

**John Deere
JD755
Crawler Loader**



TECHNICAL MANUAL

**John Deere Dubuque Works
TM-1137 (Feb-84)**



LITHO IN U.S.A.

JD755 Crawler Loader

Technical Manual
TM-1137 (Apr-79)

SECTIONAL CONTENTS OF THIS MANUAL

Section I - General Information _____		1
Section 1 - Wheels and Tires and Tracks _____		1
Section 2 - Axles and Suspension System _____		2
Section 3 - Transmission _____		3
Section 4 - Engine _____		4
Section 5 - Engine Auxiliary Systems _____		5
Section 6 - Torque Converter _____	NOT USED	6
Section 7 - Traction or Disconnect Clutch _____	NOT USED	7
Section 8 - Transfer Drive _____		8
Section 9 - Steering Systems _____	NOT USED	9
Section 10 - Service Brakes _____	NOT USED	10
Section 11 - Parking - Emergency Brakes _____		11
Section 13 - Miscellaneous Vehicle _____	NOT USED	13
Section 15 - Equipment Attaching _____		15

Continued on page 3

Copyright 1975
DEERE & COMPANY
Moline, Illinois
All Rights Reserved

**Thanks very much for your reading,
Want to get more information,
Please click here, Then get the complete
manual**

JustClickHere 

NOTE:

**If there is no response to click on the link above,
please download the PDF document first, and then
click on it.**

**Have any questions please write to me:
admin@servicemanualperfect.com**

SECTIONAL CONTENTS (Continued)

Section 16 - Electrical Systems _____	16
Section 17 - Frame, Chassis or Supporting Structure _____	17
Section 18 - Operator's Station _____	18
Section 19 - Sheet Metal and Styling _____	19
Section 21 - Main Hydraulic System _____	NOT USED 21
Section 22 - Pneumatic Systems _____	NOT USED 22
Section 30 - Winch _____	NOT USED 30
Section 31 - Loader _____	31
Section 32 - Dozer _____	NOT USED 32
Section 33 - Backhoe and Excavator _____	NOT USED 33
Section 34 - Grading Device _____	NOT USED 34
Section 35 - Scraper and Haulage Device _____	NOT USED 35
Section 36 - Conveyor and Elevating Device _____	NOT USED 36
Section 37 - Arch or Boom _____	NOT USED 37
Section 38 - Grapple or Clamp _____	NOT USED 38
Section 39 - Shear _____	NOT USED 39
Section 40 - PTO or Winch Drive _____	NOT USED 40

Continued on page 5

SECTIONAL CONTENTS (Continued)

Section 41 - Misc. Function Mechanical Drive _____	NOT USED 41
Section 42 - Ground Conditioning Tool _____	42
Section 43 - Swing, Rotation or Pivoting System _____	NOT USED 43
Section 44 - Cutting Mechanism _____	NOT USED 44
Section 45 - Forklifts _____	NOT USED 45
Section 90 - System Testing _____	90

The specifications and design information contained in this manual were correct at the time it was printed. It is John Deere's policy to continually improve and update our machines. Therefore, the specifications and design information are subject to change without notice. Wherever applicable, specifications and design information are in accordance with SAE and ICED standards.

SECTION AND GROUP CONTENTS OF THIS MANUAL

SECTION I - GENERAL INFORMATION

- Group I - Contents, Index and Page List
- Group II - Introduction and Safety Information
- Group III - General Specifications
- Group IV - Predelivery, Delivery and After-Sale Services
- Group V - Lubrication

SECTION 1 - TRACKS

- Group 0130 - Track Systems
- Group 0199 - Specifications and Special Tools

SECTION 2 - AXLES AND SUSPENSION SYSTEMS

- Group 0201 - Drive Axle Housing
- Group 0250 - Axle Shaft, Bearings and Reduction Gears
- Group 0299 - Specifications and Special Tools

SECTION 3 - TRANSMISSION

- Group 0315 - Controls
- Group 0325 - Input Drive Shafts and U-Joints
- Group 0360 - Transmission Hydraulics
- Group 0370 - Clutch Disconnect and Controls
- Group 0399 - Specifications and Special Tools

SECTION 4 - ENGINE

- Group 0400 - Engine Removal and Installation
- Group 0401 - Crankshaft and Main Bearings
- Group 0402 - Camshaft and Valve Actuating Means
- Group 0403 - Connecting Rods and Pistons
- Group 0404 - Cylinder Block
- Group 0407 - Engine Oiling System
- Group 0408 - Ventilating System
- Group 0409 - Cylinder Head and Valves
- Group 0410 - Exhaust Manifold
- Group 0413 - Fuel Injection System
- Group 0416 - Turbocharger
- Group 0417 - Water Pump
- Group 0418 - Thermostats, Housings and Piping
- Group 0419 - Engine Oil Cooler
- Group 0420 - Fuel Filter
- Group 0421 - Fuel Transfer Pump
- Group 0422 - Starting System
- Group 0433 - Flywheel, Housing and Fasteners
- Group 0499 - Specifications and Special Tools

SECTION 5 - ENGINE AUXILIARY SYSTEMS

- Group 0505 - Cold Weather Starting Aids
- Group 0510 - Engine Cooling System
- Group 0520 - Intake System
- Group 0530 - External Exhaust System
- Group 0540 - Mounting Frame
- Group 0560 - External Fuel Supply System
- Group 0599 - Specifications and Special Tools

