

821F
921F
Tier 4
Wheel Loader

SERVICE MANUAL

Print number 84488414

1st edition English
April 2011



821F and 921F Wheel Loader

Service Manual

84488414

Table of Contents

Description	Section No.
General	
General Torque Specifications	1001
Fluids and Lubricants	1002
Metric Conversion Chart	1003
Engines	
Engine and Radiator Removal and Installation	2000
Stall Tests	2002
After Cooler	2003
Engine Intake Air Filtration	2010
SCR System Sensors	2020
SCR Catalyst	2030
Engine Intake Temperature/Humidity Sensor	2040
DEF/ADBLUE Heater Control Valve	2050
DEF/ADBLUE DNOx Supply Module	2060
DEF/ADBLUE Dosing Injector	2070
DEF/ADBLUE Supply Tank	2080
DEF/ADBLUE Supply Tank Level and Temperature Sensor/Pick-up and Heater	2090
DEF/ADBLUE Supply Filters	2100
For Engine Repair, See the Engine Service Manual (sold separately)	84392428
Fuel System	
For Fuel System Repair, See the Engine Service Manual (sold separately)	84392428
Electrical	
Removal and Installation of Starter and Alternator	4001
Electrical Specifications and Troubleshooting	4002
Batteries	4003
Jump Post Option	4003a
Instrument Cluster	4005

821F and 921F Wheel Loader

Service Manual

84488414

Table of Contents

Description	Section No.
Steering	
Removal and Installation of Steering Components	5001
Steering Specifications, Pressure Checks, and Troubleshooting	5002
Steering Cylinders	5005
Center Pivot	5006
Auxiliary Steering Motor and Pump	5008
Joystick Steering System (JSS)	5009
Power Train	
Removal and Installation of Power Train Components	6001
Transmission Specifications, Pressure Checks, and Troubleshooting	6002
4 & 5 Speed Transmission	6003
Multitrac MT-L 3085 II / 3095 II Axles	6004
Multitrac MT-L 3105 II	
Drive Shafts, Center Bearing, and Universal Joints	6005
Wheels and Tires	6006
Brakes	
Removal and Installation of Brake Components	7001
Hydraulic Brake Troubleshooting	7002
Brake Pump	7003
Brake Accumulators	7004
Parking Brake	7008
Hydraulics	
Removal and Installation of Hydraulic Components	8001
Hydraulic Specifications, Troubleshooting, and Pressure Checks	8002
Cleaning the Hydraulic System	8003
Hydraulic Pump	8004

**821F and 921F Wheel Loader
Service Manual
84488414**

Table of Contents

Description	Section No.
Hydraulics (continued)	
Loader Control Valve	8005
Cylinders	8006
Coupler Solenoid Locking Valve	8007
Ride Control Accumulator	8013
Ride Control Valve	8014
Mounted Equipment	
Air Conditioning Troubleshooting and System Checks For Systems with HFC-134a Refrigerant	9002
Air Conditioner System Service	9003
Removal And Installation Of Air Conditioning And Heater Components	9004
Loader	9006
Roll Over Protective Structure (ROPS), Cab Structural Frame (CSF)	9007
Cab Glass Installation	9010
Rear View Camera Installation and Removal	9020
Electrical Schematic Foldouts and Hydraulic Schematic Foldout	In Rear Pocket

Section 1001

GENERAL TORQUE SPECIFICATIONS

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