

John Deere 9650 STS (SN.-695500) , 9750 STS (SN.-695600) Combines Diagnostic Service Manual (tm1902)

9650 STS Combines (000001-695500), 9750 STS Combines (000001-695600) Diagnostic

DIAGNOSIS AND TESTS MANUAL

Combines models 9650STS, 9750STS

TM1902 05 OCT 15 (ENGLISH)

For complete service information also see:

Starfire Real Time Kinematic (RTK) Base Station Diagnosis and Tests	TM2820
9650 STS Combines (000001-695500), 9750 STS Combines (000001-695600) Repair	TM1901
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John Deere Agriculture

Covers: 9650STS,695500),9750STS,695600)

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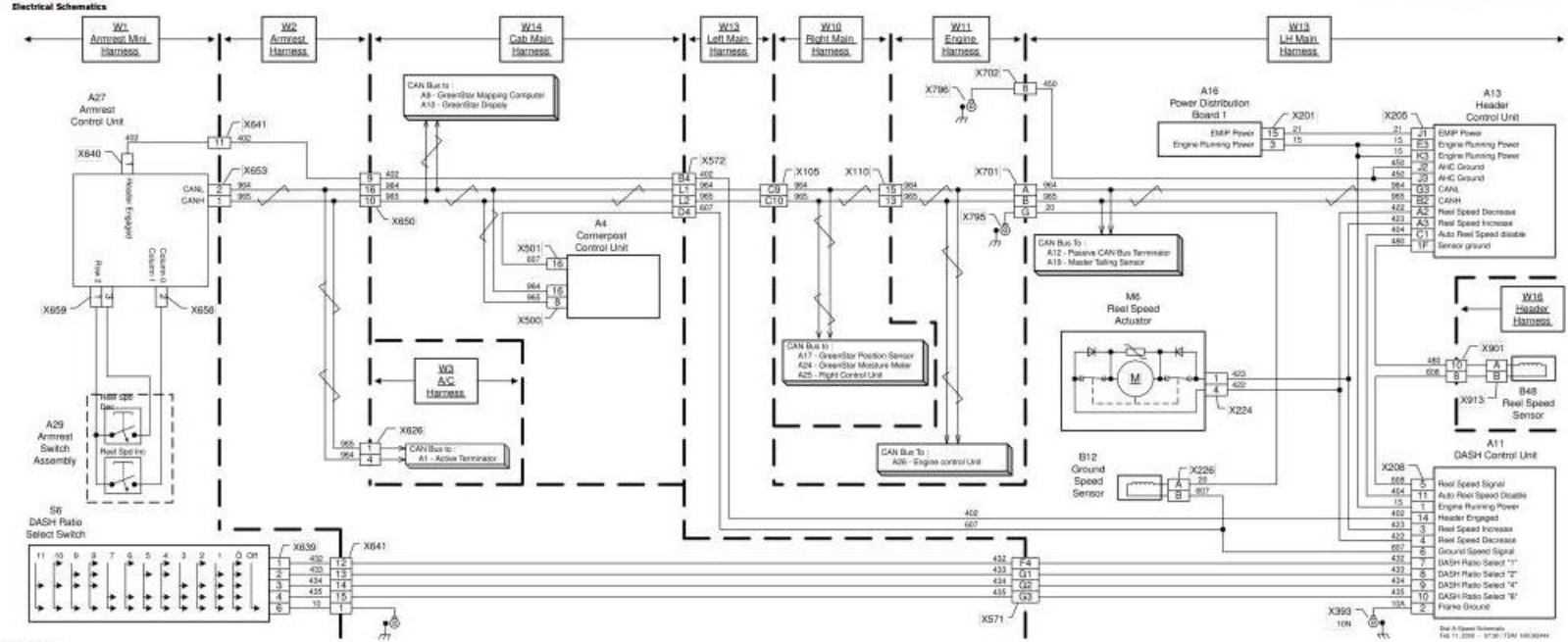
This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 9650 STS (SN.-695500) , 9750 STS (SN.-695600) Combines Diagnostic Service Manual (tm1902)**

