

# John Deere 410J Backhoe Loader (S.N.161617-) Diagnostic, Operation and Test Service Manual (TM10850)

870G, 870GP, 872G, and  
872GP Motor Graders (SN.  
F656526—678817) Repair



## REPAIR TECHNICAL MANUAL

**FT4 models 870G, 870GP, 872G, 872GP (PIN: 1DW87\*G\*\*\*F656526—678817)**

TM13029X19 10 MAR 16 (ENGLISH)

**For complete service information also see:**

870G, 870GP, 872G, and 872GP Motor Graders (SN. F656526—678817)  
Diagnostic

PDF



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**Covers:** 410J,161617-)

**Type:** Service Manual

**Language:** English

**Pages:** 814

**Format:** PDF

**Features:** Bookmarked, searchable, printable

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

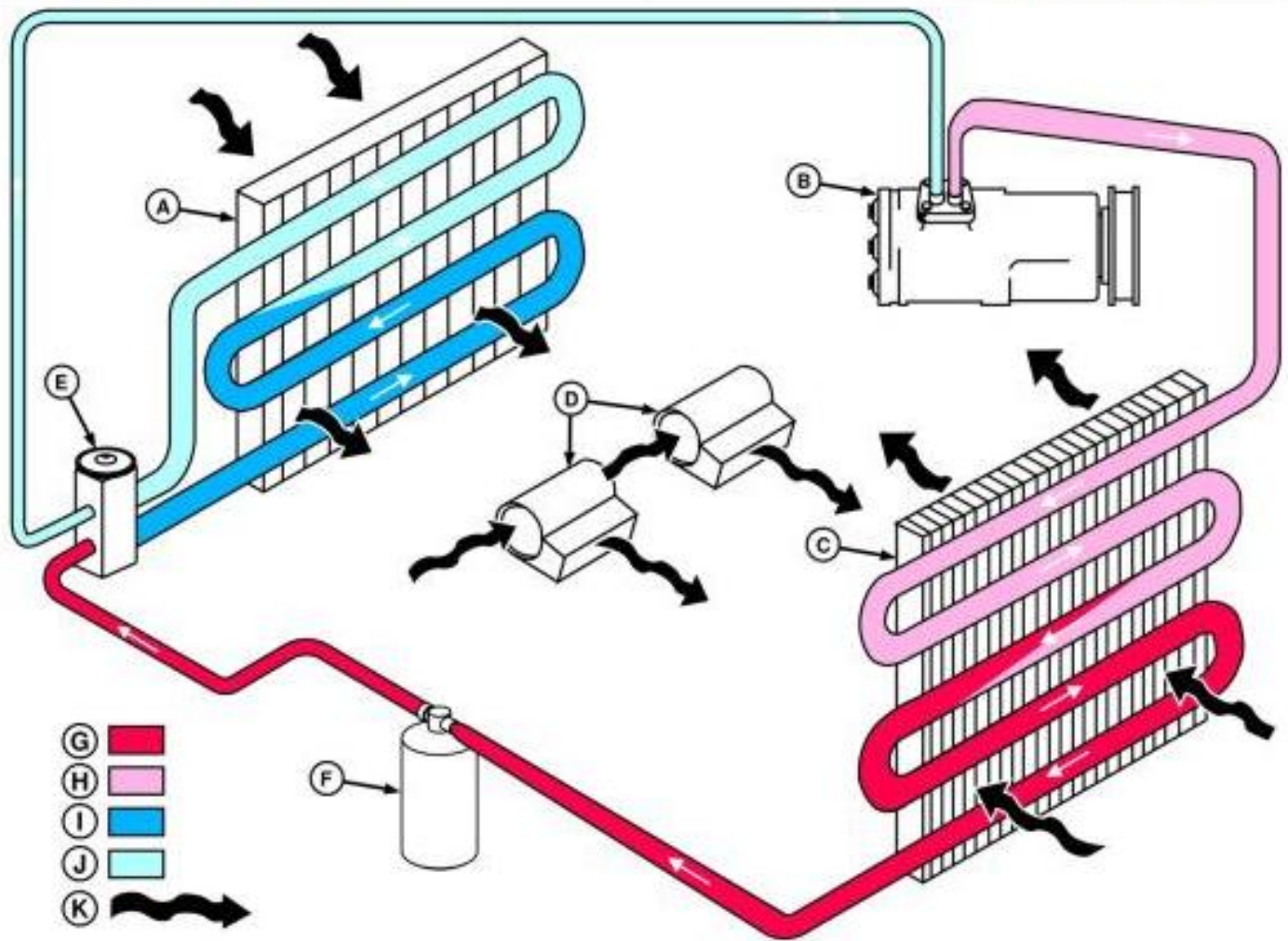
This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 410J Backhoe Loader (S.N.161617-) Diagnostic, Operation and Test Service Manual (TM10850)**

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
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- Wiring Diagram / Schematic
- Ignition and Charging
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- 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.



