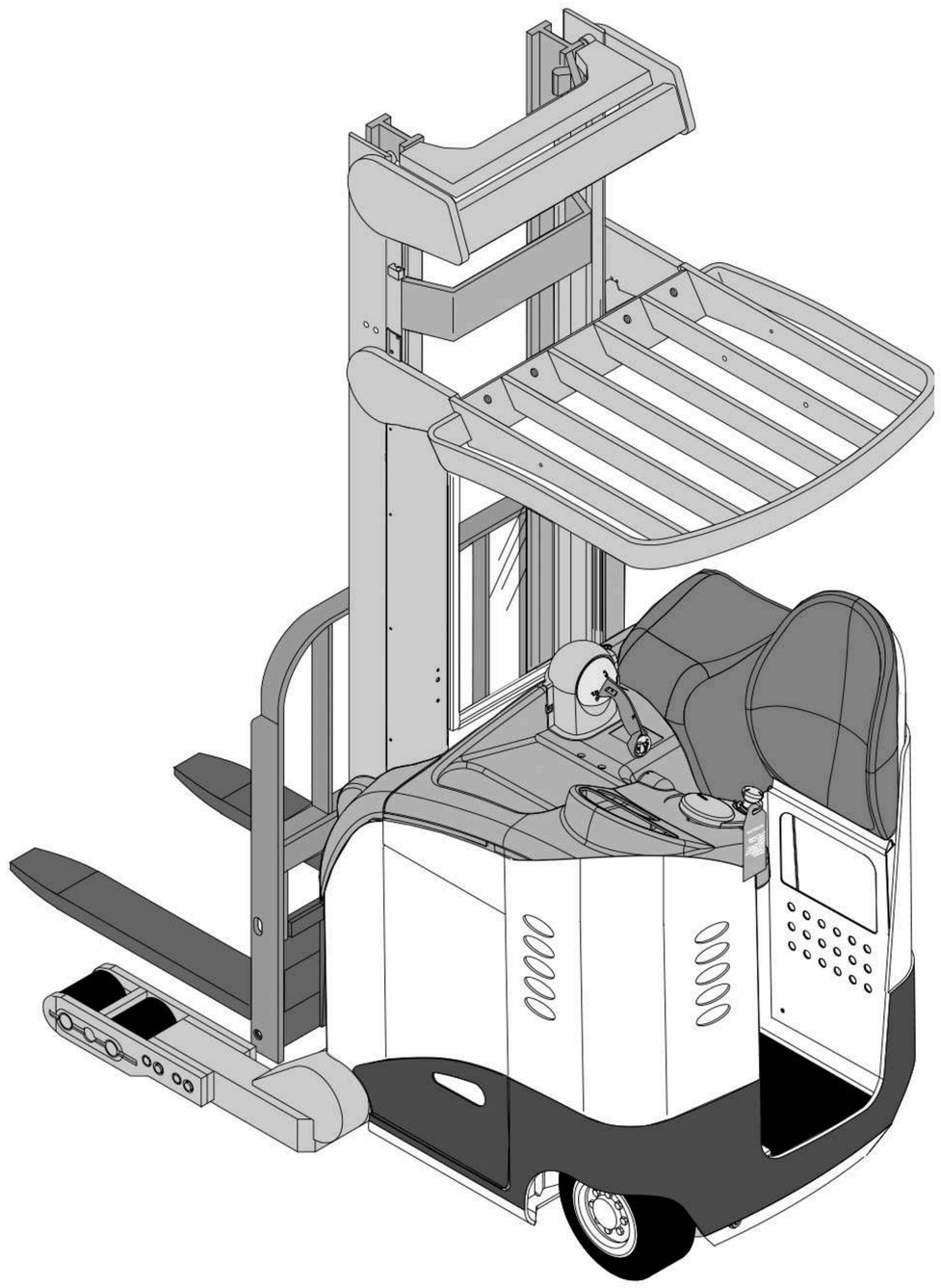
RR 5200S DC

Service & Parts Manual



Crown PF13001-00M

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8. Raise inner arm assembly until column rollers on outer arms can be fitted into channels of support assembly. Place 50 x 100 x 200 mm (2 x 4 x 8 in) approximate length, hardwood block in either channel beneath column roller. Lower inner arm assembly until weight of arm assembly is on hardwood block.
9. Guide fork carriage assembly (47) onto inner arm carriage rollers.
10. Install pivot shafts (39) and roll pins (40).
11. Install reach cylinders.
12. Install pivot shafts (6) and roll pins (5).
13. Extend cylinder manually and install pivot shafts (13) and roll pins (14).
14. Connect hydraulic lines from reach cylinders to bulkheads near top of reach cylinders.

NOTE

Disregard steps 15, 16, 17 and 18 of reassembly procedure if truck is not equipped with tilt function.

