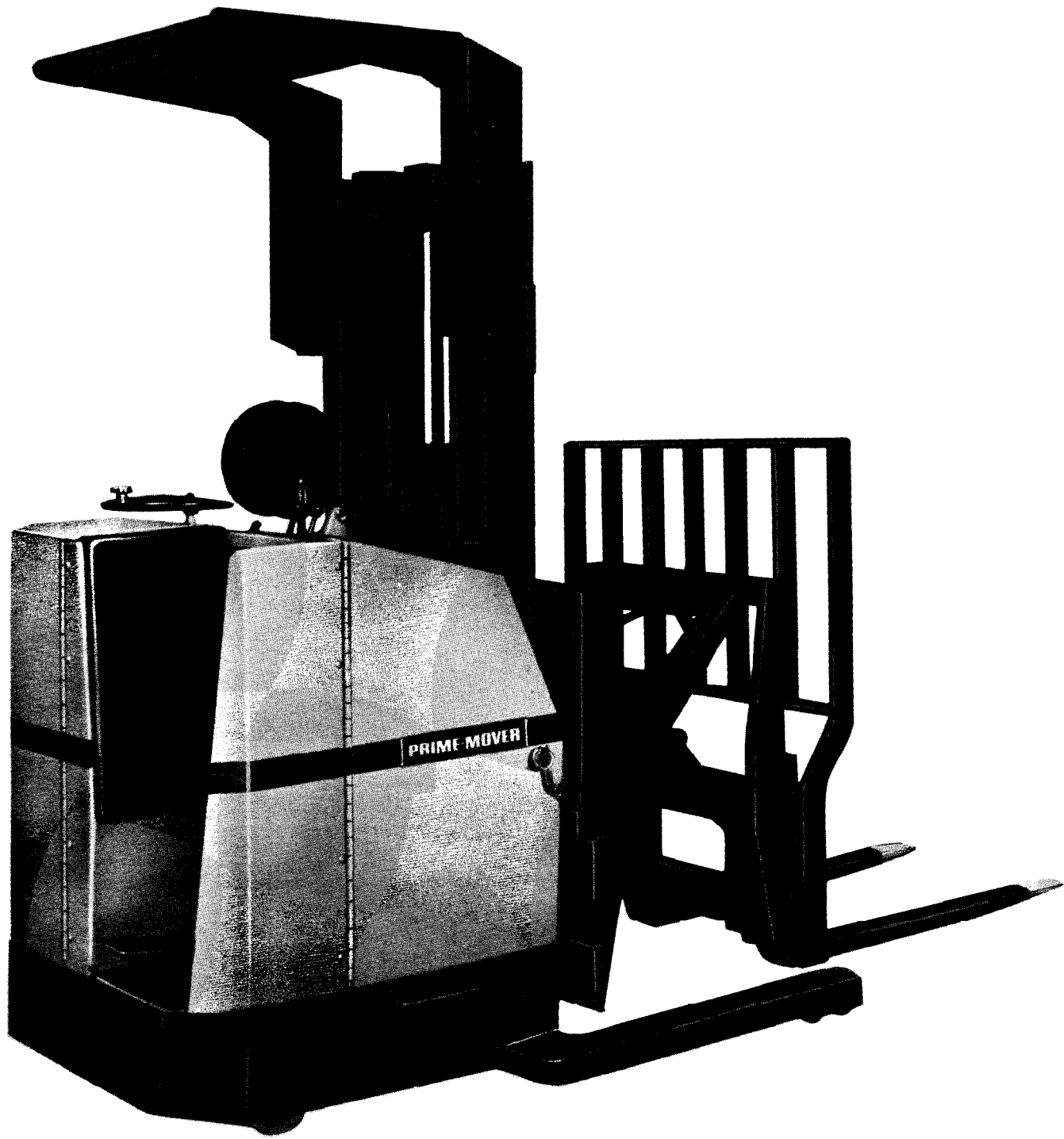


Operating/Maintenance/Parts Manual

RR SERIES TRUCKS

RR-20
RR-30



PRIME-MOVER

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Hydraulic hoses should periodically be checked for excess wear. If such wear is noted, care should be taken to isolate or reroute the hose(s) in order to eliminate the wear.

