John Deere 459s, 559s Silage Special; 459, 559 Round Balers All Inclusive Technical Manual (TM121119)

Covers: 459,459,559,559

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This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 459s, 559s Silage Special; 459, 559 Round Balers All Inclusive Technical Manual (TM121119)**

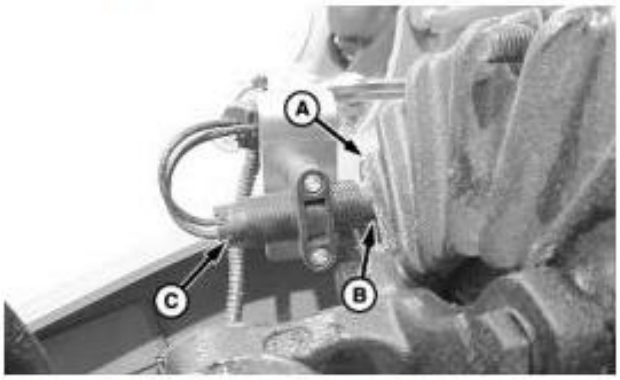
In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

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.

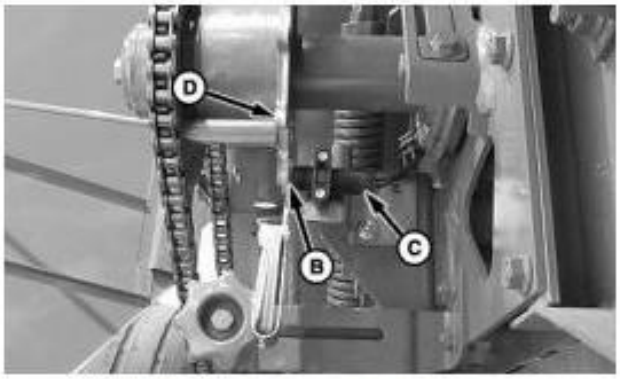
Adjust PTO and Pickup Slip Clutch Alert Sensors (MegaWide™ Plus and MegaTooth™ Pickups)



LEGEND:

A	PTO Clutch Fins
B	Clearance
C	Sensor
D	Tone Wheel

PTO Drive Slip Clutch Alert Sensor Shown



Pickup Slip Clutch Alert Sensor Shown

Clearance between sensor (C) and PTO clutch fins (A) or tone wheel (D) must be within specification. Use feeler gauge or washers at proper thickness can be useful tools for adjusting sensor clearance.

Item	Measurement	Specification
End of Sensor-to-PTO Slip Clutch Fin (A)	Clearance	2 ± 1 mm (0.080 ± 0.040 in.)
End of Sensor-to-Tone Wheel Tooth (D)	Clearance	4 ± 1 mm (0.16 ± 0.04 in.)

