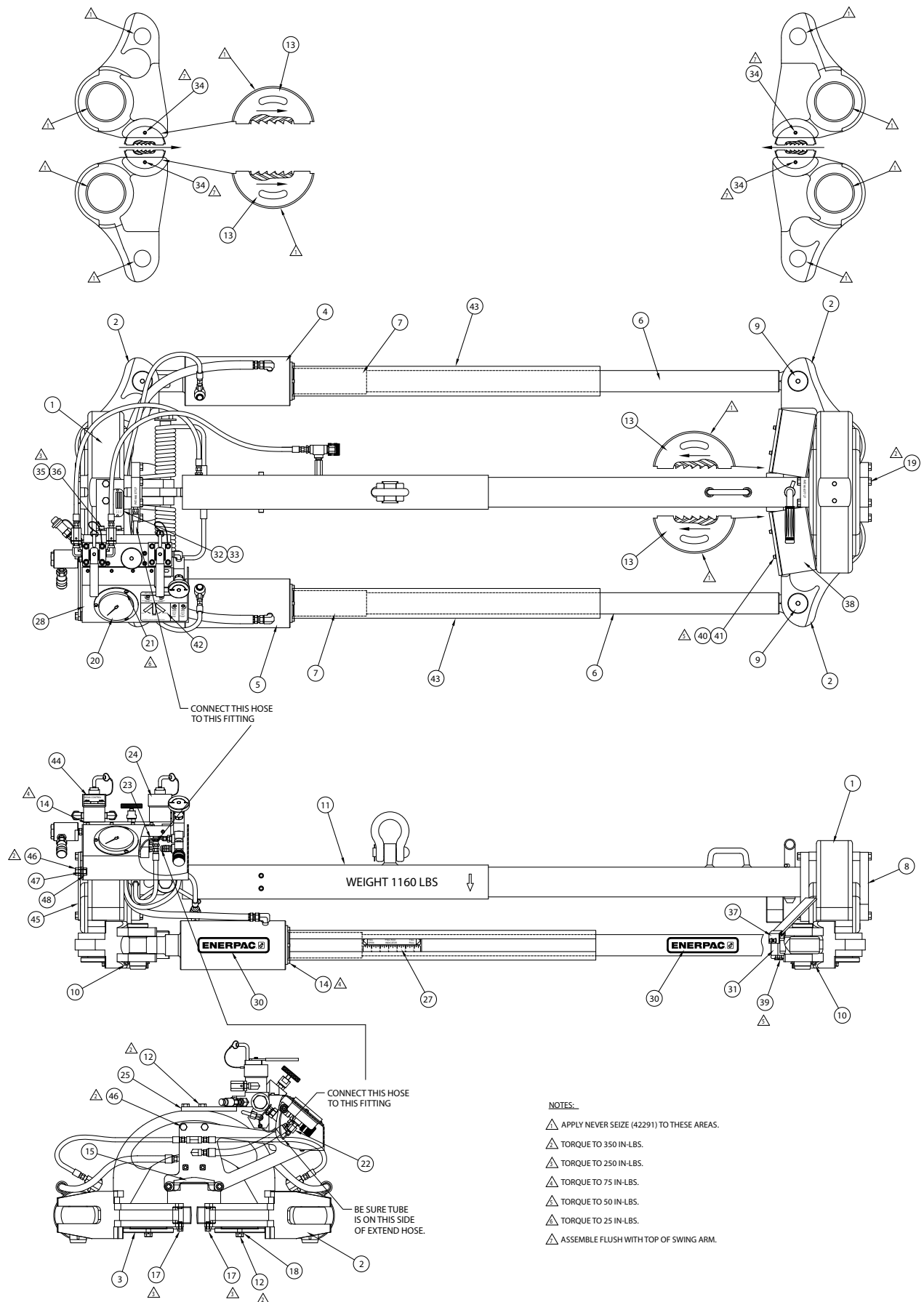
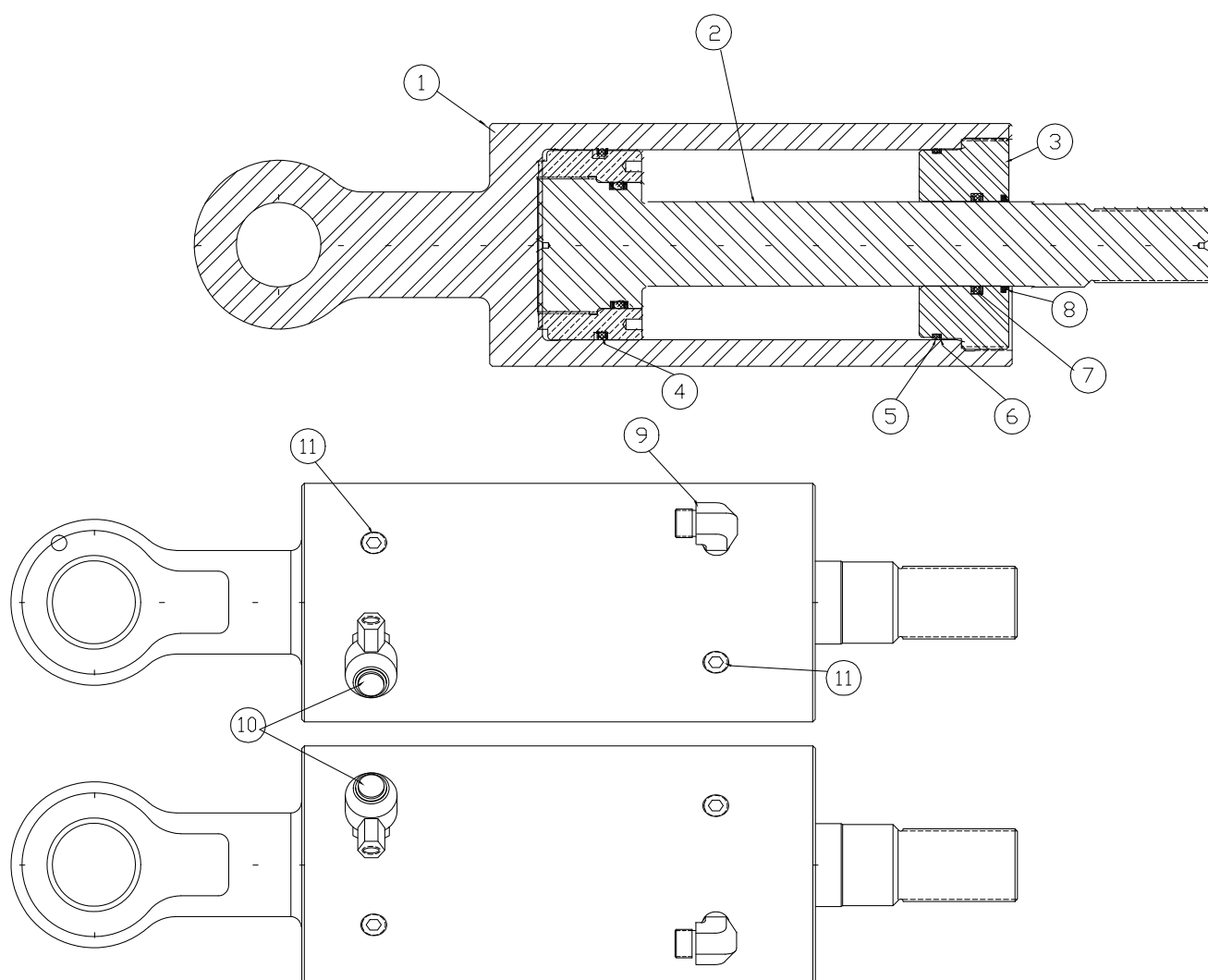


