

821F
921F
Tier 4
Wheel Loader

OPERATOR'S MANUAL

Part number 84548506

2nd edition English

February 2012

Replaces part number 84324413



Contents

1 GENERAL INFORMATION

Note to the owner.....	1-1
Operator's manual storage	1-3
Right, left, front, and rear of the machine.....	1-4
Machine components.....	1-5
Note to the owner.....	1-7
Product identification	1-8
Electro-Magnetic Compatibility (EMC)	1-10

2 SAFETY INFORMATION

Safety rules and signal word definitions	2-1
Safety rules — California Proposition 65 Warning	2-2
Personal safety	2-3
Safety rules - Utility safety	2-4
Safety rules.....	2-5
Safety rules.....	2-6
Safety rules - Operating precautions	2-7
Safety rules - Maintenance precautions	2-9
Safety rules - Fuel handling	2-10
Safety rules - Burn Prevention	2-11
Safety rules.....	2-12
Safety rules.....	2-13
Safety rules - Support strut and service link	2-14
Safety signs	2-16

3 CONTROLS/INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

Proper entry and exit	3-1
-----------------------------	-----

OPERATOR'S SEAT

Overview	3-2
----------------	-----

FORWARD CONTROLS

Front console	3-7
Steering column	3-8
Pedal controls	3-10
Parking brake.....	3-12

LEFT-HAND SIDE CONTROLS

Transmission controls	3-13
Joystick steering.....	3-15

RIGHT-HAND SIDE CONTROLS

Overview	3-17
Two function valve	3-19
Three function valve	3-23
Four function valve	3-27
Wrist rest	3-29

EXTERIOR CONTROLS

Hood switch and master disconnect	3-30
---	------

INSTRUMENT CLUSTER

Overview	3-34
Status and warning icons	3-35
Display settings	3-43
Keypad	3-44
Operator preferences	3-52

SIDE CONSOLE

Overview	3-57
Switch operations	3-58
Climate controls	3-63

CLIMATE CONTROLS

Cab air louvers	3-65
Windows	3-67

4 OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Before starting the engine	4-1
Run in period of a new machine	4-2

STARTING THE UNIT

Starting the engine	4-3
Operating in extreme temperatures	4-5
Cold temperature operation	4-6
Transport/service link	4-8

STOPPING THE UNIT

Stopping the engine	4-11
---------------------------	------

MOVING THE UNIT

Before operating the transmission	4-13
Ride control	4-14
Control levers	4-15
Auxiliary forward, neutral, reverse (F-N-R) switch	4-20
Automatic mode	4-24
Loader functions	4-25

5 TRANSPORT OPERATIONS

RECOVERY TRANSPORT

Safety rules	5-1
Transporting the machine	5-2
Moving a disabled machine	5-4

6 WORKING OPERATIONS

LOADER OPERATIONS

Operating tips	6-1
Changing loader attachments	6-4
Coupling to the attachment	6-6
Uncoupling the attachment	6-9
Joystick operation	6-13

7 MAINTENANCE

GENERAL INFORMATION

Servicing	7-1
Support strut for loader lift arm	7-3
Releasing pressure in the hydraulic system	7-5
Fluids and lubricants	7-7
Biodiesel fuels	7-12
Selective Catalytic Reduction (SCR) - Overview	7-14
Selective Catalytic Reduction (SCR) system	7-17

MAINTENANCE CHART

Maintenance Chart	7-20
-------------------------	------

Daily inspection

General	7-22
---------------	------

Every 10 hours

Engine oil	7-26
------------------	------

Every 50 hours

Bucket/attachment grease fittings	7-27
Grease machine and attachments	7-28
Hydraulic oil level	7-29
Transmission oil level	7-30
Engine coolant	7-31

Initial 100 hours

Wheel torque	7-32
Change engine oil and filter (Initial)	7-34
Clean in-line DEF supply filter (Initial)	7-36
Fuel prefilter (Initial)	7-37
Fuel filter (Initial)	7-38
Replace hydraulic oil filter (Initial)	7-39

Every 100 hours

Grease fittings	7-40
-----------------------	------

Every 250 hours

Grease drive shaft slip joints	7-42
Cab air filter - Recirculation filter	7-43
Wheels and tires	7-45

Every 500 hours

Engine oil and filter	7-47
Replace fuel prefilter	7-49
Fuel filter	7-50
Fuel tank sediment	7-51
Axle oil level	7-52
Roll over protective structure	7-53
Battery fluid level	7-55

Every 1000 hours

Pivot points	7-56
Articulation fittings	7-57
Hydraulic oil filter	7-58
Drive belt	7-59
Cab air filter - Recirculation filter	7-61
Replacing the engine breather filter	7-63

Every 1500 hours

Front and rear axle	7-64
Transmission fluid and filter	7-66
Clean breather	7-68
Selective catalytic reduction system - Clean in-line supply filter	7-69
Calibrating the gear box	7-70
Transmission declutch pressure adjustment 4-speed transmission only	7-72

Every 2000 hours

Hydraulic oil and filters	7-73
Engine coolant	7-75
Engine air filters	7-77
Frame and cab - lubricate	7-79

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