SECTION 8 - TRANSFER DRIVE

- Group 0841 - Housing and Covers
- Group 0851 - Gears, Shafts, Bearings
- Group 0899 - Specifications and Special Tools

SECTION 11 - PARKING EMERGENCY BRAKE

- Group 1115 - Controls Linkage
- Group 1160 - Parking Brake Hydraulics

SECTION 15 - EQUIPMENT ATTACHING

- Group 1511 - Drawbar
- Group 1512 - Towbar

SECTION 16 - ELECTRICAL SYSTEMS

- Group 1671 - Batteries, Supports and Cables
- Group 1672 - Alternator, Regulator and Charging System Wiring
- Group 1673 - Lighting System
- Group 1674 - Wiring Harness and Switches
- Group 1699 - Specifications and Special Tools

SECTION 17 - FRAME, CHASSIS OR SUPPORTING STRUCTURE

- Group 1741 - Main Frame
- Group 1746 - Frame Bottom Guards
- Group 1749 - Counterweight

SECTION 18 - OPERATOR'S STATION

- Group 1806 - Safety Equipment
- Group 1808 - Comfort and Convenience Items
- Group 1810 - Operator Enclosure
- Group 1821 - Seat
- Group 1823 - Instruments and Indicators
- Group 1824 - External Engine Speed Control
- Group 1830 - Heating and Air Conditioning
- Group 1899 - Specifications and Special Tools

SECTION AND GROUP CONTENTS OF THIS MANUAL (Continued)

SECTION 19 - SHEET METAL AND STYLING

- Group 1910 - Hood or Engine Enclosures
- Group 1921 - Grille and Grille Housing

SECTION 31 - LOADER

- Group 3102 - Buckets
- Group 3115 - Controls Linkage
- Group 3140 - Loader Frames
- Group 3160 - Loader Hydraulics
- Group 3199 - Specifications and Special Tools

SECTION 42 - GROUND CONDITIONING TOOL

- Group 4215 - Controls Linkage
- Group 4260 - Hydraulic System

SECTION 90 - SYSTEM TESTING

- Group 9005 - General Information - Seven Basic Steps of Testing and Diagnosis
- Group 9010 - Engine
- Group 9015 - Electrical System
- Group 9020 - Power Train
- Group 9025 - Hydraulic System (Flow Meter)
- Group 9025A - Hydraulic System (Analyzer)
- Group 9026 - Hydrostatic System
- Group 9030 - Miscellaneous Components
- Group 9031 - Heating and Air Conditioning
- Group 9035 - Specifications and Special Tools

ALPHABETICAL INDEX

A

Adapter, starting aid 0505-4
 Accessories testing 9015-35
 After-sale inspection I-IV-18 - I-IV-31
 Air cleaner I-IV-22
 Air intake hose I-IV-22
 Alternator-fan compressor
 belt tension I-IV-22 - I-IV-24
 Batteries I-IV-28
 Cab air filter I-IV-27
 Charging system I-IV-29
 Engine crankcase oil and filter I-IV-19
 Final drive housing oil level I-IV-21
 Fluid leakage I-IV-31
 Fuel tank sump I-IV-24
 Indicator lights and gauges I-IV-28 - I-IV-29
 Hydraulic oil level I-IV-20
 Hydrostatic transmission oil level I-IV-20
 Lubrication I-IV-27
 Park brake I-IV-30
 Radiator coolant level I-IV-24
 Splitter gearbox oil level I-IV-21
 Track tension adjustment I-IV-25 - I-IV-26
 Track shoe cap screws I-IV-26
 Air cleaner assembly 0520-1 - 0520-2
 Components 0520-1
 Air conditioning relay 1674-4
 Air conditioning system 1830-5 - 1830-32
 Air filters 1830-32
 Compressor 1830-5 - 1830-20
 Compressor relief valve 1830-28
 Condenser 1830-22 - 1830-23
 Evaporator 1830-25
 Expansion valve 1830-26
 High temperature switch 1830-30
 Pressurizer blowers and switch 1830-31 - 1830-32
 Receiver - dryer 1830-23 - 1830-24
 Refrigerant couplings 1830-29
 Thermal fuse and superheat
 shutoff switch 1830-21
 Thermostatic temperature control
 switch 1830-27 - 1830-28
 Air conditioning system testing 9015-35,
 9031-2 - 9031-20
 Adding refrigerant-12 to the
 system 9031-16 - 9031-17
 Charging the system 9031-15 - 9031-16
 Component location 9031-2 - 9031-4
 Diagnosis and testing 9031-7 - 9031-8
 Diagnosis flow chart 9031-9
 Discharging the system 9031-13
 Electrical testing 9015-35, 9031-9
 Evacuating the system 9031-13