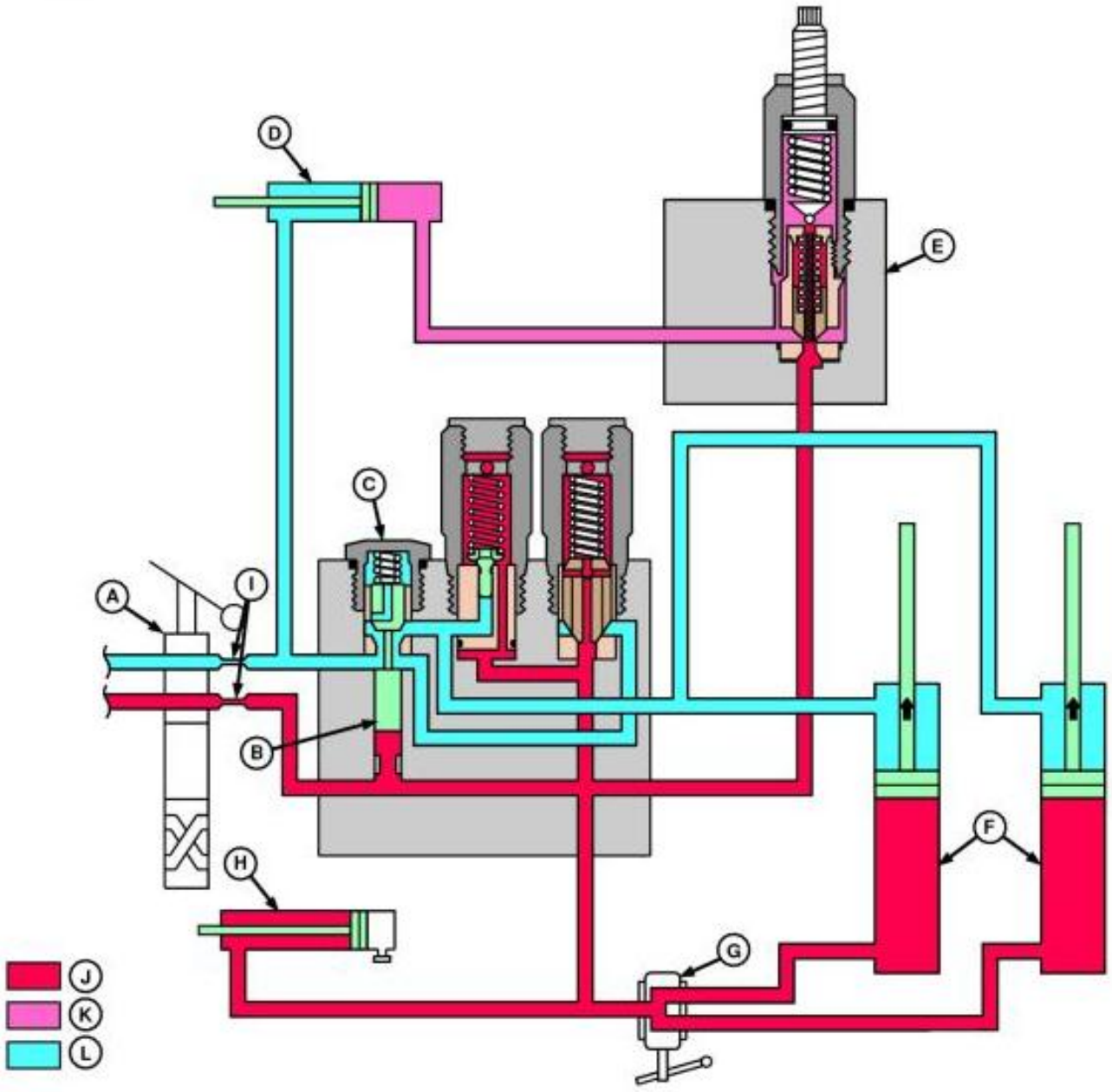
Verify Operation and Adjustment of Sensors

LEGEND:

A	Clutch Fins
B	Wheel

PTO Sensor Shown

Opening Gate



Hydraulic Diagram—Opening the Gate

LEGEND:

A	Tractor SCV
B	Pilot Piston
C	Check Valve
D	Optional Bale Ramp Cylinder
E	Optional Bale Ramp Regulator Valve
F	Tension/Gate Cylinders
G	Gate Lock Valve
H	Take-Up Arm Cylinder
I	Orifices
J	High Pressure Oil
K	Medium Pressure Oil
L	Return Oil

Moving tractor SCV lever to open gate allows pressurized oil (J) from tractor to flow to gate lock valve (G). With gate lock valve in UNLOCK position, pressurized oil flows to piston end of tension/gate cylinders (F). Pressurized oil also causes pilot piston (B) to open poppet in check valve (C). Opening of check valve poppet allows oil from rod end of tension/gate cylinders to flow back to tractor. Pressurized oil will then force gate cylinders to extend (arrows), opening gate.

At same time, pressurized oil flows to take-up arm cylinder (H) causing cylinder to retract. Take-up arm cylinder provides