

John Deere 903M, 909M, 953M, 959M (SN.271505-) Feller Buncher Service Repair Manual (TM13376X19)

903M, 909M, 953M, 959M
Tracked Feller Buncher



REPAIR TECHNICAL MANUAL

Tracked models 903M (PIN: 1T0903MXC271505—, 1T0903MX**D271505—);
909M (PIN: 1T0909MX**C271505—, 1T0909MX**D271505—);
953M (PIN: 1T0953MX**C271505—, 1T0953MX**D271505—);
959M (PIN: 1T0959MX**C271505—, 1T0959MX**D271505—);**

TM13376X19 28 JAN 16 (ENGLISH)

For complete service information also see:

909M and 959M Tracked Feller Buncher Diagnostic	TM13233X19
903M and 953M Tracked Feller Buncher Diagnostic	TM13232X19
JDLink (MTG) Technical Support	
Alternators and Starting Motors	
PowerTech 9.0L OEM Diesel Engine Certified Base Engine Repair	
PowerTech 6090 Diesel Engine Level 1 Fuel System with the Denso High Pressure Common Rail (HPCR) Level 1 ECU	CTM385
120 Series Hydraulic Cylinders	CTM120519
COOLANT HEATER SERVICE MANUAL	CTM10090X19



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John Deere Construction and Forestry
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Covers: 903M,1T0903MX**C271505, 1T0903MX**D271505, 909M,1T0909MX**C271505, 1T0909MX**D271505, 953M,1T0953MX**C271505, 1T0953MX**D271505, 959M,1T0959MX**C271505, 1T0959MX**D271505

Type: Service Manual

Language: English

Pages: 400

Format: PDF

Features: Bookmarked, searchable, printable

Compatibility: Windows/Mac/Tablet/Mobile

This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 903M, 909M, 953M, 959M (SN.271505-) Feller Buncher Service Repair Manual (TM13376X19)**

In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

Contents:

- General Information
- Specifications
- Serial Number Location
- Engine Specifications
- Engine Diagnostics
- Engine Tests and Adjustments
- Engine Repair
- Power Train
- Transmission
- Axles
- Differential
- PTO
- Hydraulic System
- Electrical System
- Electrical Tests and Diagnostics
- Wiring Diagram / Schematic
- Ignition and Charging
- Steering
- Brakes
- Wheels
- Operator's Platform
- Body Panels
- Disassembly and Assembly
- Diagnostics, Tests and Adjustments
- Troubleshooting
- and much more...

Please note this manual is in **downloadable PDF format only**. If you have any questions about this product or would like to request sample pages, please contact us and reference the product name or SKU.

Group 0700 - Remove and Install

Hydraulic Pump Damper Drive Remove and Install

Specifications

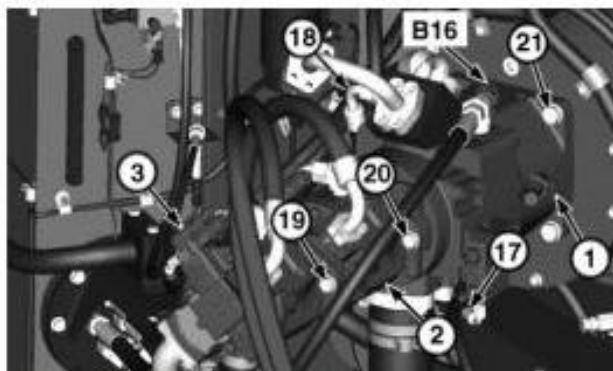
SPECIFICATIONS	
Hydraulic Reservoir Capacity	311 L 82 gal.
Main Hydraulic Pump Assembly Weight (approximate)	146 kg 321 lb.
Hydraulic Pump Damper Cap Screw Torque	57 N·m 42 lb.-ft.
Adapter Plate Cap Screw (30) Torque	46 N·m 34 lb.-ft.
Damper Hub Cap Screw Torque	205 N·m 151 lb.-ft.
Main Hydraulic Pump Cap Screw Torque	320 N·m 236 lb.-ft.