15. Place bushings (44) on tilt cylinder (43) pivot studs and install tilt cylinder assembly in carriage assembly. Check serial number plate to obtain capacity of truck to obtain proper tilt cylinder assembly. This information is also needed to obtain proper fork plate assembly (52) and tilt cylinder shaft (49).
16. Connect all hydraulic lines from tilt cylinder to manifold block at top of support assembly.

NOTE

Ensure hoist has a lifting capacity of at least 905 kg (2000 lb).

17. Position fork plate assembly (52) with a hoist and install pivot shafts (51) and pins (50).
18. Extend tilt cylinder piston rod and install tilt cylinder shaft (49) and pin (48).
19. Run an operational check. Refer to Reach Cylinder Adjustment in this section for adjustment procedure.
20. Install forks and load backrest. Add bolt (53).

Reach Cylinders Flushing and Bleeding Procedures

Bleeding

WARNING

AVOID HIGH PRESSURE FLUIDS - Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic lines. Tighten all connections before applying pressure. Keep hands and body away from pin holes which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.
Any fluid injected into the skin under high pressure should be considered as a serious medical emergency despite an initial normal appearance of the skin. There is a delayed onset of pain, and serious tissue damage may occur. Medical attention should be sought immediately by a specialist who has had experience with this type of injury.
Carriage hydraulic circuits need to be flushed after repair of reach cylinders and bled of all air. Before flushing and bleeding of system inspect all hydraulic connections and verify that all filters are installed and hydraulic fluid levels are adequate for test. Hydraulic system must be pressurized during the flushing and bleeding procedures.

1. Remove tilt and side-shift manifold cover.
2. Use an absorbent towel or receptacle to collect the hydraulic fluid.
3. Loosen caps from "tee" fittings, ports (1) and (2) at top of tilt-side-shift manifold. Refer to Figure 17161.

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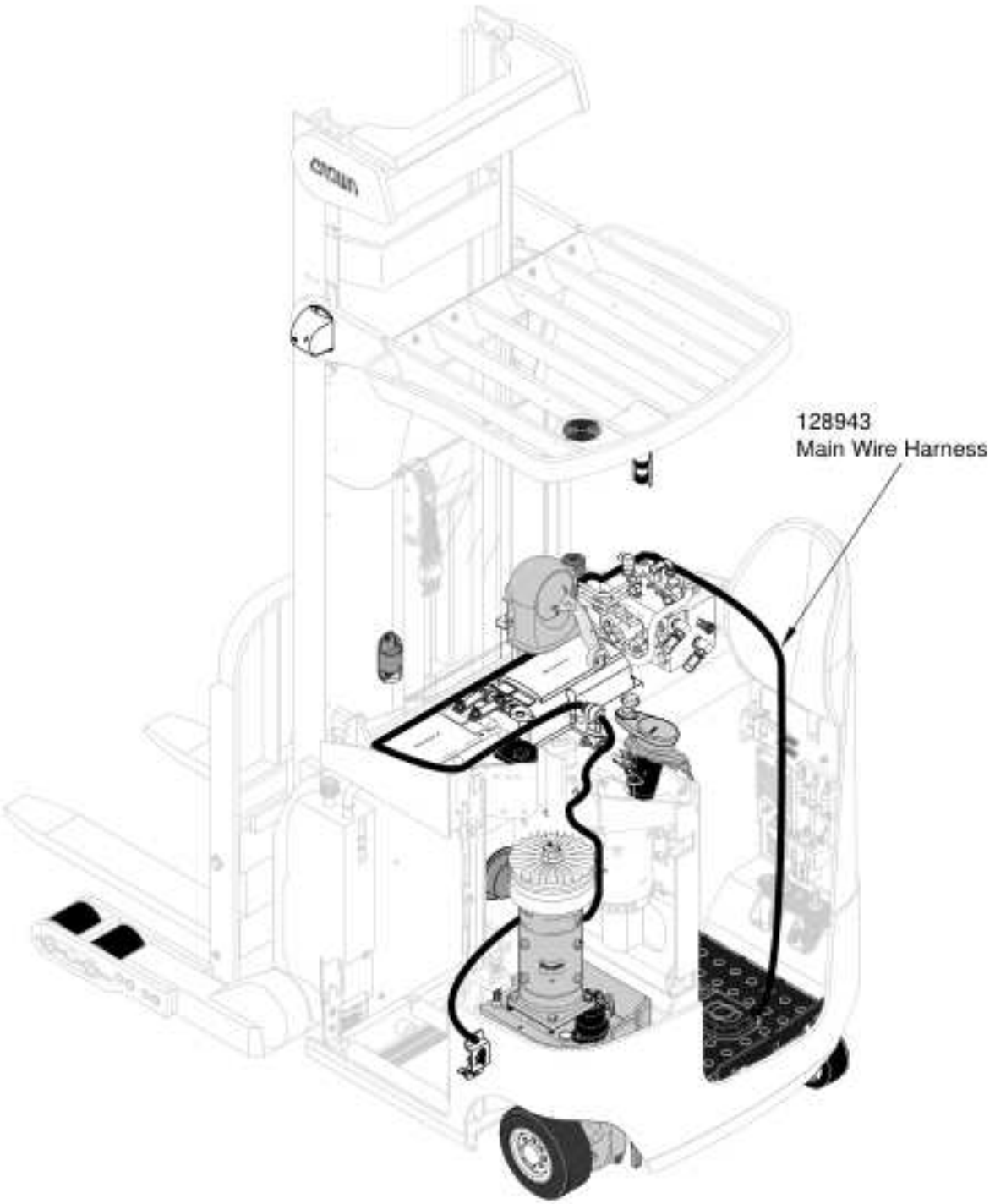