Air conditioning system testing—Continued
 Flushing the system 9031-19
 Inspecting refrigerant hoses and
 tubing 9031-20
 Isolating compressor from system 9031-18
 Leak testing 9031-19
 Operational test 9031-11
 Pressure gauges 9031-12
 Safety precautions 9031-12
 Schematic 9031-5
 Temperature pressure chart 9031-17
 Theory of operation 9031-5 - 9031-6
 Air filters 1830-32
 Air intake system 1830-31 - 1830-32
 Air filters 1830-32
 Pressurizer blowers and switch 1830-31 - 1830-32
 Air intake system testing 9010-1, 9010-15
 Testing 9010-15
 Theory 9010-1
 Air restriction indicator 0520-1, 1823-3
 Alternator and regulator, 16 amp 1672-15 - 1672-25
 Assembly 1672-23 - 1672-25
 Component tests 1672-20 - 1672-22
 Components 1672-15
 Explanatory information 1672-13 - 1672-14
 Installation 1672-25
 Removal 1672-14
 Repair 1672-15 - 1672-19
 Test after assembly 1672-25
 Alternator and regulator, 42 amp 1672-1 - 1672-12
 Assembly 1672-11 - 1672-12
 Assembling front housing on
 rotor 1672-11
 Assembling front housing to
 rear housing 1672-11
 Installing brush assembly 1672-12
 Installing regulator 1672-12
 Component tests 1672-7 - 1672-11
 Components 1672-3
 Explanatory information 1672-1 - 1672-2
 Installation 1672-12
 Removal 1672-2
 Repair 1672-2 - 1672-7
 Test after assembly 1672-12
 Armature 0422-1, 0422-8
 Explanatory information 0422-1
 Repair 0422-8
 Automatic control valve 0360-62 - 0360-64,
 0360-73 - 0360-75
 Assembly 0360-73 - 0360-75
 Disassembly 0360-62 - 0360-64
 Automatic control valve shut-off
 valve 0360-62, 0360-73
 Assembly 0360-73
 Disassembly 0360-62

Automatic control valve shut-off
valve control 0315-13
Components 0315-13
Installation 0315-13
Removal 0315-13
Repair 0315-13

Automatic control valve variable
orifice 0360-65 - 0360-66,
0360-76 - 0360-78
Assembly 0360-76 - 0360-78
Disassembly 0360-65 - 0360-66

Automatic control valve variable
orifice linkage 0315-10 - 0315-11
Components 0315-11
Installation 0315-10
Removal 0315-10
Repair 0315-10

Axle shaft, bearings and reduction
gears 0250-1 - 0250-10
Final drive housing cover with
gears and shafts 0250-4 - 0250-7
Assembly 0250-6 - 0250-7
Components 0250-4 - 0250-6
Installation 0250-7
Removal 0250-5
Repair 0250-5

Planet housing with pinions
and shafts 0250-2 - 0250-3
Components 0250-3
Installation 0250-2
Removal 0250-2
Repair 0250-2

B

Basic engine testing 9010-10

Batteries, supports and cables 1671-3 - 1671-7,
9015-19
Charging 1671-7
Inspection 1671-4
Checking electrolyte level 1671-4
Cleaning 1671-4
Installation 1671-7
Precautions 1671-4
Removal 1671-4
Testing 1671-5 - 1671-6,
9015-19
High rate discharge test 1671-6
Specific gravity cell
comparison test 1671-5
System short test 9015-19
Testing voltage 9015-19

Battery disconnect switch 1674-2

Blades, teeth, shanks 4201-3

Bleeding fuel injection pump 0413-3

Block, cylinder 0404-1, 0404-2

Block diagram:
Electrical system 9015-5
Hydraulic system (flow meter) 9025-11 - 9025-13
Hydrostatic system 9026-18
Power train 9020-5

Blower motors 1830-31 - 1830-32

Body connectors 1674-1

Bottom guards, frame 1746-1 - 1746-2

Brake, emergency parking:
Controls, linkage 1115-1 - 1115-3
Hydraulics 1160-1 - 1160-4

Brake, parking 0250-8 - 0250-10

Brake valve cable 1115-5

Brush assembly, alternator,
16 amps 1672-13, 1672-16,
1672-19, 1672-23

Brush assembly, alternator,
42 amps 1672-1,
1672-7 - 1672-8,
1672-12

Bucket, multi-purpose loader 3102-4

Bucket, regular loader 3102-3

Bushings, engine starting system 0422-7

Bypass valve, transmission 0360-33 - 0360-34

C

Cab 1810-1 - 1810-6
Components 1810-5
Installation 1810-6
Removal 1810-1 - 1810-3
Repair 1810-4

Cab relay 1823-6

Camshaft and valve actuating
means 0402-1 - 0402-6
Components 0402-1, 0402-3
Final installation 0402-6
Installation 0402-5 - 0402-6
Camshaft 0402-5
Rocker arm assembly 0402-5
Timing gear train 0402-5 - 0402-6
Removal 0402-1 - 0402-2
Rocker arm assembly 0402-1 - 0402-2
Timing gear train 0402-2
Repair 0402-3 - 0402-5
Camshaft 0402-3
Rocker arm 0402-3 - 0402-4
Timing gear train 0402-4 - 0402-5
Front plate and timing
gear cover 0402-4 - 0402-5
Gear train backlash 0402-4
Idler gears 0402-4