Other Material

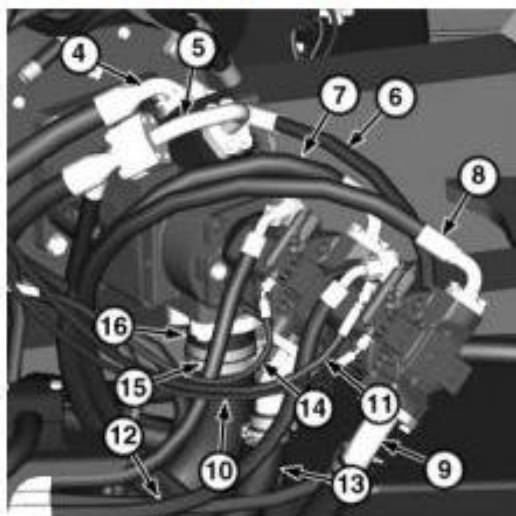
OTHER MATERIAL
Loctite™ 242® Threadlocker (medium strength)

REMOVAL

[1] -



Hydraulic Pumps (right side shown)

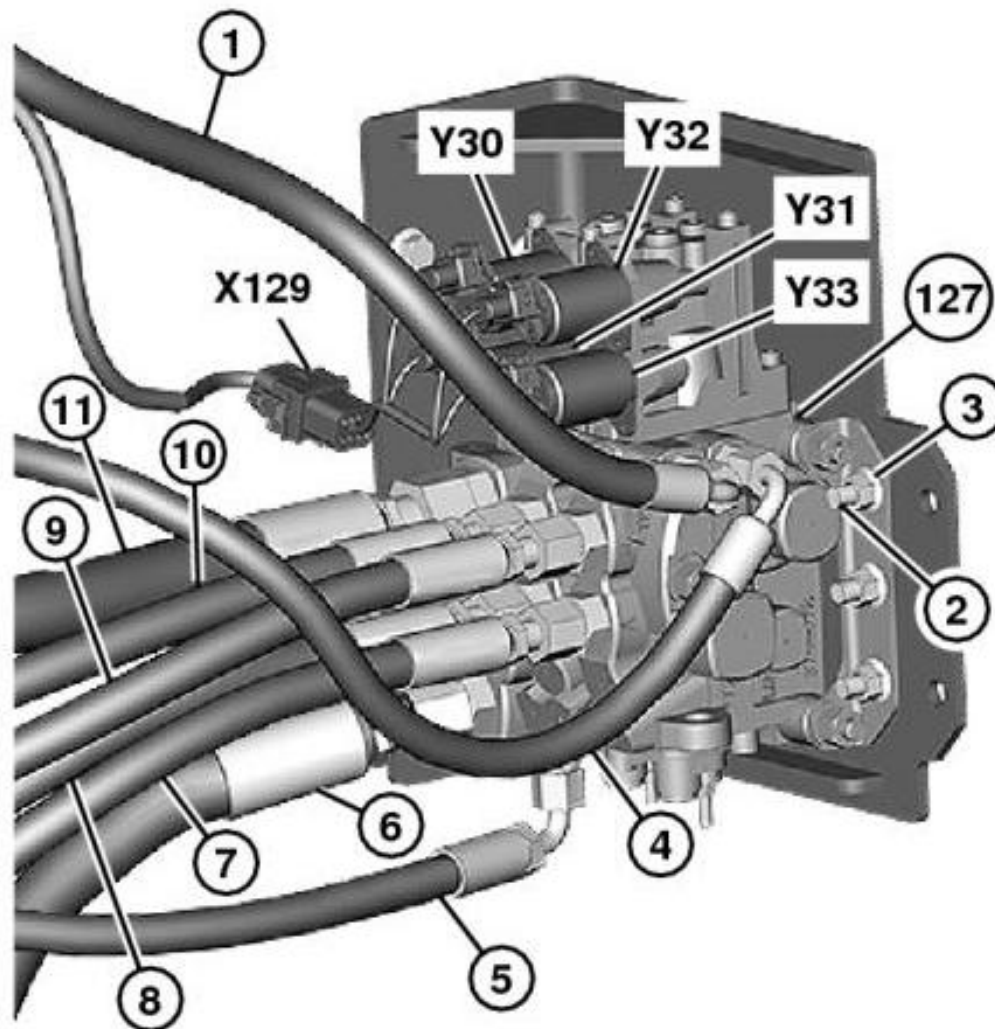


Hydraulic Pumps (left side shown)

Park and prepare machine for service. [See Park and Prepare for Service Safely.](#) (Group 0001.)

LEGEND:

- 1 Main Hydraulic Pump
- 2 Saw Pump
- 3 Attachment Pump
- 4 Main Pump-to-Main Control Valve Inlet and Outlet Valve (port P1) Line
- 5 Main Pump-to-Main Control Valve Port Pump Line
- 6 Main Pump Case Drain-to-Hydraulic Reservoir Line
- 7 Saw Pump-to-Saw Drive Valve Section (port SAW) Line
- 8 Attachment Pump-to-Attachment Valve Line
- 9 Hydraulic Reservoir-to-Attachment Pump Line
- 10 Attachment Pump Regulator-to-Attachment Unloading Valve (port IN) Line
- 11 Attachment Unloading Valve (port OUT)-to-Attachment Pump Regulator Line
- 12 Attachment Pump Case Drain-to-Hydraulic Reservoir Line
- 13 Hydraulic Reservoir-to-Saw Pump Line
- 14 Saw Pump Regulator-to-Saw System Pressure Sensor Line
- 15 Saw Pump Case Drain-to-Hydraulic Reservoir Line
- 16 Hydraulic Reservoir-to-Main Pump Line
- 17 Main Pump-to-Main Control Valve Inlet and Outlet Valve (port PL) Line
- 18 Main Pump-to-Auxiliary Control Valve (port P) Line
- 19 Cap Screw (2 used)
- 20 Cap Screw (2 used)