Figure 8815-01

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INDEX 8 - Mainframe (Removable Outrigger Ends) (RR5200/5200S (AC) 2040 kg (4500 lb) Capacity)																
	Load Wheel Size					1st Dash Number Collapsed Height/Lift Height										
Part Number	100 X 105 mm (4.0 x 4.12 in)	125 X 70 mm (5.0 X 2.88 in)	125 X 105 mm (5.0 X 4.12 in)	150 X 70 mm (6.0 X 2.88 in)	150 X 105 mm (6.0 X 4.12 in)	2260/5025 mm (89/198 in)	2415/5535 mm (95/198 in)	2720/6100 mm (107/240 in)	3025/6860 mm (119/270 in)	3325/7620 mm (131/300 in)	3555/8155 mm (140/321 in)	3785/8660 mm (149/341 in)	4065/9300 mm (160/366 in)	4370/10160 mm (172/400 in)	4520/10695 mm (178/421 in)
128900-	X					304	305	306	307	308	309				
128900-		X				204	205	206	207	208	209	220	221	222	223
128900-			X			404	405	406	407	408	409	420	421	422	423
129030-				X								520	521	522	523
129030-					X							620	621	622	623
Note: The second dash number is the same as the truck's inside straddle dimension 863 thru 1550 mm (34 thru 61 in).																

INDEX 8 - Mainframe (Removable Outrigger Ends) (Tapered with side shift only) (RR5200/5200S (AC) 2040 kg (4500 lb) Capacity)																
	Load Wheel Size					1st Dash Number Collapsed Height/Lift Height										
Part Number	100 X 105 mm (4.0 x 4.12 in)	125 X 70 mm (5.0 X 2.88 in)	125 X 105 mm (5.0 X 4.12 in)	150 X 70 mm (6.0 X 2.88 in)	150 X 105 mm (6.0 X 4.12 in)	2260/5025 mm (89/198 in)	2415/5535 mm (95/198 in)	2720/6100 mm (107/240 in)	3025/6860 mm (119/270 in)	3325/7620 mm (131/300 in)	3555/8155 mm (140/321 in)	3785/8660 mm (149/341 in)	4065/9300 mm (160/366 in)	4370/10160 mm (172/400 in)	4520/10695 mm (178/421 in)
128900-	X					804	805	806	807	808	809				
128900-		X				704	705	706	707	708	709	720	721	722	723
128900-			X			904	905	906	907	908	909	920	921	922	923
129030-				X								820	821	822	823
129030-					X							920	921	922	923
Note: The second dash number is the same as the truck's inside straddle dimension 863 thru 1550 mm (34 thru 61 in).																

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21. Inspect all ports for contamination and then place manifold block in a clean container for flushing. With same sprayer and water based degreaser thoroughly flush each port on manifold block, not to exceed 275 kPa (40 psi) air pressure into sprayer. Do not clean manifold block in degreaser tank. Refer to Figure 7937P.



Figure 7937P

22. Remove manifold block from container and place into clean container on top of clean block. Use compressed air nozzle to blow air over and through manifold block to completely remove any moisture, air pressure not to exceed 275 kPa (40 psi) air pressure. It is very important the inside and outside of the block be totally dry and clean. Refer to Figure 7938P.



Figure 7938P

23. Refer to Figure 7939P and look into each port with a flashlight and check for contamination that may not have been completely flushed out. If any is found flush block a second time as described in steps 21 and 22.

