



Parts Manual

Model 30B Layer Picker

Serial Number SELP-41971

cascade®
corporation

For Technical Assistance call: 800-227-2233, Fax: 888-329-8207

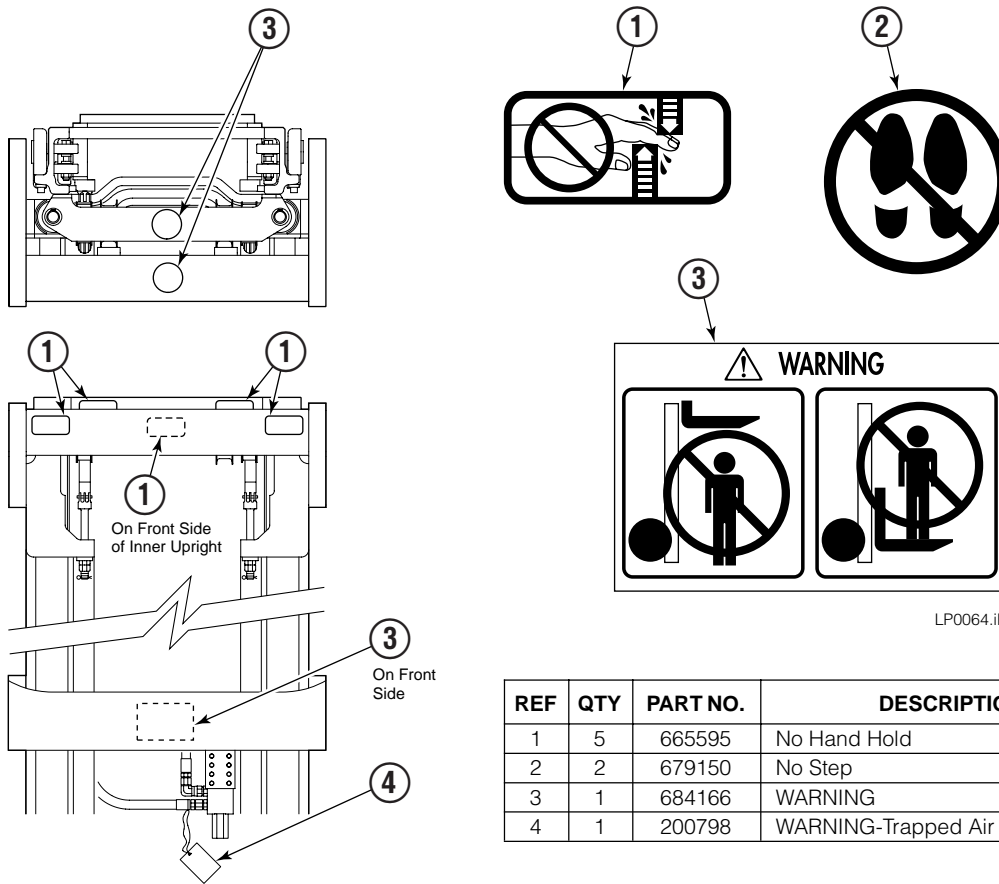
To Order Parts call: 888-227-2233, Fax: 888-329-0234

OR

Write: Cascade Corporation, P.O. Box 20187, Portland, OR 97220

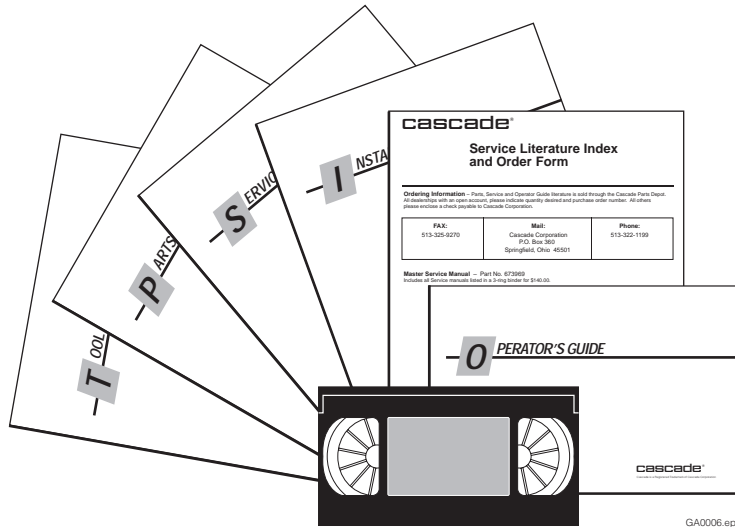
Internet: www.cascorp.com

Safety Decals



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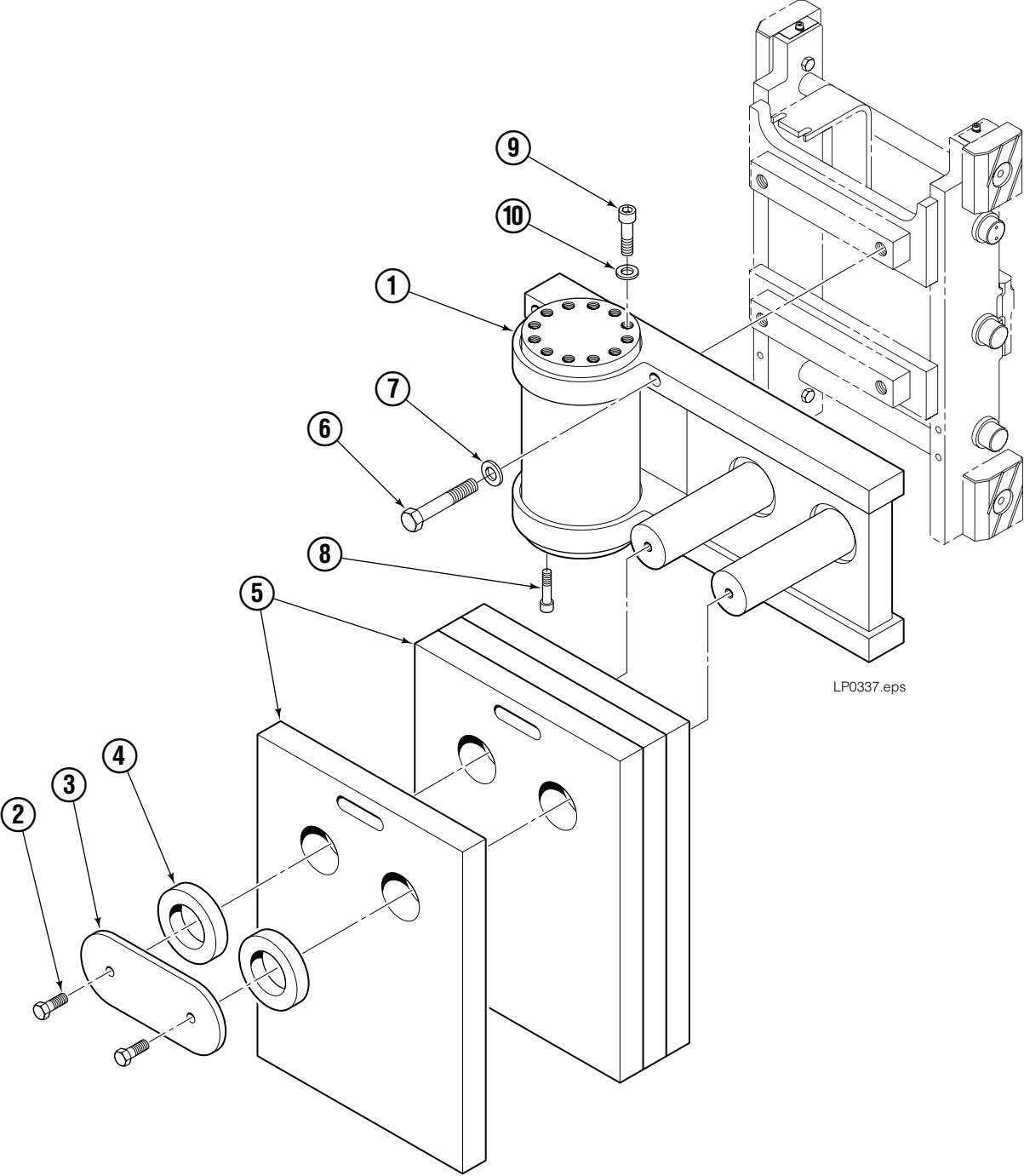
Publications



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PART NO.	DESCRIPTION
-	Parts Manual
-	Service Manual
222964	Installation Instructions
222225	Operators Guide
679929	Tool Catalog
673964	Literature Index Order Form

Hydraulic Group

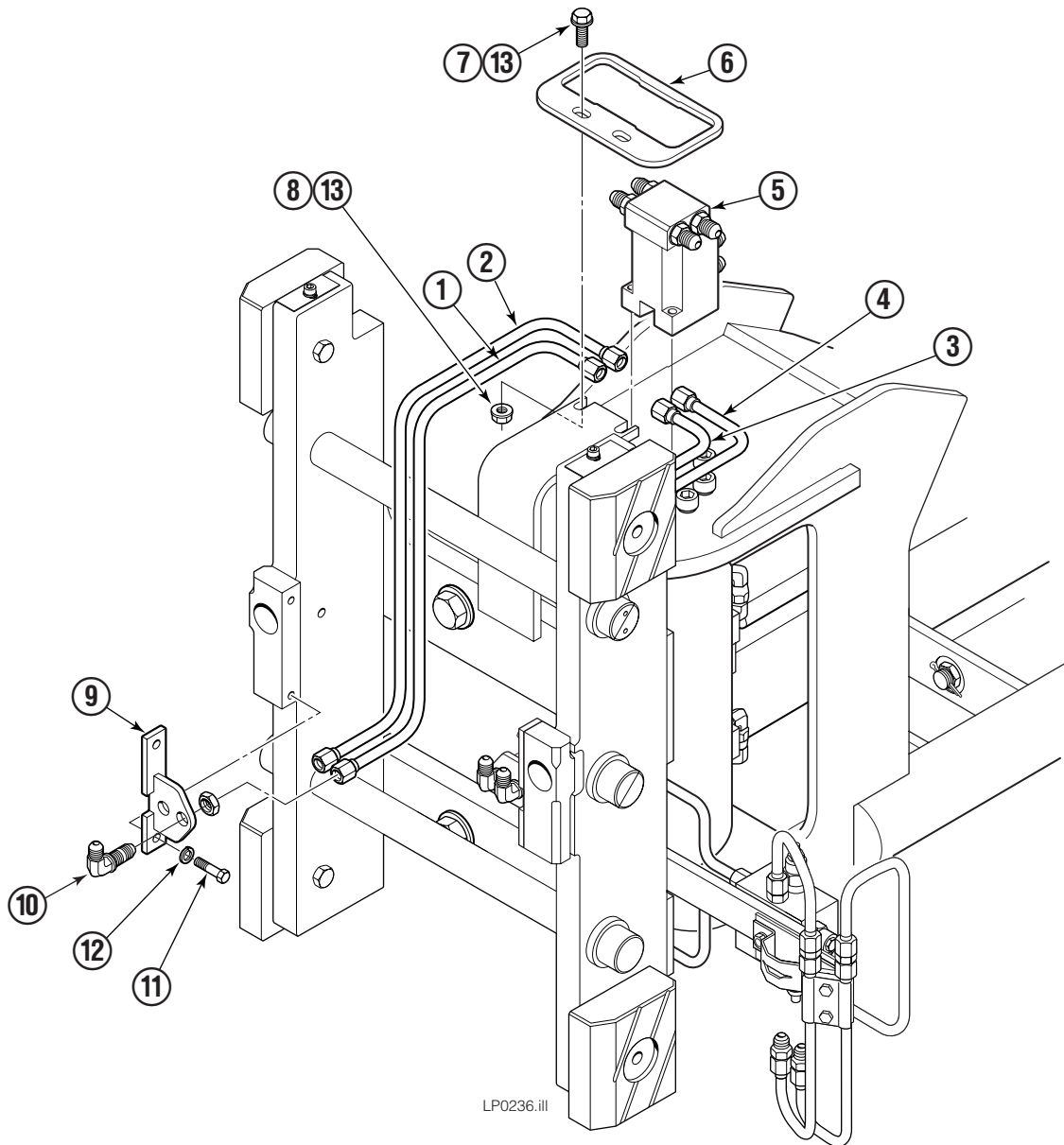


Hydraulic Group

30B			
REF	QTY	PART NO.	DESCRIPTION
		6144781	Hydraulic Group
1	1	6144510	Boom Mount ●
2	2	752903	Capscrew, M16 x 45 ●
3	1	3013963	Retainer Plate ●
4	2	3013962	Washer ●
5	4	6144568	Ballast Plate ●
6	4	6126374	Capscrew, 7/8 x 5.00
7	4	221204	Washer
8	7	607085	Capscrew, .625 x 1.50
9	12	607105	Capscrew, 3/4 x 2.00
10	12	670692	Washer

● Included in Boom Mount Assembly 6144626.

