FARMALL® 75C
Efficient Power
Tractor

PIN ZDAL00012 and above

SERVICE MANUAL

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CASE IH AGRICULTURE

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Drawbars and towing hitches - General specification

Type	With separate position and draft control, mixed position/draft control function, draft sensitivity control and float function
Control	Through two independent levers
Lift sensitivity adjustment	–
Drop rate adjustment	–
Single-acting cylinder Nominal bore and stroke Displacement volume	 **90 mm (4 in)x 117 mm (5 in)** **750 cm³**
Calibration of pressure regulating valve	**190 - 195 bar (2755 - 2828 psi)**
Calibration of cylinder safety valve	**220 - 225 bar (3190 - 3262 psi)**
Type Category Draft control	Three point linkage I and II By means of top link
Lift capacity at ball ends Lift capacity with center of gravity at **610 mm (24 in)** from the ball ends	**2192 kg (4833 lb)** **1662 kg (3664 lb)**
Maximum stroke of lower link arms With vertical tie rods completely extended	**636 mm (25 in)** **520 mm (20 in)**

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K-001	R1	Switched service relay	**Wire harnesses - Electrical schematic sheet 19 (55.100)**
K-002	R2	Position lights circuit relay	**Wire harnesses - Electrical schematic sheet 19 (55.100)**
K-003	R3	Rear PTO relay 2	**Wire harnesses - Electrical schematic sheet 03 (55.100)**
K-008	R8	Rear PTO relay 1	**Wire harnesses - Electrical schematic sheet 03 (55.100)**
K-009	R9	Starting enable relay	**Wire harnesses - Electrical schematic sheet 03 (55.100)**
K-010	R10	Low beam relay	**Wire harnesses - Electrical schematic sheet 19 (55.100)**
K-011	R11	High beam relay	**Wire harnesses - Electrical schematic sheet 19 (55.100)**
K-012	R12	Reverse gear alarm relay	**Wire harnesses - Electrical schematic sheet 08 (55.100)**
K-013	R13	Fuel heater relay	**Wire harnesses - Electrical schematic sheet 17 (55.100)**
K-014	R14	**30 A** socket circuit relay	**Wire harnesses - Electrical schematic sheet 09 (55.100)**
K-015	R15	PTO lamp relay	**Wire harnesses - Electrical schematic sheet 03 (55.100)**
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K-017	R17	3rd function relay (for front loader tool)	**Wire harnesses - Electrical schematic sheet 23 (55.100)**

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3763-Level 2 monitoring - sensor supply voltage too low

Control Module : ECU

NOTE: *When the cause of the error code has been rectified, clear the error code and test the system for normal operation.*

NOTE: *Check alternator output voltage. Troubleshoot charging system before proceeding.*

Cause:
The engine control unit (**ECU**) also provides power at **5 V** for the sensors. This **5 V** supply is monitored to ensure it remains within a certain range. The **ECU** monitors the voltage against predetermined lower and upper thresholds.

Possible failure modes:

1. Faulty wiring.
2. Faulty connectors
3. Defective engine control unit (**ECU**)

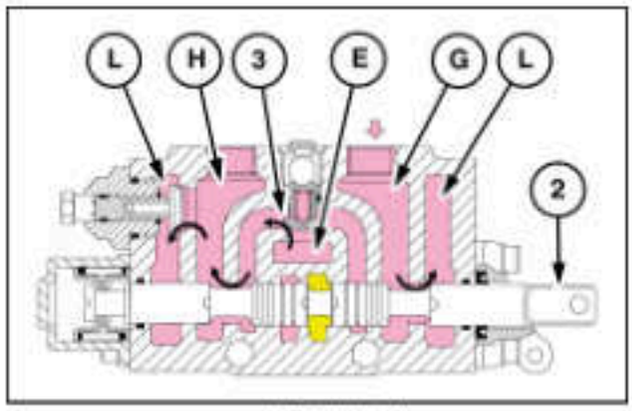
Solution:

1. Before proceeding clear the error code with the approved diagnostic equipment. Run the tractor under normal conditions and retest.
   A. If the error code is not indicated, check that the system is operating correctly.
   B. If the fault is still present, continue to step **2**
2. Check for other engine sensor related error codes.
   A. If other engine sensor related error codes are displayed, continue to these tests.
   B. If no other engine sensor related error codes are displayed, continue to step **3**
3. Check for **12 V**
   A. Turn the ignition key switch ON. Measure voltage between connector
      . **X-937** , pin 1 (RD/BK) and ground
      X-937 pin 3 (D/YE) and ground
      X-937 pin 5 (RD/YE) and ground
      X-937 pin 28 (BK/WH) and ground
      If the voltage indicated is not approximately **12 Volts**, Repair or replace wiring harness as needed.
   B. If the **ECU** supply voltage is okay, download the correct level of software.
      If the fault is still present, Remove and replace the **ECU**.