Carrier Roller	0130-12 - 0130-14	Control valve, loader	3160-8 - 3160-15
Chains and shoes, track	0130-21 - 0130-28	Control valve, transmission	0360-57 - 0360-84
Charge pump, transmission	0360-26 - 0360-27	Assembly	0360-72 - 0360-83
Charging circuit testing	9015-26 - 9015-31	Automatic control valve	0360-73 - 0360-75
Testing	9015-27 - 9015-31	Automatic control valve shut-	
Theory of operation	9015-26	off valve	0360-73
Cigar lighter	1808-1	Automatic control valve	
Circuit breakers	1674-3	variable orifice	0360-76 - 0360-78
Clutch coil and housing	1830-15 - 1830-16	FNR valve	0360-81 - 0360-82
Clutch, disconnect and controls		P1 over pressure relief valve	0360-72
Controls	0370-1	P2 pressure regulator valve	0360-72
Components	0370-2 - 0370-3	Port plate and cover	
Installation	0370-1	assembly	0360-80310-83
Removal	0370-1	Speed control valve	0360-80 - 0360-81
Repair	0370-1	Steering valve	0360-78
Elements	0370-4 - 0370-6	Steering valve lever assembly	0360-79
Components	0370-6	Steering valve orifices	0360-75
Installation	0370-6	Disassembly	0360-59 - 0360-71
Removal	0370-4	Automatic control valve	0360-62 - 0360-64
Repair	0370-4 - 0370-5	Automatic control valve	
Cold weather starting aids	0505-3 - 0505-4	shut-off valve	0360-62
Starting aid adapter, line		Automatic control valve	
and nozzle	0505-4	variable orifice	0360-65 - 0360-66
Starting aid solenoid	0505-3	FNR valve	0360-68 - 0360-70
Starting aid switch	0505-3 - 0505-4	P1 over pressure relief valve	0360-61
Comfort and convenience items	1808-1	P2 pressure regulator valve	0360-61
Component location:		Speed control valve	0360-70 - 0360-71
Air conditioning system	9031-2 - 9031-4	Steering valve	0360-67 - 0360-69
Electrical system	9015-2 - 9015-4	Steering valve orifices	0360-64
Engine	9010-2 - 9010-4	Transmission control valve	
Hydraulic system (flow meter)	9025-3	assembly	0360-67
Hydrostatic system	9026-32 - 9026-34	Installation	0360-84
Power train	9020-2 - 9020-4	Removal	0360-58 - 0360-59
Compressor	1830-5 - 1830-20	Repair	0360-71
Components	1830-5 - 1830-7	Controls linkage, ground	
Installation	1830-19 - 1830-21	conditioning tool	4215-3
Removal	1830-7	Controls linkage, loader	3115-1 - 3115-5
Repair	1830-8 - 1830-19	Controls linkage, parking	
Checking and adding		emergency brake	1115-3 - 1115-5
compressor oil	1830-16	Cooling system, engine	0510-1 - 0510-2
Clutch coil and housing	1830-15 - 1830-16	Cooling system testing	9010-1,
Compressor pulley and		9010-11 - 9010-12	
bearing	1830-14 - 1830-15	Testing	9010-11 - 9010-12
Compressor shaft seal	1830-10 - 1830-13	Theory	9010-1
Leak testing compressor	1830-18 - 1830-19	Counterweight	1749-1
Servicing	1830-17	Cowl	1910-4
Compressor pulley and bearing	1830-14 - 1830-15	Crankshaft and main bearings	0401-1 - 0401-5
Compressor relief valve	1830-29	Installation	0401-1 - 0401-5
Compressor shaft seal	1830-10 - 1830-13	Front oil seal	0401-5
Condenser	1830-23	Main bearing	0401-4
Connecting rods and pistons	0403-1 - 0403-4	Rear oil seal	0401-5
Components	0403-2 - 0403-3	Rear wear ring	0401-4
Installation	0403-3 - 0403-4	Removal	0401-1
Removal	0403-1		
Repair	0403-1 - 0403-3		

Crankshaft and main bearings—Continued

Repair	0401-1 - 0401-3
Crankshaft damper	0401-3
Crankshaft gear	0401-1
Crankshaft rear oil seal, housing and wear sleeve	0401-3
Front oil sleeve and wear sleeve	0401-3
Main bearings and crankshaft journals	0401-1 - 0401-3
Cylinder block	0404-1 - 0404-2
Cylinder head and valves	0409-1 - 0409-5
Assembly	0409-4
Components	0409-2
Installation	0409-4 - 0409-5
Valve clearance adjustment	0409-4 - 0409-5
Removal	0409-1
Repair	0409-1 - 0409-4
Cylinder head	0409-1
Valve guides	0409-3
Valve seat insert	0409-3 - 0409-4
Valves	0409-2 - 0409-3
Cylinder liners	0404-1 - 0404-2
Cylinder, loader hydraulics	3160-16 - 3160-20

D

Delivery service	I-IV-18
Diagnosing malfunctions:	
Air conditioning	9031-7 - 9031-8
Electrical system	9015-14 - 9015-16
Engine	9010-5 - 9010-7
Heating system	9031-1
Hydraulic system (flow meter)	9025-17 - 9025-19
Hydrostatic system	9026-39 - 9026-100
Power train	9020-6 - 9020-7
Diagnosis and testing	9005-3
Diodes, alternator, 16 amp	1672-13 - 1672-14, 1672-17 - 1672-20, 1672-23
Displacement control valve, transmission motor	0360-52 - 0360-54
Displacement control valve, transmission pump	0360-28 - 0360-32
Double selector control valve linkage	4215-3
Double selector valve	4260-1
Drawbar	1511-3
Drive axle housing	0201-3 - 0201-5
Drive sprocket, track	0130-20

E

Electric return-to-dig function	1675-1
Electrical instruments and Indicators	1823-4 - 1823-6

Electrical system:

Alternator, regulator and charging system wiring	1672-1 - 1672-24
Batteries, supports and cables	1671-3 - 1671-7
Lighting system	1673-1 - 1673-2
Wiring harness and switches	1674-1 - 1674-4
Electrical system testing	9015-1 - 9015-42
Block diagram	9015-5 - 9015-6
Component location	9015-2 - 9015-4
Diagnosing malfunctions	9015-14 - 9015-16
Precautions	9015-17 - 9015-18
Schematic diagram	9015-6, 9015-39 - 9015-42
Testing and adjustment	9015-19 - 9015-36
Accessories	9015-35
Air conditioning	9015-35 - 9015-36
Batteries	9015-19
System short test	9015-19
Testing voltage	9015-19
Charging circuit	9015-26 - 9015-31
Alternator and regulator with voltmeter (engine running)	9015-27
Alternator and regulator with voltmeter (key switch "OFF")	9015-27
Alternator and regulator with voltmeter (key switch "ON")	9015-27
Alternator field circuit	9015-28
Alternator on unit using voltmeter	9015-29
Alternator output	9015-30
High resistance test	9015-31
Regulator	9015-30
Instruments and indicators	9015-33
Hour meter	9015-33
Indicator lights	9015-33
Voltmeter	9015-33
Lighting circuit	9015-31 - 9015-32
Return-to-dig circuit	9015-37
Starting aid	9015-34
Starting circuit	9015-20 - 9015-25
High resistance test	9015-24 - 9015-25
Visual inspection	9015-18
Wire terminal location	9015-7 - 9015-13
Emergency brake, parking:	
Controls linkage	1115-1 - 1115-3
Hydraulics	1160-1 - 1160-4
Engine	
Camshaft and valve actuating means	0402-1 - 0402-6
Connecting rods and pistons	0403-1 - 0403-4
Crankshaft and main bearings	0401-1 - 0401-5

Engine—Continued

Cylinder block	0404-1 - 0404-2
Cylinder head and valves	0409-1 - 0409-5
Engine removal and installation	0400-3 - 0400-4
Installation	0400-4
Removal	0400-3 - 0400-4
Exhaust manifold	0410-1
Flywheel, housing and fasteners	0433-1
Fuel filter	0420-1
Fuel injection system	0413-1 - 0413-5
Fuel transfer pump	0421-1
Oil cooler	0419-1
Oiling system	0407-1 - 0407-3
Starting system	0422-1 - 0422-10
Thermostats, housings and piping	0418-1 - 0418-2
Turbocharger	0416-1 - 0416-7
Ventilating system	0408-1
Water pump	0417-1 - 0417-8
Engine auxiliary systems:	
Cold weather starting aids	0505-3 - 0505-4
Cooling system	0510-1 - 0510-2
External fuel supply system	0560-1 - 0560-2
Intake system	0520-1 - 0520-2
Engine oil pressure gauge	1823-3
Engine side shields	1910-5
Engine speed control	0515-1 - 0515-6
Engine system testing	9010-1 - 9010-15
Component location	9010-2 - 9010-4
Diagnosing malfunctions	9010-5 - 9010-7
Testing and adjustment	9010-10 - 9010-15
Air intake system	9010-15
Air restriction indicator test	9010-15
Intake manifold pressure test	9010-15
Basic engine	9010-10
Compression pressure test	9010-10
Engine cooling system	9010-11 - 9010-12
Alternator belt tension adjustment	9010-12
Radiator leakage	9010-11
Engine lubrication system	9010-10 - 9010-11
Checking engine oil pressure	9010-10 - 9010-11
Fuel system	9010-12 - 9010-14
Adjusting injection pump cam advance	9010-13
Fuel transfer pump pressure test	9010-12
Speed control adjustment	9010-14
Theory of operation	9010-1
Air intake system	9010-1
Engine cooling system	9010-1
Engine lubrication system	9010-1
Fuel system	9010-1
Speed control linkage	9010-1

Engine system testing—Continued

Visual inspection	9010-8 - 9010-9
Air cleaner	9010-9
Fan	9010-8
Fan belt	9010-8
Fuel filter	9010-9
Fuel injection nozzles	9010-9
Fuel injection pump	9010-8
Fuel tank	9010-8
Fuel transfer pump	9010-8
Hoses	9010-8
Oil and water leakage	9010-8
Oil cooler	9010-8
Radiator	9010-8
Turbocharger	9010-9
Engine water temperature gauge	1823-2
Evaporator	1830-25
Exhaust manifold, engine	0410-1
Expansion valve	1830-26
External engine speed control	0515-1 - 0515-6
External exhaust systems	0530-1
External fuel supply system, engine	0560-1 - 0560-2

F

Fan Drive	
Field windings	0422-1, 0422-8
Filter, engine fuel	0420-1
Filter, engine oil	0407-3
Filter, transmission	0360-90
Final drive housing	0201-3 - 0201-4
Final drive housing cover with gears and shafts	0250-4 - 0250-7
Final drive system	0250-1 - 0250-2
Flywheel, housing and fasteners	0433-1
FNR valve	0360-68 - 0360-70, 0360-81 - 0360-82
Assembly	0360-81 - 0360-82
Disassembly	0360-68 - 0360-70
Forward and reverse speed control	0315-7 - 0315-10
Components	0315-7 - 0315-9
Speed control head	0315-8 - 0315-9
Speed control linkage	0315-10
Frame bottom guards	1746-1 - 1746-2
Frame, loader	3140-1 - 3140-2
Frame, main	1741-3 - 1741-4
Frame, track	0130-3 - 0130-8
Front idler	0130-14 - 0130-17
Measuring front idler, wear	0130-14
Components	0130-16
Using track wear gauge	0130-14
Fuel filter, engine	0420-1