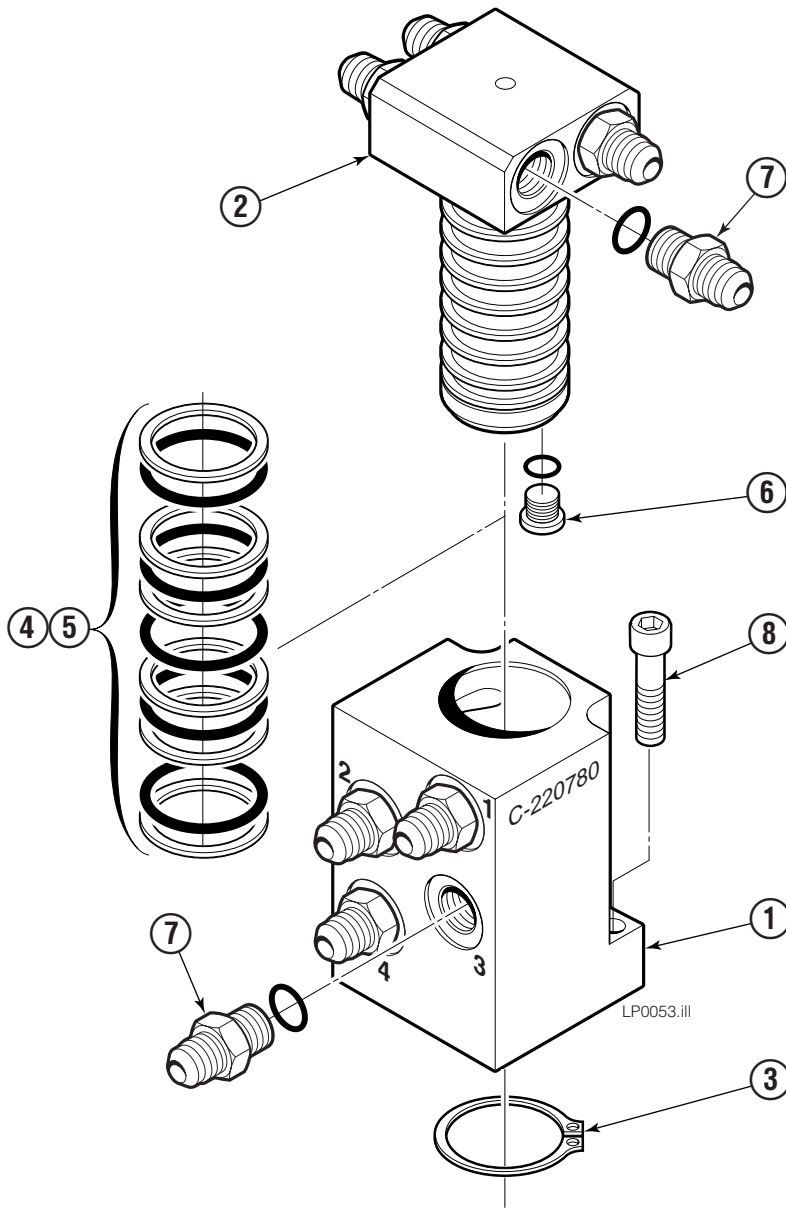
Hydraulic Group



REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		6144781	Hydraulic Group (cont)	7	2	768538	Capscrew, M10 x 30
1	1	6126385	Tube	8	2	786882	Nut, M10
2	1	6126386	Tube	9	2	206898	Bracket
3	1	6126387	Tube	10	4	2453	Fitting, 6-6
4	1	6126388	Tube	11	4	787372	Capscrew, M8 x 20
5	1	220780	Revolving Connection ♦	12	4	206315	Lockwasher, M8
6	1	221649	Bracket	13	2	201570	Washer, M10

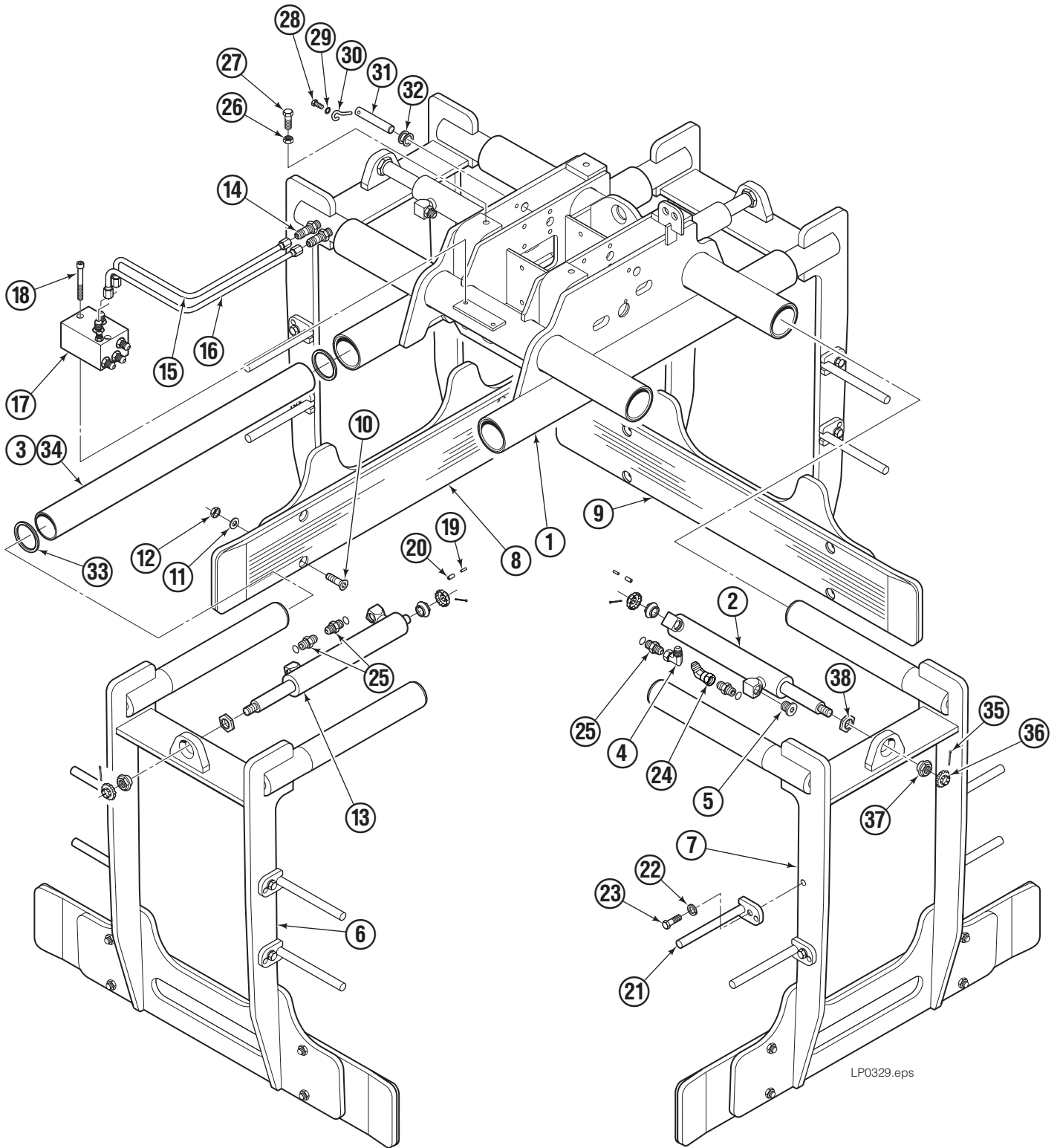
♦ See Revolving Connection page for parts breakdown.

Revolving Connection



REF	QTY	PART NO.	DESCRIPTION
		220780	Revolving Connection
1	1	220781	Body
2	1	322714	Shaft
3	1	3139	Retaining Ring
4	8	615122	Back-Up Ring
5	5	655949	O-Ring
6	4	663694	Fitting, 3
7	8	604511	Fitting, 8-8
8	2	768796	Capscrew, M8x35

Clamp Assembly



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Clamp Assembly

30B			
REF	QTY	PART NO.	DESCRIPTION
		6144655	Clamp Assembly
1	1	6144639	Frame (28752)
2	2	3018979	Cylinder ◆
3	2	21066-0767	Bushing – LA
4	6	2680	Fitting, 6-6
5	8	602580	Plug
6	2	6103615	Arm – Short
7	2	6103610	Arm – Long
8	2	6108539	Contact Pad – LA, 35 x 9 in. (21031)
9	2	6108539	Contact Pad – SA, 35 x 9 in. (21031)
10	16	755028	Capscrew, M12 x 50
11	16	200456	Washer, M12
12	16	205979	Nut, M12
13	2	3018979	Cylinder ◆
14	2	2375	Fitting, 6-6
15	1	6143163	Tube
16	1	6143162	Tube
17	1	219694	Valve ●
18	2	768802	Capscrew, M8 x 70
19	4	7861	Roll Pin – Inner
20	4	7962	Roll Pin – Outer
21	16	221199	Bracket
22	16	683822	Lockwasher, M12
23	16	763021	Capscrew, M12 x 30
24	2	605230	Fitting, 6-6
25	8	611288	Fitting, 6-6
26	4	688387	Jam Nut, M12
27	4	768555	Capscrew, M12 x 40
28	2	787372	Capscrew, M8 x 20
29	2	787398	Washer, M8
30	2	6020429	Eye Pin
31	2	218169	Pin
32	4	399469	Shim
33	8	222901	Retaining Ring
34	2	21066-0767	Bushing – SA
35	8	6510	Cotter Pin
36	8	667624	Retainer
37	8	667625	Nut
38	8	667626	Washer
	1	6144653	Hose Group ■

