

John Deere 310J Backhoe Loader (SN: 159760-) Diagnostic, Operation and Test Service Manual (TM10846)





310J Backhoe Loader
Diagnostic

OPERATION AND TEST MANUAL
Backhoe Loaders models 310J (S.N. 159760-)
10846 27 DEC 15 (ENGLISH)

For complete service information also see:

JDLINK (MTG) Technical Manual	TM114519
310J Backhoe Loader Repair (S.N. 159760-)	TM10847
Alternators and Starting Motors	CTM77
PowerTech E 4.5 and 6.8L Diesel Engines Level 16 Electronic Fuel System With Denso HPCR	CTM502
PowerTech 4.5L & 6.8L Diesel Engines Level 12 Electronic Fuel System With Stanadyne	CTM331
Super Caddy Oil	
120 Series Hydraulic Cylinders	
125 Series Hydraulic Cylinders	
PowerTech 4.5L & 6.8L Diesel Engines Tier 1/Stage I, Tier 2/Stage II, Tier 3/Stage IIIA, Tier 3/Stage IIA Tier 3/Stage III, (Base Engine)	CTM104
100 Series Hydraulic Cylinders	CTM103519
JDLINK/ZXLINK Machine Monitoring System	CTM10006

John Deere Construction and Forestry
Printed by Belgreen



Covers: 310J,(SN:159760-)

Type: Service Manual

Language: English

Pages: 816

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 310J Backhoe Loader (SN: 159760-) Diagnostic, Operation and Test Service Manual (TM10846)**

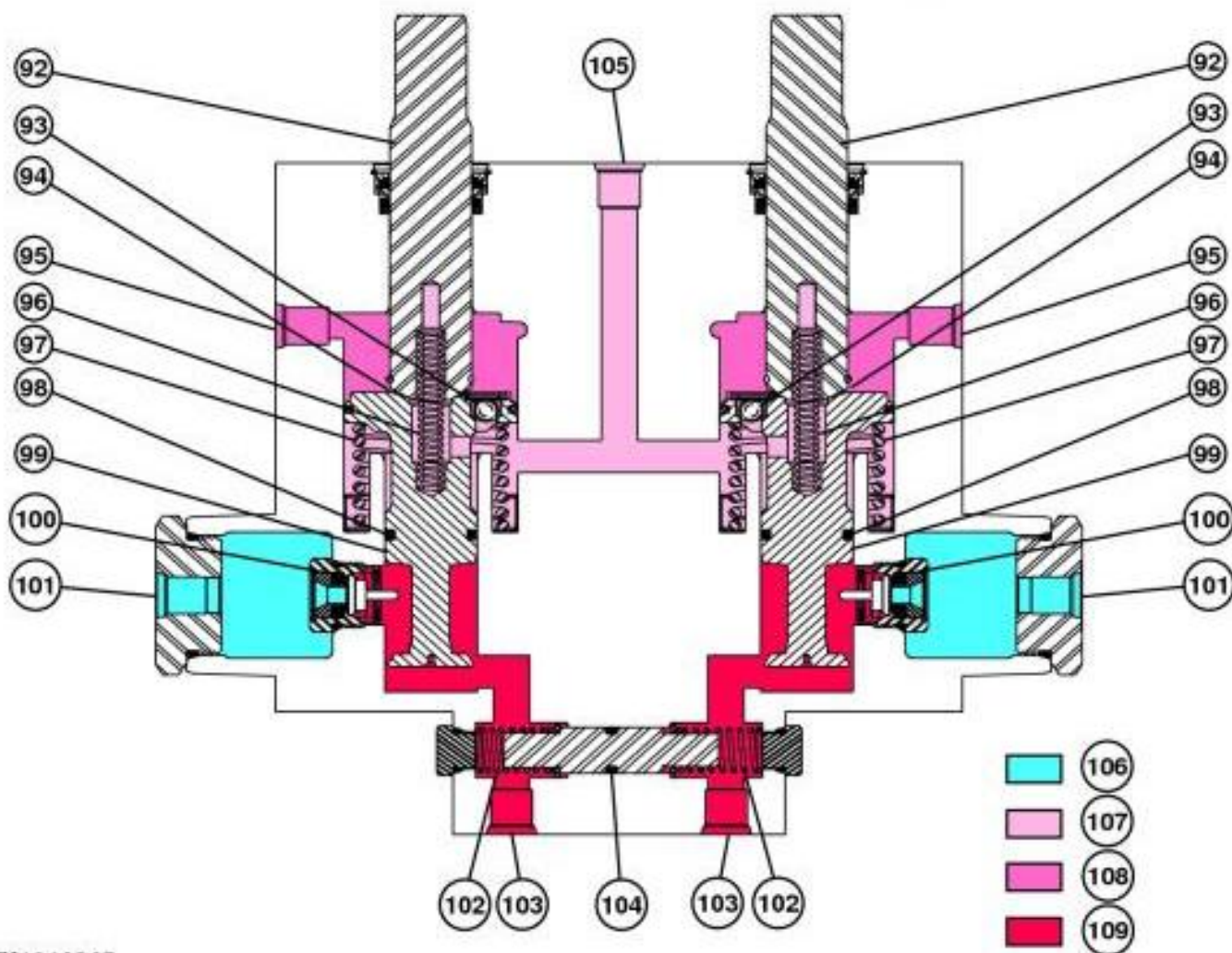
In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

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.

MICO Power Boost Brake Valve—Both Pedals Applied Position



TX1016245

Both Pedals Applied - Engine On

LEGEND:

92	Push Rod (Brake Pedal) (2 used)
93	Check Ball (2 used)
94	Land (2 used)
95	Inlet Port (2 used)
96	Spring (2 used)
97	Spring (2 used)
98	Seal (2 used)
99	Piston (2 used)
100	Tip Valve Assembly (2 used)
101	Master Hydraulic Reservoir Port
102	Spring (2 used)
103	Brake Port (2 used)
104	Equalization Spool
105	Transmission Reservoir Port
106	Pressure Free Oil
107	Low Pressure Oil
108	Medium Pressure Oil
109	High Pressure Oil

Oil (108) from the transmission enters ports (95) separately and flows through push rod-to-piston land area (94) to transmission reservoir port (105). Both pedals are depressed forcing springs (96) to compress. Oil flowing through land areas (94) becomes restricted. Oil flow moves to close check balls (93). Restricted oil flow and lands (94) causes pressure to act against the large diameter of pistons (99). Pistons (99) move to compress springs (97). As more push rod displacement occurs, tip valve assemblies (100) close, stopping brake system oil from moving to reservoir or atmosphere pressure. Additional movement of the push rods and pistons (99) forces brake system oil to the brakes causing brakes to fill through ports (103).



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to get more information.