SERVICE MANUAL

E305C EVO

Crawler Excavator

Part number 48034225
English
June 2016

NEW HOLLAND CONSTRUCTION

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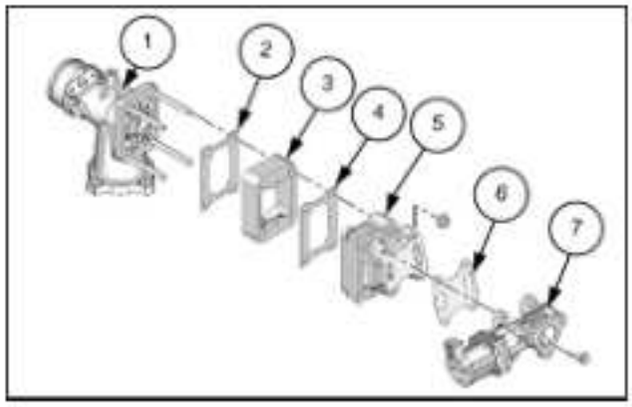
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2. Connect the harness clip on the inlet pipe **(1)**.
3. Connect the harness connector to the boost pressure/ boost temperature sensor.
4. Temporarily tighten the reed valve duct **(5)** to the case **(3)** and inlet pipe **(1)**.
5. Temporary tighten the EGR valve **(7)** to the reed valve duct **(5)**.
6. Temporarily tighten EGR pipe B to the EGR valve and EGR cooler.



1. Inlet pipe
2. Gasket
3. Case
4. Gasket
5. Reed valve duct
6. Gasket
7. EGR valve

NOTE: *Temporarily tighten all the parts, and then fully tighten in the sequence shown in the diagram.*

Fully tighten EGR pipe B to the EGR cooler.

Tightening torque: **24 N·m** (**17.70 lb ft**) No. 1 in the diagram.

Fully tighten EGR pipe B to the EGR valve.

Tightening torque: **24 N·m** (**17.70 lb ft**) No. 2 in the diagram.

Fully tighten the EGR valve to the reed valve duct.

Tightening torque: **24 N·m** (**17.70 lb ft**) No. 3 in the diagram.

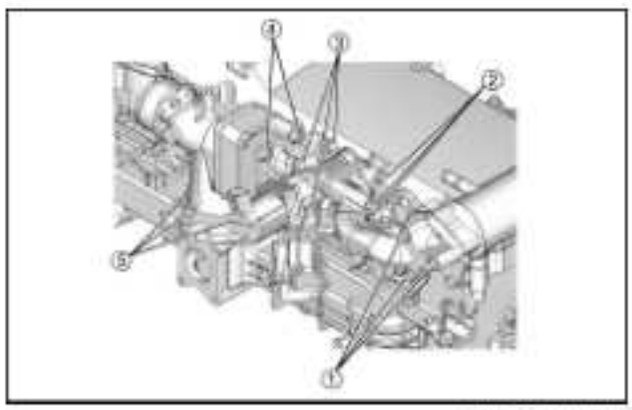
Fully tighten the reed valve duct to the case and inlet pipe.

Tightening torque: **39 N·m** (**28.76 lb ft**) No. 4 in the diagram

Fully tighten the inlet pipe to the inlet cover.

Tightening torque: **19 N·m** (**14.01 lb ft**) No. 5 in the diagram.

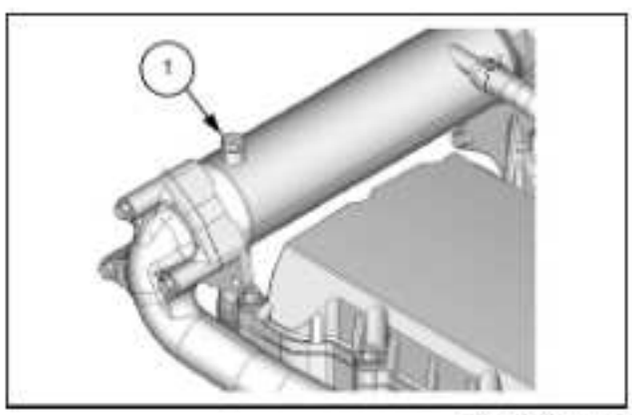
Connect the harness connector to the EGR valve.