It is suggested that both hydraulic pump motors should be rebuilt or replaced at the same time to maintain a uniform loading.

HYDRAULIC VALVE SWITCH Service Ref.: 30700-00

As mentioned in the hydraulic theory the switches are used to turn on the motor(s) when pressure is needed in the system. Closing any of these control switches supplies power to energize the pump contactor and thus turn the pump(s) on. Adjustment proceeds as follows:

1. Loosen the two machine screws which hold the switch assembly to the valve.
2. Slide the switch up or down to center the commoning contact bar between the upper and lower contact points. This adjustment can be seen through the transparent cover of the switch.
3. Tighten the two screws and check for proper adjustment. Note: The lift switch uses only one set of contact points since the lift system requires the pump to turn on only when lifting.

LIFT CYLINDER

Repair and/or adjustment of the lift cylinder is described in the service and disassembly instructions of this manual and in the master service guide.

LIFT CHAIN Service Ref.: 45700-00

To adjust the lift chain:

1. Loosen the locking nuts on the chain anchors.
2. Tighten the adjusting nuts until both chains are free of twist and of equal tension. Tension is correct if you can force the lift chain sideways approximately $\frac{1}{2}$ " to 1" before the lift frame raises slightly.
3. Retighten the locking nuts on the chain anchors.

TILT CYLINDER (Optional)

Instructions for repair and/or adjustment of the tilt cylinder are found in the service and disassembly section of this manual and in the Prime-Mover master service guide.

ARTICULATING PLATE Service Ref.: 05750-00

On certain highlift trucks, the articulating plate movement is limited to provide stability. This adjustment must be reset periodically due to tire wear.

The limited articulation is achieved by two cap screws which contact the front of the articulating plate just behind the battery. Both are located under the shielding — one beneath the contactors and one to the right of the deadman pedal. For proper adjustment:

1. Park the machine on a level floor.
2. Adjust both screws for $\frac{1}{2}$ " clearance to the articulating plate (unless specific instructions are provided with the truck for a different adjustment).
3. Securely lock the cap screws.

REACH ATTACHMENT Service Ref.: 45720-00

The reach attachment can be easily removed by following the procedure below:

1. Tie down hose reel.
2. Remove hoses from reach.
3. Remove two bolts that hold reach to carriage.
4. Remove reach attachment from carriage.

27	P-11020-22	Bearing, plain	2
28	P-25194-1	Bearing, roller	4
29	P-11936-4	Thrust washer	4
30	A-25170	Eccentric, bearing adjuster	4
31	P-11857-4	Washer, mach. bush. (1-1/8 O.D. x 5/8 I.D.)	1
32	P-11894-10	Cap Screw, H. H. 5/8-11 x 2½	4
	A-20786	Cap Screw w/p-11160-3 grease fitting (Cold Storage)	4
33	P-11160-3	Grease fitting only	4
34	P-11047-11	Cap Screw, Soc. Hd. ½-13 x 2	1
35	P-11009-8	Lockwasher, ½	1
36	P-20069-1	Washer, mach. bushing	1
37	P-20070-1	Bearing, spherical roller	1
38	P-11852-10	Cap Screw, soc. flat hd. ½-13 x 1½	3
39	B-25162	Weldment, trans. support bracket	1
40	P-11170-8	Nut, S. L. ½-13	3
41	P-11025-14	Ring, retaining	1
42	P-20069-1	Washer, mach. bushing	1
43	P-11806-10	Nut, jam 5/8-11	4