Figure 1 - RP120BP Rail Puller Main Assembly



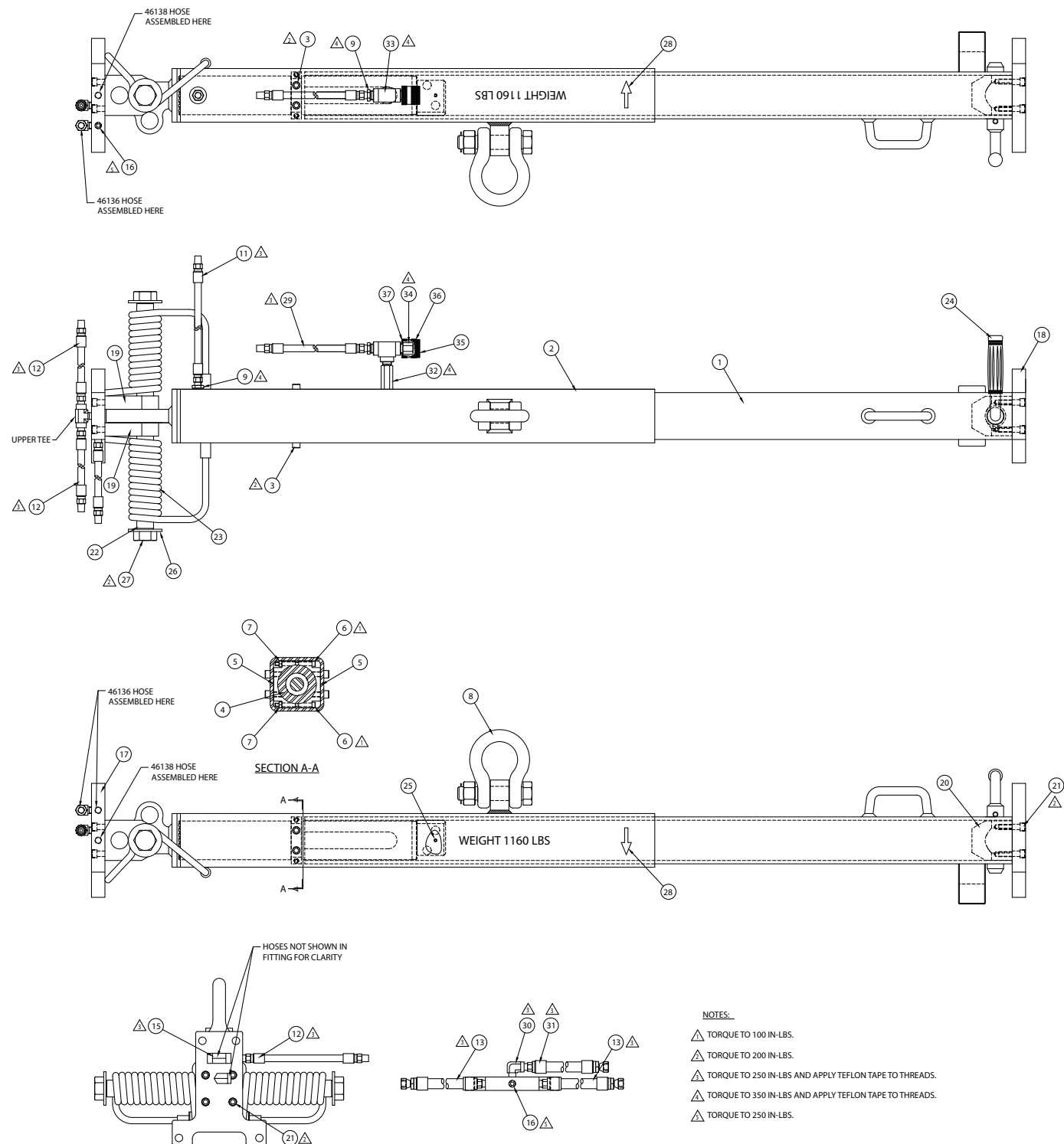
Repair Parts List (Refer to Figure 1)							
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	44563	2	Rail Puller Bracket	25	44587	1	Intensifier Mtg Bracket
2	44564	4	Rail Puller Swing Arm	27	◆ 44639	1	Decal, Rail Pull Indicator
3	44582E	4	Swing Arm Plate	28	46104	1	Intensifier Cover
4	(See Fig. 2)	1	Rail Puller Cyl Asm Left	30	◆ 68259E	4	Logo, Enerpac 9.19 x 1.94"
5	(See Fig. 2)	1	Rail Puller Cyl Asm Right	31	46081	4	Rail Puller Brush Bracket
6	44585	2	Rail Clevis Rod Assembly	32	44799	1	Tag, Model and Serial No.
7	44584	2	Rail Piston Rod Cover	33	44908E	2	Drive Screw #6 x 1/4"
8	44579	1	Lift Beam Mounting Bracket	34	93632E	4	Set Screw - Nylok
9	44593	4	Rail Pull Pin Swing	35	93594E	2	SHCS 3/8-16 x 1" Lg
10	93789E	4	Cotter Pin	36	93943E	2	Lock Washer, 3/8"
11	(See Fig. 3)	1	Rail Puller Beam Assembly	37	46082	4	Rail Puller Brush Holder
12	44629	6	HHCS 1/2-12 x 1/25" Plt	38	46083	4	Rail Puller Brush
13	44583E	4	Rail Pull Grip	39	B1005046X	8	Hex Head Capscrew
14	93581E	12	SHCS 1/4-20 x 1/2"	40	93580E	8	SHCS 1/4-20 x 3/8" Lg.
15	44592E	2	Rail Puller Wear Plate	41	B1015066X	8	Lockwasher, 1/4" Plt
17	B1073046X	4	HHCS 3/8-16 x 3/4" Lg.	42	◆ DS1340026	1	Decal, Operation RP120BP
18	93946E	4	Lock Washer, 1/2" Plt	43	46680	2	Rail Puller Saw Guard
19	44630	12	HHCS 1/2-13 x 1.75" Plt.	44	◆ DS1337026	1	Decal, Beam Control Valve
20	46107	1	Tonnage Gauge	45	DS1975111	1	Bracket, Intensifier Support
21	43365E	3	BHCS 10-24 x .25 316SS	46	B1137046X	5	HHCS 1/2-13 x 1" Zinc
22	46106E	1	Female Connector 1/4 NPT	47	B1036108X	2	Flat Washer, 1/2" Zinc
23	46419	1	Tubing, Rail Puller Gauge	48	B1009122	1	Hex Nut, 1/2-13
24	(See Fig. 4)	1	Rail Puller Intensifier Asm				
◆ Included as part of Decal Kit RP120BPDK.							

