Model No._____

Serial No. _____

RR/RD 5700 Series
AC Traction
Service & Parts Manual



Crown 2009 PF17419 6/09

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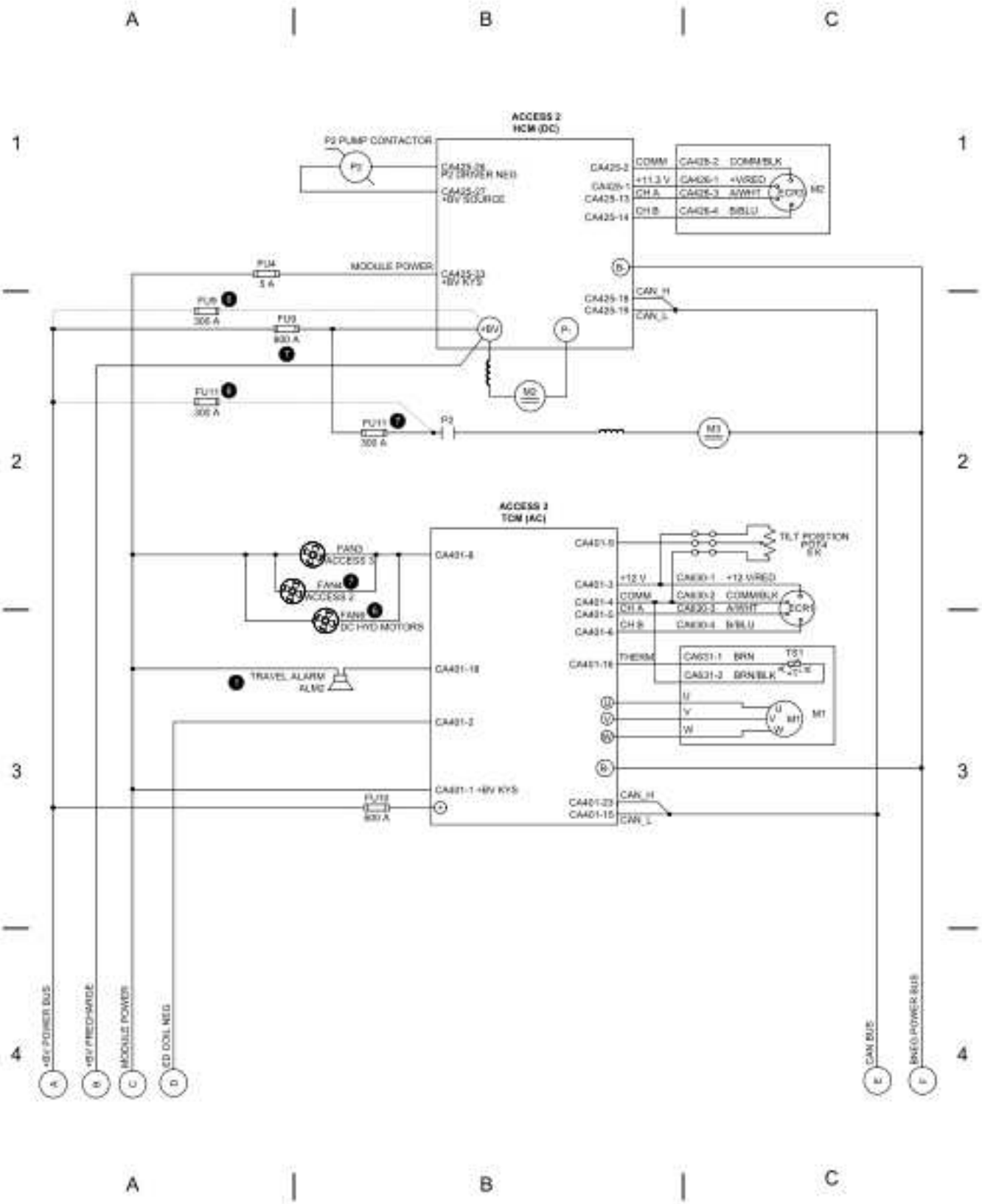
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Torque Chart - Metric Hex Head Cap Screws and Nuts			
Thread Diameter & Pitch	Tightening Torque Nm (ft lb)		
	Class 8.8	Class 10.9	Class 12.9
M5 x 0.80	5 - 8 (4 - 6)	7 - 8 (5 - 6)	8 - 10 (6 - 7)
M6 x 1.00	8 - 10 (6 - 7)	12 - 14 (9 - 10)	15 - 16 (11 - 12)
M8 x 1.25	20 - 25 (15 - 18)	28 - 31 (21 - 23)	34 - 37 (25 - 27)
M10 x 1.50	39 - 43 (29 - 32)	56 - 61 (41 - 45)	68 - 75 (50 - 54)
M12 x 1.75	71 - 76 (52 - 56)	100 - 107 (73 - 79)	119 - 127 (88 - 94)
M14 x 2.00	113 - 122 (83 - 90)	159 - 171 (117 - 126)	190 - 205 (140 - 151)
M16 x 2.00	175 - 190 (129 - 140)	247 - 267 (182 - 197)	296 - 320 (218 - 236)
M20 x 2.50	340 357 (251 - 271)	479 - 518 (353 - 382)	574 - 621 (423 - 458)
M24 x 3.00	587 - 635 (433 - 468)	824 - 892 (608 - 658)	990 - 1071 (730 - 790)
M30 x 3.50	1175 - 1274 (867 - 940)	1654 - 1792 (1220 - 1322)	1985 - 2150 (1464 - 1586)
Note: Torque values called out in the maintenance section of this manual will take precedence over torque values found on this page.			