- 21 Cap Screw (4 used)
- B16 Main Hydraulic Pump Displacement Sensor



Auxiliary Control Valve

LEGEND:

- 1 Auxiliary Control Valve-to-Attachment 1 Valve Section Line (port TP)
- 2 Nut (6 used)
- 3 Cap Screw (6 used)
- 4 Main Control Valve-to-Auxiliary Control Valve Line (port PS)
- 5 Inlet and Outlet Section Main Control Valve-to-Auxiliary Control Valve Line (port LS)
- 6 Main Hydraulic Pump-to-Auxiliary Control Valve Line (port P)
- 7 Auxiliary Control Valve (right extend)-to-Rotary Manifold Line (port 3)
- 8 Auxiliary Control Valve (left extend)-to-Rotary Manifold Line (port 5)
- 9 Auxiliary Control Valve (right retract)-to-Rotary Manifold Line (port 2)
- 10 Auxiliary Control Valve (left retract)-to-Rotary Manifold Line (port 4)
- 11 Auxiliary Control Valve-to-Swing Motor Crossover Manifold Line (port T)
- 127 Auxiliary Control Valve
- X129 Leveler Control Valve Harness Connector
- Y30 Leveler Left Extend Solenoid
- Y31 Leveler Left Retract Solenoid
- Y32 Leveler Right Extend Solenoid
- Y33 Leveler Right Retract Solenoid

Install identification tags and disconnect hydraulic lines (1 and 4–11). Close all openings using caps and plugs. [See Leveler System Line Identification](#). (Group 9025-10.)

[6] - Disconnect leveler control valve harness connector (X129).



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