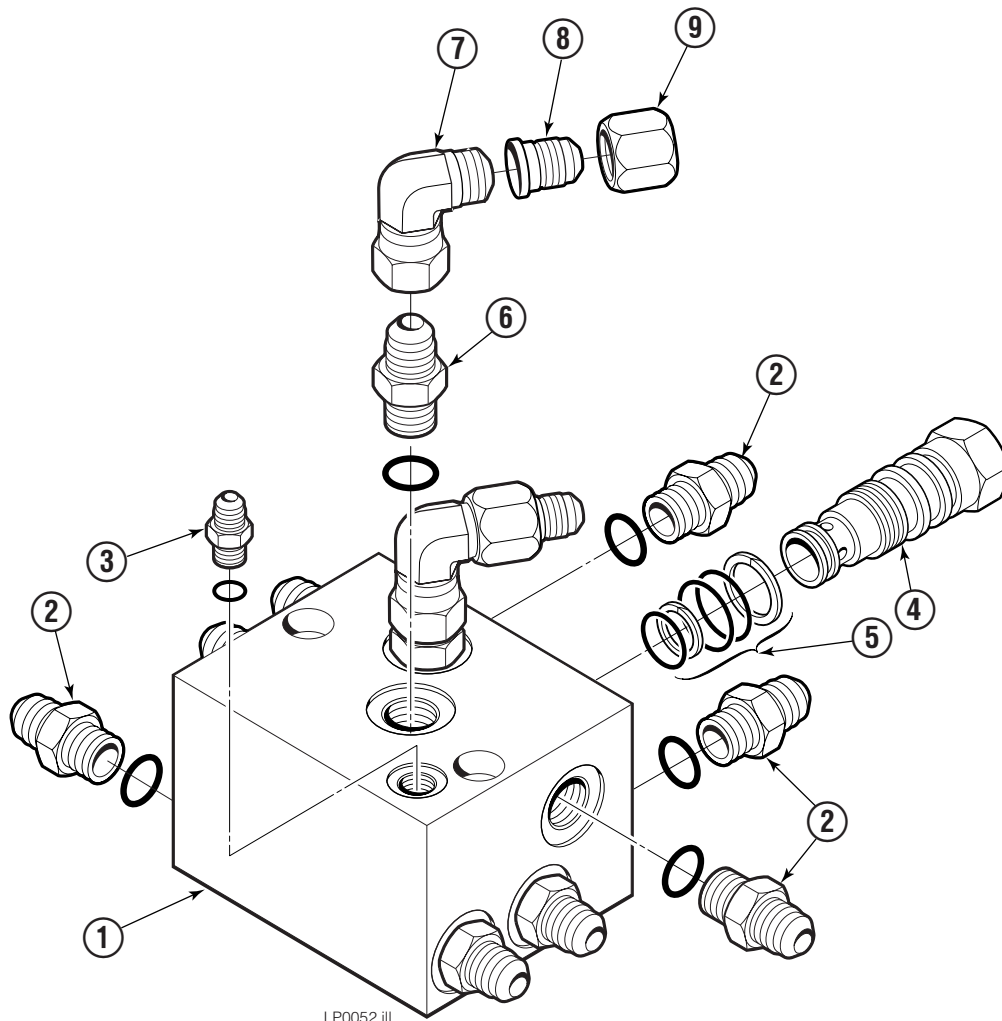
◆ See Cylinder page(s) for parts breakdown.

● See Valve page for parts breakdown.

■ See Hose Group page for parts breakdown.

Reference: Common Parts Group 6143338, S-28746.

Clamp Valve



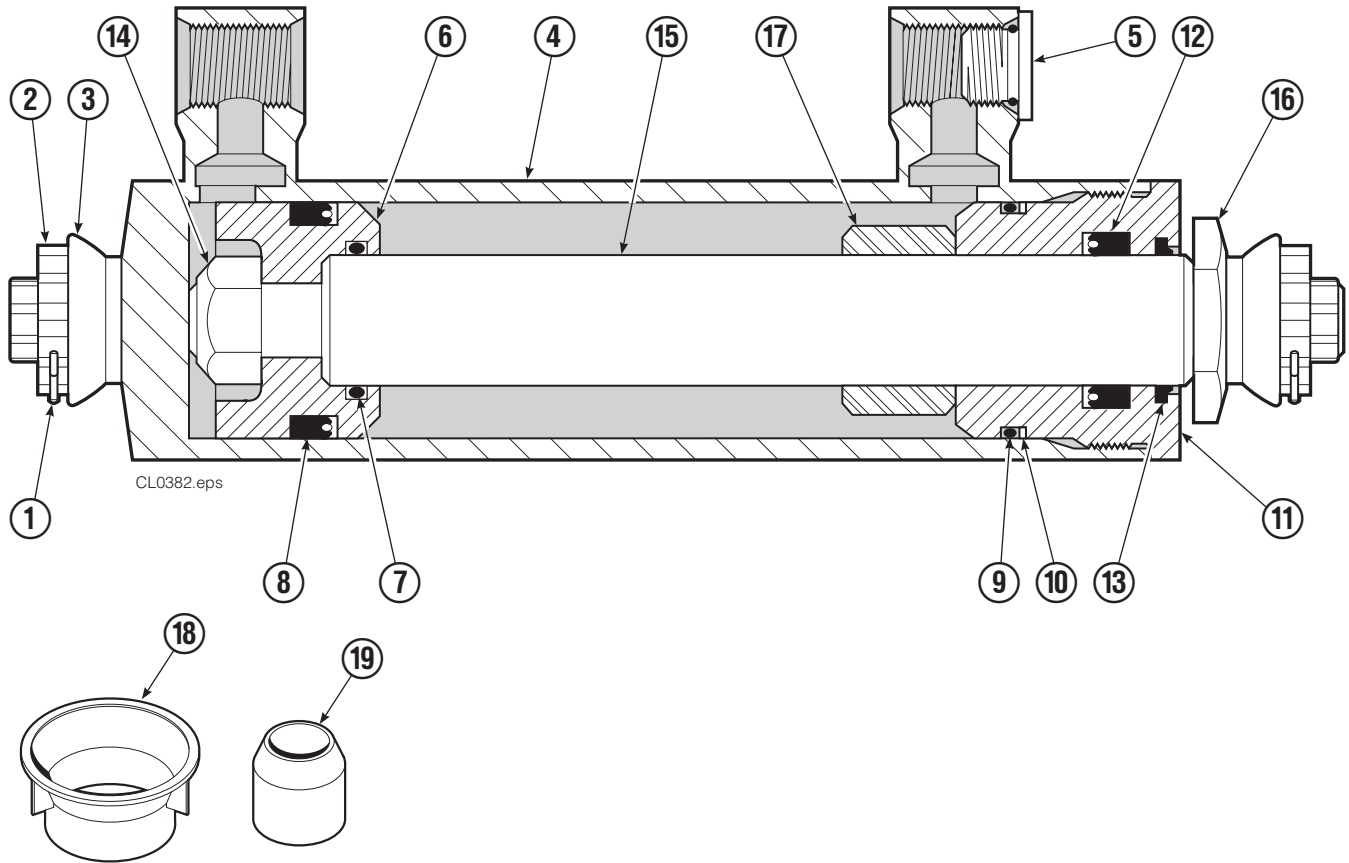
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REF	QTY	PART NO.	DESCRIPTION
		219694	Valve Assembly
1	1	219693	Body
2	8	611288	Fitting, 6-8
3	1	617915	Fitting, 4-4
4	1	659058	Check Valve - PO
5	1	667516	Service Kit
6	2	601377	Fitting, 8-8
7	2	605761	Fitting, 8-8 ▲
8	2	2671	Fitting, 8 ▲
9	2	2618	Nut, 8 ▲

▲ Not included in Valve Assembly.

Reference: Hydraulic Group 222080.

Cylinder Assembly



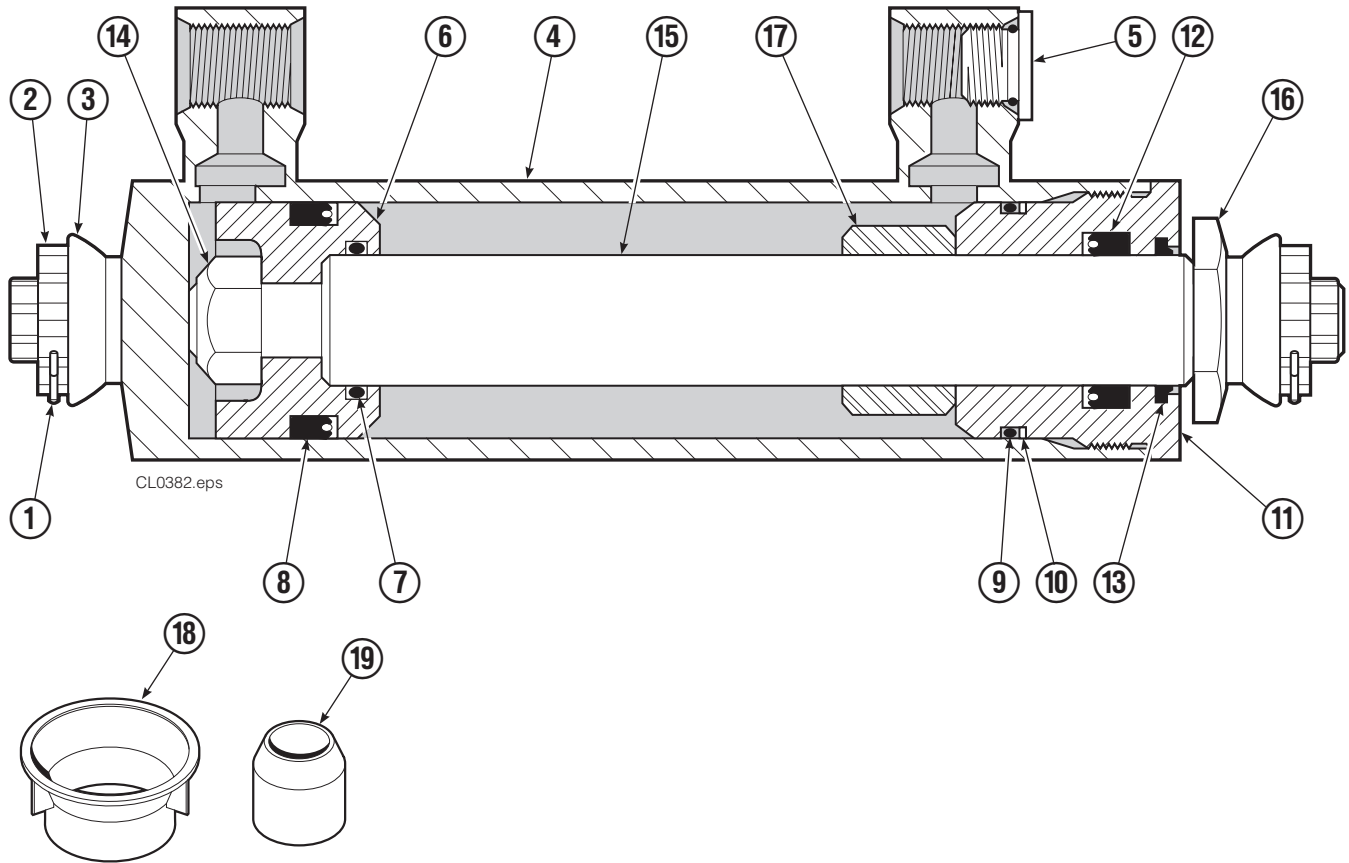
REF	QTY	PART NO.	DESCRIPTION
		3018979	Cylinder Assembly
1	2	6510	■ Cotter Pin
2	2	667624	■ Nut Retainer
3	2	667625	■ Nut
4	1	3018980	Shell
5	1	602580	Fitting
6	1	559702	Piston
7	1	2716	◆ O-Ring
8	1	662450	◆ Seal
9	1	2722	◆ O-Ring
10	1	615126	◆ Back-Up Ring
11	1	413799	Retainer
12	1	662448	◆ Seal
13	1	636853	◆ Wiper
14	1	667623	Nut
15	1	3010506	Rod
16	1	667626	Washer
17	1	3018981	Spacer
18	1	671047	◆ Seal Loader, Piston
19	1	671051	◆ Seal Loader, Retainer
		560729	Service Kit

■ Included in Nut Service Kit 668926.