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Lowering

On pushing back the control lever (located in the cab) the stem **(2)** will shift to the position indicated in Fig. **4**. The oil contained in the cylinder, pressurized by the weight of the lifted implement, will flow to the exhaust **(L)** by way of line **(G)**, while the entire flow from the pump is also conveyed to the exhaust **(L)** through the check valve **(3)** and line **(H)**.



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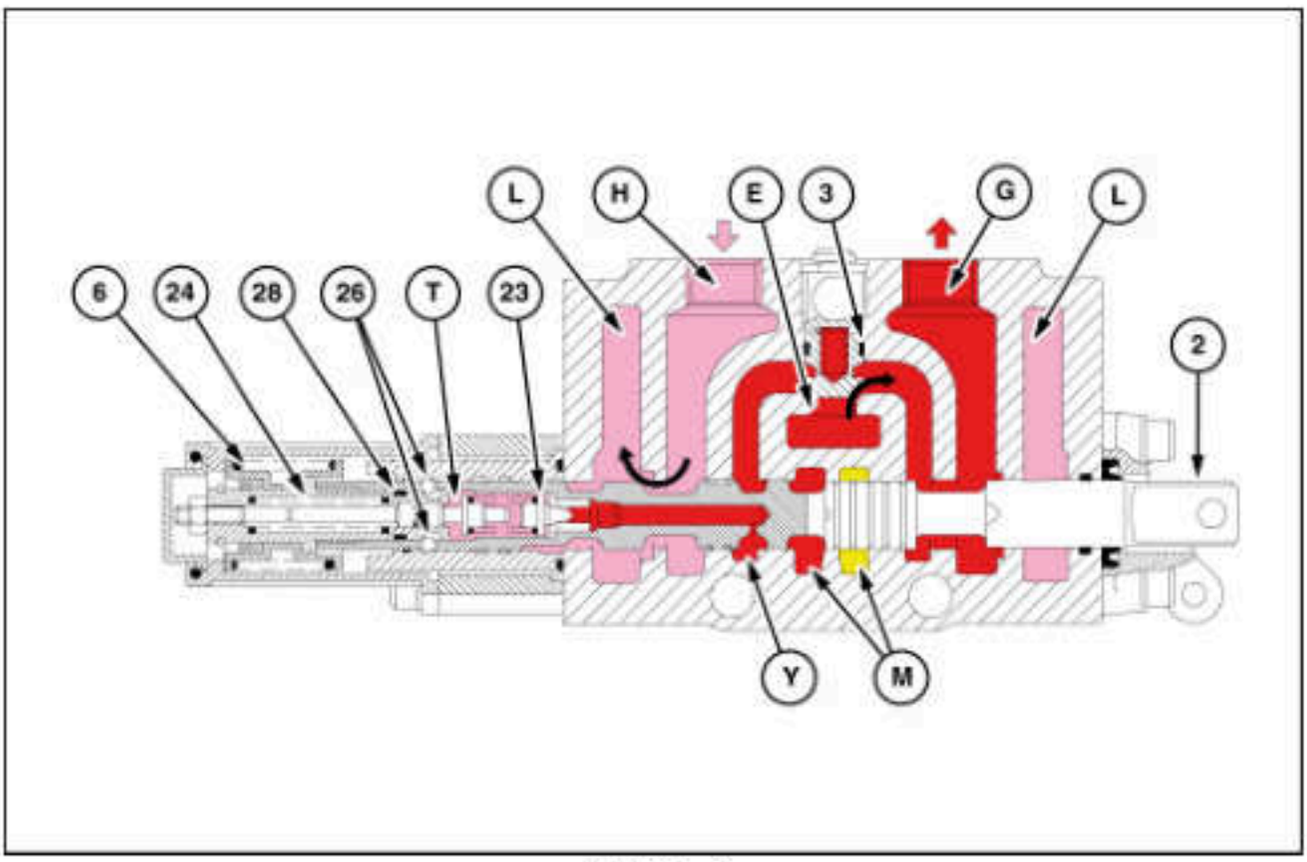
Pressurized oil