Torque Chart - Metric Hex Socket Countersink Head Screws			
Thread Diameter & Pitch	Tightening Torque Nm (ft lb)		
	Class 8.8	Class 10.9	Class 12.9
M5 x 0.80	4 - 7 (3 - 5)	5 - 8 (4 - 6)	7 - 10 (5 - 7)
M6 x 1.00	7 - 10 (5 - 7)	9 - 12 (7 - 9)	11 - 14 (8 - 10)
M8 x 1.25	16 - 19 (12 - 14)	23 - 26 (17 - 19)	27 - 30 (20 - 22)
M10 x 1.50	31 - 34 (23 - 25)	45 - 49 (33 - 36)	54 - 58 (40 - 43)
M12 x 1.75	56 - 60 (41 - 44)	79 - 84 (58 - 62)	94 - 102 (69 - 75)
M14 x 2.00			
M16 x 2.00	124 - 146 (99 - 108)	190 - 206 (140 - 152)	228 - 247 (168 - 182)
M20 x 2.50	259 - 281 (191 - 207)	363 - 395 (268 - 291)	437 - 473 (322 - 349)
M24 x 3.00	416 - 451 (307 - 333)	586 - 635 (432 - 468)	702 - 762 (518 - 562)
M30 x 3.50			
Note: Torque values called out in the maintenance section of this manual will take precedence over torque values found on this page.			

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(a) Part of Power Unit

(b) ECR2 (Height Sensor) is standard on collapsed heights more than 3025 mm (119 in) and optional on 3025 mm (119 in) and below

(c) HGTS12 is standard on collapsed heights on or less than 3025 mm (119 in) and is not required if ECR2 is present

(d) Cover is used on trucks with collapsed height of 3325 mm (131 in) (one side shown)

(e) Torque value 305 - 340 Nm (225 - 250 ft lb)

(f) Torque value 190 - 215 Nm (140 - 160 ft lb)