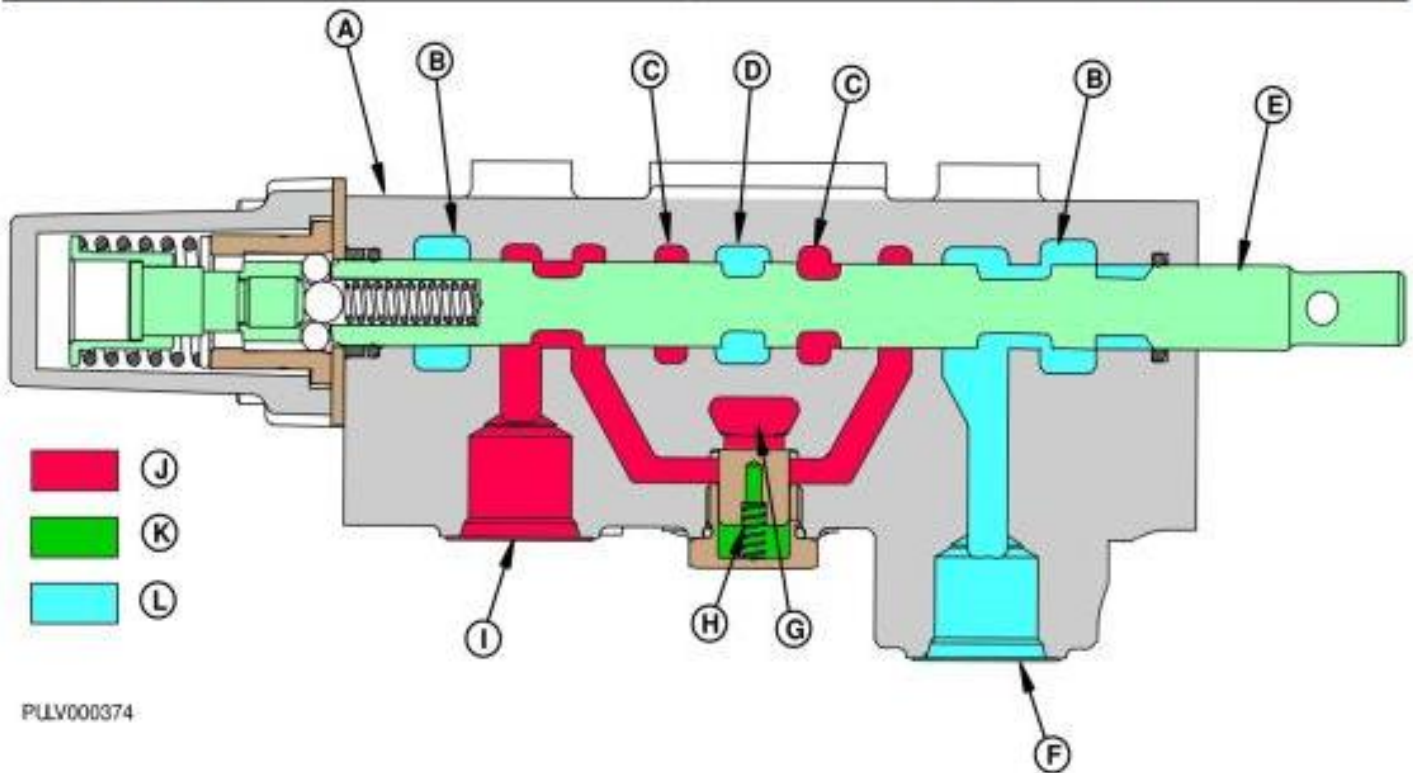
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**AC System Cycle**

**LEGEND:**

- A Evaporator
- B Compressor
- C Condenser
- D Circulation Fan Motors
- E Expansion Valve
- F Receiver-Dryer
- G High Pressure Liquid
- H High Pressure Gas
- I Low Pressure Liquid
- J Low Pressure Gas
- K Air Flow

The compressor (B) draws  
(H). This causes the tem



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### Dual Mid-Mount Bucket SCV

#### LEGEND:

A	Valve Housing
B	Sump Passage
C	Inlet Passages
D	Return Pressure Passage
E	Spool
F	Retract Port
G	Pressure Inlet Passage
H	Load Check
I	Extend Port
J	System Pressure Oil
K	Trapped Oil
L	Return Oil
M	Bucket SCV Extend Port (Regenerative)
N	Bucket SCV Retract Port
O	Lift SCV Retract Port
P	Lift SCV Extend Port (Float)

When the spool (E) moves out, the inlet passages (C) are blocked, preventing fluid flow out return pressure passage (D). This prevents fluid flow to the rear selective control valve.

With the spool valve out and the inlet passages (C) blocked, pressure rises at the pressure inlet passage (G). Pressure inlet passage (G) is simultaneously connected to extend port (I), allowing pressure inlet passage (G) to open load check (H) and allow oil flow to extend port (I). The load check (H) will keep higher pressure oil in the extend or retract ports (I or F) from back-flowing into the pressure inlet passage (G). With the spool in this position, the sump passage (B) is connected with retract port (F) all



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