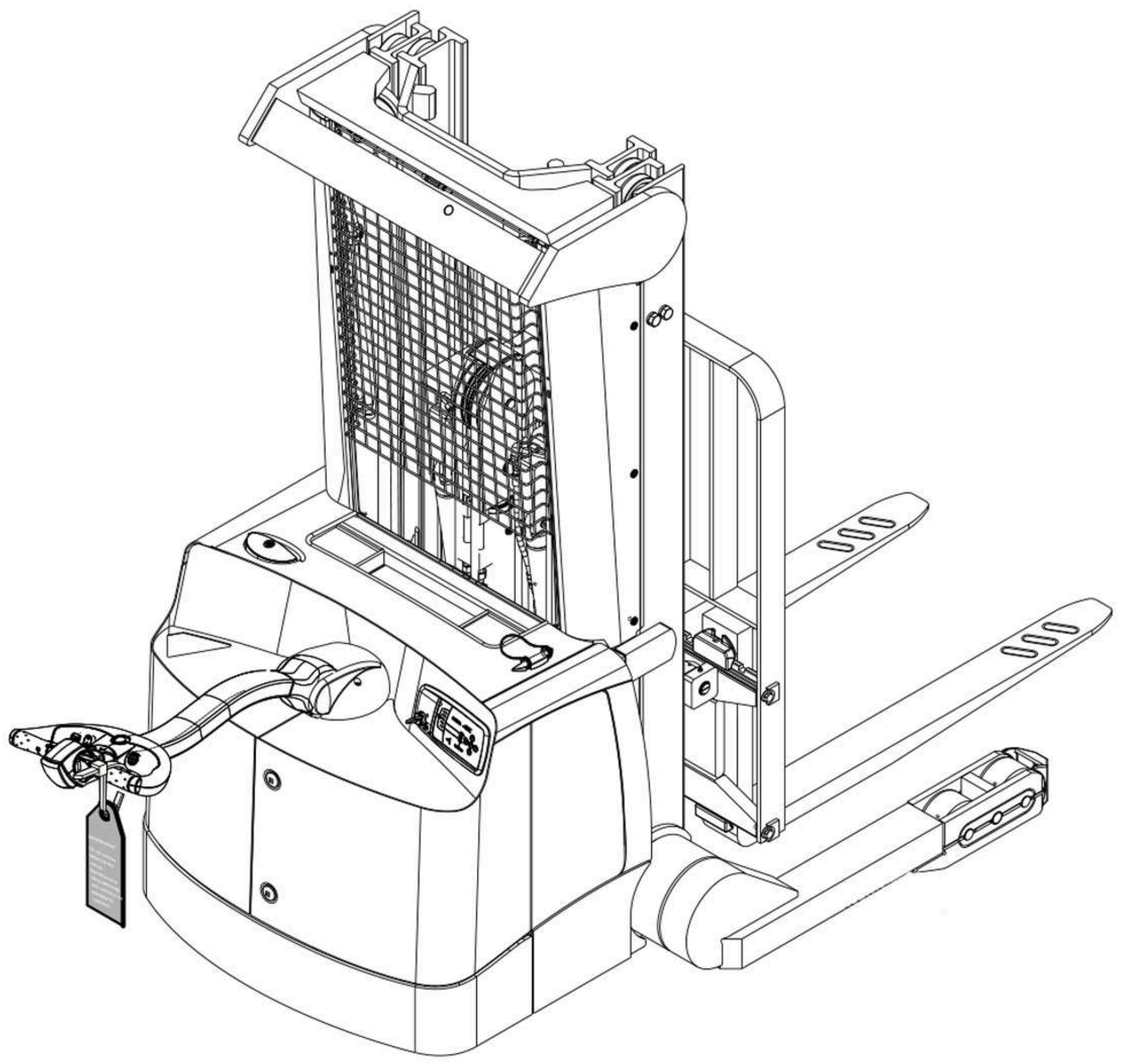
SH/SHR 5500 AC

Service & Parts Manual



Crown PF15849-006

MidWestTech | Crown SH, SHR 5500 AC Heavy Duty Walkie Straddle Reach Stacker Service Manual & Parts Catalog | Publication PF15849-006

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Steer Motor Assembly

1. Remove the steer motor from the workbench and install into the intermediate flange (14) with gasket (33) in place.
2. Install the screws (30) into motor end cover (32) and secure to the intermediate flange (14), torque to 10 Nm (7.0 ft lb).
3. Attach the bolt (21) and torque to 2.0 Nm (18 in lb).
4. Connect all connections to steer motor assembly.
5. Connect battery and remove Lockout/Tagout safety devices, refer to Lockout/Tagout procedures.
6. Lubricate the steering gear teeth; refer to Lubrication and Adjustment for recommended lubricant.
7. Test the steering.

