821C Loader Service Manual

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NOTE: Case Corporation 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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CASE CORPORATION 700 State Street Racine, WI 53404 U.S.A.

CASE CANADA CORPORATION 450 Sherman Avenue Hamilton, ON L8N 4C4 CANADA

Section 1001

STANDARD TORQUE SPECIFICATIONS

CASE CORPORATION 700 State Street Racine, WI 53404 U.S.A.

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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 graphites, Molydisulfide greases, or other extreme pressure lubricants are used.

Grade 5 Bolts, Nuts, and Studs			
$\bigcirc \bigcirc \oslash$			
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.			

TORQUE SPECIFICATIONS - METRIC HARDWARE

Use the following torques when specifications are not given.

These values apply to fasteners with both coarse and fine 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. Use of a click type torque wrench, or better is required.

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 Stude			
(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- Inches	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.

TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS

Tub OD Hose ID	Thread Size	Pound- Inches	Newton metres	
37 Degree Flare Fitting				
1/4 inch 6.4 mm	7/16-20	72 to 144	8 to 16	
5/16 inch 7.9 mm	1/2-20	96 to 192	11 to 22	
3/8 inch 9.5 mm	9/16-18	120 to 300	14 to 34	
1/2 inch 12.7 mm	3/4-16	180 to 504	20 to 57	
5/8 inch 15.9 mm	7/8-14	300 to 696	34 to 79	
3/4 inch 19.0 mm	1-1/16-12	40 to 80	54 to 108	
7/8 inch 22.2 mm	1-3/16-12	60 to 100	81 to 135	
1.0 inch 25.4 mm	1-5/16-12	75 to 117	102 to 158	
1-1/4 inch 31.8	1-5/8-12	125 to 165	169 to 223	
1-1/2 inch 38.1 mm	1-7/8-12	210 to 250	285 to 338	

Tub OD Hose ID	Thread Size	Pound- Inches	Newton metres		
Straig	Straight Threads with O-ring				
1/4 inch 6.4 mm	7/16-20	144 to 228	16 to 26		
5/16 inch 7.9 mm	1/2-20	192 to 300	22 to 34		
3/8 inch 9.5 mm	9/16-18	300 to 480	34 to 54		
1/2 inch 12.7 mm	3/4-16	540 to 804	57 to 91		
5/8 inch 15.9 mm	7/8-14	58 to 92	79 to 124		
3/4 inch 19.0 mm	1-1/16-12	80 to 128	108 to 174		
7/8 inch 22.2 mm	1-3/16-12	100 to 160	136 to 216		
1.0 inch 25.4 mm	1-5/16-12	117 to 187	159 to 253		
1-1/4 inch 31.8 mm	1-5/8-12	165 to 264	224 to 357		
1-1/2 inch 38.1 mm	1-7/8-12	250 to 400	339 to 542		

Size	Pound- Inches	Newton metres
5/16-18	180 to 240	20 to 27
3/8-16	240 to 300	27 to 34
7/16-14	420 to 540	47 to 61
Size	Pound- Feet	Newton metres
1/2-13	55 to 65	74 to 88
5/8-11	140 to 150	190 to 203

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