◆ Included in Service Kit 560729.

Reference: ST-0284, ST-0283.

Cylinder Assembly



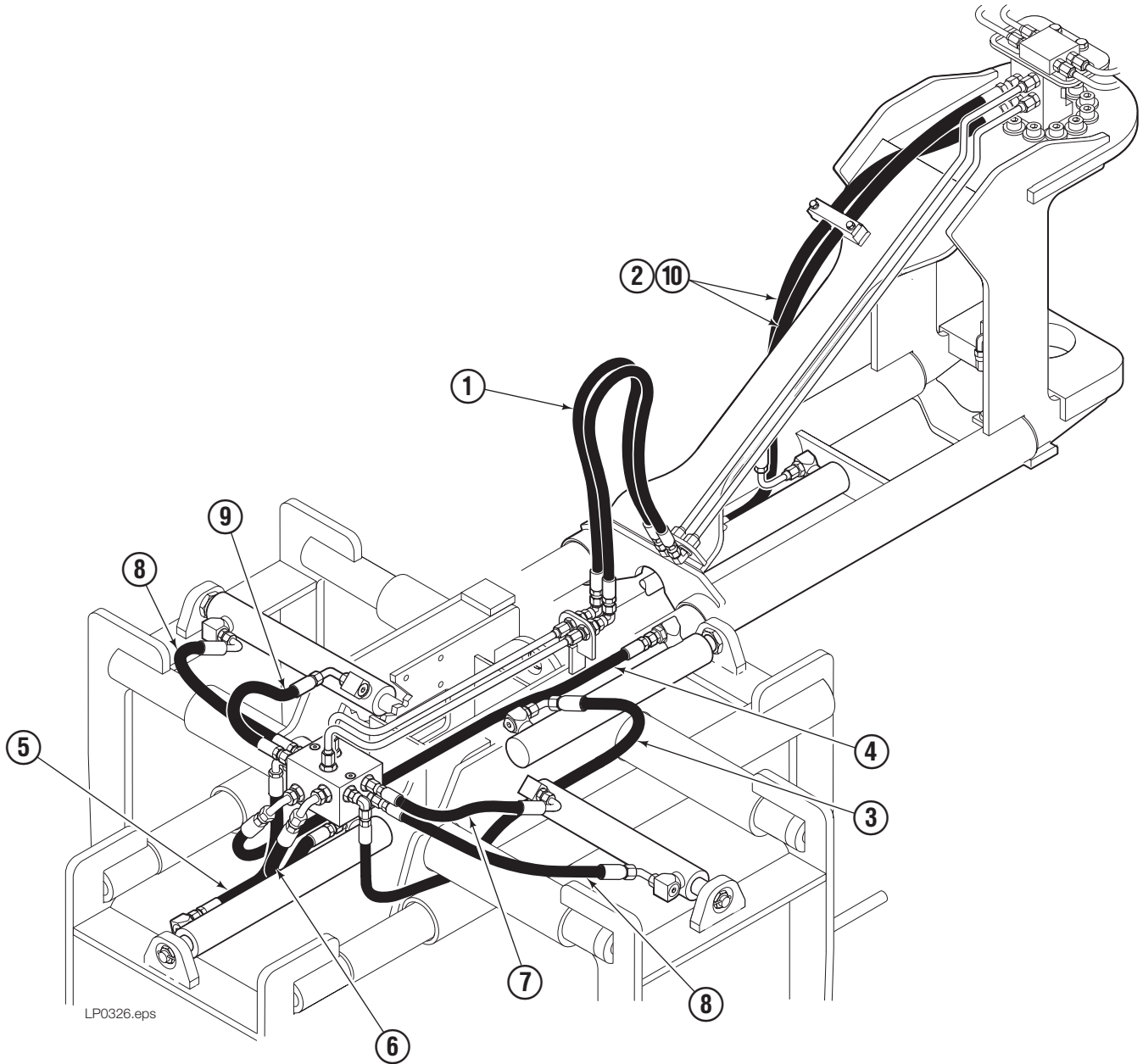
REF	QTY	PART NO.	DESCRIPTION
		3018979	Cylinder Assembly
1	2	6510	■ Cotter Pin
2	2	667624	■ Nut Retainer
3	2	667625	■ Nut
4	1	3018980	Shell
5	1	602580	Fitting
6	1	559702	Piston
7	1	2716	◆ O-Ring
8	1	662450	◆ Seal
9	1	2722	◆ O-Ring
10	1	615126	◆ Back-Up Ring
11	1	413799	Retainer
12	1	662448	◆ Seal
13	1	636853	◆ Wiper
14	1	667623	Nut
15	1	3010506	Rod
16	1	667626	Washer
17	1	3018981	Spacer
18	1	671047	◆ Seal Loader, Piston
19	1	671051	◆ Seal Loader, Retainer
		560729	Service Kit

■ Included in Nut Service Kit 668926.

◆ Included in Service Kit 560729.

Reference: ST-0284, ST-0283.

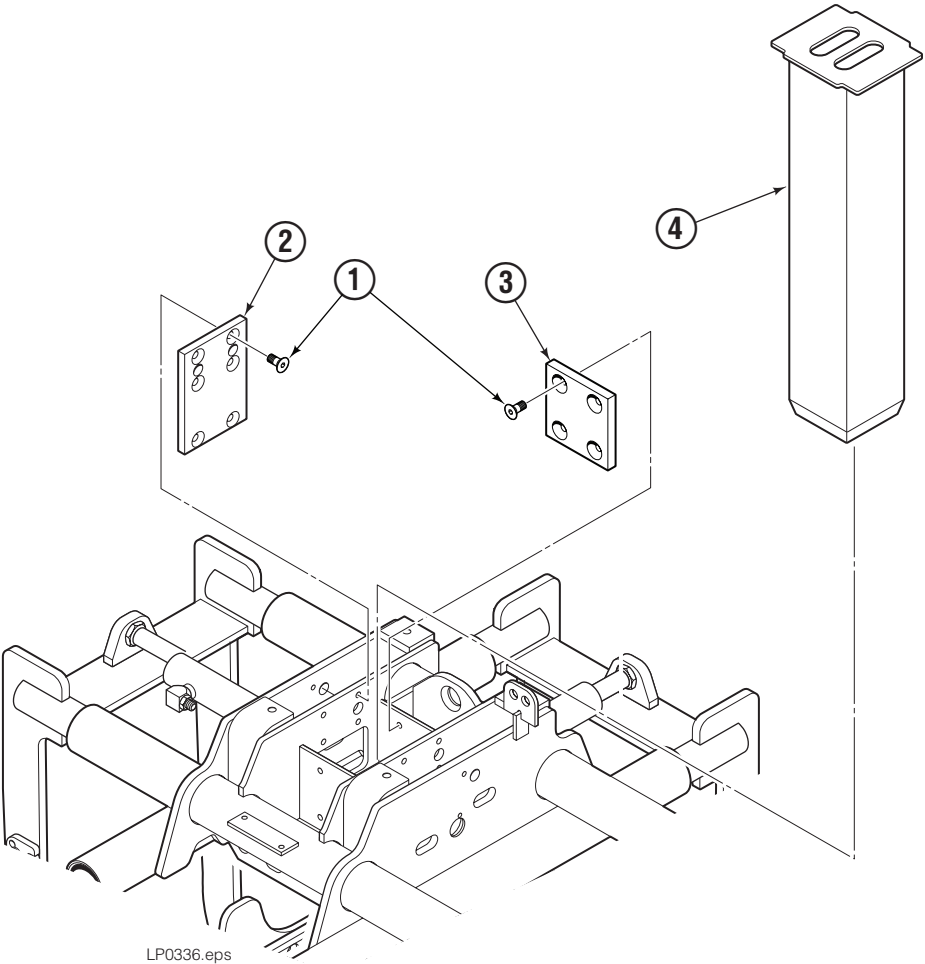
Hose Group



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30B			
REF	QTY	PART NO.	DESCRIPTION
		6144653	Hose Group
1	1	6011624	Hose, Tinline, 32.00 in.
2	1	385000	Hose, 41.00 in.
3	1	6125917	Hose, 35.00 in.
4	1	6111079	Hose, 38.50 in.
5	1	6113899	Hose, 12.50 in.
6	2	6100716	Hose, 12.00 in.
7	1	383026	Hose, 14.50 in.
8	2	383022	Hose, 19.00 in.
9	1	6132885	Hose, 16.00 in.
10	1	205226	Hose, 34.25 in.