Figure 2 - 46148 Cylinder Assembly (Left)
46149 Cylinder Assembly (Right)



Repair Parts List (Refer to Figure 2)			
Item	Part Number	Qty.	Description
1	44575	1	Rail Puller Cylinder Body
2	44576	1	Rail Puller Piston
3	44577	1	Rail Puller Retaining Nut
4	✚ 85566E	1	T-Seal Piston, 4-1/2"
5	✚ 5602244E	1	O-Ring, 4-1/4 x 4-1/2
6	✚ 5608244E	1	Back-Up Ring
7	✚ 97295E	1	GT Ring (Rod Type)
8	✚ 85557E	1	Wiper 2" Rod
9	44865E	1	Elbow 3/8 NPT-O-Ring
10	46091	1	FM Pipe Union To M Pipe
11	84084E	2	Pipe Plug 3/8" Flush
✚ Included as part of Seal Kit 54290K.			

Figure 3 - DS1346900 Beam Assembly



Repair Parts List (Refer to Figure 3)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	44569	1	Lift Beam Inner Weld	22	44604	1	Lift Beam Pivot Pin
2	46232	1	Lift Beam Outer Weld	23	44313C	1	Torsion Spring Conn
3	97084E	4	SHCS 3/8-16 x 3/4" Lg		44313L	1	Torsion Spring Left
4	44617	1	RP Beam RDA 1012		44313R	1	Torsion Spring Right
5	44605	2	Cylinder Mounting Clamp	24	44568	1	Lifting Beam Pin
6	81908	2	SHCS 1/4-20 x 2.75"	25	43757E	1	Roll Pin 3/16" x 2-1/4"
7	B1001122	2	Hex Nut 1/4-20"	26	42080E	2	Washer 2-1/2" x 11/16"
8	43217	1	Lifting Shackle	27	44631	2	HHCS 1"-8 x 2" Plated
9	46421E	2	Reducer 3/8" x 1/4"	28	◆ 68094E	2	Decal, Arrow
11	DS1327646	1	Hose 32" Low Pressure	29	46137E	1	Hose, 42" Low Pressure
12	46136E	3	Hose 24" Low Pressure	30	F100095-7	1	Street Elbow, 0.25"
13	46138E	2	Hose 24" High Pressure	31	46359	1	Hose 14" High Pressure
15	F100095-35	2	.25" NPT Tee	32	18103E	1	Pipe Nipple, 3"
16	A1008245	2	Pipe Plug 1/4" Flush	33	CJ652096	1	Tee, Female 3/8 NPTF
17	46058	1	Mounting Plate	34	88458E	1	Valve, Relief, 4200 PSI
18	44579	1	Lift Beam Mounting Bkt.	35	88822E	1	Plug, Dust
19	44580	2	Clevis Mounting Bracket	36	88823E	1	Sleeve
20	44581	1	Bracket Clevis RP	37	88824E	1	Washer
21	86184E	8	SHCS 3/8-16 x 1-1/2				

◆ Included as part of Decal Kit RP120BPKD.