Fuel injection system 0413-1 - 0413-5
Fuel injection nozzles 0413-4 - 0413-5
Fuel injection pump 0413-1 - 0413-3
Installation and timing 0413-2 - 0413-3
Bleeding 0413-3
Removal 0413-1 - 0413-2
Repair 0413-2
Fuel system testing 9010-1, 9010-12 - 9010-13
Testing 9010-12 - 9010-13
Theory 9010-1
Fuel tank and lines, engine 0560-1 - 0560-4
Fuel transfer pump 0421-1
Fuses 1674-3

G

Gauge, engine oil pressure 1823-3
Gauge, engine water temperature 1823-2
Gauge, transmission oil pressure 1823-1
Gauge, transmission oil temperature 1823-2
Gear train backlash 0402-4
Gears, shafts, bearings, transfer
drive 0851-1 - 0851-6
Components 0851-1 - 0851-3
Installation 0851-6
Removal 0851-1
Repair 0851-2 - 0851-5
Greases I-V-2
Grille and grille housing 1921-1 - 1921-2
Ground conditioning tool:
Blades, teeth, shanks 4201-3
Ripper 4201-3
Controls linkage 4215-3
Hydraulics 4260-1

H

Heater blowers 1830-4
Heater core 1830-2 - 1830-4
Heater pipes and hoses 1830-4
Heater valve 1830-1
Heating system testing 9031-1 - 9031-4
Component location 9031-2 - 9031-4
Diagnosis and testing 9031-1
Hood 1910-3
Horn 1806-3
Hour meter 1823-4
Hour meter testing 9015-33
Housings and covers, transfer
drive 0841-3 - 0841-4
Components 0841-3
Hydraulic oil filter light 1823-5
Hydraulic system (analyzer)
testing 9025A-1 - 9025A-10
Components 9025A-1

Hydraulic system (analyzer)—Continued
Diagnosis of test results chart 9025A-9
Hydraulic system specifications and
parts list 9025A-11
Hydraulic system test record 9025A-10
Pretest check sheet 9025A-3
Symptom index table 9025A-4
Tests 9025A-5 - 9025A-7
Circuit test 9025A-7
Cylinder leakage test 9025A-6
Hydraulic pump test 9025A-6 - 9025A-7
System relief valve test 9025A-5
Test equipment parts list 9025A-8
Hydraulic system (flow meter)
testing 9025-1 - 9025-30
Block diagram 9025-10 - 9025-13
Component location drawing 9025-2 - 9025-3
Diagnosing malfunctions 9025-17 - 9025-19
Operation 9025-7
Schematics 9025-14 - 9025-15
Testing and adjustment 9025-20 - 9025-30
Auxiliary control valve lift check test 9025-21
Auxiliary valve (clam
close or ripper lower)
circuit relief valve test 9025-28
Auxiliary valve (clam
open or ripper raise)
circuit relief valve test 9025-28
Boom control valve lift
check test 9025-21
Boom cylinder drift test 9025-29
Boom lower circuit relief valve test 9025-27
Boom raise circuit relief
valve test 9025-27
Bucket control valve lift
check test 9025-21
Bucket dump circuit relief
valve test 9025-28 - 9025-30
Bucket rollback circuit
relief valve test 9025-29
Checking hydraulic pump
flow 9025-22 - 9025-26
Checking hydraulic sump 9025-20
Checking loader circuits for leaks 9025-21
Checking oil lines and hoses 9025-20
Checking system relief
valve pressure setting 9025-20
Hydraulic cylinder leakage
test 9025-20
Theory 9025-5 - 9025-7
Visual inspection 9025-16
Hydraulics, ground conditioning tool 4260-1
Hydraulics, loader 3160-1 - 3160-5

Hydraulics, parking emergency
 brake 1160-1 - 1160-4
 Hydraulics, transmission 0360-1 - 0360-90
 Hydrostatic system testing 9026-2 - 9026-142
 Adjustment procedures 9026-103 - 9026-142
 Component location 9026-32 - 9026-34
 Diagnosing malfunctions 9026-39 - 9026-100
 Diagnostic equipment 9026-40
 Diagnostic procedures 9026-41 - 9026-66
 Automatic control valve
 accumulator (P9 check) . 9026-65 - 9026-66
 Automatic control valve
 operational check 9026-61 - 9026-64
 Engine output check 9026-45 - 9026-48
 Transmission charge pressure
 loss isolation 9026-54 - 9026-55
 Transmission control system
 tracking check 9026-56 - 9026-60
 Transmission pressures test 9026-52 - 9026-53
 Transmission volumetric
 efficiency test 9026-49 - 9026-51
 Diagnostic symptoms 9026-67 - 9026-100
 Symptoms index 9026-68
 General information 9026-2 - 9026-30
 Brake valve 9026-29
 Hydrostatic transmission 9026-2 - 9026-16
 Charge pump 9026-9
 Manifold valve assembly ... 9026-14 - 9026-15
 Motor displacement control
 valve 9026-14
 Oil cooler bypass valve 9026-30
 Pump displacement control
 valve 9026-10 - 9026-13
 Transmission bypass valve . 9026-15 - 9026-16
 Transmission control valve . 9026-17 - 9026-29
 Transmission operating
 pressure valve 9026-16
 Visual inspection 9026-31
 Hydrostatic transmission 0360-1 - 0360-56
 Bypass valve 0360-33 - 0360-34
 Installation 0360-3
 Removal 0360-2
 Repair 0360-3
 Start-up procedure 0360-4
 Transmission motor 0360-35 - 0360-56
 Assembly 0360-46 - 0360-51
 Components 0360-45, 0360-54, 0360-56
 Displacement control valve . 0360-52 - 0360-54
 Inspection 0360-46
 Installation 0360-51
 Manifold valve assembly ... 0360-55 - 0360-56
 Removal 0360-35 - 0360-45