Repair Steer Motor

NOTE

For the following procedures, refer to Figures 18986 and 19157.

NOTE

When repairing the steer motor, replace all bearings and seals.

Preparation

1. Remove the steer motor and bring the steer assembly to a workbench. Refer to steer motor removal.

Disassemble Steer Motor

1. Remove the screws (30) and remove clamping joint (31).
2. Remove the end cap (32).

WARNING

Observe the manufacturer's safety instructions when handling solvents and lubricants.

3. Drain oil out of the steering motor assembly and dispose of it in accordance with environmental regulations.
4. Remove the O-ring (27) from the sensor bearing (26).

NOTE

Replace the sensor bearing if necessary.

5. Remove the shim (28) and ring (29) from the end cap (32).
6. Using a hydraulic press to remove the shaft seal (34) out of the end cap.
7. Remove the gasket (33).

NOTE

If you are using a new intermediate flange (14), the cylinder pins (13) must be removed and saved.

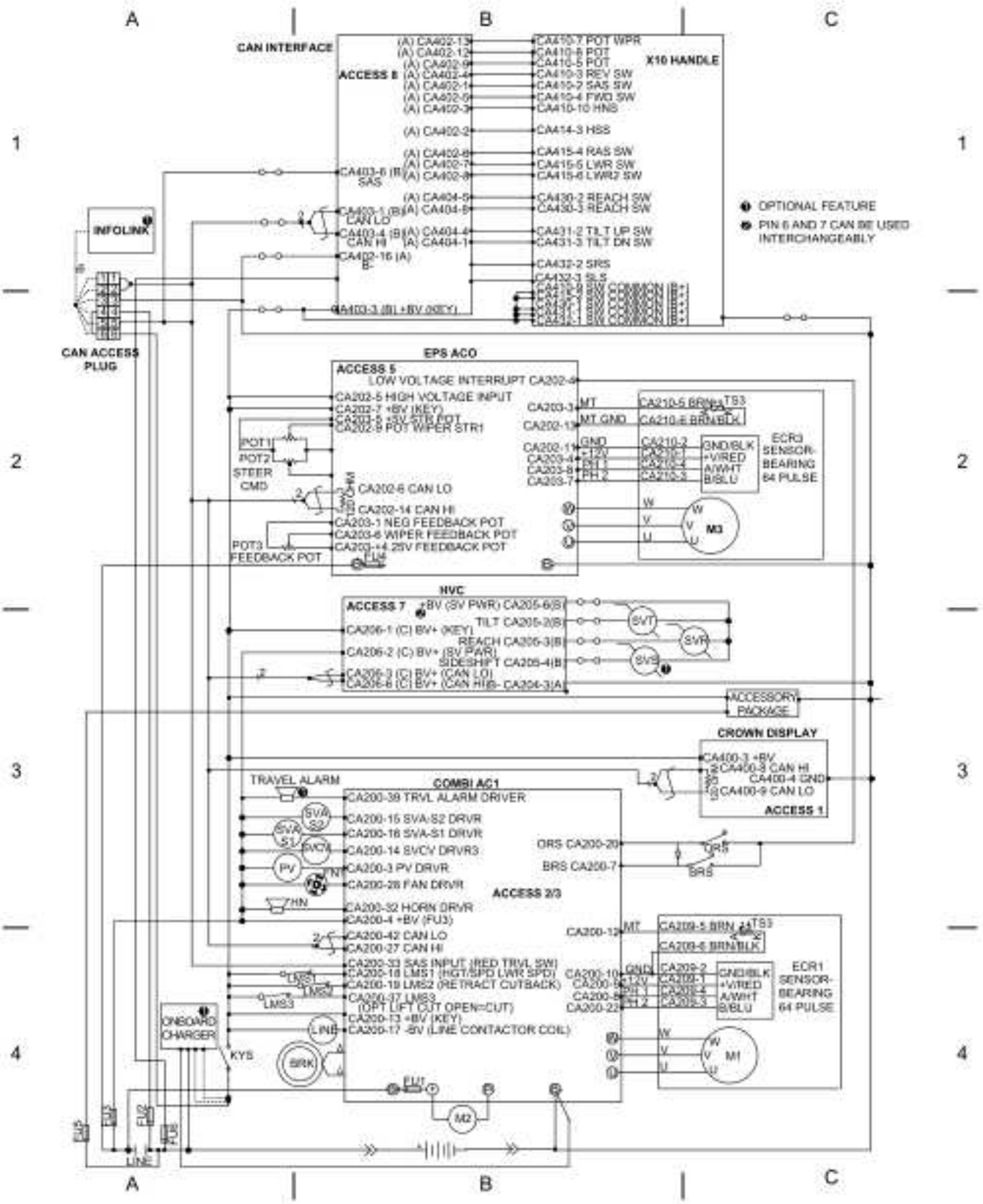
Pinion and Output Disassembly

8. Remove the retaining ring (8).
9. Remove the pinion shaft with the gear wheel (3), pinion (5), and bearing (1) out of the intermediate flange (14).
10. Remove the bearing (1), supporting ring (2), gear wheel (3) and key (4) off the pinion (5).
11. Remove the gear wheel (9).
12. Remove the supporting ring (34).
13. Press the output shaft (18) and the bearing (16) out of the intermediate flange (14).

Output Shaft Disassembly

14. Remove the key (17).
15. Remove the bearing (16) from the output shaft (18).
16. Press the bearing (15) out of the intermediate flange (14).
17. Remove the retaining (12) out of the intermediate flange (14).

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				Application Type			
Wheel Series	**Compound Number**	**Shore A Hardness**	**Composition**	**Wet/Freezer** Resistant to Chunking	**Dock Boards Rough Floors Floor Debris** Resistant to Chunking	**Heavy Loads Long Runs** Resistant to Extreme Heat	**Floor Debris** Resistant to Flat Spotting
