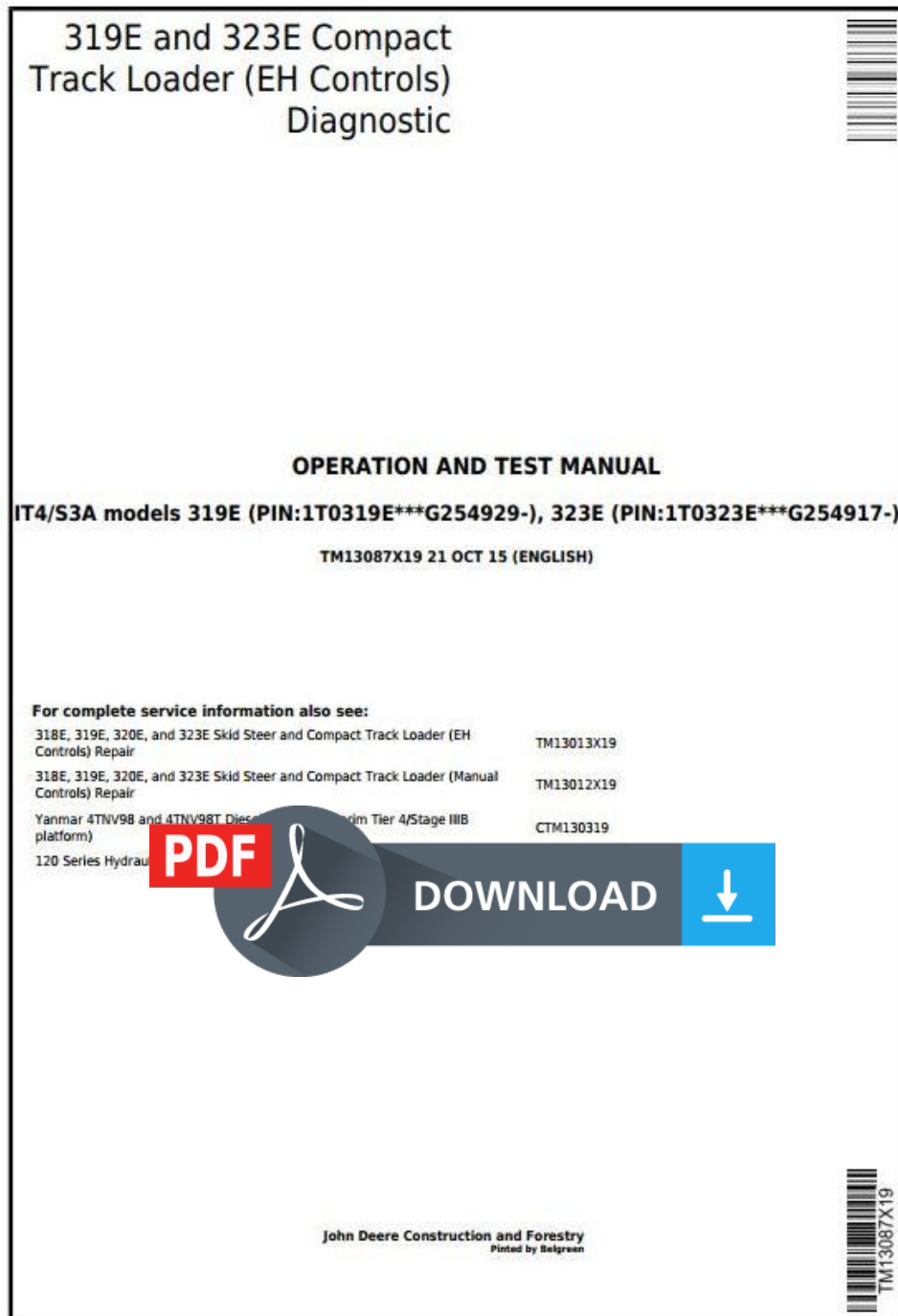


John Deere 990 Hay and Forage Rotary Platform Diagnostic and Tests Service Manual (tm1830)