Oil in suction, delivery or return

Oil at static rest

NOTE: *For operation of a double-acting cylinder, tighten the screw* ***(1)****. For operation of a single-acting cylinder, loosen the screw.*

Operating stages of auxiliary control valve for the operation of a single/double-acting cylinder with automatic detent release and float



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Pressurized oil

Oil in suction, delivery or return

Oil at static rest

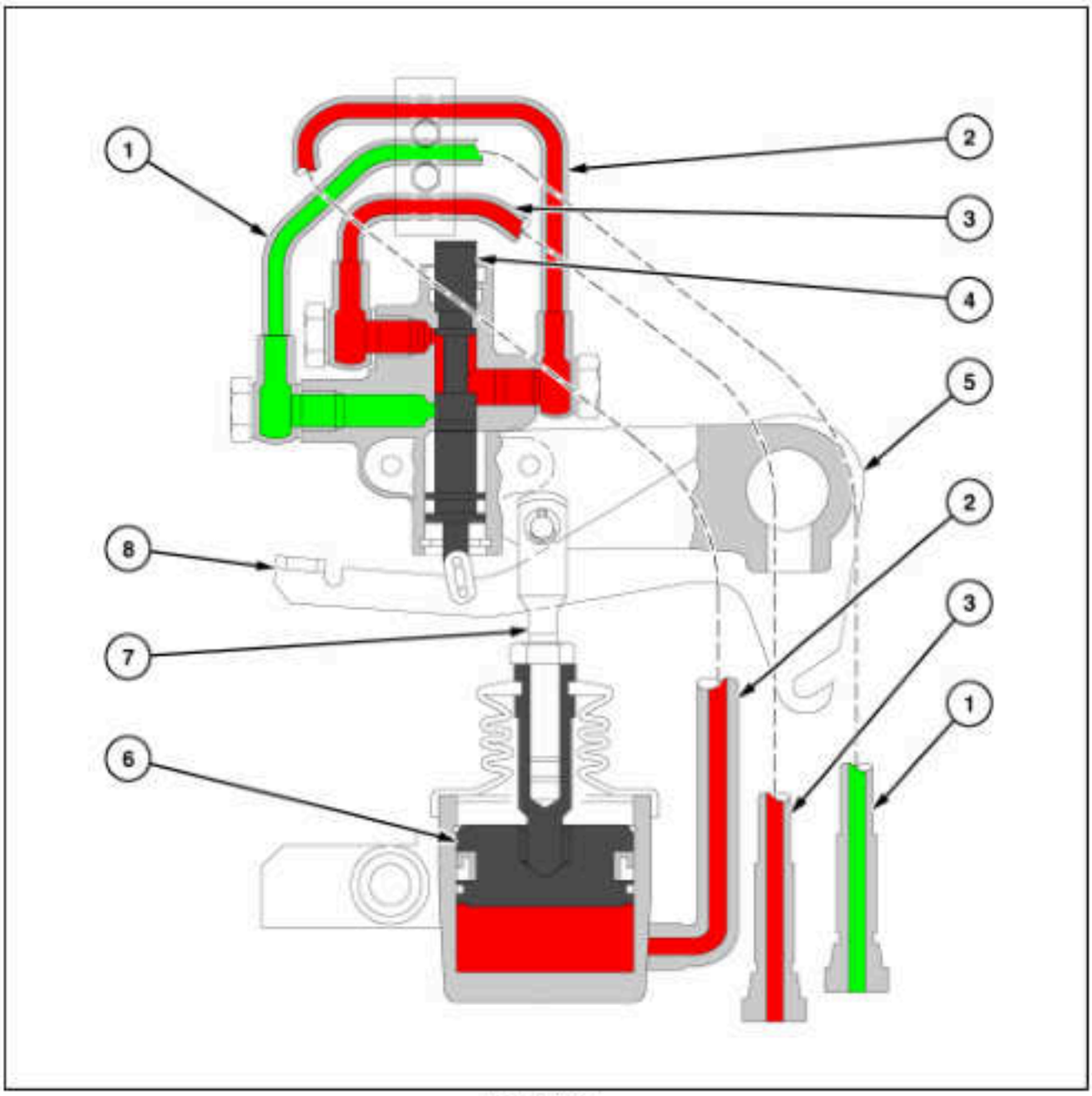
Lifting

On pulling back the control lever (located in the cab), the control valve stem **(2)** shifts and the detent balls **(26)** engage the left hand groove, where they are held in place by the support **(28)** and spring **(24)**. The movement of the spool