	C-22214-5	Lift Cylinder (152" Two Stage Mast)	1
	C-22214-6	Lift Cylinder (176" Two Stage Mast)	1
	C-22214-7	Lift Cylinder (200" Two Stage Mast)	1
	Model RR-30 Two Stage Mast Only		
	C-25065-1	Lift Cylinder (102" Two Stage Mast)	1
	C-25065-2	Lift Cylinder (126" Two Stage Mast)	1
	C-25065-3	Lift Cylinder (140" Two Stage Mast)	1
	C-25065-4	Lift Cylinder (152" Two Stage Mast)	1
	C-25065-5	Lift Cylinder (176" Two Stage Mast)	1
	C-25065-6	Lift Cylinder (200" Two Stage Mast)	1
25	P-25108-7	Adapter, Straight	2
26	P-15609-36	Hose (Valve to Tilt Cylinder)	2
27	P-25330-1	Cap (37° Flare)	1
28	P-25349-3	Service Tee	1
29	P-25108-8	Adapter, Straight	3
30	P-12391-6	"O" Ring	3/5
31	P-12318-6	Plug, "O" Ring	1/3
32	P-25325	Two Spool Valve	1
	P-25450	Three Spool Valve	1
33	P-25377-5	Elbow, 90° Adjustable	1
34	P-25363-2	Orifice	2
35	P-25109-2	Adapter	1
36	P-15609-38	Hose (Pump to Valve)	1
37	P-25428	Pump	1/2
38	P-15609-37	Hose (Valve to Reservoir)	1
39	P-11424-5	Adapter, Union, 90° Angle	1
40	P-15559	Filter Assembly	1
	K-22001	Filter Element (was 1551)	1
*	P-25332-1	Cable Tie	1
*	P-20177-2	Clamp	
*	P-11143-2	Capscrew	
*	P-11170-6	Nut	



*Not Shown

See page indicated below for parts breakdown of assemblies.

Hydraulic Pump & Motor (Pump Only)	Page 34
Hydraulic Pump & Motor (Motor Only)	Page 35
Control Valve	Page 32
Lift Cylinder (Two Stage)	Page 39
Lift Cylinder (Three Stage)	Page 38
Tilt Cylinder	Page 36

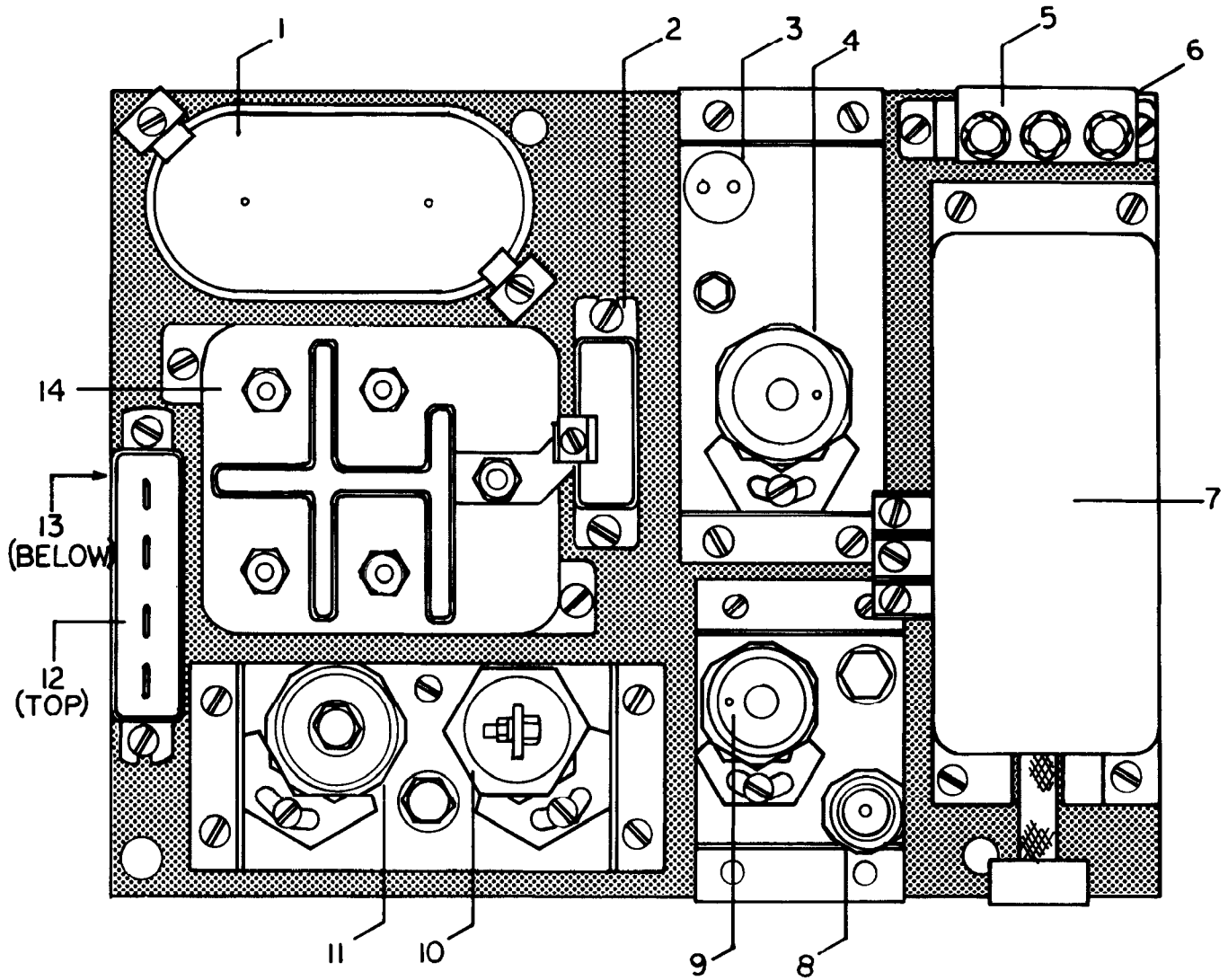
24	C-25033-1	Inner Column (102" two stage mast)	1
	C-25033-2	Inner Column (126" two stage mast)	1
	C-25033-3	Inner Column (140" two stage mast)	1
	C-25033-4	Inner Column (152" two stage mast)	1
	C-25033-5	Inner Column (176" two stage mast)	1
	C-25033-6	Inner Column (200" two stage mast)	1
25	P-11009-12	Lockwasher, 3/4	2
26	A-21090	Column Stop	1
27	C-25020-1	Outer Column (102" two stage mast)	1
	C-25020-2	Outer Column (126" two stage mast)	1
	C-25020-3	Outer Column (140" two stage mast)	1
	C-25020-4	Outer Column (152" two stage mast)	1
	C-25020-5	Outer Column (176" two stage mast)	1
	C-25020-6	Outer Column (200" two stage mast)	1
28	P-11020-15	Bearing, Plain	4
29	A-25226	Block, mast pivot	2
30	P-14994-15	Cap Screw, H.H. 1/2-13 x 3/4	8
31	P-11009-12	Lockwasher	4
32	P-14992-8	Cap Screw	4
33		See following chart	1
34	P-25008-1	30" ITA Hook Fork	2
	P-25008-2	36" ITA Hook Fork	2
	P-25008-3	42" ITA Hook Fork	2
	P-25008-4	48" ITA Hook Fork	2

