CROWN

1.5 TSP

Service & Parts Manual

Crown PF7777_00

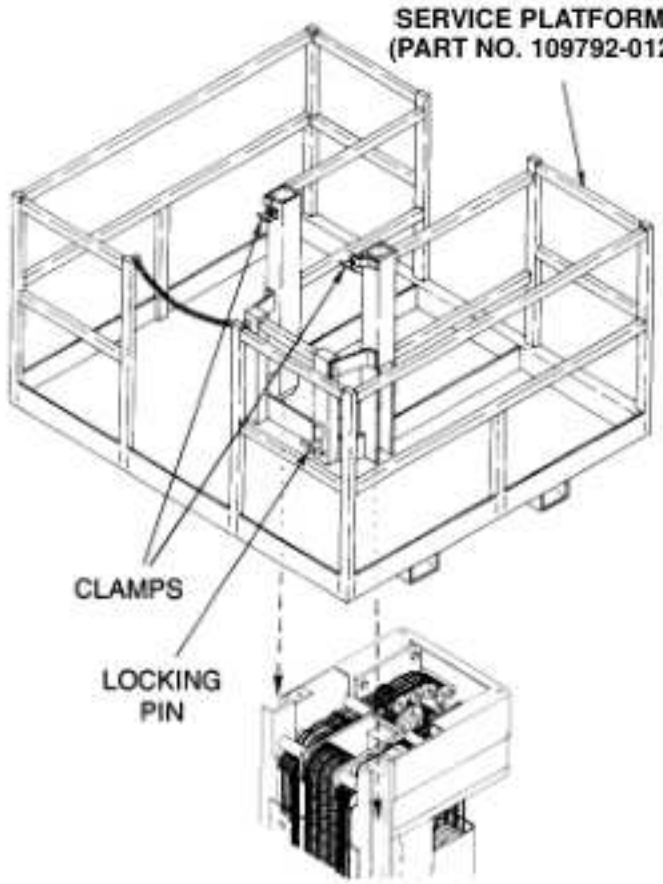
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TN MAST LIFT CYLINDER

Great care and cleanliness should be exercised in the disassembly and assembly of hydraulic cylinders. Wipe all surfaces clean of dirt and oil before attempting disassembly. Care should be taken when removing the ram from the cylinder to prevent damage to the packing on the piston end. After cylinder components are disassembled and seals, "O" rings and wipers are removed, thoroughly wash all metallic parts in solvent and blow dry with low pressure air. Carefully inspect the ram assembly and cylinder bore. Replace if scored, grooved, pitted or worn. Minor damage to the cylinder bore can be removed with the use of a cylindrical honing tool. Place washed components in a clean container until reassembly. Whenever new packings are required, new wiper rings should also be installed.

Service Platform

When performing maintenance to a primary lift cylinder, Crown recommends using a service platform. A service platform is available from Crown; the part no. is 109792-012. The platform is placed at the top of the mast with a fork lift or hoist with sling, etc.



24885 ILLUSTRATION 8-1

NOTE

The service platform cannot be used on TS trucks having a collapsed height of 137 in. (3480mm) or less. Utilize an appropriate maintenance platform fitted to another lift truck to perform maintenance to the lift cylinder area at the top of the mast.

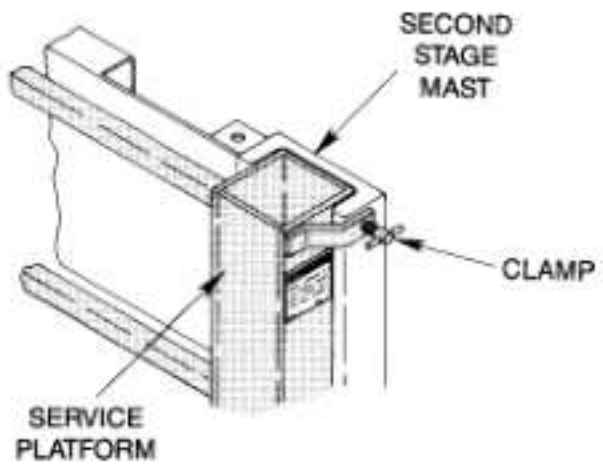
Turn the two clamps at the top of the platform counterclockwise to allow for clearance of the I-beam flange before attempting to place platform on truck.