Engine harness connect

1. Connect the engine harness to the engine assembly.

NOTE: *Connect the connectors.*



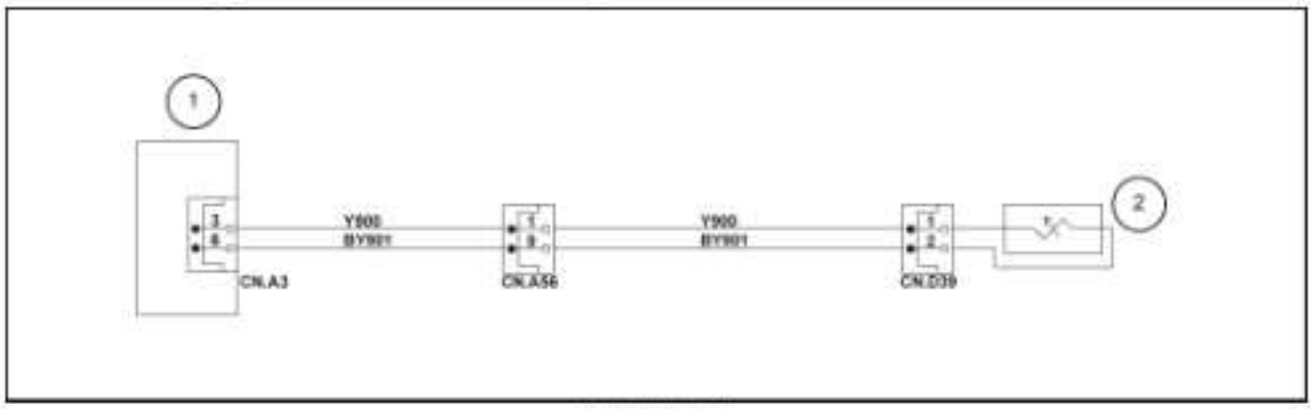
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7240-Pump horsepower proportional valve signal abnormality

Control Module : MCM

Solution:

1. Use the below image for the fault code resolution process:



1. Computer A
2. Pump horsepower proportional valve

Turn ON the key switch.

Inspect the connection status of each connector. Make sure that all the connectors are secured.

A. If Diagnostic Trouble Code 7240 is displayed, proceed to Step **2**.

2. Reset the diagnostic trouble code on the service support DIAG screen.

A. If Diagnostic Trouble Code 7240 is not displayed, proceed to Step **4**.

B. If Diagnostic Trouble Code 7240 is displayed, proceed to Step **3**.

3. Turn OFF the key switch and disconnect the connector **CN.D39**.

Inspect for continuity between the ground and terminal 1 of the connector **CN.D39** harness side.

A. If there is no continuity, replace computer A **(1)**.

B. If there is continuity, find and replace the short circuit on the wire ID Y900.

4. Turn OFF the key switch and disconnect the connector **CN.D39**.

Inspect the continuity between the terminals 1 and 2 of the hydraulic pump connector **CN.D39** pump horsepower proportional valve side.

A. If there is no continuity, find and replace pump horsepower proportional valve **(2)**.

B. If there is continuity, proceed to Step **5**.

5. Disconnect the cab main harness connector **CN.A56**.

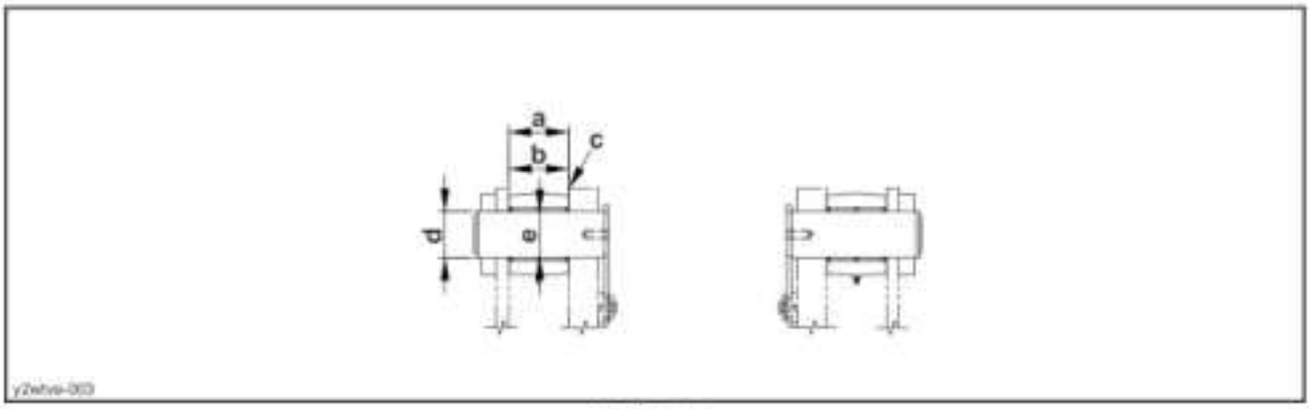
Inspect for continuity between the terminal 1 of the connector **CN.D39** female side and terminal 1 of the frame main harness **CN.A56** male side.

