

# 521D Loader Service Manual 6-40745 Table of Contents

Description	Section No.	Form No.
<b>General</b>		
	<b>Tab 1</b>	
Section Index - General		6-42730
Standard Torque Specifications	1001	8-71603
Fluids and Lubricants	1002	6-40762
Metric Conversion Chart	1003	7-52950
Loctite Product Chart		8-98902
<b>Engines</b>		
	<b>Tab 2</b>	
Section Index - Engines		6-42281
Engine and Radiator Removal and Installation	2000	6-42290
Engine and Radiator Removal and Installation P.I.N. JEE0135501 and Above	2000	6-48920
Stall Tests	2002	6-40771
For Engine Repair, See the Engine Service Manual		6-74500
<b>Fuel System</b>		
	<b>Tab 3</b>	
Section Index - Fuel System		6-42300
For Fuel System Repair, See the Engine Service Manual		6-74500
<b>Electrical</b>		
	<b>Tab 4</b>	
Section Index - Electrical		6-42311
Removal and Installation of Starter and Alternator	4001	6-42321
Electrical Specifications and Troubleshooting	4002	6-40782
Electrical Specifications and Troubleshooting P.I.N. JEE0135501 and Above	4002	6-48930
Batteries	4003	6-42330
Information and Diagnostic Center	4005	6-42352
Alternator - 65 Ampere	4007	7-12260
Alternator - 45 Ampere	4008	6-42360

# 521D Loader Service Manual 6-40745 Table of Contents

Description	Section No.	Form No.
<b>Steering</b> <span style="float: right;"><b>Tab 5</b></span>		
Section Index - Steering		6-42370
Removal and Installation of Steering Components	5001	6-42380
Steering Specifications, Pressure Checks, and Troubleshooting	5002	6-40790
Steering Control Valve	5003	6-42390
Steering Priority Valve	5004	6-42400
Steering Cylinders	5005	6-42410
Center Pivot	5006	6-42420
Auxiliary Steering Motor and Pump	5008	6-42430
<b>Power Train</b> <span style="float: right;"><b>Tab 6</b></span>		
Section Index - Power Train		6-42442
Removal and Installation of Power Train Components	6001	6-42451
Transmission Specifications, Pressure Checks, and Troubleshooting	6002	6-40800
Transmission	6003	6-42460
Front and Rear Axle	6004	6-42470
Front and Rear Axle P.I.N. JEE0135501 and Above	6004	6-48970
Drive Shafts, Center Bearing, and Universal Joints	6005	6-42480
Wheels and Tires	6006	6-42490
Transmission Control Valve	6007	6-42500
<b>Brakes</b> <span style="float: right;"><b>Tab 7</b></span>		
Section Index - Brakes		6-42510
Removal and Installation of Brake Components	7001	6-42521
Hydraulic Brake Troubleshooting	7002	6-40811
Brake Accumulators	7004	6-42531
Parking Brake	7008	6-42540
<b>NOTE:</b> For parking brake and brake pedal adjustments, see Section 9001.		
<b>Hydraulics</b> <span style="float: right;"><b>Tab 8</b></span>		
Section Index - Hydraulics		6-42551
Removal and Installation of Hydraulic Components	8001	6-42562
Hydraulic Specifications, Troubleshooting, and Pressure Checks	8002	6-40822
Cleaning the Hydraulic System	8003	7-49640
Loader Control Valve	8005	6-42580
Cylinders	8006	6-42591
Coupler Solenoid Locking Valve	8007	6-42600
Pilot Pressure Accumulator and Ride Control Accumulator	8013	6-42621
Ride Control Valve	8014	6-44751

# 521D Loader Service Manual 6-40745 Table of Contents

Description	Section No.	Form No.
<b>Mounted Equipment</b>	<b>Tab 9</b>	
Section Index - Mounted Equipment		6-42640
Pedals and Levers	9001	6-40830
Air Conditioning Troubleshooting and System Checks For Systems with HFC-134a Refrigerant	9002	6-42650
Air Conditioner System Service	9003	6-42660
Removal and Installation of Air Conditioning Components For Systems with HFC-134a Refrigerant	9004	6-42671
Loader	9006	6-42691
ROPS Cab and ROPS Canopy	9007	6-42700
Cab Glass Installation	9010	6-42710
<b>Electrical Schematic Foldouts and Hydraulic Schematic Foldout</b>	<b>In Rear Pocket</b>	<b>6-40841</b>
<b>Electrical Schematic Foldouts and Hydraulic Schematic Foldout P.I.N JEE0135501 and Above</b>	<b>In Rear Pocket</b>	<b>6-49280</b>

**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.

# SECTION INDEX

## GENERAL

<b>Section Title</b>	<b>Section Number</b>
Standard Torque Specifications.....	1001
Fluids and Lubricants .....	1002
Metric Conversion Chart .....	1003
Loctite Product Chart	

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


**CASE CANADA CORPORATION**  
3350 South Service Road  
Hamilton, ON L7N 3M6 CANADA


Bur 6-42730

Copyright © 2001 Case Corporation  
Printed in U.S.A.  
August, 2001

## 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		
		
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.

Thank you so much for reading.  
Please click the “Buy Now!”  
button below to download the  
complete manual.



After you pay.

You can download the most  
perfect and complete manual in  
the world immediately.

Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)