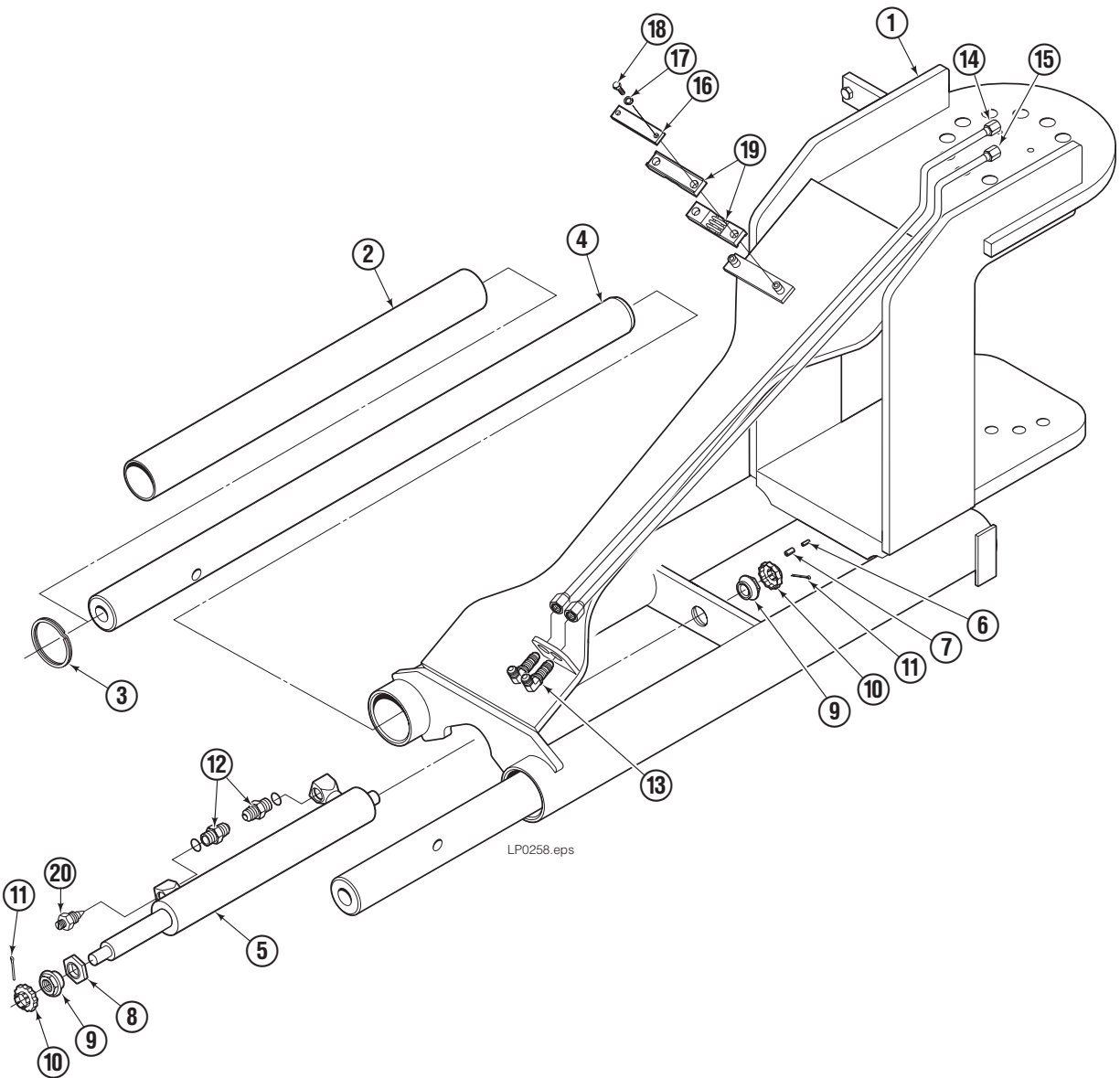
Center Load Support Group



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30B			
REF	QTY	PART NO.	DESCRIPTION
		6144826	Center Load Support Group
1	20	766646	Capscrew, M10 x 20
2	2	6104724	Support Pad
3	2	6104723	Support Pad
4	1	6104730	Center Load Support

Boom Arm Assembly



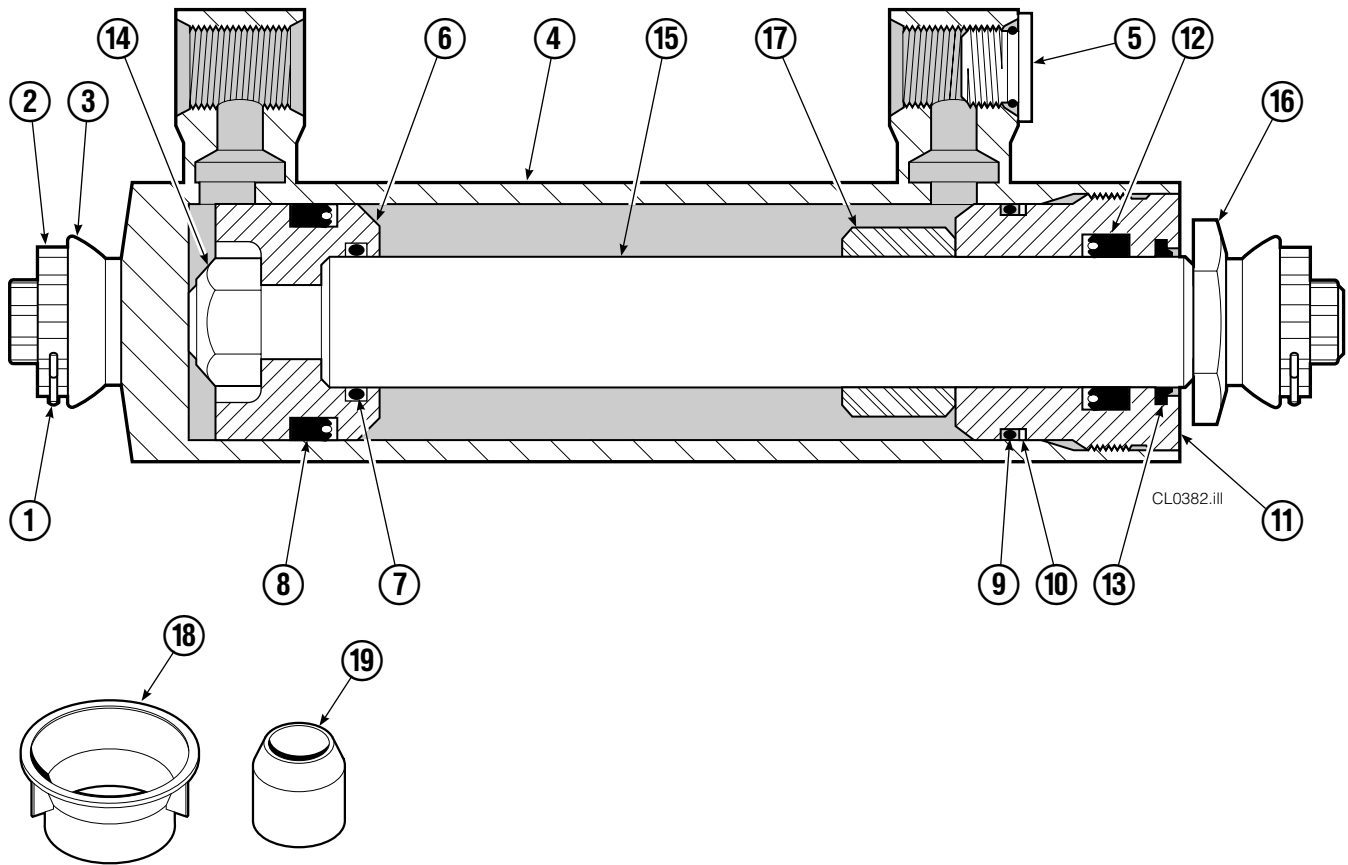
LP0258.eps

30B							
REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		6125975	Boom Arm Assembly	11	2	6510	Cotter Pin
1	1	6116985	Frame	12	2	611288	Fitting, 6-6
2	2	21066-0780	Bushing	13	2	2453	Fitting, 6-6
3	2	222901	Retaining Ring	14	1	6011557	Tube
4	2	6008746	Arm Bar	15	1	6011537	Tube
5	1	3006095	Cylinder ◆	16	1	203407	Bar
6	1	—	Roll Pin - Inner	17	2	206323	Lockwasher, M6
7	1	—	Roll Pin - Outer	18	2	763169	Capscrew, M6 x 20
8	1	667626	Washer	19	2	208731	Molded Insert
9	2	667625	Nut	20	1	667609	Restrictor Fitting ●
10	2	667624	Retainer				

◆ See Cylinder page for parts breakdown.

● See Restrictor Fitting page for parts breakdown.

Boom Cylinder



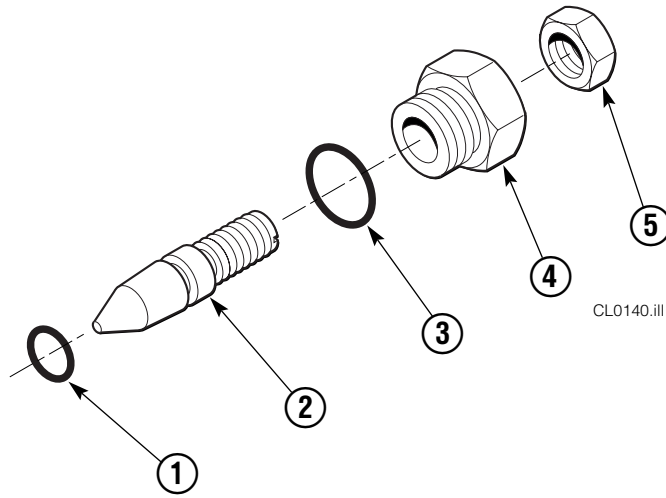
REF	QTY	PART NO.	DESCRIPTION
		3006095	Cylinder Assembly
1	2	6510	■ Cotter Pin
2	2	667624	■ Nut Retainer
3	2	667625	■ Nut
4	1	3006096	Shell
5	1	602580	Fitting
6	1	559702	Piston
7	1	2716	▲ O-Ring
8	1	662450	▲ Seal
9	1	2722	▲ O-Ring
10	1	615126	▲ Back-Up Ring
11	1	413799	Retainer
12	1	662448	▲ Seal
13	1	636853	▲ Wiper
14	1	667623	Nut
15	1	3006097	Rod
16	1	667626	Washer
17	1	3004460	Spacer
18	1	671047	▲ Seal Loader, Piston
19	1	671051	▲ Seal Loader, Retainer
		560729	Service Kit

▲ Included in Service Kit 560729.

■ Included in Nut Service Kit 668926.

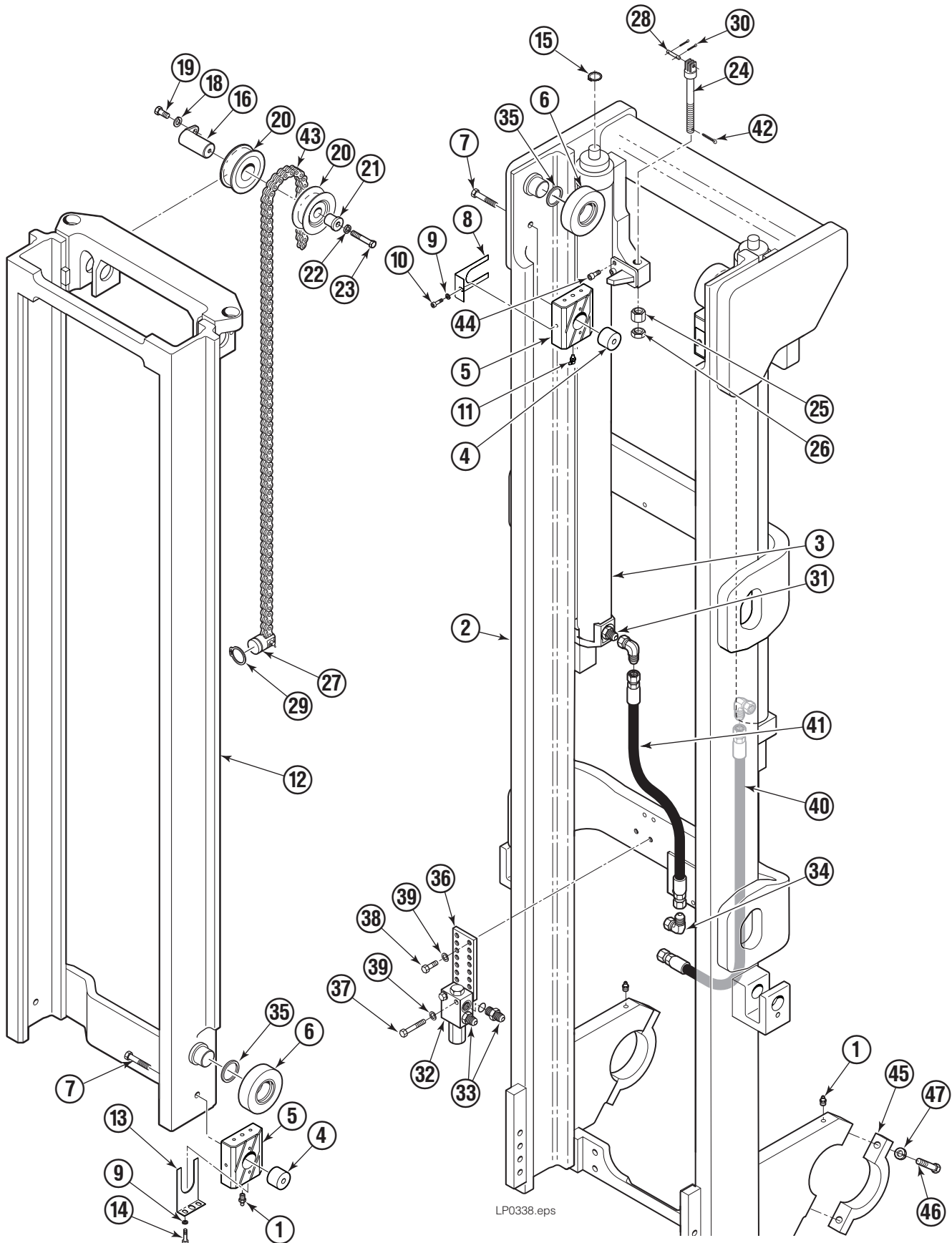
Reference: ST-0283, ST-0284.