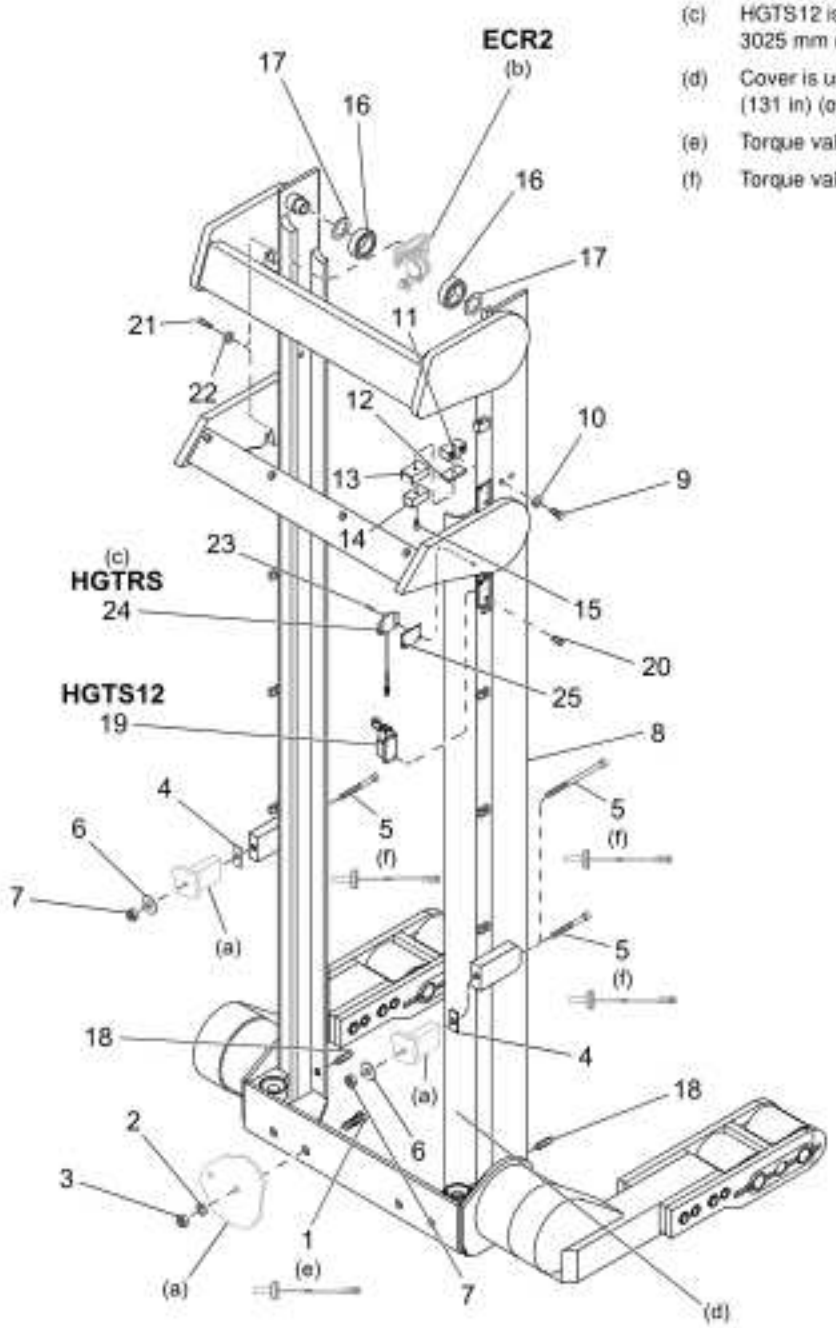


Figure 19267-01

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Figure 22110

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14. Remove the pin holding the top of the cylinder to mainframe.
15. Put the nylon strap around the top of the cylinder just below the mounting bracket. Refer to Figure 22691.
16. Connect the hoist to the strap and carefully lift the cylinder above the 2nd stage cross brace. Be very careful when lifting the cylinder not to catch the hydraulic hose mount on 2nd stage cross brace.

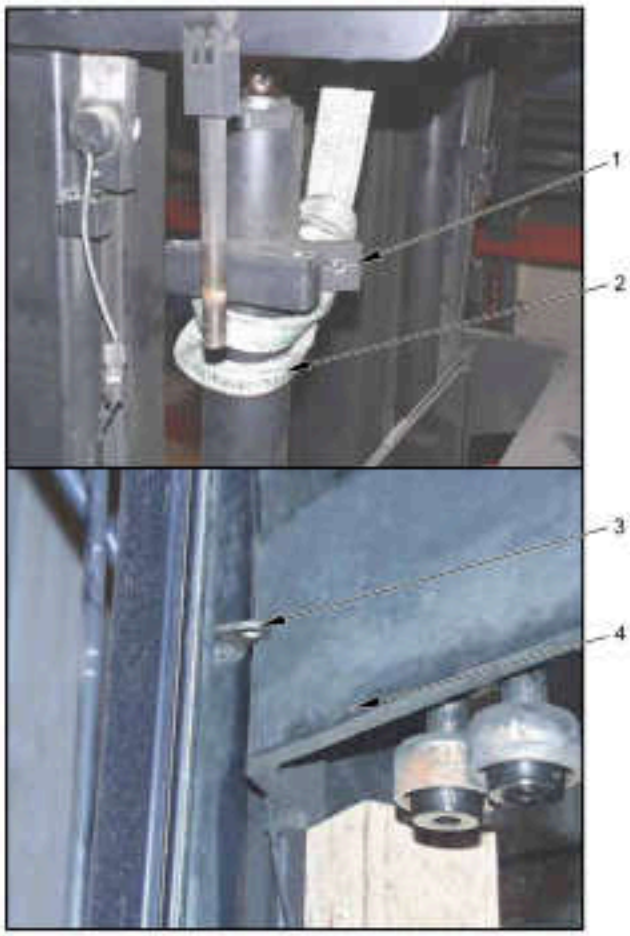


Figure 22691

1 Mounting Bracket
2 Nylon Strap
3 Hydraulic Hose Mount
4 2nd Stage Lower Cross Brace

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

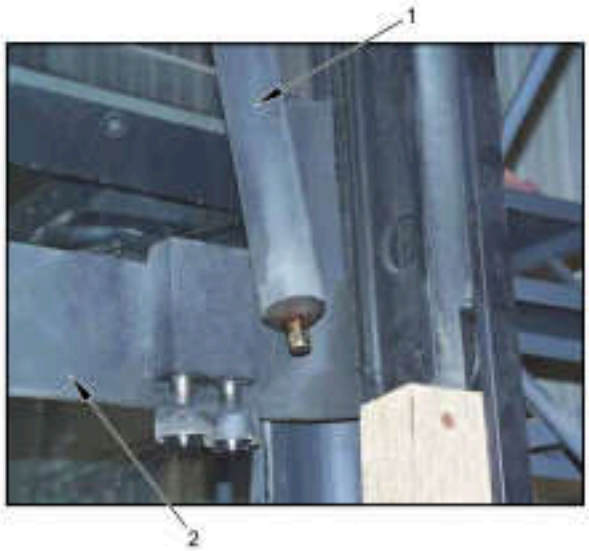


Figure 22692

1 Cylinder
2 2nd Stage Lower Cross Brace

Cylinder Replacement

18. Install a cap on the fitting at the bottom of the lift cylinder if one is not already present.
19. Install a nylon strap around the top of the cylinder just below the mounting bracket and connect it to the 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 the bottom of the cylinder is over the top of 2nd stage lower cross brace and lower the cylinder into position.

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