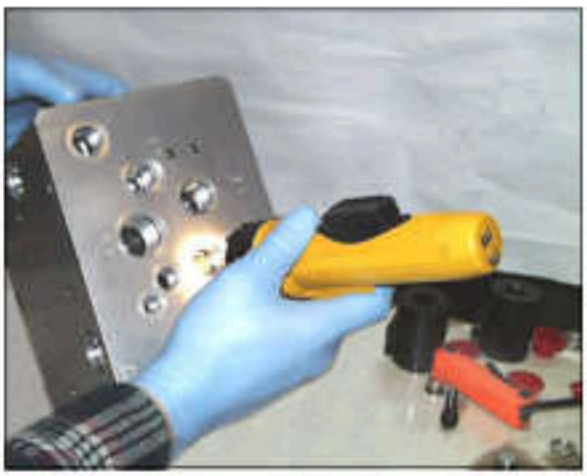
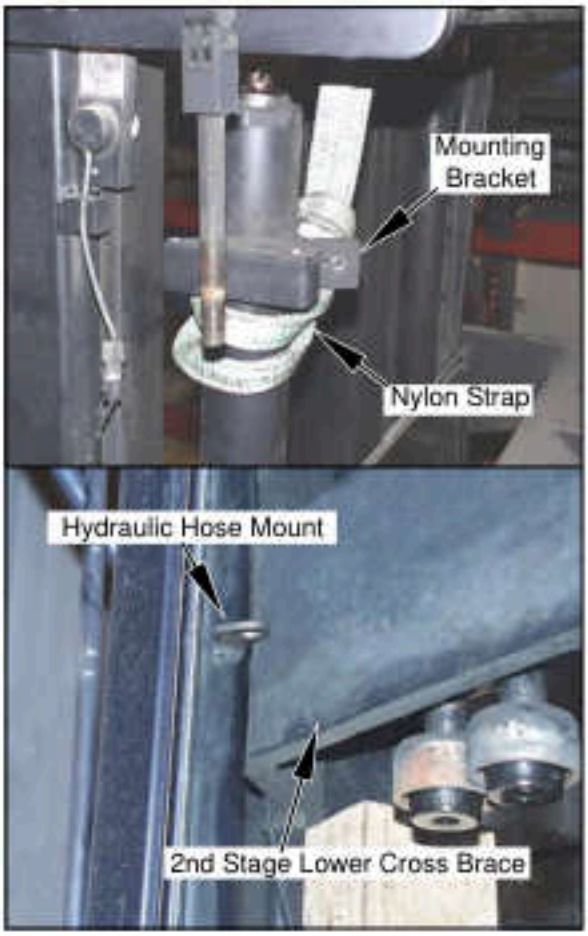


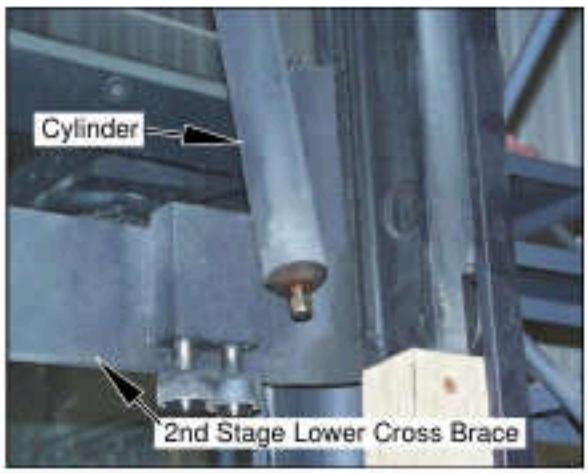
Figure 7939P

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8167P ILLUSTRATION 8

17. Once cylinder base is above 2nd stage cross brace bring cylinder out front, fork side, of mast.



8168P ILLUSTRATION 9

CYLINDER REPLACEMENT

18. Put cap on fitting at bottom of lift cylinder, if one is not already present.

19. Put nylon strap around top of cylinder just below mounting bracket and connect to hoist.

WARNING

Wear appropriate safety items, such as safety glasses and shoes, whenever performing maintenance work. To avoid injury, do not place fingers, hands, arms or feet through mast or position them at pinch points.

Make sure lifting device is sufficiently rated to lift various parts of the mast sections either individually or as a group. Make sure that the blocking material is strong enough to withstand the weight. Never work under or around a truck that is not properly blocked.

20. Raise until bottom of cylinder is over top of 2nd stage lower cross brace and lower cylinder into position.

WARNING

Make sure the platform the maintenance person rides on is secure and the individual is using an operator harness.

21. Put pin back through main frame and cylinder mounting bracket. Install cotter pin through bottom of pin to secure in place. See Illustration 7 in Cylinder Removal. Then remove strap from cylinder.

22. Using two screws removed at disassembly remount height sensor back in position.

23. Remove cap and reattach hydraulic line to bottom of cylinder.

24. Put hose guide, at top of cylinder, and hoses back in position and secure using screw previously removed.

25. Connect hydraulic hoses, lines and spring (if left lift cylinder was removed) to bracket on cylinder. See Illustration 6 in Cylinder Removal.

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