Hydrostatic transmission—Continued
 Transmission pump 0360-5 - 0360-32
 Assembly 0360-19 - 0360-25
 Charge pump 0360-26 - 0360-27
 Components 0360-17, 0360-31
 Disassembly 0360-7 - 0360-17
 Displacement control valve . 0360-28 - 0360-32
 Inspection 0360-18
 Installation 0360-25
 Removal 0360-5 - 0360-6

I

Idler, front 0130-14 - 0130-16
 Idler, upper 0130-12 - 0130-13
 Indicator lights testing 9015-33
 Instrument panel 1823-1
 Instruments and indicators 1823-1 - 1823-6
 Electrical 1823-4 - 1823-6
 Cab relay 1823-6
 Hour meter 1823-4
 Hydraulic oil filter light 1823-5
 Key switch 1823-6
 Starter switch 1823-6
 Transmission oil filter
 indicator light 1823-5
 Voltmeter 1823-4
 Mechanical 1823-1 - 1823-3
 Air restriction indicator 1823-3
 Engine water oil pressure gauge 1823-3
 Engine water temperature
 gauge 1823-2
 Transmission oil pressure
 gauge 1823-1
 Transmission oil temperature
 gauge 1823-2
 Instruments and indicators
 testing 9015-32 - 9015-33
 Intake system, engine 0520-1 - 0520-2

K

Key switch 1823-6

L

Left loader bucket cylinder 3160-16
 Lift cylinder 3160-18
 Light, hydraulic oil filter 1823-5
 Light switch 1673-2
 Light, transmission oil filter indicator 1823-5
 Lighting circuit testing 9015-31 - 9015-32
 Lights 1673-1
 Line, starting aid 0505-4
 Liner, cylinder 0404-1 - 0404-2

Loader
 Buckets 3102-3 - 3102-5
 Controls linkage 3115-1, 3115-5
 Frames 3140-1 - 3140-2
 Hydraulics 3160-1 - 3160-20
 Control valve 3160-8 - 3160-15
 Cylinders 3160-16 - 3160-20
 Pump 3160-1 - 3160-5
 Reservoir and filters 3160-6 - 3160-7
 Lubrication I-V-1 - I-V-2
 Engine lubricating oils I-V-2
 Greases I-V-2
 Hydraulic system I-V-2
 Hydrostatic transmission I-V-2
 Periodic service chart I-V-1
 Planetary final drives and
 splitter drive I-V-2
 Storing lubricants I-V-2
 Lubrication system
 testing 9010-1, 9010-10 - 9010-11

M

Main bearings and crankshaft 0401-1 - 0401-5
Main frame 1741-3 - 1741-4
Manifold, exhaust, engine 0410-1
Manifold valve assembly,
 transmission 0360-55 - 0360-56
Mechanical instruments and
 indicators 1823-1 - 1823-3
Miscellaneous components system
 testing (track) 9030-1 - 9030-4
 Adjustment 9030-2 - 9030-4
 Track alignment 9030-2 - 9030-4
 Track tension 9030-2
 Diagnosing malfunctions 9030-1
Motor, Delco-Remy starting 0422-1 - 0422-10
Motor drive 0422-1 - 0422-2, 0422-6
 Explanatory information 0422-1 - 0422-2
 Repair 0422-6
Motor, transmission 0360-35 - 0360-56
Multi-purpose bucket clam cylinder 3160-17
Multi-purpose bucket, loader 3102-4

N

Neutral start switch 1674-1
Nozzle, fuel injection 0413-4 - 0413-5
Nozzle, starting aid 0505-4

O

Oil cooler bypass valve 0360-86
Oil cooler, engine 0419-1
Oil cooler, transmission 0360-85

Oiling system, engine 0407-1 - 0407-3
 Oil filters and housing 0407-3
 Oil pressure regulating valve 0407-2
Oil pump 0407-1 - 0407-2
Operating pressure valve,
 transmission 0360-87 - 0360-88
Operator enclosure 1810-1 - 1810-6
 Components 1810-3 - 1810-5
 Cab 1810-5
 Window wiper 1810-3 - 1810-4
 Installation 1810-6
 Removal 1810-1 - 1810-4
 Cab 1810-1 - 1810-3
 Window wipers 1810-3 - 1810-4
 Windshield washer 1810-3
 Repair 1810-4 - 1810-6
 Cab 1810-4 - 1810-5
 Window wipers 1810-6
 Windshield washer 1810-5