*Not Shown

OVERHEAD GUARD

Mast Ht.	Part No. (12" Btry.)	Part No. (16 1/2" Btry.)
71-83	A-25333	A-25334
83-90	A-25290	A-25293
90-96	A-25289	A-25292
96+	A-25440	A-25439

SCR CONTROL PANEL (SQUARE D SYSTEM)



Service Reference 20700-01

Ref. No.	Part No.	Description	No. Req'd.
1	QZ-26121-26125	(1C) Capacitor	1
2	QZ-B30576-013-51	(1SP) Suppressor	1
3	QZ-26116-65150	Thermistor	1
4	QZ-A30024-023-01	1 SCR (turn on)	1
5	-----	Control fuses (see square D control wiring)	
6	QZ-30576-024-51	(2 SP) Suppressor	1
7	QZ-S30576-525-51	Control Pack Assembly (1 CP)	1
	*QZ-D30576-058-51	Circuit board assembly (1 PCB)	1
	*QZ-D30576-059-51	Circuit board assembly (2 PCB)	1
	*QZ-030576-060-50	Connector Board (3PCB)	1
8	QZ-A30024-027-01	(3 REC) Diode	1
9	QZ-A30024-028-01	2 SCR (turn off)	1
10	QZ-A30024-026-01	(2 REC) Diode	1
11	QZ-A30024-025-01	(1 REC) Diode	1
12	QZ-26162-19476	(1 RES) Resistor	1
13	QZ-26162-29340	(2 RES) Resistor	1
14	QZ-C30576-082-50	(1T) Transformer	1



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