Repair Parts List (Refer to Figure 3A)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
01	44606E	1	Cylinder Body	12	* B1264503	1	Backup, 1-9/16" x 1-3/4"
02	46127E	1	Piston	13	* B1362562	1	Backup, 1-9/16" x 1-3/4"
03	86564E	1	Bottom	14	45105	1	Piston Gland
04	* 40717E	1	Wiper, 1" Rod Diameter	15	C802049	1	Washer
05	* 5608214	1	Washer, Backup 1" x 1-1/4"	16	* B1412028	1	Screw, Socket Head Cap
06	* B1019503	1	O-Ring 1" X1-1/4"	17	* B1017503	1	O-Ring, 7/8" x 1-1/8"
08	* B1026503	1	O-Ring	18	* B1036562	2	Back Up -212
09	* 85529	1	Back-Up Ring	19	46097E	1	Nut, Retaining
10	* 85879E	1	Back-Up Ring	20	* B1266503	1	O-Ring, 1-11/16" x 1-7/8"
11	* 88964E	1	U-Cup, Unbalanced	22	46099E	1	Washer, Piston Gland

* Included as part of Seal Kit 44617K.

Figure 3A - RDA1012 Beam Cylinder

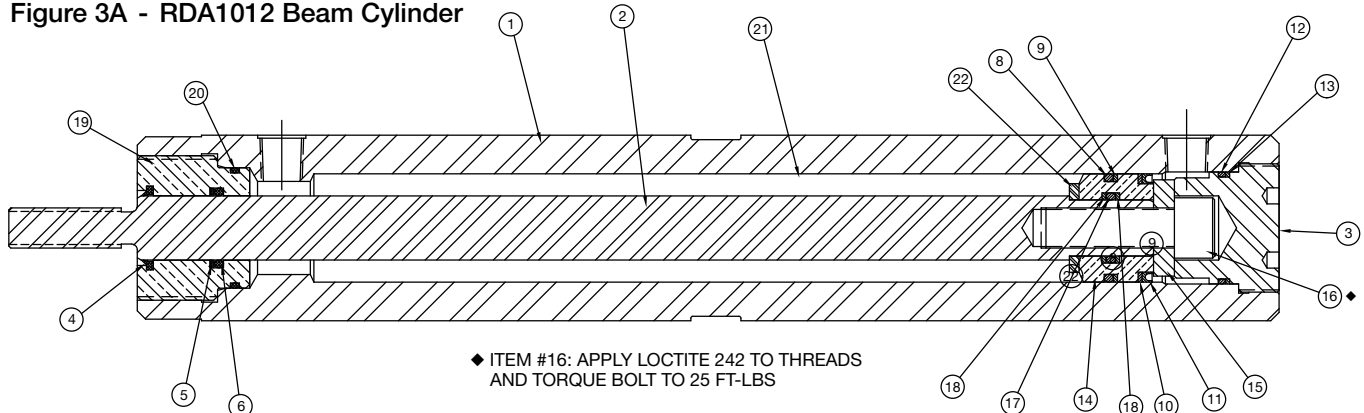
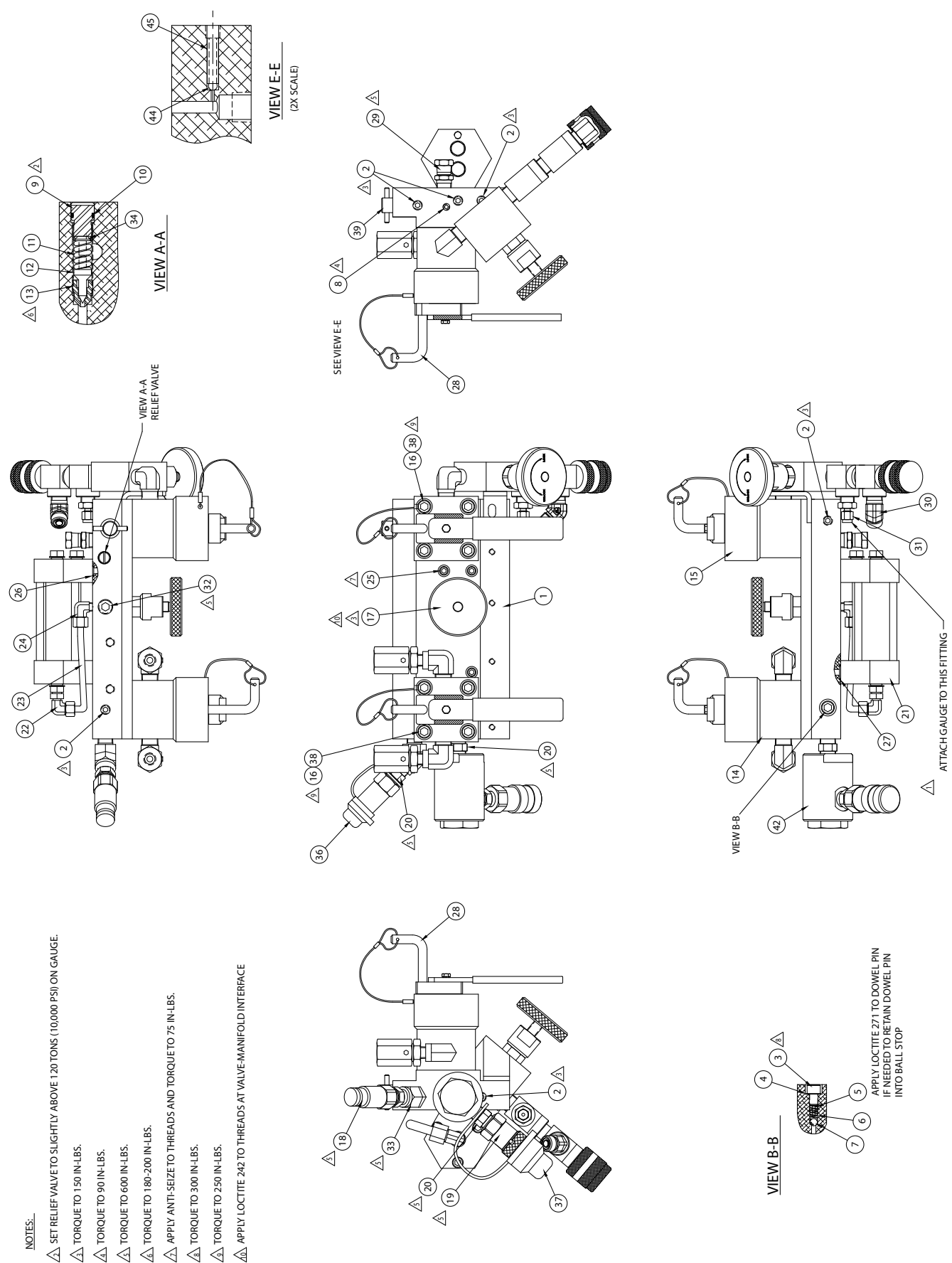
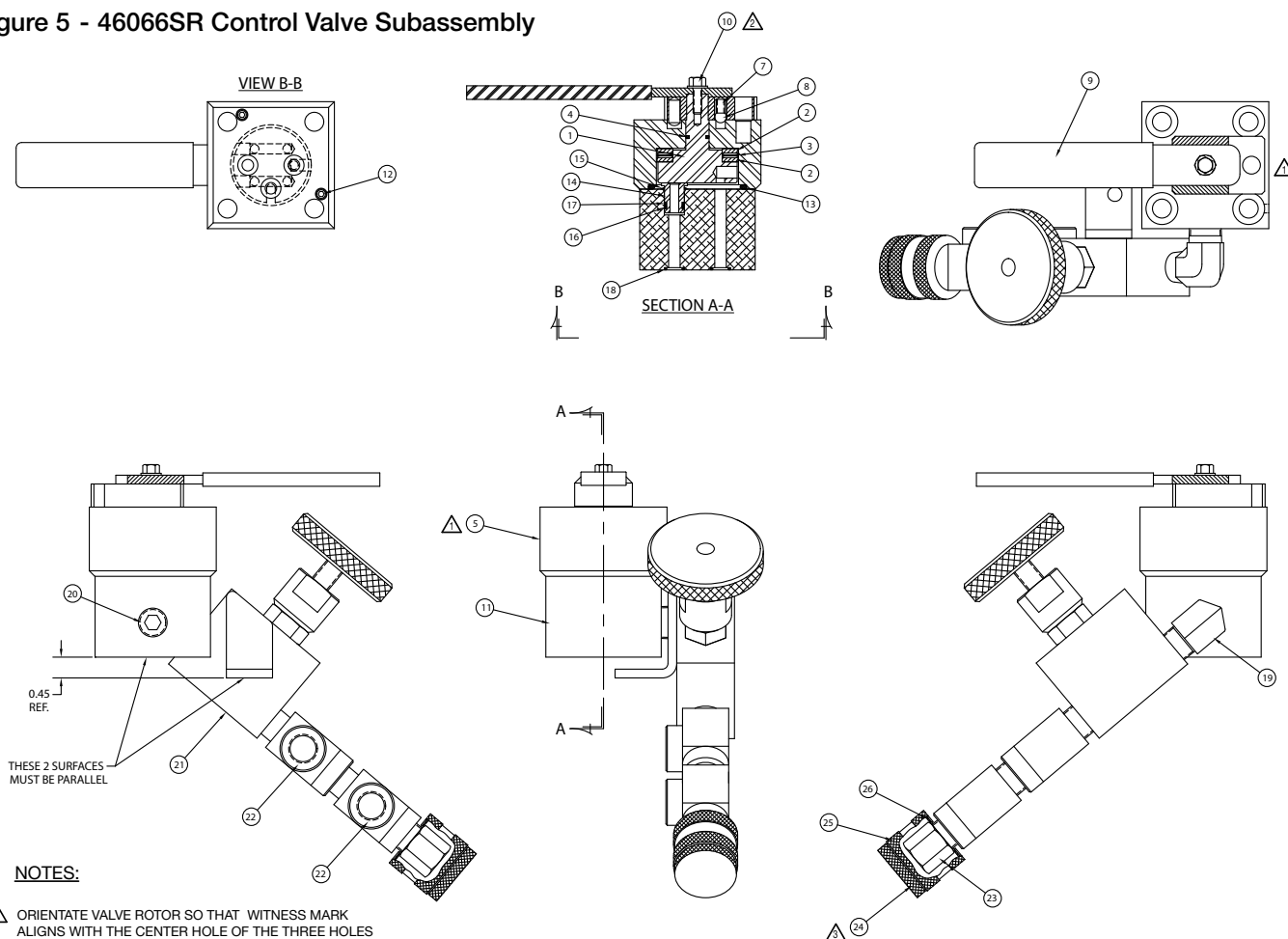