P

P1 pressure relief valve 0360-61, 0360-72
 Assembly 0360-72
 Disassembly 0360-61
P2 pressure regulator valve 0360-61, 0360-72
 Assembly 0360-72
 Disassembly 0360-61
Parking brake assembly 0250-8 - 0250-10
Parking emergency brake:
 Active elements 1111-3
 Controls linkage 1115-1 - 1115-3
 Hydraulics 1160-1 - 1160-4
 Periodic service chart I-V-1
Pistons and connecting rods 0403-1 - 0403-4
Planet housing with pinions and
 shafts 0250-2 - 0250-3
Port plate and cover assembly 0360-82 - 0360-83
Power train system testing 9020-1 - 9020-8
 Block diagram 9020-5
 Component location 9020-2 - 9020-4
 Diagnosing malfunctions 9020-6 - 9020-7
 Testing and adjustment 9020-8
 Theory of operation 9020-1
 Disconnect clutch 9020-1
 Drive shafts 9020-1
 Final drive 9020-1
 Parking brake 9020-1
 Splitter housing 9020-1
 Visual inspection 9020-7
Predelivery service I-IV-1 - I-IV-17
 Accessible hardware torque
 values I-IV-17
 Air cleaner I-IV-1

Predelivery service—Continued

Air intake hose	I-IV-2
Alternator-fan compressor	
belt tension	I-IV-6 - I-IV-7
Batteries	I-IV-2
Crankcase oil level	I-IV-3
Engine speeds	I-IV-7 - I-IV-11
Final check	I-IV-17
Final drive housing oil level	I-IV-5
Front idlers, track rollers and	
upper idlers	I-IV-4
Fuel filter	I-IV-2
Fuel tank	I-IV-2
Fuel tank sump	I-IV-3
Hydraulic oil level	I-IV-6
Hydrostatic transmission oil	
level	I-IV-5
Indicator lights and gauges	I-IV-13 - I-IV-14
Light operation	I-IV-14
Lubrication	I-IV-16
Neutral lock lever operation	I-IV-16
Park brake	I-IV-15
Radiator	I-IV-3
Seat operation	I-IV-13
Splitter gearbox oil level	I-IV-4
Steering	I-IV-15
Track tension adjustment	I-IV-11 - I-IV-12
Transmission control	I-IV-15
Pressurizer blowers and switch	1830-32
Pump, engine oil	0407-1 - 0407-2
Pump, engine water	0417-1 - 0417-8
Pump, fuel injection	0413-1 - 0413-3
Pump, fuel transfer	0421-1
Pump, loader hydraulic	3160-1 - 3160-5
Pump transmission	0360-5 - 0360-32
Pump, transmission charge	0360-26 - 0360-27

R

Radiator	0510-1 - 0510-2
Receiver - dryer	1830-24
Recoil spring and track adjuster	0130-16 - 0130-18
Rectifier assembly, alternator,	
16 amp	1672-13 - 1672-14, 1672-17, 1672-20, 1672-23
Rectifier assembly, alternator,	
42 amp	1672-1 - 1672-4, 1672-8 - 1672-10
Refrigerant couplings	1830-30
Regular bucket, loader	3102-3
Regulator and alternator, 16 amp	1672-13 - 1672-24
Regulator and alternator, 42 amp	1672-1 - 1672-12
Regulator controls, air	
conditioning	1830-27
Compressor relief valve	1830-27

Regulatory controls, air conditioning—Continued

Expansion valve	1830-27
Thermostatic temperature control	
switch	1830-28
Relief valve, loader	3160-9 - 3160-10
Reservoir and filters, loader	3160-6 - 3160-7
Reservoir, transmission	0360-89
Return-to-dig circuit testing	9015-36
Return-to-dig function	1675-1
Return-to-neutral linkage	0315-14
Right loader bucket cylinder	3160-17
Ripper	4201-3
Rocker arm assembly	0402-1 - 0402-4, 0409-2
Rollers, track	0130-9 - 0130-11
Rotor assembly, alternator,	
16 amp	1672-13, 1672-18, 1672-21 - 1672-22
Rotor assembly, alternator, 42 amp	1672-1, 1672-5 - 1672-6, 1672-10 - 1672-11
Testing	1672-10 - 1672-11

S

Safety equipment	1806-3
Safety information	I-II-1 - I-II-7
Seat	1821-1 - 1821-7
Side shields, engine	1910-6
Solenoid, starting aid	0505-3
Solenoid switch	0422-1, 0422-9
Special tools:	
Air conditioning system	1899-6
Air conditioning system testing	9035-21
Alternator, regulator and	
charging system wiring	1699-6 - 1699-7
Batteries, supports and cables	1699-5
Camshaft and valve actuating	
means	0499-29 - 0499-30
Clutch disconnect and control	0399-16
Connecting rods and pistons	0499-31
Crankshaft and main bearings	0499-27 - 0499-28
Cylinder block	0499-32 - 0499-33 - 0499-34
Cylinder head and valves	0499-35 - 0499-36
Drive axle housing	0299-3 - 0299-4
Electrical system testing	9035-13
Engine removal and installation	
Engine system testing	9035-3 - 9035-5
Air intake system	9035-5
Basic engine	9035-3
Engine cooling system	9035-4
Engine lubrication system	9035-4
Fuel system	9035-4
Speed control linkage	9035-5
Fuel injection system	0499-37 - 0499-39
Hydraulic system testing	9035-16
Hydrostatic system testing	9035-19