Restrictor Cartridge



REF	QTY	PART NO.	DESCRIPTION
		667609	Restrictor Cartridge
1	1	2701	O-Ring
2	1	667611	Plunger
3	1	2841	O-Ring
4	1	667610	Plug - Special
5	1	5716	Jam Nut

Mast Assembly



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Mast Assembly

30B							
REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		6144766	Mast Assembly	25	2	200006	Nut, 5/8
	1	6144749	Basic Mast Assembly ▼	26	2	200007	Jam Nut, 5/8
1	4	7418	Grease Fitting	27	2	680243	Chain Anchor
2	1	6144750	Mast Weldment	28	4	684305	Pin
3	2	580705	Cylinder ◆	29	2	3135	Snap Ring
4	4	6113008	Stub Shaft	30	8	6508	Cotter Pin
5	4	6142048	Thrust Bearing	31	2	611289	Fitting, 8-10
6	4	662145	Roller	32	1	684810	Lowering Control Valve ●
7	4	768555	Capscrew, M12 x 40	33	2	601377	Fitting, 8-8
8	6	6142108	Shim	34	3	605761	Fitting, 8-8
9	6	206315	Lockwasher, M8	35	■	631881	Shim (.030)
10	2	787375	Capscrew, M8 x 20	36	1	683831	Bar
11	2	201541	Grease Fitting	37	2	683823	Capscrew, M10 x 50
12	1	6143085	Inner Rail Weldment	38	2	684649	Capscrew, M10 x 25
13	6	6142091	Shim	39	4	681238	Lockwasher, M10
14	4	768796	Capscrew, M8 x 35	40	1	6055128	Hose, 41.00 in.
15	2	688935	Snap Ring	41	1	212651	Hose, 30.00 in.
16	2	683802	Pin	42	2	6518	Cotter Pin
17	2	660051	Sheave	43	1	678770	Chain
18	2	787383	Washer, M10	44	4	219596	Capscrew, M8 x 16
19	2	683820	Capscrew, M10 x 16	45	2	693059	◆ Pivot Cap
20	2	209623	Sheave	46	1	688885	◆ Capscrew, M12 x 70
21	2	684657	Shaft	47	4	683822	◆ Lockwasher, M12
22	2	683822	Lockwasher, M12		2	688623	Internal Hose Reeving Group ▲
23	2	768557	Capscrew, M12 x 50		1	6116740	Upper Carriage Assembly □
24	2	201435	Chain Anchor				

▼ Includes items 1 – 41 & 45 – 47.

◆ See Cylinder page for parts breakdown.

● See Valve page for parts breakdown.

■ Quantity as required.

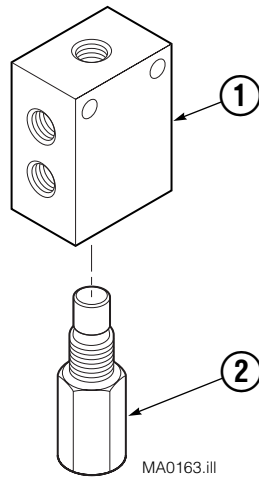
◆ Included in Mast Weldment 6144750. Also included in Mounting Group 6144754.

▲ See Internal Hose Reeving page for parts breakdown.

□ See Upper Carriage Assembly page for parts breakdown.

Lowering Control Valve

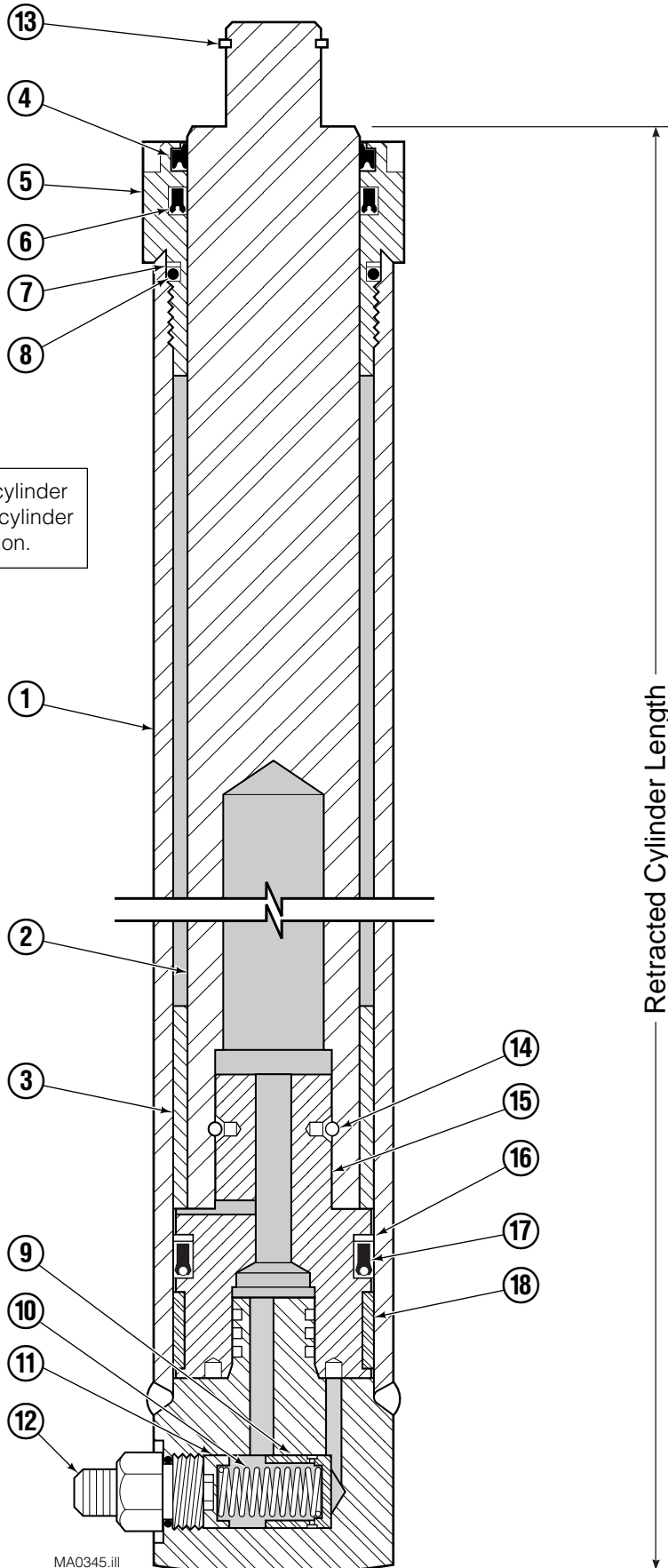
2600 PSI System Pressure




REF	QTY	PART NO.	DESCRIPTION
		684810	Lowering Control Valve
1	1	684152	Valve Body
2	1	684210	Valve Cartridge ▲

▲ This part must not be substituted. Check part number on side of cartridge when replacing.

Main Lift Cylinder-2600 PSI



 **WARNING:** Replacing the cylinder with a different part number cylinder may cause mast to malfunction.

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Main Lift Cylinder-2600 PSI

REF	QTY	PART NO.	DESCRIPTION
	1	580705	Cylinder Assembly
1	1	5432-1237	Shell
2	1	5444-1205	Plunger
3	—	—	Spacer
4	1	562663	Plunger Wiper ▲
5	1	562630	Retainer
6	1	562569	Plunger Seal ▲
7	1	559859	Back-Up Ring ▲
8	1	559858	O-Ring ▲
9	1	563782	Piston-Lowering Fuse
10	1	562847	Spring
11	1	562848	Spring Guide
12	1	611289	Fitting, 8-10 ■
13	1	3129	Snap Ring ▲
14	1	559906	Pull-In Wire ▲
15	1	560462	Piston
16	1	560066	Back-Up Ring ▲
17	1	563631	Piston Seal ▲
18	1	559864	Wear Ring ▲

▲ Included in Service Kit 562591.

■ Not included in Cylinder Assembly.

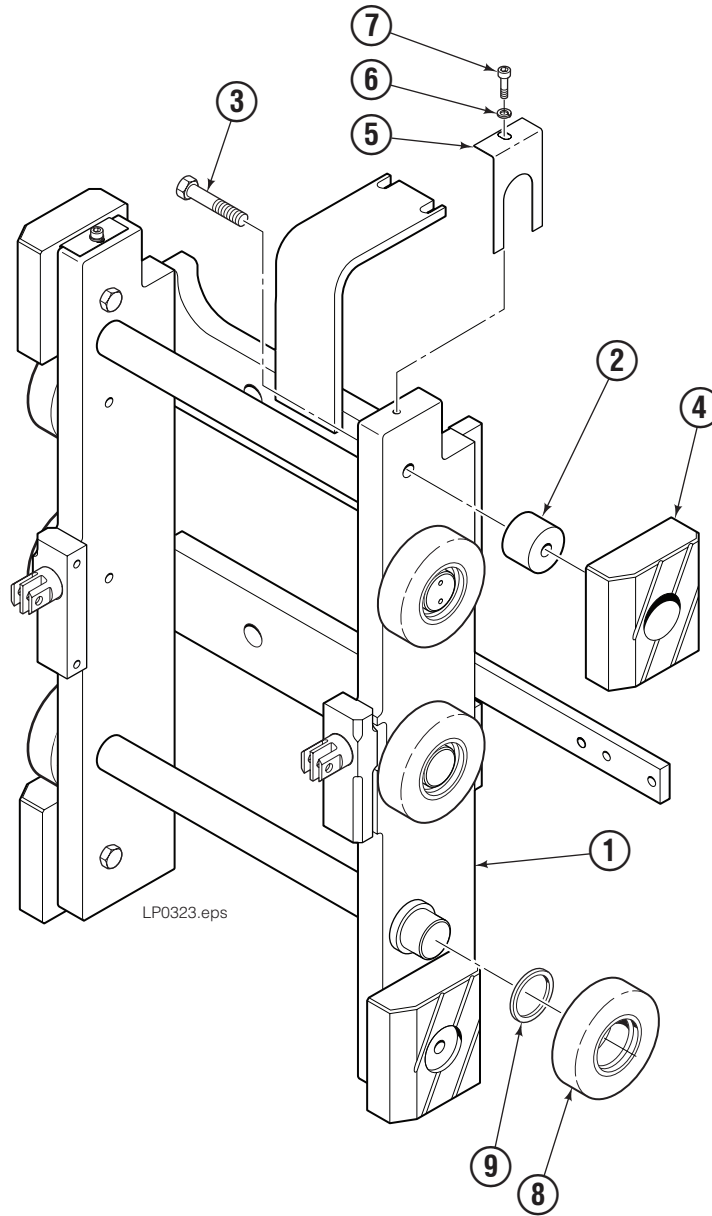
Reference: S-6079, S-6080.