Type: Service Manual

Language: English

Pages: 213

Format: PDF

Features: Bookmarked, searchable, printable

Compatibility: Windows/Mac/Tablet/Mobile

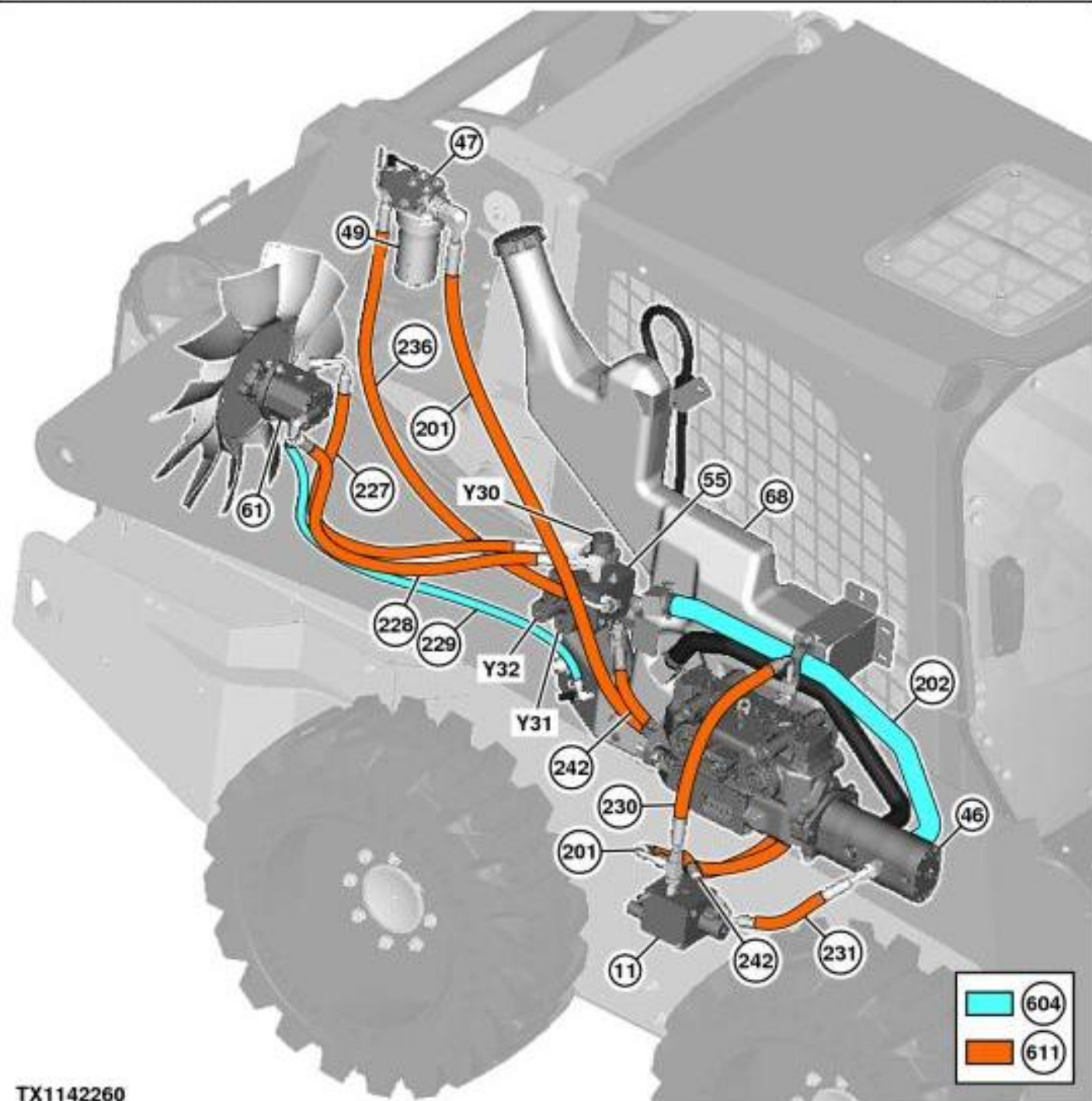
This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 990 Hay and Forage Rotary Platform Diagnostic and Tests Service Manual (tm1830)**

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
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- 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.