100 Series Light Duty	101	93A	polyether	•	•		
	102	95A	polyester	•	•		
200 Series Mid-Range	201	83A	polyester	•	•		
	202	83A	polyester	•	•		
	203	83A	polyester	•	•		
	204	85A	polyester	•	•		
	205	87A	polyether	•	•		•
300 Series High Capacity	301	95A	polyether	•	•	•	•
	302	95A	polyester	•	•	•	•
	303	95A	polyester	•	•	•	•
	304	95A	polyester	•	•	•	•
	305	95A	polyether	•	•	•	•
	306	97A	polyether	•	•	•	•
400 Series Heavy Duty	401	93A	vulkollan				
	402	99A	polyether				

100 Series Light Duty wheel compounds are best suited for light loads and intermittent use.
200 Series Mid-Range wheels are designed for light to medium loads and short to medium runs.
300 Series High Capacity are for the typical demands of most applications. High capacity wheels feature compounds designed for high capacities and long runs.
400 Series Heavy Duty wheels are designed for maximum capacities and extreme runs.

Shore A Hardness Scale



30A is comparable to a rubber band. Typically more cut and tear resistant and provide a smoother ride.
60A is comparable to a car tire. Provide improved travel speeds (less rolling resistance) and generate less heat.

Polyester vs. Polyether

These elements of polyurethane chemical composition can be found in each compound series.
Polyester - provides greater cut and tear resistance and overall durability.
Polyether - provides greater load bearing capacity and heat resistance.

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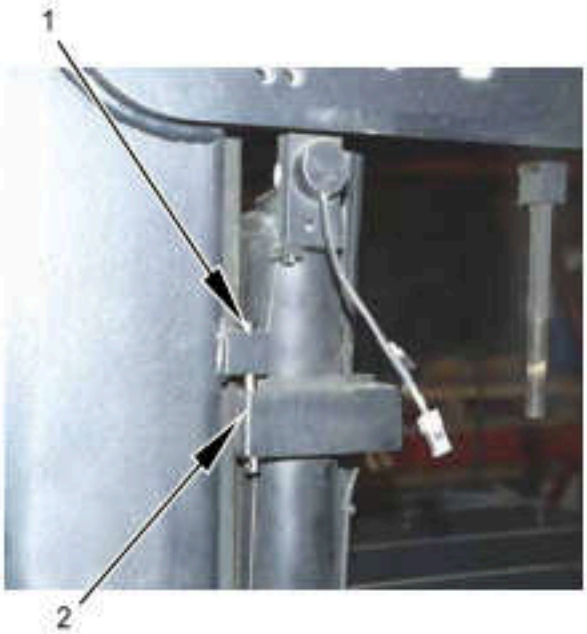


Figure 19139

13. Remove pin (1) holding top of cylinder to main frame. Refer to Figure 19139.
14. Put nylon strap (1) around top of cylinder just below mounting bracket (2). Refer to Figure 19140.
15. Connect lifting devise to strap and carefully lift cylinder above 2nd stage cross brace (3). Be very careful when lifting cylinder not to catch hydraulic hose mount (2) or the chain anchor (4) on 2nd stage cross brace. Refer to Figure 19140.