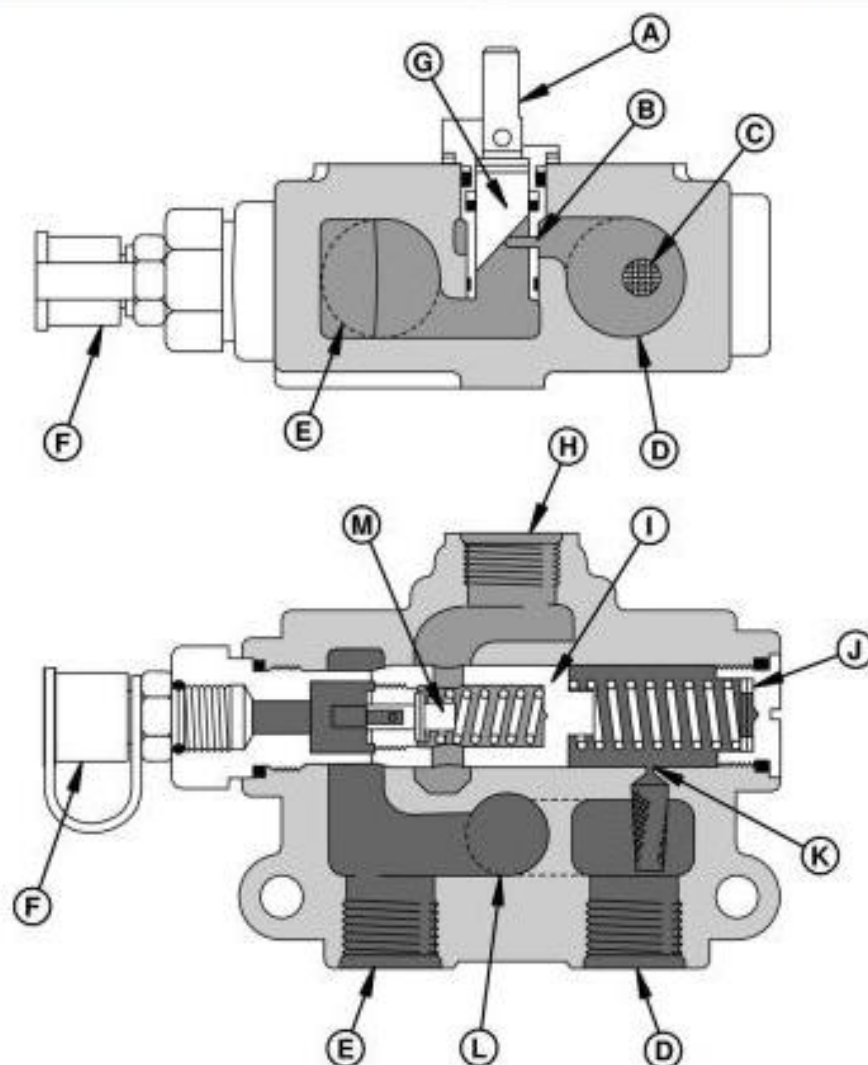
In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

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
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- Operator's Platform
- Body Panels
- Disassembly and Assembly
- Diagnostics, Tests and Adjustments
- Troubleshooting
- and much more...

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Reel Drive Flow Control Valve

LEGEND:

A	Control Shaft
B	Metering Slot
C	Wire Mesh Screen
D	Work Port (PRI)
E	Inlet Port (IN)
F	Diagnostic Receptacle (B2)
G	Metering Valve
H	Return Port (OUT)
I	Compensator Spool
J	Shim Washers
K	Pressure Sensing Passage
L	Metering Plug Bore
M	Relief Valve Poppet

The reel drive system is an open center hydraulic circuit with a fixed displacement pump. Pressurized oil from the reel drive pump enters the flow control valve through the inlet port (E), where the metering valve (G) divides it into work flow (to the reel drive motor) and return flow (to reservoir). The operator controls the amount of work flow by opening and closing the metering valve.

The compensator spool (I) inside the flow control valve responds to the setting of the metering valve (G) by shifting to the right and opening a path to the return port (H). This allows the excess oil that is not needed to turn the reel drive motor to return to reservoir. Open center pressure is determined by the strength of the compensator spool spring and the number of shim washers (J). The pressure at the inlet port (E) will always equal the pressure at the work port (D), plus the spring pressure.

How far the compensator spool shifts is determined by the setting of the metering valve. When the flow control valve is set to



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