A. If there is no continuity, find and repair or replace the open circuit on the wire ID Y900 between hydraulic pump **CN.D39** and cab main harness **CN.A56**.

B. If there is continuity, proceed to Step **6**.

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2. Boom cylinder and swing frame installation section

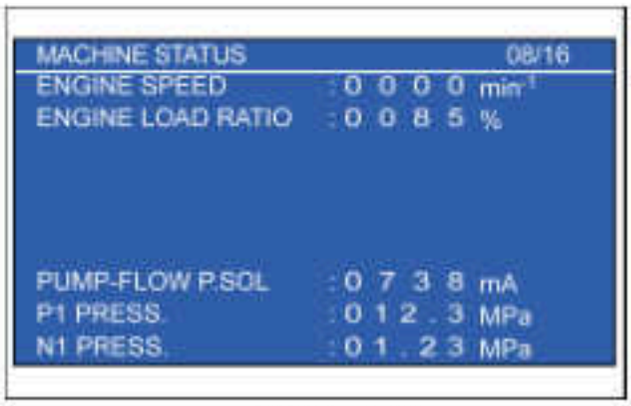


Part name	Code	Standard value	Usage limit	Judgment	Solution
Swing frame	a	**124 mm (4.882 in)**	**130 mm (5.118 in)**	Acceptable/ Unacceptable	-
Boom cylinder (foot section)	b	**123 mm (4.843 in)**	**121 mm (4.764 in)**	Acceptable/ Unacceptable	Replacement
Clearance	c	**1.0 - 2.5 mm (0.0 - 0.1 in)**	Shim adjustment	Acceptable/ Unacceptable	Adjustment with shims
Pin	d	**Ø 95 mm (3.740 in)**	**Ø 94 mm (3.701 in)**	Acceptable/ Unacceptable	Replacement
Bushing (boom cylinder)	e	**Ø 95 mm (3.740 in)**	**Ø 96.5 mm (3.7992 in)**	Acceptable/ Unacceptable	Replacement

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8. Engine

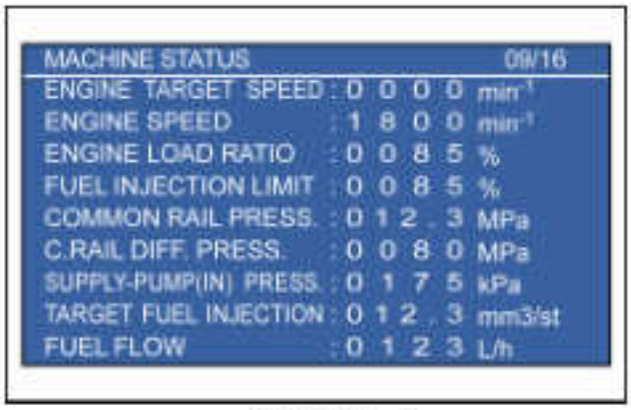
ENGINE SPEED	min^{-1} (rpm)	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
PUMP-FLOW P.SOL.	mA	Actual milli-amp for flow proportional valve
P1 PRESS.	MPa (psi)	P1 pressure
N1 PRESS.	MPa (psi)	N1 pressure



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9. Engine

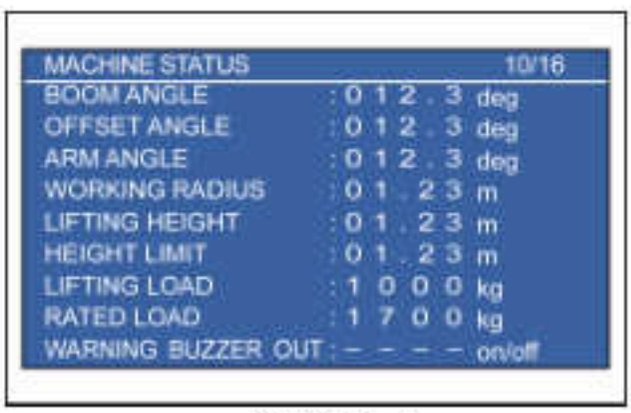
ENGINE TARGET SPEED	min^{-1} (rpm)	Engine target speed
ENGINE SPEED	min^{-1} (rpm)	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
FUEL INJECTION LIMIT	%	Fuel injection quantity limit level
COMMON RAIL PRESS.	MPa (psi)	Common rail pressure
C. RAIL DIFF. PRESS.	MPa (psi)	Common rail differential pressure
SUPPLY-PUMP (IN) PRESS.	kPa (psi)	Supply pump inlet pressure
TARGET FUEL INJECTION	mm^3 /st	Target fuel injection quantity
FUEL FLOW	L/h	Fuel flow