Secure the service platform to the forkplate of the fork lift, if used, before lifting. Connect sling or chain to the four cornersof the platform railing when utilizing a hoist to installplatform.

WARNING

No personnel should ride on the service platform while it is being lifted into position on the truck.

After the service platform has been properly positioned, maintenance personnel can take their position on the platform. The clamps must be tightened, by turning clockwise, against the I-beam flange at this time.



24886 ILLUSTRATION 8-2

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The following are the wire harness numbers for the TSP Turret Stockpicker. This index lists the area of the truck covered by each harness.

Platform Harnesses	Components Connected By:
105698	Main platform wire harness
105704	Overhead guard, accessories to switch panel
106390	Seat, seat suppressor to seat limit switches
108914	EMS switches, EMS switches to terminal board
105703	Auxiliary height switch, auxiliary height switch to terminal board
105699	Sit-down foot pedestal, sit-down dead man and brake switches to terminal board
105700	Left standing foot pedal, left switches to terminal board
105701	Right standing foot pedal, right switches to terminal board
105095	Load handler, load handler solenoids and switches to terminal board
106391	Display driver module, relay distribution panel to display driver module
105796	Platform electronic box, internal wiring in platform electronic box
106118-004 thru 106118-016	Platform serial cable, serial cable from platform thru mast to power unit

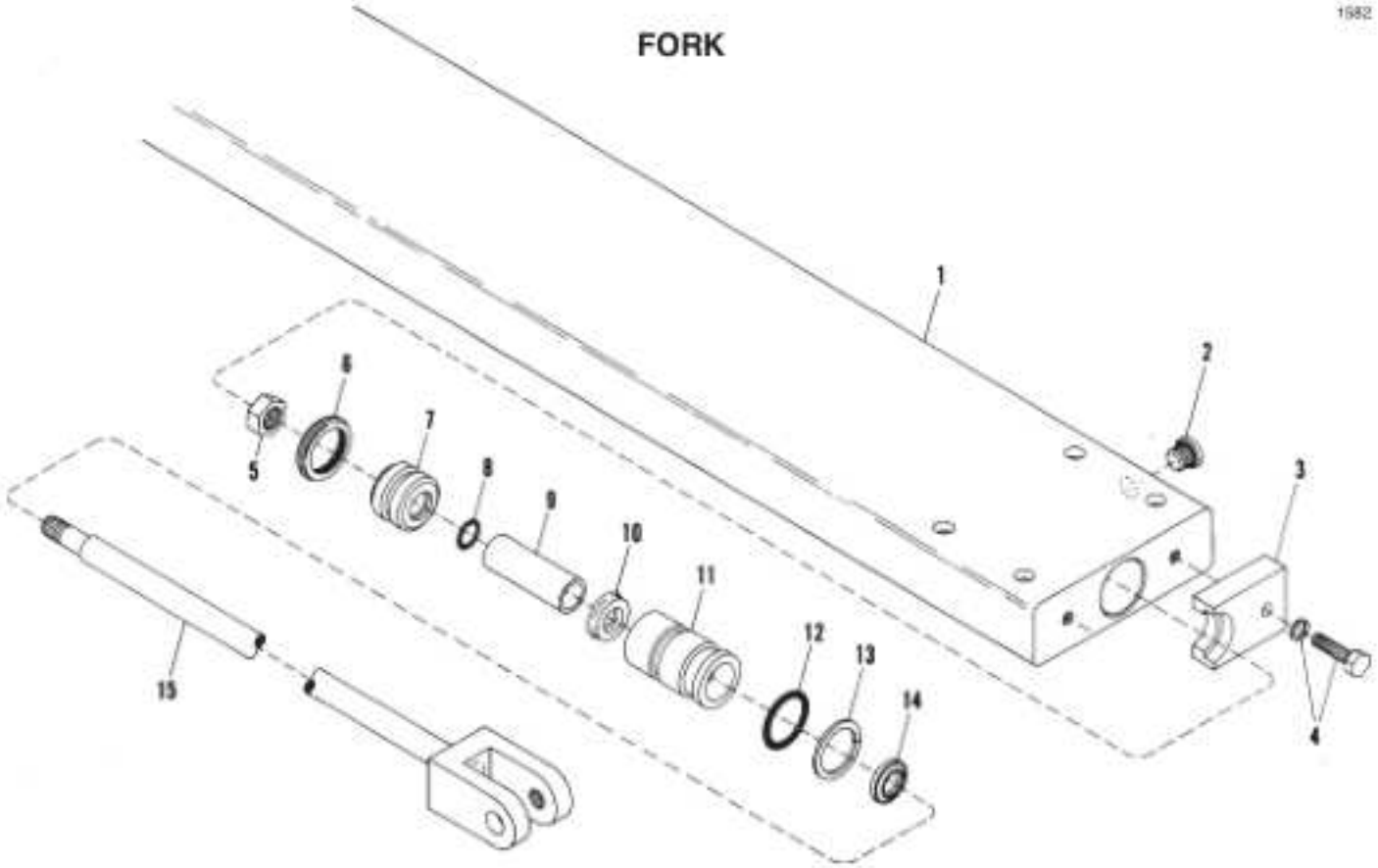
Power Unit Harnesses	Components Connected By:
106106	Main power unit harness
107951	Power unit serial cable, power unit serial from power unit to terminal board
107970	BDI control, harness from distribution panel to BDI controller
108897	Hour meter, harness from distribution panel to hour meter
108569	Brake solenoids, brake solenoids suppressor blocks to solenoids
108913	Right side brake status switch, right steered wheel brake switch to terminal board
108915	Left side brake status switch, left steered wheel brake switch to terminal board
105912	Power unit electronic box, internal wiring in power unit electronic box
107954	Power unit electronic box wiring for guidance, internal to box wiring
112066	Power unit electronic box wiring for EAC, internal to box wiring
105918	Load wheel sensor power unit electronic box to load wheel sensor bar
105919	Steered wheel sensor, power unit electronic box to steered wheel sensor bar
113234	EAC sensor bar, power unit electronic box to EAC sensor bar