Figure 4 - DS1345900 Intensifier Assembly



Repair Parts List (Refer to Figure 4)						
Item	Part Number	Qty.	Description	Item	Part Number	Qty. Description
1	46549	1	Rail Intensifier Manifold	22	43955E	1 Straight Thd Elbow
2	A1007245	6	Pipe Plug, 1/8" Flush	23	43956E	1 Tube Assembly
3	46124E	1	Ball Stop Intensifier	24	43957E	1 Male Elbow
4	85726E	1	Gasket 25/64 x 19/32"	25	40843E	4 SHCS 1/4-20 x 1.5"
5	69424E	1	Dowel Pin, 1/8" Dia	26	B1011803	1 O-Ring
6	68225E	1	Spring	27	B1014903	1 O-Ring 1/2 x 5/8"
7	B1009016	1	Ball, 5/16"	28	88530E	2 Lock Pin W/Lanyard
8	A1006245	1	1/16" Pipe Plug - Flush	29	DS1974095	1 3/8 NPTF, 1/4 NPSM Swivel
9	43274E	1	Pow'r Bud Adj Screw	30	45927	1 Elbow, 45 3/8 NPT O-Ring
10	B1012903	1	O-Ring .38" x .50" x .06"	31	46105	1 Male Conn 3/8 NPT-1/8"
11	66085E	1	Spring - Relief Valve	32	A1009245	1 Flush Plug, 3/8"
12	68003E	1	Cone - Ext Relief	33	CU235096	1 Elbow, 45 Deg Street
13	68004E	1	Seat - Ext Relief	34	88497E	1 Spring Cap
14	(See Fig. 8)	1	Beam Control Valve	36	C515E	1 Dust Cap FF Hose
15	(See Fig. 5)	1	Control Valve, Rail Puller	37	C516E	1 Dust Cap FF Ram
16	83341E	8	SHCS 3/8-16 x 3-1/4"	38	C432108	8 Lock Washer 3/8"
17	(See Fig. 7)	1	Assembly, Needle Valve	39	44842SR	1 Release Screw ASM
18	43959E	1	LP Coup Male, 3/8"	42	46522E	1 Inline Filter
19	43960E	1	LP Coup Female, 3/8"	44	B1005016	1 Ball, 3/16" Dia
20	CJ651096	3	Pipe Nipple	45	46700	1 Spring Relief
21	(See Fig. 9)	1	Hydraulic Booster			

Figure 5 - 46066SR Control Valve Subassembly



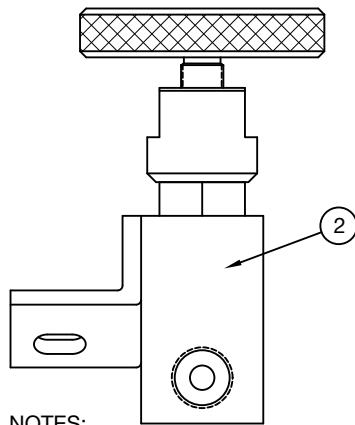
NOTES:

- △ ORIENTATE VALVE ROTOR SO THAT WITNESS MARK ALIGNS WITH THE CENTER HOLE OF THE THREE HOLES ON THE UPPER VALVE BLOCK (item 5).
- △ ASSEMBLE WITH LOCTITE 242 & TORQUE TO 33-40 IN.-LBS.
- △ ASSEMBLE WITH LOCTITE 271.

Repair Parts List (Refer to Figure 5)

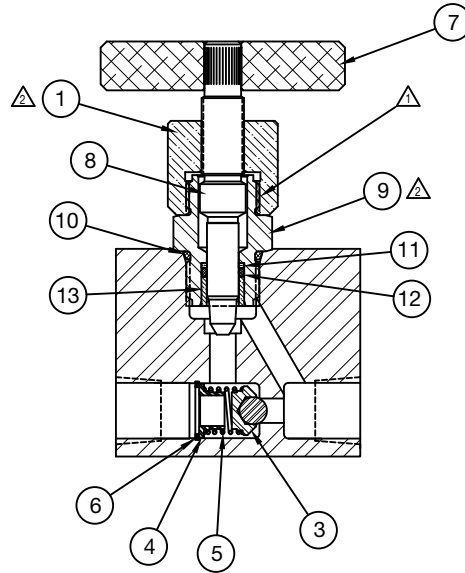
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	44603E	1	Valve Rotor Beam Control	15	68028E	3	Spring Washer
2	68026E	2	Thrust Washer	16	B1006503	3	O-Ring 5/16 x 7/16"
3	68155E	1	Thrust Bearing	17	B1011564	3	Washer-BU
4	B1007503	1	O-Ring 3/8 x 1/2"	18	B1011803	3	O-ring 5/16 x 7/16
5	43962E	1	Upper Valve Block	19	80626E	1	90 Male Elbow, 3/8-3/8"
7	68025E	1	Detent Spring	20	A1009245	1	Pipe Plug, 3/8" Flush
8	B1007016	1	Ball 1/4"	21	(See Fig. 6)	1	V10E Asm W/Bracket
9	45040SR	1	Valve Handle Rail Puller	22	18114E	2	Service Tee
10	DS2115046	1	Screw 10-24 x .50 Hex Flg.	23	84027E	1	Relief Valve, 10,500 PSI
11	44602E	1	Sub Plt 4W Valve Int	24	88822E	1	Dust Plug
12	85317E	2	SHCS #6-32 x 5/8" Lg.	25	88823E	1	Sleeve
13	B1091503	1	O-Ring 1-7/8 x 2-1/8"	26	88824E	1	Washer
14	68181E	3	Seal				

Figure 6 - 44614SR V10E Valve Subassembly



NOTES:

- △ APPLY LOCTITE 271 TO THREADS.
- △ TORQUE TO 350-400 IN-LBS.