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10. Work radius and height

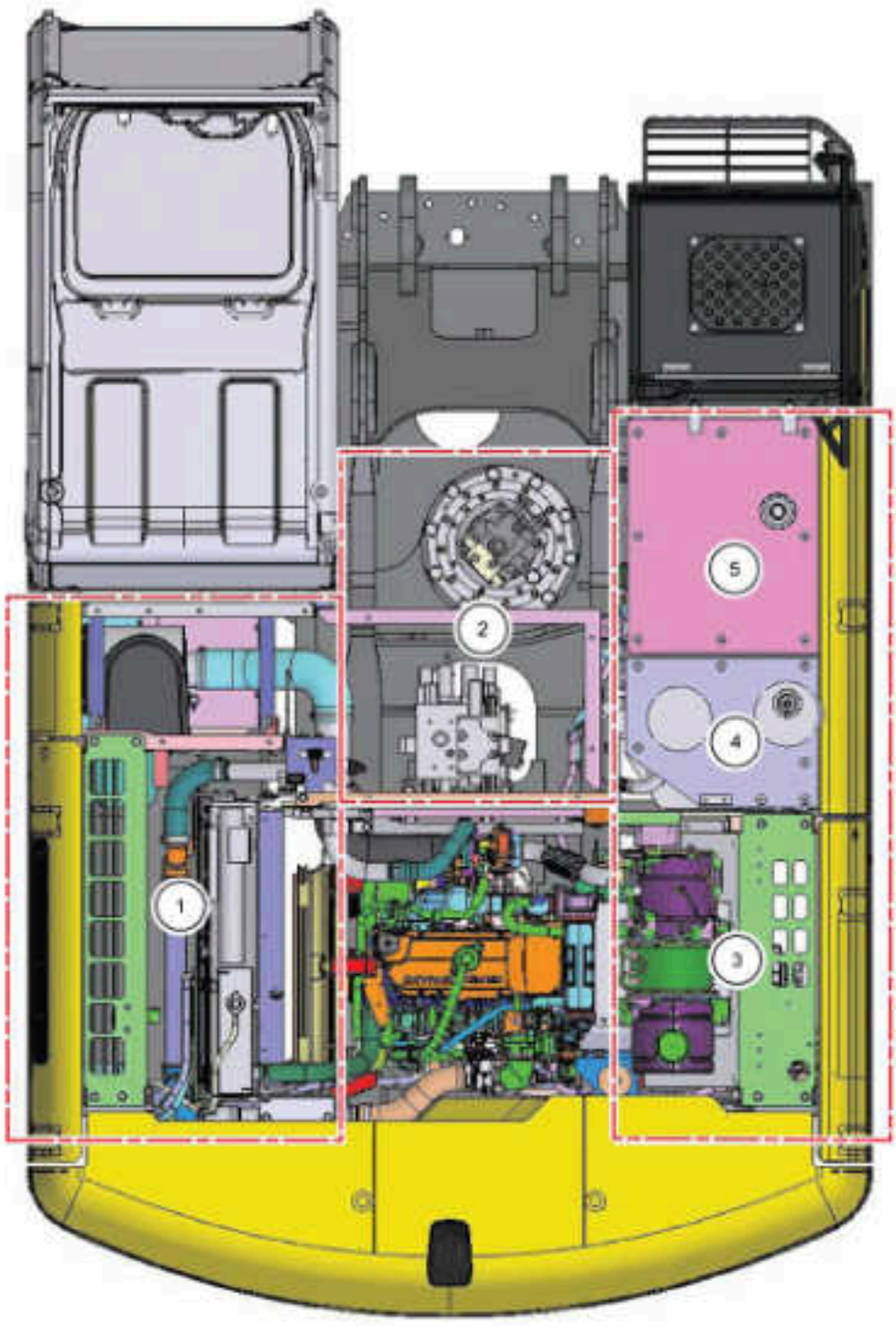
BOOM ANGLE	deg	Boom angle
OFFSET ANGLE	deg	Offset angle
ARM ANGLE	deg	Arm angle
WORKING RADIUS	m (ft.)	Work radius
LIFTING HEIGHT	m (ft.)	Hanging work height
HEIGHT LIMIT	m (ft.)	Hanging height limit
LIFTING LOAD	kg (lb)	Actual load
RATED LOAD	kg (lb)	Rated load
WARNING BUZZER OUT	on/off	Warning buzzer output



