

SERVICE MANUAL

RG 140.B GRADER RG 170.B VHP GRADER RG 200.B GRADER

> 75314407 English

RG 140.B - RG 170.B VHP - RG200.B GRADERS Service Manual 75314407

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NOTE: CNH Latin America reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

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GENERAL

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Section 1001

STANDARD TORQUE SPECIFICATIONS

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NOTE: NEWHOLLAND reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

TORQUE SPECIFICATIONS - DECIMAL HARDWARE

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers dry, or when lubricated with engine oil. Not applicable if special graphities, Molydisulfide greases, or other extreme pressure lubricants are used.

Grade 5 Bolts, Nuts, and Studs				
\bigcirc \bigcirc \bigcirc				
Size	Pound- Inches	Newton metres		
1/4 inch	108 to 132	12 to 15		
5/16 inch	204 to 252	23 to 28		
3/8 inch	420 to 504	48 to 57		
Size	Pound- Feet	Newton metres		
7/16 inch	54 to 64	73 to 87		
1/2 inch	80 to 96	109 to 130		
9/16 inch	110 to 132	149 to 179		
5/8 inch	150 to 180	203 to 244		
3/4 inch	270 to 324	366 to 439		
7/8 inch	400 to 480	542 to 651		
1.0 inch	580 to 696	787 to 944		
1-1/8 inch	800 to 880	1085 to 1193		
1-1/4 inch	1120 to 1240	1519 to 1681		
1-3/8 inch	1460 to 1680	1980 to 2278		
1-1/2 inch	1940 to 2200	2631 to 2983		

Grade 8 Bolts, Nuts, and Studs				
Size	Pound- Inches	Newton metres		
1/4 inch	144 to 180	16 to 20		
5/16 inch	288 to 348	33 to 39		
3/8 inch	540 to 648	61 to 73		
Size	Pound- Feet	Newton metres		
7/16 inch	70 to 84	95 to 114		
1/2 inch	110 to 132	149 to 179		
9/16 inch	160 to 192	217 to 260		
5/8 inch	220 to 264	298 to 358		
3/4 inch	380 to 456	515 to 618		
7/8 inch	600 to 720	814 to 976		
1.0 inch	900 to 1080	1220 to 1465		
1-1/8 inch	1280 to 1440	1736 to 1953		
1-1/4 inch	1820 to 2000	2468 to 2712		
1-3/8 inch	2380 to 2720	3227 to 3688		
1-1/2 inch	3160 to 3560	4285 to 4827		
NOTE: Use thick nuts with Grade 8 bolts.				

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TORQUE SPECIFICATIONS - METRIC HARDWARE

Use the following torques when specifications are not given.

These values apply to fasteners with coarse threads as received from supplier, plated or unplated, or when lubricated with engine oil. These values do not apply if graphite or Molydisulfide grease or oil is used.

Grade 8.8 Bolts, Nuts, and Studs				
8.8				
Size	Pound- Inches	Newton metres		
M4	24 to 36	3 to 4		
M5	60 to 72	7 to 8		
M6	96 to 108	11 to 12		
M8	228 to 276	26 to 31		
M10	456 to 540	52 to 61		
Size	Pound- Feet	Newton metres		
M12	66 to 79	90 to 107		
M14	106 to 127	144 to 172		
M16	160 to 200	217 to 271		
M20	320 to 380	434 to 515		
M24	500 to 600	675 to 815		
M30	920 to 1100	1250 to 1500		
M36	1600 to 1950	2175 to 2600		

Grade 10.9 Bolts, Nuts, and Studs				
(10.9)				
Size	Pound- Inches	Newton metres		
M4	36 to 48	4 to 5		
M5	84 to 96	9 to 11		
M6	132 to 156	15 to 18		
M8	324 to 384	37 to 43		
Size	Pound- Feet	Newton metres		
M10	54 to 64	73 to 87		
M12	93 to 112	125 to 150		
M14	149 to 179	200 to 245		
M16	230 to 280	310 to 380		
M20	450 to 540	610 to 730		
M24	780 to 940	1050 to 1275		
M30	1470 to 1770	2000 to 2400		
M36	2580 to 3090	3500 to 4200		

Grade 12.9 Bolts, Nuts, and Studs



Usually the torque values specified for grade 10.9 fasteners can be used satisfactorily on grade 12.9 fasteners.

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