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FORK



Index	Part No.	Part Name	No. Req.
1	100675-001	Fork R.H. (36.00 in. & 37.40 in. [915mm & 950mm] Fork Length)	1
	100675-002	Fork R.H. (42.00 in. & 45.28 in. [1067mm & 1150mm] Fork Length)	1
	100675-003	Fork R.H. (48.00 in. [1220mm] Fork Length)	1
	100676-001	Fork L.H. (36.00 in. & 37.40 in. [915mm & 950mm] Fork Length)	1
	100676-002	Fork L.H. (42.00 in. & 45.28 in. [1067mm & 1150mm] Fork Length)	1
	100676-003	Fork L.H. (48.00 in. [1220mm] Fork Length)	1
2	064091-006	Plug	1
	061004-026	Thread Locking Adhesive	1
3	104019	Block Clamp	2
4	060017-007	Screw 3/8 in.	2
	060005-009	Lockwasher	2
5	060021-072	Nut	1
	061004-011	Thread Locking Adhesive	1
6	064216-003	Seal Piston	1
7	100666	Piston	1
8	064019-028	O-Ring	1
9	104044-018	Spacer (3.0 in. [76mm] Fork Extension)	1
	104044-017	Spacer (3.5 in. [89mm] Fork Extension)	1
	104044-016	Spacer (4.0 in. [102mm] Fork Extension)	1
	104044-015	Spacer (4.5 in. [115mm] Fork Extension)	1
	104044-014	Spacer (5.0 in. [127mm] Fork Extension)	1
	104044-013	Spacer (5.5 in. [140mm] Fork Extension)	1
	104044-012	Spacer (6.0 in. [152mm] Fork Extension)	1
	104044-011	Spacer (6.5 in. [165mm] Fork Extension)	1
	104044-010	Spacer (7.0 in. [178mm] Fork Extension)	1
	104044-001	Spacer (7.5 in. [190mm] Fork Extension)	1
10	064132-029	Packing Rod	1
11	100668	Cap End	1
12	064019-044	O-Ring	1
13	064074-022	Ring Back-Up	1
14	064135-013	Ring Wiper	1
15	109471	Rod Piston	1
		MISCELLANEOUS	
	115992	Kit Seal (Includes Index 6, 8, 10, 12, 13 & 14)	1

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