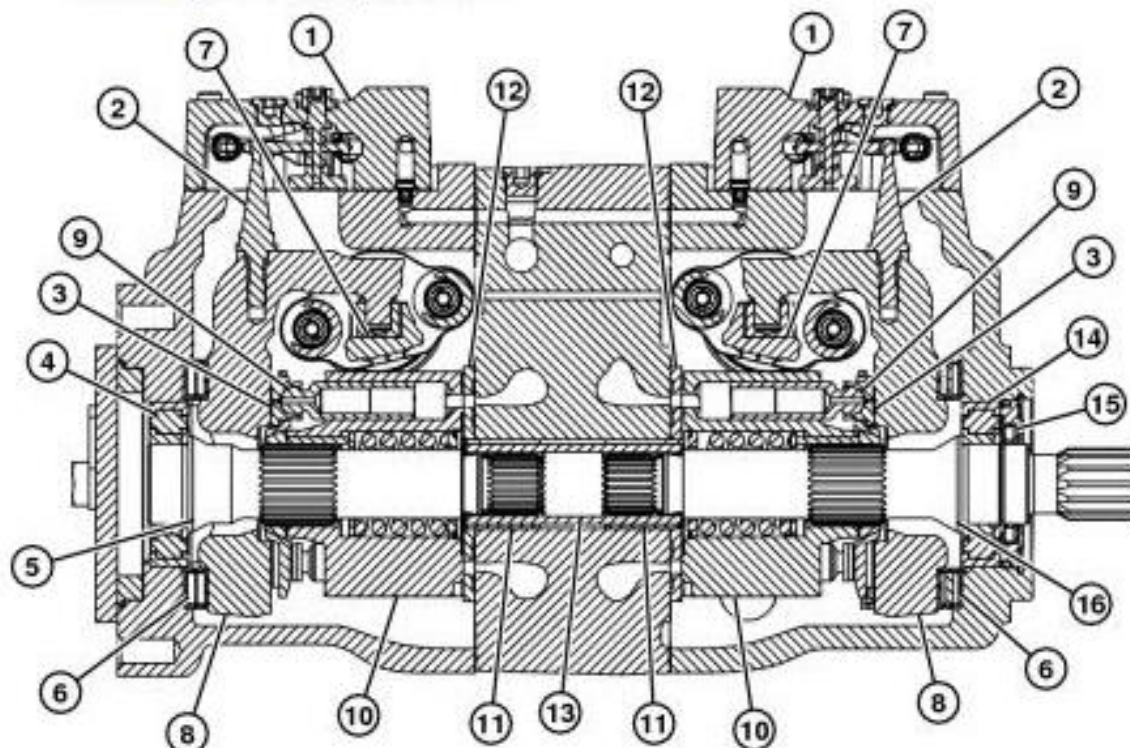


TX1142260

Hydraulic Fan Component Location (S.N. -269401) (reversing fan)**LEGEND:**

- 11 Hydrostatic Control Valve
- 46 Charge Pump
- 47 Hydraulic Oil Filter Manifold
- 49 Hydraulic Oil Filter
- 55 Reversing Fan Valve (if equipped)
- 61 Hydraulic Fan Motor
- 68 Hydraulic Oil Reservoir
- 201 Hydraulic Oil Filter Manifold-to-Hydrostatic System Line
- 202 Hydraulic Oil Reservoir-to-Charge Pump and High Flow Pump (if equipped) Line
- 227 Charge Oil From Hydraulic Fan Motor
- 228 Charge Oil to Hydraulic Fan Motor
- 229 Hydraulic Fan Motor Case Drain-to-Hydraulic Oil Reservoir Line
- 230 Hydrostatic Control Valve (two speed, if equipped)-to-Hydrostatic System Line
- 231 Charge Pump-to-Hydrostatic Control Valve (two speed, if equipped) Line
- 236 Reversing Fan Valve-to-Hydraulic Oil Filter Manifold Line
- 242 Charge Pump-to-Reversing Fan Valve (if equipped) Line

132	Left Reverse Hydrostatic Motor Port
133	Right Forward Hydrostatic Motor Port
134	Right Reverse Hydrostatic Motor Port
137	Hydrostatic Pump Case Drain Port
143	Park Brake Port
157	From Hydraulic Oil Filter Line
Y5	Park Brake Solenoid
Y15	Right C1 Hydrostatic Pump Solenoid
Y16	Right C2 Hydrostatic Pump Solenoid
Y17	Left C2 Hydrostatic Pump Solenoid
Y18	Left C1 Hydrostatic Pump Solenoid



TX1128148

Hydrostatic Pump (neutral position)**LEGEND:**

1	Electric Displacement Control (EDC) (2 used)
2	Swash Plate Feedback Pin (2 used)
3	Slipper (18 used)
4	Rear Shaft Bearing
5	Rear Shaft
6	Swash Plate Bearing (2 used)
7	Servo Piston (2 used)
8	Swash Plate (2 used)
9	Piston (18 used)
10	Cylinder Block (2 used)
11	Center Shaft Bearing (2 used)
12	Valve Plate (2 used)
13	Shaft Coupling
14	Front Shaft Bearing
15	Shaft Seal
16	Front Shaft

Design

Two hydrostatic closed-loop axial piston pumps convert input torque to hydraulic power. Tandem design powers two independent drive trains for dual-path propel applications. Two-piece input shaft transmits rotational force to cylinder block. A splined shaft coupling (13) connects front and rear shafts (16 and 5). Shafts are supported by front, center, and rear shaft bearings (14, 11, and 4). Splines connect each shaft to a cylinder block (10). Shaft seal (15) prevents leakage where shaft exits pump housing.

Spinning cylinder blocks (10) each contain nine reciprocating pistons (9). Each piston has a brass slipper (3) connected at one end by a ball joint. Block spring, ball guide, and slipper retainer hold slippers to swash plate (8). Reciprocating movement of



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