

1021F
1121F
Tier 2
Wheel Loader

SERVICE MANUAL

Part number 47392461
1st edition English
July 2012



Contents

INTRODUCTION

Engine.....	10
Engine and crankcase.....	10.001
Air cleaners and lines.....	10.202
Engine lubrication system	10.304
Aftercooler.....	10.310
Fan and drive.....	10.414
Transmission.....	21
Powershift transmission	21.113
Powershift transmission external controls	21.135
Gearbox internal components	21.145
Powershift transmission internal components.....	21.155
Four-Wheel Drive (4WD) system	23
Drive shaft.....	23.314
Front axle system	25
Powered front axle	25.100
Front bevel gear set and differential.....	25.102
Final drive hub, steering knuckles, and shafts	25.108
Rear axle system.....	27
Powered rear axle	27.100
Brakes and controls	33
Parking brake / Parking lock.....	33.110
Hydraulic service brakes	33.202
Hydraulic systems.....	35
Hydraulic systems	35.000
Variable displacement pump	35.106
Reservoir, cooler, and filters.....	35.300

Pilot system.....	35.357
Main control valve	35.359
Auxiliary hydraulic valves and lines	35.525
Front loader arm hydraulic system	35.701
Steering.....	41
Auxiliary steering	41.910
Wheels.....	44
Front wheels.....	44.511
Cab climate control	50
Air conditioning	50.200
Electrical systems	55
Electrical system	55.000
Fuel tank system	55.011
Engine cooling system	55.012
Engine control system.....	55.015
Transmission control system	55.024
Service brake electrical system	55.030
Parking brake electrical system	55.031
Hydraulic system control	55.036
Steering control system	55.047
Heating, Ventilation, and Air-Conditioning (HVAC) control system.....	55.050
Cab Heating, Ventilation, and Air-Conditioning (HVAC) controls.....	55.051
Harnesses and connectors	55.100
Engine starting system	55.201
Cold start aid	55.202
Alternator	55.301
Battery.....	55.302
External lighting	55.404
External lighting switches and relays.....	55.405

Warning indicators, alarms, and instruments.....	55.408
Loader arm and bucket control system.....	55.415
Cab/Platform harnesses and connectors.....	55.510
Cab controls	55.512
Cab lighting	55.514
Wiper/Washer system	55.518
Cab brake controls	55.519
Cab controls (Lift arm, Boom, Dipper, Bucket)	55.524
FAULT CODES	55.DTC
Platform, cab, bodywork, and decals	90
Machine shields and guards.....	90.105
Protections and footboards.....	90.118
Pneumatically-adjusted operator seat.....	90.124
Cab	90.150



INTRODUCTION

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