

# John Deere 290GLC Excavator Diagnostic, Operation and Test Service Manual (TM12172)

824K 4WD Loader (SN.  
641970—664099) with  
Engines 6135HDW01 (T3),  
6135HDW03 (S2)  
Diagnostic



## OPERATION AND TEST MANUAL

**4WD Loaders models 824K (PIN: DW824K\*\*\*C641970—664099;  
1DW824K\*\*\*D641970—664099)**

TM12114 22 FEB 16 (ENGLISH)

**For complete service information also see:**

824K 4WD Loader (SN. 641970—664099) with Engines 6135HDW01 (T3),  
6135HDW03 (S2) TM12116

JDLINK (MTG) Technical Manual TM114519

TeamMate II 1200 Planetary Axles CTM43

PowerTech, Power  
Engine Repair

PowerT  
Files



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**Type:** Service Manual

**Language:** English

**Pages:** 1266

**Format:** PDF

**Features:** Bookmarked, searchable, printable

**Compatibility:** Windows/Mac/Tablet/Mobile

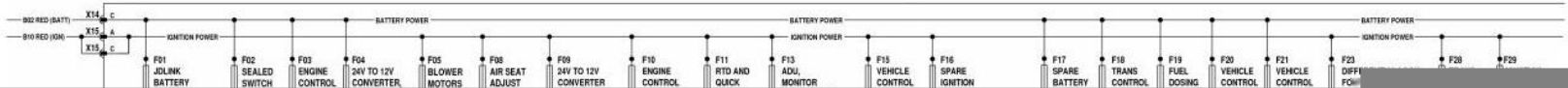
This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 290GLC Excavator Diagnostic, Operation and Test Service Manual (TM12172)**

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.

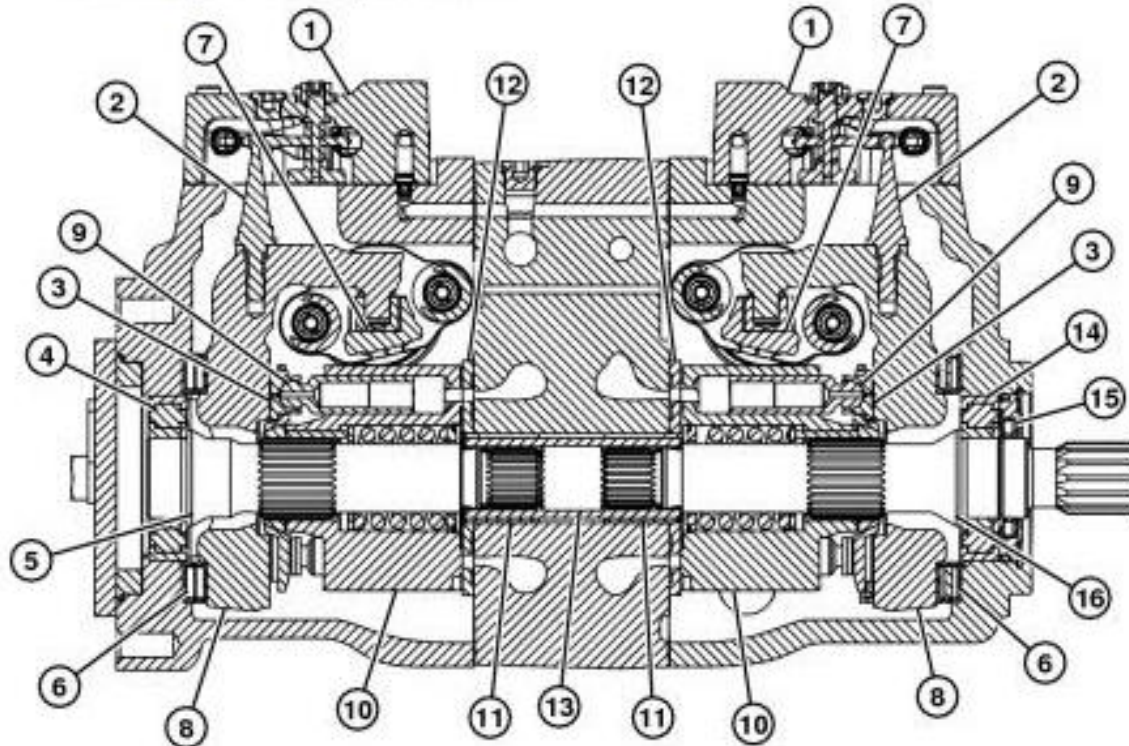
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Please note this manual is in **downloadable PDF format only**. If you have any questions about this product or would like to request sample pages, please contact us and reference the product name or SKU.



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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for your reading.  
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to get more information.