






JOHN DEERE

Technical Manual

7600, 7700, 7800 Tractors

Diagnostic and Test manual

For complete information, visit [www.john-deere.com](#)

Repair manual 7600, 7700 tractors	 	DOWNLOAD 
Series 400, 6076 diesel engine. Repair manual		CTM42
Series 3029, 4039, 4045, 6059, 6068 diesel engine. Repair manual		CTM3274
Operation manual 7600, 7700, 7800 tractors		OMAR112756

TM1501 English
Issue 2011

TM1501 - 7600, 7700 and 7800 Tractors Operation and Test

Grp	Description	Page
205	Safety Information	
05	<i>Safety</i>	
	Recognize Safety Information	2
	Handle Fluids Safely Avoid Fires	3
	Prevent Battery Explosions	4
	Prepare for Emergencies	5
	Prevent Acid Burns	6
	Handle Chemical Products Safely	7
	Avoid High-Pressure Fluids	8
	Park Machine Safely	9
	Support Machine Properly	10
	Wear Protective Clothing	11
	Work in Clean Area	12
	Service Machines Safely	13
	Work In Ventilated Area	14
	Illuminate Work Area Safely	15
	Replace Safety Signs	16
	Use Proper Lifting Equipment	17
	Avoid High-Pressure Fluids	18
	Service Accumulator Systems Safely	19
	Remove Paint Before Welding or Heating	20
	Avoid Heating Near Pressurized Fluid Lines	21
	Keep ROPS Installed Properly	22
	Service Tires Safely	23
	Avoid Harmful Asbestos Dust	24
	Practice Safe Maintenance	25
	Use Proper Tools	26
	Dispose of Waste Properly	27
	Prevent Machine Runaway	28
	Handle Starting Fluid Safely	29
	Service Cooling System Safely	30
	Stay Clear of Rotating Drivelines	31
	Protect Against High Pressure Spray	32
	Construct Dealer-Made Tools Safely	33
	Clean Vehicle of Hazardous Pesticides	34
	Live With Safety	35
210	General Information	
05	<i>Operational Checks</i>	
	Electrical System Checks	36
	Before You Start	37
	Electrical System Operational Checks	
	Starting Circuit and Neutral Start Checks	
	Wiper, Seat Control and Lighter Circuits	
	Wiper, Seat Control and Lighter Circuits Continued	
	Heater and Air Conditioning Circuits	
	Radio, Dome Lamp, Horn, Turn Signal and Flash-To-Pass Circuits	
	Lighting System Circuits	
	Hitch Control Circuit (HCU)	
	Radar and Front PTO Circuits	
	Central Control Circuit (CCU)	
	Tractor Monitoring System (CCU and Tachometer)	
	Performance Monitor Operation	
	Results of Electrical Operational Check	
	Transmission Checks	47
	Before You Start	48
	Power Shift Transmission Operational Checks	
	Recall PCU Codes	
	Hydraulic Oil Temperature Check	

Exit Diagnostic Mode	
Neutral to Gear Engagement and Modulation Check	
Forward to Reverse (Shuttle Shift) Modulation Check	
Gear to Gear Modulation Check	
Clutch Modulation With Pedal	
C1-C2 Traction Clutch Check	
Clutch Engagement Check	
Differential Lock Operational Check	
MFWD Operational Check	
PTO Operational Check	
Recall Codes	
Neutral to Gear Modulation Check	
Forward to Reverse Modulation Check	
Gear to Gear Modulation Check	
Range Box Check	
Clutch Modulation With Clutch Pedal	
Transmission Creep Check	
Clutch Engagement Check	
Differential Lock Operational Check	
MFWD Operational Check	
PTO Operational Check (Front or Rear)	
Hydraulic System Checks	56
Hydraulic System Operational Checks	
Hydraulic System Load Check	
Hydraulic Operational Check	
Driving Checks	
Hitch Operational Checks	
Hitch Setup	
Operate Hitch Controls	
Hitch Operational Checkout Results	
Air Conditioning System Checks	60
A/C System Operational Checks	
Engine Off Checks	
Blower Motor Check	
Air Distribution Check	
Engine Running Checks	
Temperature Drop Check	
Check Heater Valve Operation	
Results of Operational Check	
10 General Reference Information	
JT03412 Supplemental Pressure Test Kit	63
JT03413 Supplemental Flow Test Kit	64
JT03419 ORFS Fitting Kit	65
JT05406 Master Hydraulic Flow Test Fitting Kit	66
JT05416 Consumer Products Hydraulic Flow Test Kit	69
JT05452 Power Shift Transmission Test Kit	70
JT03134 Power Shift Transmission Optional Accessories	71
JT05469 Flowmeter Kit	72
JT05470 Agricultural Universal Pressure Test Kit	73
Required Test Fittings	74
List of Diagnostic Adapters ORFS	75
Unified Inch Bolt and Screw Torque Values	76
Metric Bolt and Screw Torque Values	78
JIC Hydraulic Symbols	79
Glossary of Terms	80
15 Test Equipment Calibration	
JDG282 Temperature Gauge Check	82
Calibration Check of OTC Flow Meters	83
Method No. 1: Flow Meter (Main Pump Quick Check From SCV)	84
Method No. 2: Volume Check From Flow Meter	85
Pressure Gauge Calibration Checker	87



Thank you very much
for your reading.
Please click here
to get more information.