

John Deere 655K Crawler Loader Diagnostic, Operation and Test Service Manual (TM12720)

655K Crawler Loader Diagnostic

OPERATION AND TEST MANUAL

Loader models 655K (PIN: 1T0655KX_ E233169—)

TM12720 04 MAR 16 (ENGLISH)

For complete service information also see:

655K Crawler Loader (PIN: 1T0655KX_ E233169-)	TM12721
JDLink (MTG) Technical Manual	TM114519
120 Series Hydraulic Cylinders	CTM120519
6068 PowerTech OEM Diesel Engines Below 130kW(174HP) (Interim Tier 4) Level 23 ECU	CTM104619



John Deere Construction and Forestry

Type: Service Manual

Language: English

Pages: 1132

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 655K Crawler Loader Diagnostic, Operation and Test Service Manual (TM12720)**

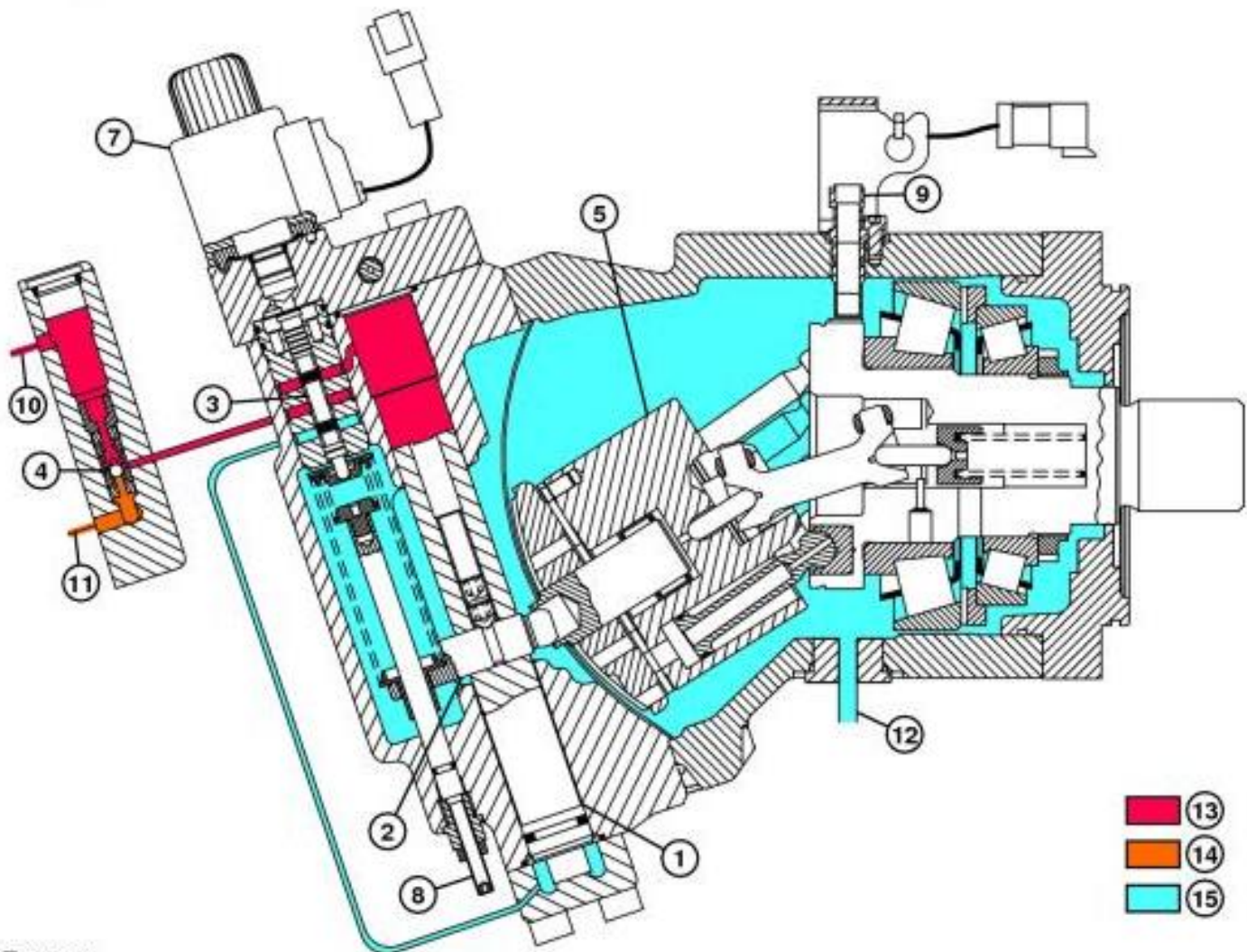
In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

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.

Hydrostatic Motor Operation



T205062

Hydrostatic Motor Operation - Reverse (slow speed)

LEGEND:

- | | |
|----|---|
| 1 | Servo Piston |
| 2 | Feedback Pin |
| 3 | Motor Displacement Control Valve (MDCV) |
| 4 | Ball Shuttle |
| 5 | Rotating Group |
| 7 | Motor Shift Solenoid |
| 8 | Control Spring Adjusting Screw |
| 9 | Motor Speed Sensor |
| 10 | Closed Loop High Pressure |
| 11 | Closed Loop Charge Pressure |
| 12 | Case Drain Oil |
| 13 | High Pressure Oil |
| 14 | Charge Oil |
| 15 | Return Oil |

Two hydrostatic motors are mounted to the rear of the machine frame. An internal shaft connects each motor to the final drive. The motors are bent axis, variable displacement type with an internal electronic displacement control.

The synchronizing shaft with spherical rollers synchronizes the rotation of the output shaft and the cylinder block. The ball end of each piston runs in a socket bushing pressed into the output shaft. No other parts are used to connect the pistons to the shaft.

The motor displacement unit consists of a servo piston (1), a motor displacement control valve (MDCV) (3) assembly and a



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