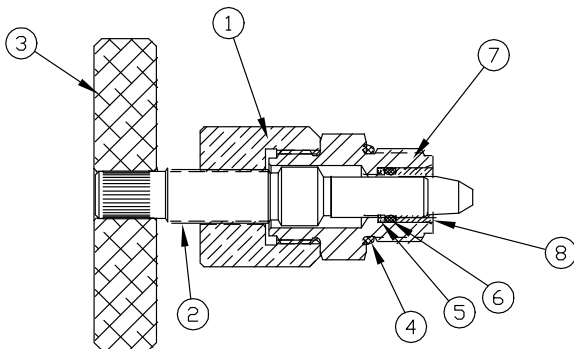


Repair Parts List (Refer to Figure 6)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	❖ 44973E	1	Cap, Needle Valve	8	❖ 44689E	1	Needle, Nickel Plated
2	44613E	1	V10E Manifold W/ Brk	9	❖ 42565E	1	Retainer, Needle Valve
3	41186E	1	Poppet Assy	10	❖ 5603908E	1	O-Ring SAE Port #8
4	41187E	1	Spring Guide	11	❖ B1011564	1	Washer, Back-up
5	41188E	1	Spring	12	❖ 56020112E	1	O-Ring, 5/16" x 7/16" URE
6	41189E	1	Retaining Ring - Intrn	13	❖ 42567E	1	O-Ring Trap
7	❖ 43958E	1	Knob, Intensifier				

❖ Included as part of Needle Assembly 41183SR.

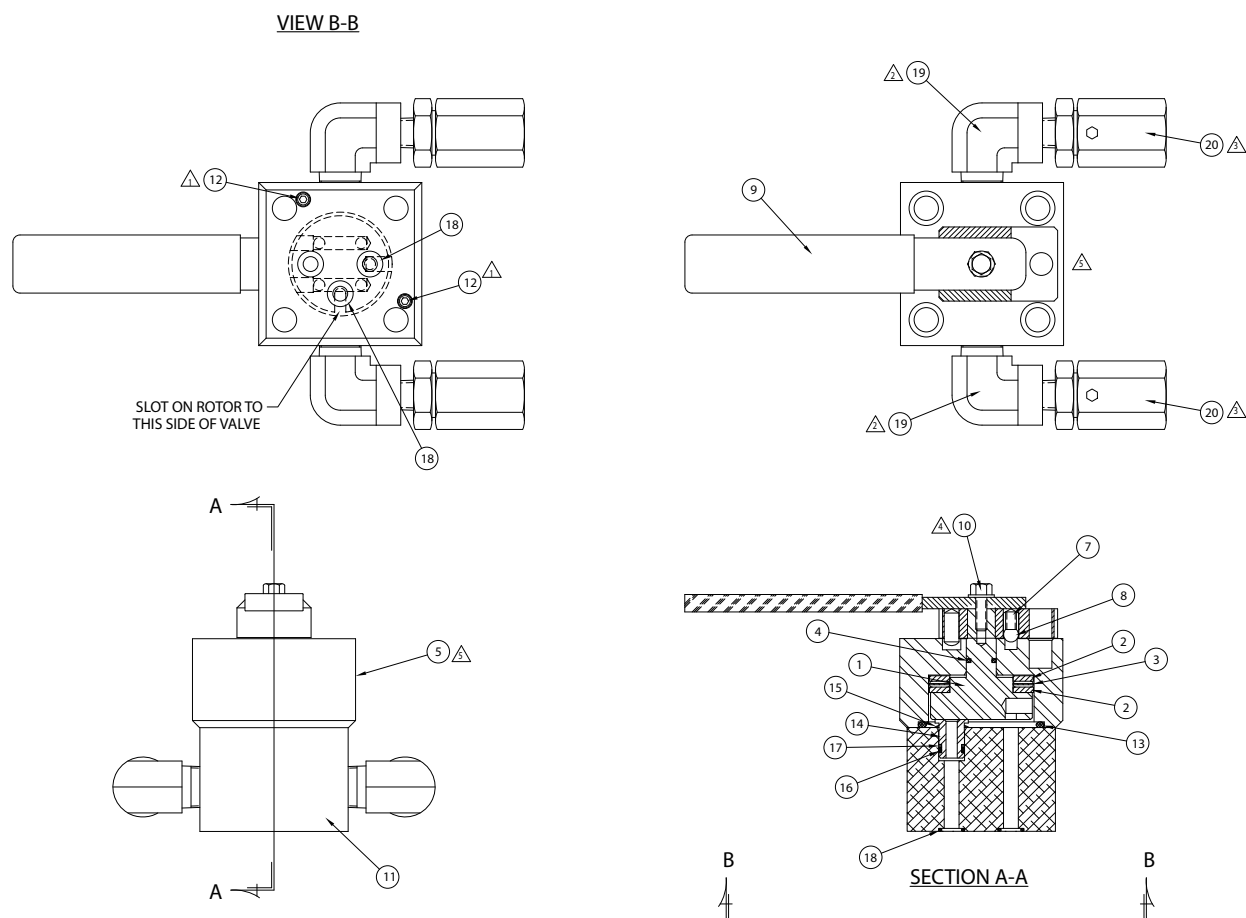
Figure 7 - DS1508900SR Needle Valve Assembly



Repair Parts List (Refer to Figure 7)

Item	Part Number	Qty.	Description
1	44973E	1	Cap, Needle Valve
2	DS1507617	1	Spool, Speed Control
3	42568E	1	Knob, Needle Valve
4	5603908E	1	O-Ring, SAE Port 8
5	B1011564	1	Washer, Back-up
6	56020112E	1	O-Ring, 5/16" x 7/16" URE
7	42565E	1	Retainer, Needle Valve
8	42567E	1	O-Ring Trap