Internal Hose Reeving

30B			
REF	QTY	PART NO.	DESCRIPTION
		688623	Internal Hose Reeving
1	1	209623	Sheave
2	1	684657	Shaft
3	1	684650	Capscrew, M12 x 55
4	1	683822	Lockwasher, M12
5	2	2453	Fitting, 8-8
6	1	206898	Bracket
7	2	787372	Capscrew, M8 x 20
8	2	206315	Lockwasher, M8
9	1	684658	Bracket
10	1	683919	Bracket
11	2	2375	Fitting, 8-8
12	2	684649	Capscrew, M10 x 25
13	1	763023	Nut, M10
14	2	683826	Lockwasher, M10
15	2	3550-3005	Hose

Reference: Common Parts Group 684819, S-3548.

Upper Carriage Assembly



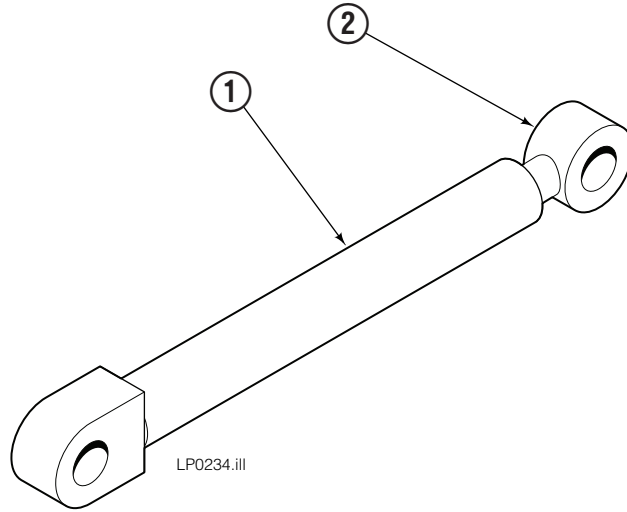
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REF	QTY	PART NO.	DESCRIPTION
		6116740	Carriage Assembly ♦
1	1	6116741	Carriage
2	4	6113008	Stub Shaft
3	4	202407	Capscrew, M12 x 60
4	4	6113010	Bearing
5	■	6113016	Shim
6	4	206315	Lockwasher, M8
7	4	768795	Capscrew, M8 x 30
8	6	662145	Roller Assembly
9	18	631881	Shim, Roller

♦ Includes items 1 – 7 only.

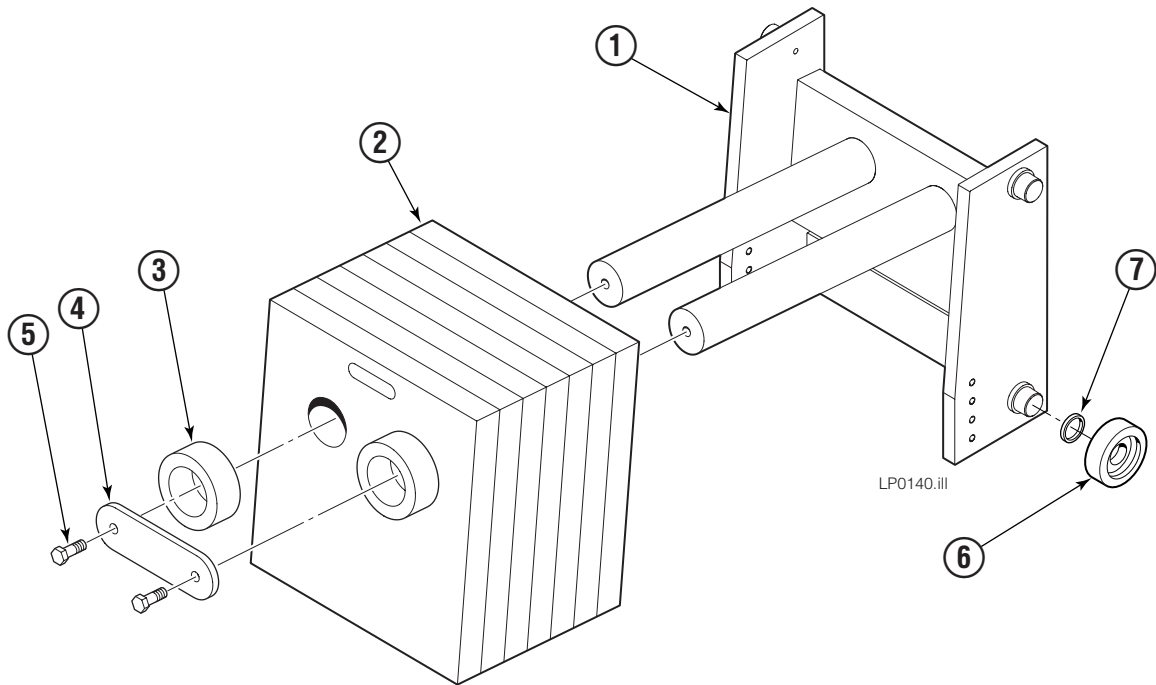
■ Quantity as required.

Tilt Lock Assembly



REF	QTY	PART NO.	DESCRIPTION
		6131913	Tilt Lock Assembly
1	1	6114265	Truck Mount Weldment
2	1	6131914	Mast Mount Weldment

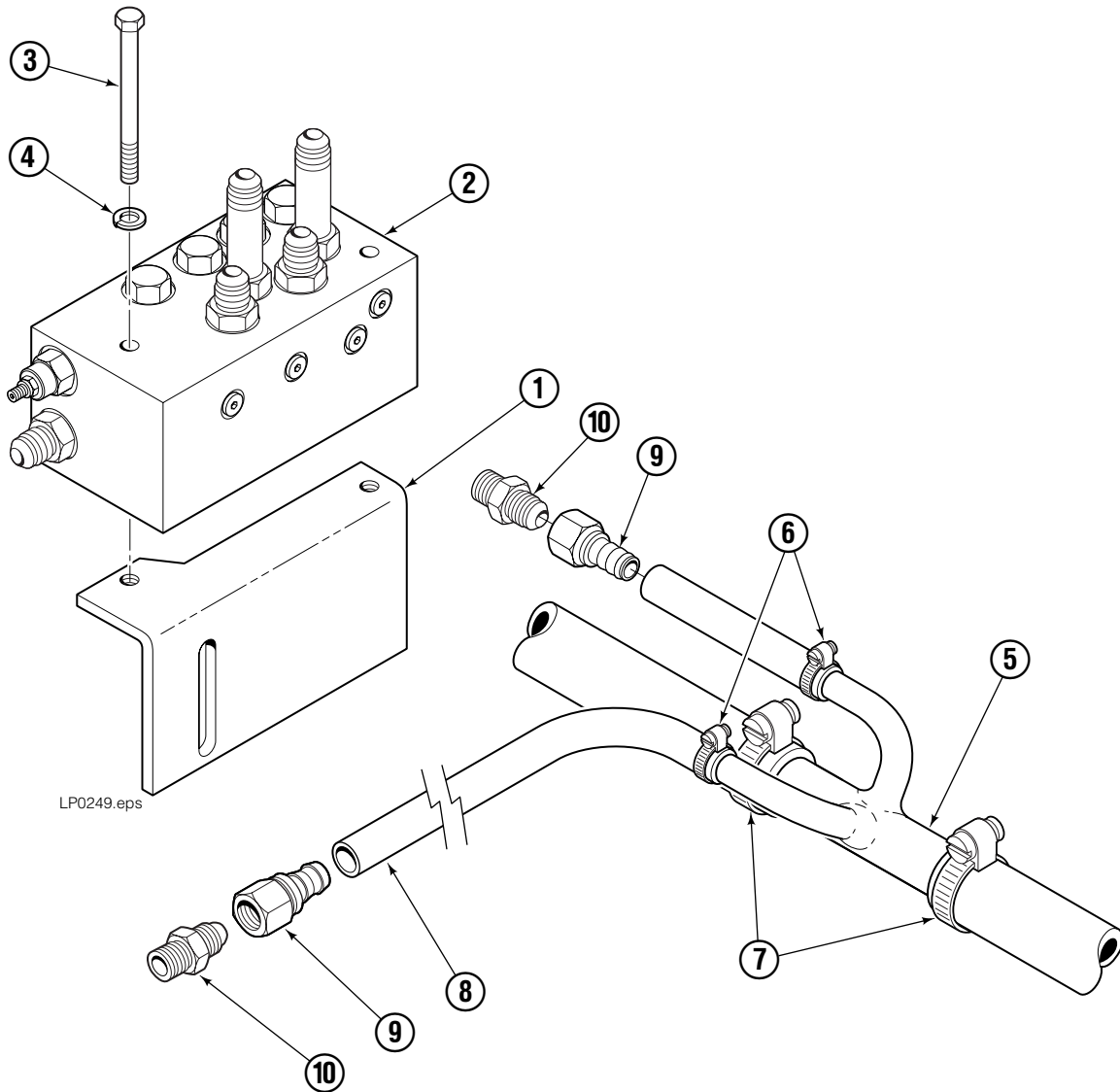
Carriage Ballast



REF	QTY	PART NO.	DESCRIPTION
		3013958	Carriage Ballast Assembly
1	1	3013959	Carriage
2	7	3013297	Ballast Plate
3	2	3013962	Rubber Washer
4	1	3013963	Retainer
5	2	752903	Capscrew
6	4	662145	Roller
7	■	631881	Shim

■ Quantity as needed.

Flow Control Valve Group



REF	QTY	PART NO.	DESCRIPTION
		6113151	Flow Control Valve Group
1	1	233036	Mounting Plate
2	1	6036088	Flow Control Valve
3	2	768535	Capscrew, M8 x 90
4	2	787398	Washer, M8
5	1	6049384	◆ Adapter Tee - 1.00 in.
6	2	211742	◆ Hose Clamp
7	2	211743	◆ Hose Clamp - 1.00 in.
8	1	211740	◆ Hose, 72.00 in.
9	2	211741	◆ Fitting, 8
10	2	601377	◆ Fltting, 8-8

◆ Included in Connector Kit 6049381.