Figure 19140

16. Once cylinder base is above 2nd stage cross brace (3) bring cylinder out front, fork side, of mast. Refer to Figure 19140.

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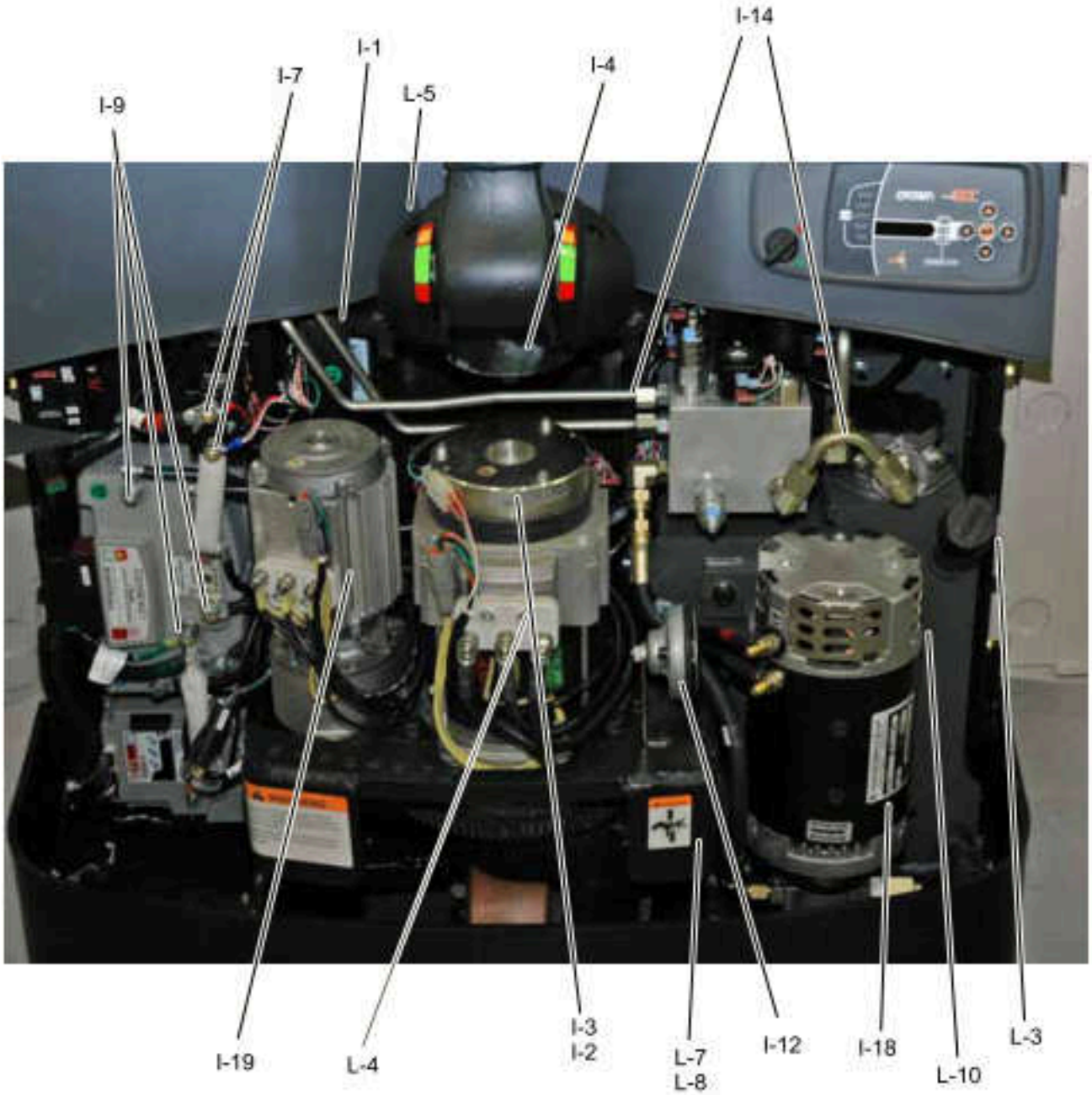


Figure 19052

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