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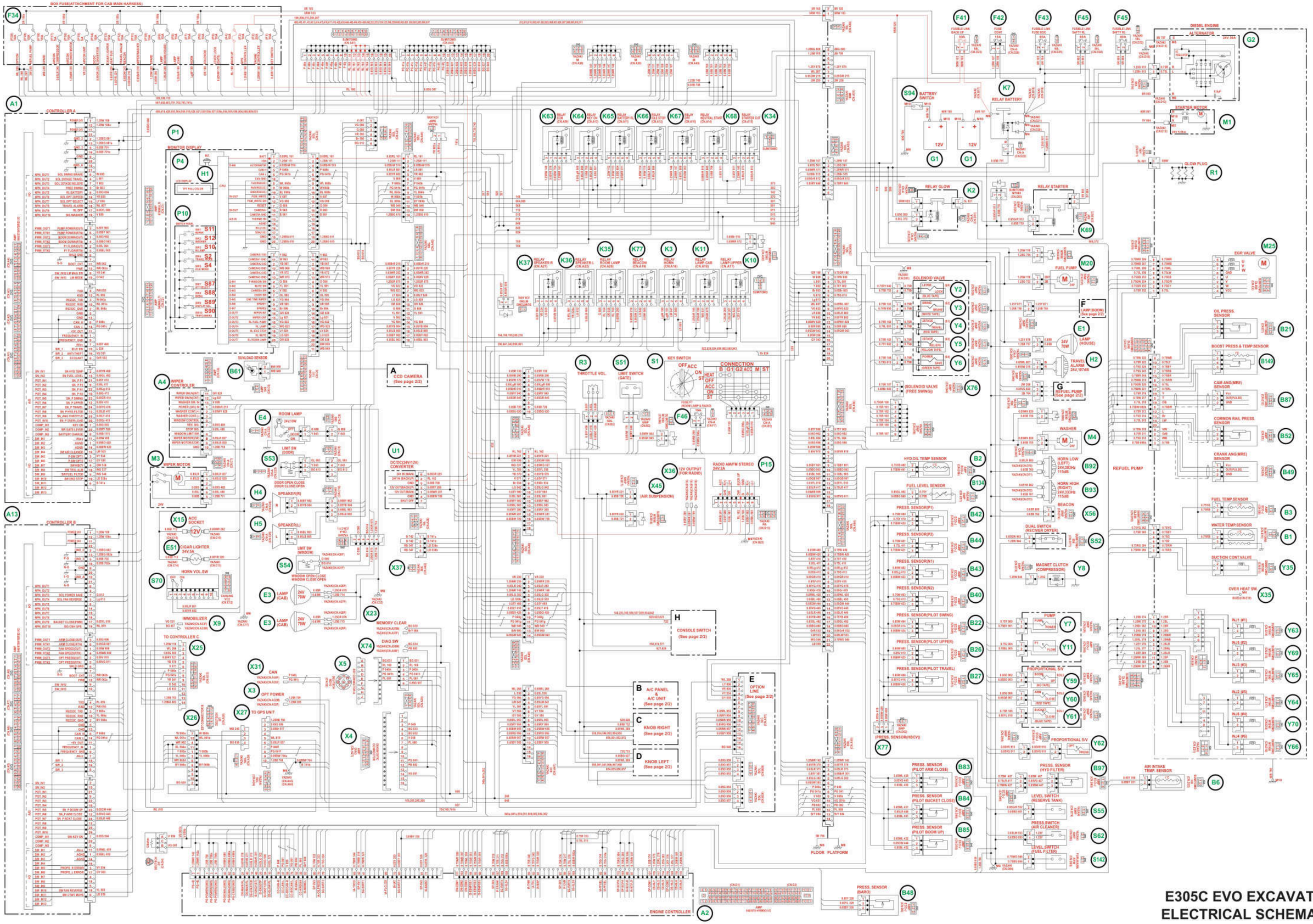
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Hydraulic systems - Overview



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