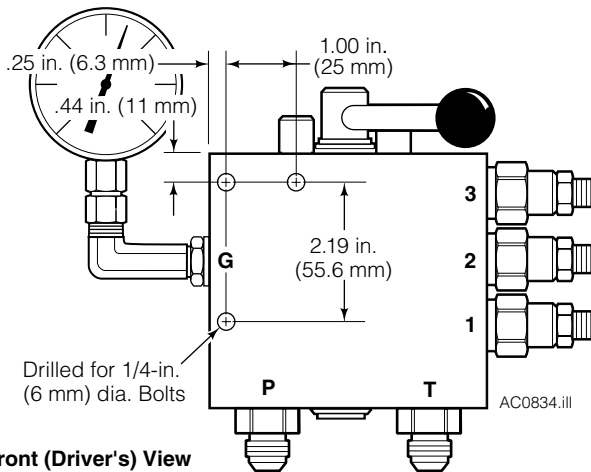


Installation Instructions

Four-Position Pressure Relief Valve 660412

This sheet provides installation instructions for the Four-Position Pressure Relief Valve 660412. The valve enables up to four (4) pressure selections, allowing the clamping force to be varied from load to load. Three pressure relief cartridges can be adjusted to relieve pressure between 100 and 3000 psi, a fourth position blocks flow to all relief cartridges enabling straight-through truck relief pressure. Maximum flow rate through the valve is 20 GPM.

- 1 Determine a convenient location on the truck cowl or safety cage upright, within safe reach and view of the driver (see illustration opposite). Use the mounting hole dimensions shown to mount the valve securely.



Front (Driver's View)

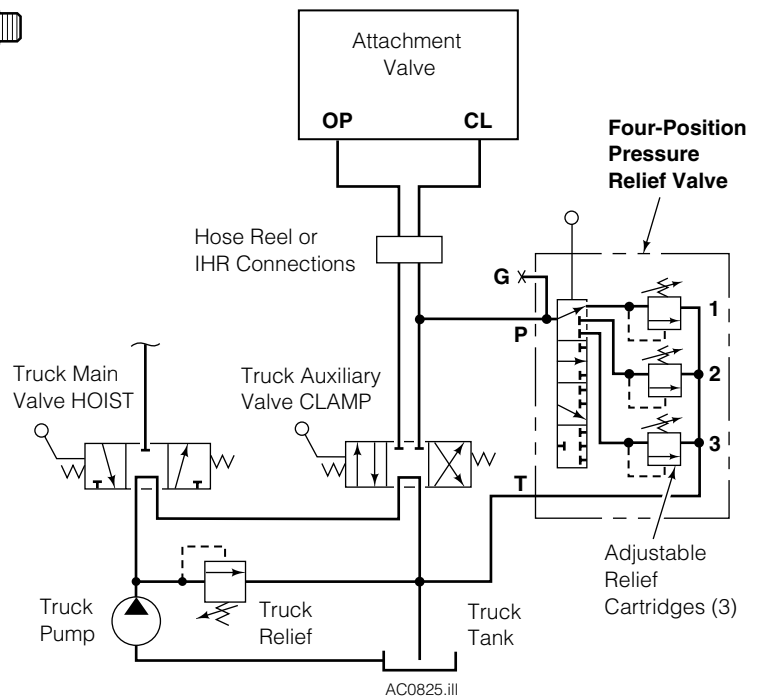
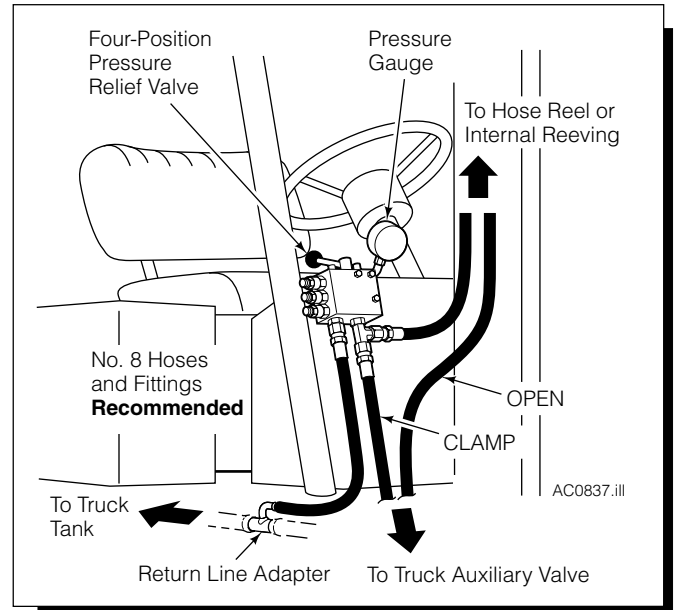


WARNING: Before removing hydraulic hoses, relieve pressure in the Attachment hydraulic system. Turn the truck off and move the auxiliary control lever several times in both directions.

- 2 Attach hoses and fittings between the Pressure Relief Valve, truck auxiliary valve, truck tank, and attachment valve using the diagram and hydraulic schematic. **No. 8 hoses and fittings with 13/32 in. (10 mm) minimum ID. recommended.**

CAUTION: A dedicated return-to-tank line is required from the relief valve 'TANK' port to the truck tank. Return Line Adapter Kits available:

Part No. 214062 (.75 in. dia. line)
Part No. 211745 (1.0 in. dia. line)
Part No. 214066 (1.25 in. dia. line)



Part No. 664827-R4

cascade[®]
corporation

For Technical Support . . .

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 Write: Cascade Corporation, PO Box 20187, Portland, OR 97294

To Order Parts . . .

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- 3** Four basic stop configurations are shown in the illustration opposite (relief valve mounted as shown in this sheet). Many different configurations are possible by rearranging the stops, or by sliding the lever within the valve spool. Position the stops for desired movement of the lever depending on your specific requirements.

IMPORTANT: Numbers stamped around base of lever correspond to relief valve cartridge selected. Positions 1 and 2 are duplicated and can be selected 180 degrees opposite from each other. Position 'X' blocks the flow to all relief valve cartridges so the valve has no effect. Truck relief pressure is then delivered to the attachment.

- 4** To preset the Valve relief cartridges, install a 5000 psi (345 bar) pressure gauge (Cascade Part No. 664158) in the Valve gauge port.

Sample Settings*

3-Position	4-Position
Pos. X – Not Available	Pos. X – 2300 (Truck Pressure)
Pos. 1 – 1400 psi	Pos. 1 – 1800 psi
Pos. 2 – 1600 psi	Pos. 2 – 1600 psi
Pos. 3 – 1800 psi	Pos. 3 – 1400 psi

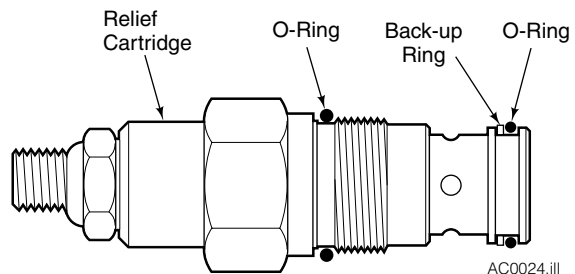
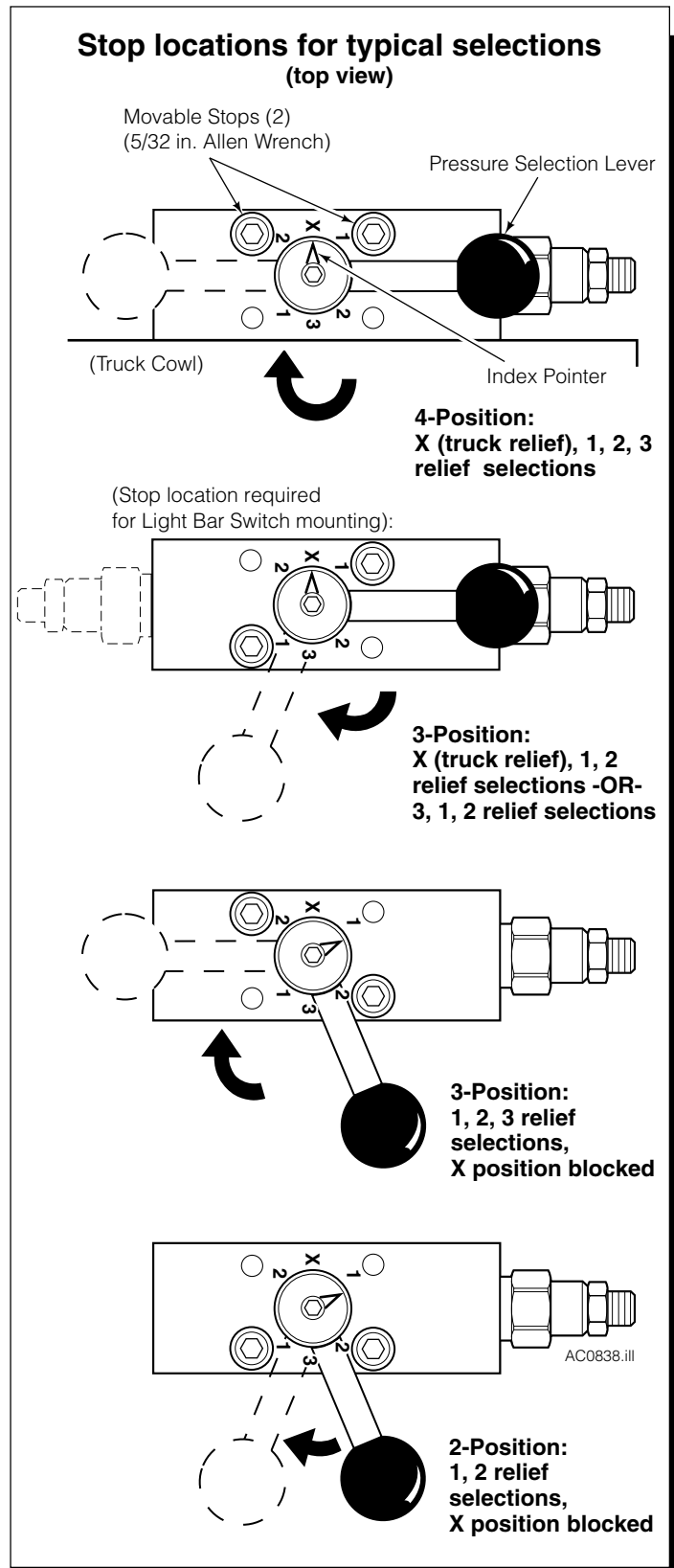
* **IMPORTANT: Cartridges are not factory pre-set.** Pressures must be adjusted for your application. Four (4) positions not available when Light Bar Switch is mounted on valve.

- 5** Shift the valve lever index pointer to position '1' stamped on the valve body.
- 6** Loosen the jam nut on the No. 1 relief cartridge. Adjust the relief cartridge (3/16-in. Allen hex wrench) inward (CW) to raise pressure or outward (CCW) to lower the pressure.
- 7** Clamp up on the load and check the pressure. Readjust as required. Tighten the jam nut.
- 8** Shift the valve lever pointer to position '2' stamped on the valve body. Repeat step 6 and 7 for No. 2 relief cartridge.
- 9** Shift the valve lever pointer to position '3' stamped on the valve body. Repeat step 6 and 7 for No. 3 relief cartridge.
- 10** With the valve lever pointer at position 'X', all ports to the relief valve cartridges are blocked, and the valve has no effect. Pressure to the attachment is determined by truck system relief pressure. The 'X' position selection may be blocked by positioning the stops as shown.

CAUTION: Do not remove the rotating spool from the valve body. Permanent damage will occur due to the spring-loaded detents and will void the warranty. Replace valve as a complete assembly.

Replacement Parts

Qty	Description	Part No.
3	Relief Cartridge with Seals	661676
3	Seal Service Kit	669597



Do you have questions you need answered right now? Call your nearest Cascade Parts Department. Visit us online at www.cascorp.com

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