



SERVICE MANUAL
WHEEL LOADER
721E
TIER 3

84243980
(Replaces 87634099)

Revised December 2009
Issued September 2007

**721E Wheel Loader
Service Manual 84243980
(Replaces 87364099)**

Table of Contents

Description	Section No.	Form No.
General		
	Tab 1	
Section Index - General		5-2670
Standard Torque Specifications	1001	8-71603
Fluids and Lubricants	1002	5-2680
Metric Conversion Chart	1003	7-52950
Engines		
	Tab 2	
Section Index - Engines		5-2690
Engine and Radiator Removal and Installation	2000	5-2700
Stall Tests	2002	5-2710
After Cooler	2003	6-49850
For Engine Repair, See the Engine Service Manual		87519803
Fuel System		
	Tab 3	
Section Index - Fuel System		5-2720
For Fuel System Repair, See the Engine Service Manual		
Electrical		
	Tab 4	
Section Index - Electrical		5-2730
Removal and Installation of Starter and Alternator	4001	5-2740
Electrical Specifications and Troubleshooting	4002	5-2750
Batteries	4003	6-42330
Instrument Cluster	4005	5-2760
Steering		
	Tab 5	
Section Index - Steering		84298386 (Replaces 5-2770)
Removal and Installation of Steering Components	5001	5-2780
Steering Specifications, Pressure Checks, and Troubleshooting	5002	5-2790
Steering Cylinders	5005	5-2800
Center Pivot	5006	5-2810
Auxiliary Steering Motor and Pump	5008	6-42430
Joystick Steering	5009	5-17020

721E Wheel Loader Service Manual 84243980 (Replaces 87364099)

Table of Contents

Description	Section No.	Form No.
Power Train		Tab 6
Section Index - Power Train		84251801 (Replaces 5-2820)
Removal and Installation of Power Train Components	6001	5-2830
Transmission Specifications, Pressure Checks, and Troubleshooting	6002	5-2840
Transmission	6003	5-2850
Front Axle	6004	5-2860
Rear Axle	6004	5-2870
Rear Axle, Serial Number N8F203816 and After	6004	84243983
Drive Shafts, Center Bearing, and Universal Joints	6005	5-2880
Wheels and Tires	6006	6-47730
Transmission Control Valve	6007	6-81450
Brakes		Tab 7
Section Index - Brakes		5-2890
Removal and Installation of Brake Components	7001	5-2900
Hydraulic Brake Troubleshooting	7002	5-2910
Brake Pump	7003	5-2920
Brake Accumulators	7004	6-47761
Parking Brake	7008	5-2930
Hydraulics		Tab 8
Section Index - Hydraulics		5-2940
Removal and Installation of Hydraulic Components	8001	5-2950
Hydraulic Specifications, Troubleshooting, and Pressure Checks	8002	5-2960
Cleaning the Hydraulic System	8003	7-49641
Hydraulic Pump	8004	5-2970
Loader Control Valve	8005	5-2980
Cylinders	8006	5-2990
Coupler Solenoid Locking Valve	8007	6-42600
Ride Control Accumulator	8013	5-3000
Ride Control Valve	8014	5-3010

**721E Wheel Loader
Service Manual 84243980
(Replaces 87364099)**

Table of Contents

Description	Section No.	Form No.
Mounted Equipment	Tab 9	
Section Index - Mounted Equipment		5-3020
Air Conditioning Troubleshooting and System Checks For Systems with HFC-134a Refrigerant	9002	5-4030
Air Conditioner System Service	9003	5-3030
Removal And Installation Of Air Conditioning And Heater Components	9004	5-3040
Loader	9006	5-3050
Roll Over Protective Structure (ROPS), Cab Structural Frame (CSF)	9007	5-3060
Cab Glass Installation	9010	6-42710
Electrical Schematic Foldouts and Hydraulic Schematic Foldout	In Rear Pocket	5-3070

SECTION INDEX

GENERAL

Section Title	Section Number
Standard Torque Specifications	1001
Fluids and Lubricants	1002
Metric Conversion Chart	1003

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$