Figure 8 - DS1344900SR Beam Control Valve



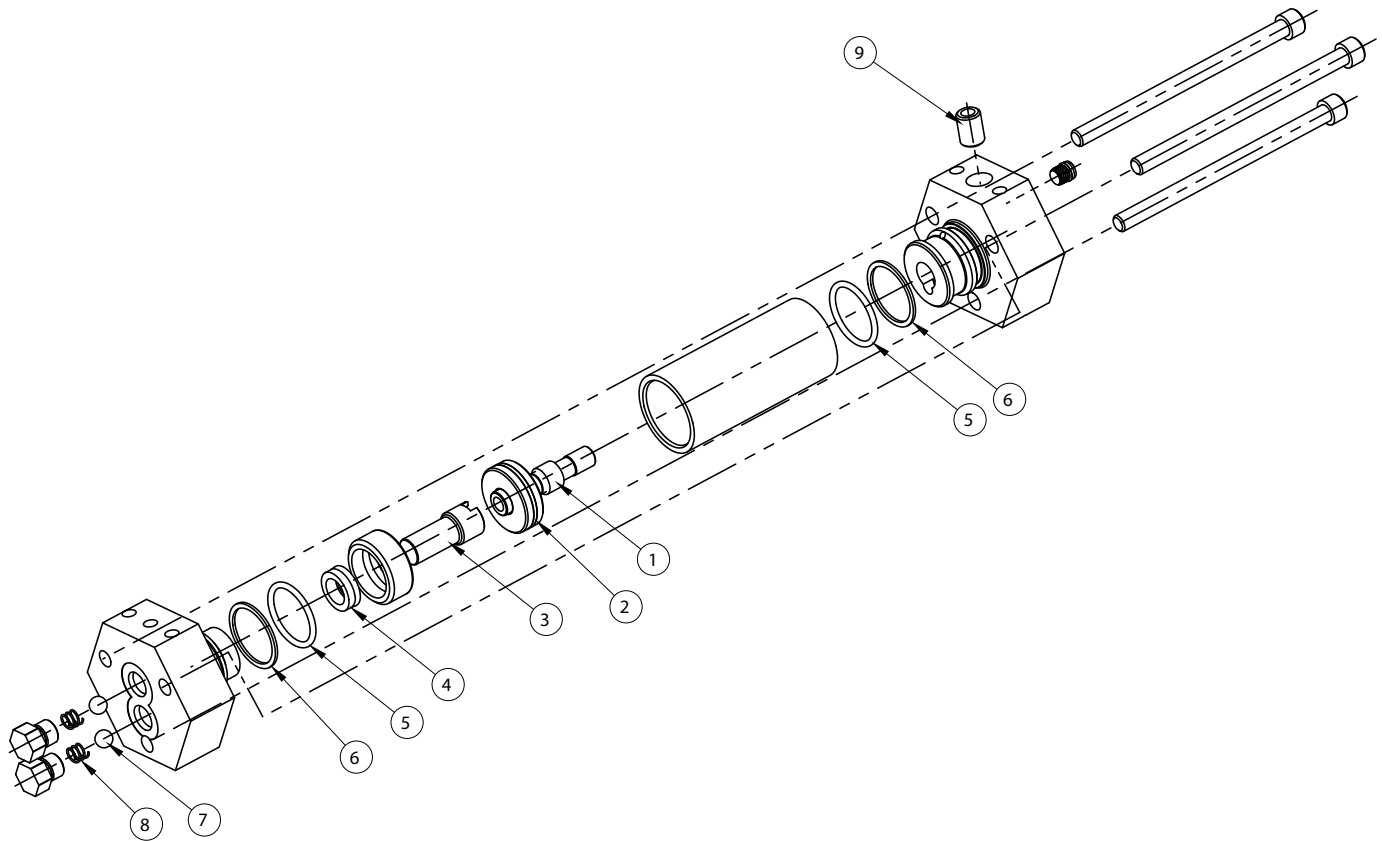
NOTES:

- △ TORQUE TO 20-30 IN-LBS.
- △ TORQUE TO 25-30 FT-LBS AND APPLY TEFLON TAPE OR LOCTITE 545 TO THE THREADS.
- △ TORQUE TO 15-20 FT-LBS AND APPLY TEFLON TAPE OR LOCTITE 545 TO THE THREADS.
- △ TORQUE TO 33-40 IN-LBS AND APPLY LOCTITE 242.
- △ ORIENTATE VALVE ROTOR SO THAT WITNESS MARK ALIGNS WITH THE CENTER HOLE OF THE THREE HOLES ON THE UPPER VALVE BLOCK (item 5).

Repair Parts List (Refer to Figure 8)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	44603E	1	Valve Rotor Beam Con	12	85317E	2	SHCS #6-32 x 5/8" Lg.
2	68026E	2	Thrust Washer	13	B1225903	1	O-Ring 1-7/8 x 2-1/8"
3	68155E	1	Thrust Bearing	14	68181E	3	Seal
4	B1012903	1	O-Ring 3/8 x 1/2"	15	68028E	3	Spring Washer
5	43962E	1	Upper Valve Block	16	B1011903	3	O-Ring 5/16 x 7/16"
7	68025E	1	Detent Spring	17	B1011564	3	Washer-BU
8	B1007016	1	Ball 1/4"	18	B1011803	3	O-Ring
9	45040SR	1	Valve Handle Rail Puller	19	42352E	1	90 Male Elbow, 1/4-3/8"
10	DS2115046	1	Screw, 10-24 x 0.50" Hex Flg.	20	46139	2	F to M Swivel, 1/4" Pipe
11	44602E	1	Sub Plt 4W Valve Int				

Figure 9 - 43912 Hydraulic Booster Assembly



Repair Parts List (Refer to Figure 9)			
Item	Part Number	Qty.	Description
1	DS2345051	1	Piston/Shuttle Assembly
2	* ❖	1	Piston Seal
3	DS2344051		Piston, High Pressure
4	*	1	U-Cup
5	*	2	O-Ring
6	*	2	Backup
7	*	2	Ball, 5/16"
8	*	2	Spring
9	❖ DS1738828	1	Orifice 1/8"
* Included as part of Repair Kit 43912RK. ❖ Included with item #1. ❖ Orifice may not be separate part on some recent production units. Note: For complete hydraulic booster assembly, order part number 43912 (includes all parts shown above).			

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