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Power Take-Off (PTO) clutch engagement cylinder - Dynamic description

Farmall 75C with cab [ZxALxxxxx] | Transmission - Mechanical



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Pressurised oil Discharge oil

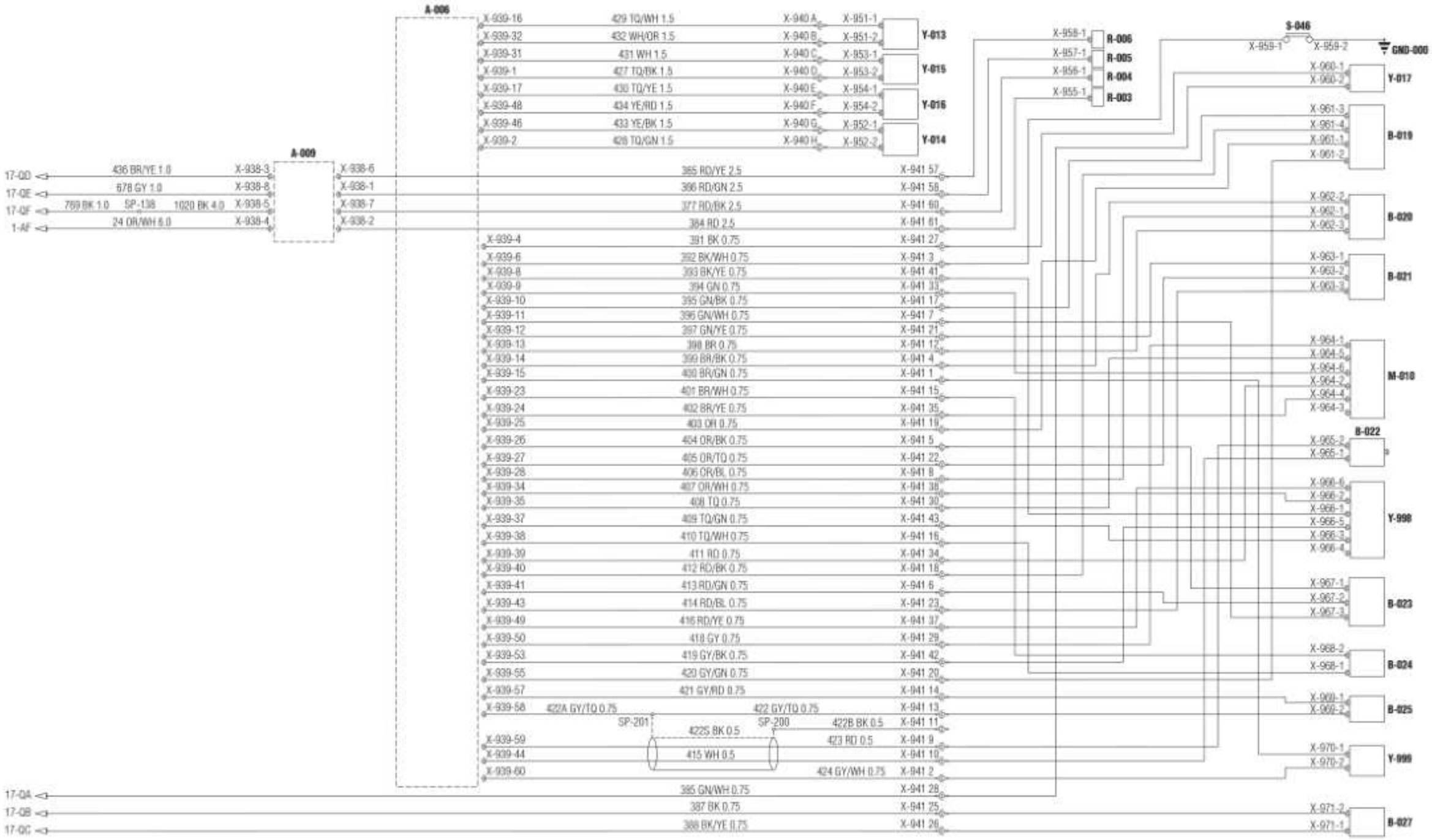
Description and operation

Engaging the PTO control clutch

The PTO clutch control system consists of a control lever (in the cab) and a cable connecting the lever to the servo control unit.

The servo control unit consists of a hydraulic control valve and piston.

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