CX75C SR

Midi Excavator

SERVICE MANUAL

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CASE CONSTRUCTION

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Pump - Special tools

The table below shows the tools required for assembly and disassembly of the **K7SP36** pump. The bolts and plugs may vary by pump type.

Tool name	Tool dimensions
Hexagon wrench	**4 mm**, **5 mm**, **6 mm**, **8 mm**, **10 mm** and **12 mm**
Closed wrench, Socket wrench, Double-head (single-head), wrench	**17 mm**, **22.2 mm**, **24 mm**, **32 mm** and **36 mm**
Monkey wrench	Medium-sized x 1, small-sized x 1
Screwdriver	Medium-sized flathead screwdriver x 2
Hammer	Plastic hammer x 1
Pliers	For stop ring, TSR-160 For locking ring, TRR-160
Steel rod	Key material steel rod, about 10 x 8 x 200
Torque wrench	Wrench capable of specified torque tightening
Torx Plus	Specialty tool for MH plug **M7 x 0.75**

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Harnesses and connectors - Electrical schematic frame 07

Component	Description
A1	Controller A
A13	Controller B
B2	Hydraulic oil temperature sensor
B42	Pump pressure sensor (P1)
B44	Pump pressure sensor (P2) (Blue band)
B45	Overload indicator pressure switch
B97	Pressure sensor (Hydraulic filter)
R5	Fuel level sensor
CN.A1	Computer A: 1: 26-pin connector
CN.A4	Computer A: 4: 22-pin connector
CN.A5	Computer B: 1: 26-pin connector
CN.A7	Computer B: 3: 12-pin connector
CN.A8	Computer B: 4: 22-pin connector
CN.A54	Cab main harness: E (22-pin) connector
CN.A56	Cab main harness: G (14-pin) connector
CN.D45	P1 pressure sensor connector
CN.D46	P2 pressure sensor connector
CN.D52	HBCV harness: 3-pin connector
CN.D52-1	Pressure sensor (HBCV) connector
CN.D56	Hydraulic oil temp sensor connector
CN.D57	Fuel level sensor connector
CN.D84	Pressure sensor (Hydraulic filter) connector

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P0651-Sensor reference voltage 2 circuit

Control Module : ECU

Solution:

1. Turn "OFF" the ignition switch.

   Disconnect the harness connector (**CN.A61**) from the barometric pressure sensor **(B99)**.

   Turn "ON" the ignition switch.

   Measure the voltage between the barometric pressure sensor **(B99) 5 V** power supply circuit and GND of the barometric pressure sensor **(B99)** harness connector (**CN.A61**).

   If the reading is more than or equal to **5.5 V**, inspect the barometric pressure sensor **(B99) 5 V** power supply circuit between the ECM **(A2)** and the barometric pressure sensor **(B99)** for a short to the battery or a short to the ignition power supply.

   A. If a problem is found, repair the barometric pressure sensor **(B99) 5 V** power supply circuit.

   B. If there are no problems, proceed to Step **2**.

2. Inspect the CMP sensor **(B98) 5 V** power supply circuit between the ECM **(A2)** and the CMP sensor **(B98)** for a short to the battery or a short to ignition power supply.

   A. If a problem is found, repair the CMP sensor **(B98) 5 V** power supply circuit between the ECM **(A2)** and the CMP sensor **(B98)**.

   B. If there are no problems, proceed to Step **3**.

3. Inspect the FRP sensor **(B52) 5 V** power supply circuit between the ECM **(A2)** and the FRP sensor **(B52)** for a short to the battery or a short to the ignition power supply.

   A. If a problem is found, repair the FRP sensor **(B52) 5 V** power supply circuit.

   B. If there are no problems, proceed to Step **4**.

4. Inspect the EGR position sensor **5 V** power supply circuit between the ECM **(A2)** and the EGR position sensor for a short to the battery a short to the ignition power supply.

   A. If a problem is found, repair the EGR position sensor **5 V** power supply circuit.

   B. If there are no problems, proceed to Step **5**.

5. If the reading is less than or equal to the **4.5 V**, measure the voltage between the barometric pressure sensor **(B99)** harness connector (**CN.A61**) **5 V** power supply circuit and GND.

   A. If the reading is more than or equal to the **4.5 V**, replace the barometric pressure sensor **(B99)**.

   B. If the reading is less than or equal to the **4.5 V**, turn "OFF" the ignition switch.

   C. If there are no problems, proceed to Step **6**.

6. Disconnect the harness connector (**CN.E12**) from the CMP sensor **(B98)**.

   Turn "ON" the ignition switch.

   Measure the voltage between the CMP sensor **(B98) 5 V** power supply circuit of the CMP sensor **(B98)** harness connector (**CN.E12**) and GND.

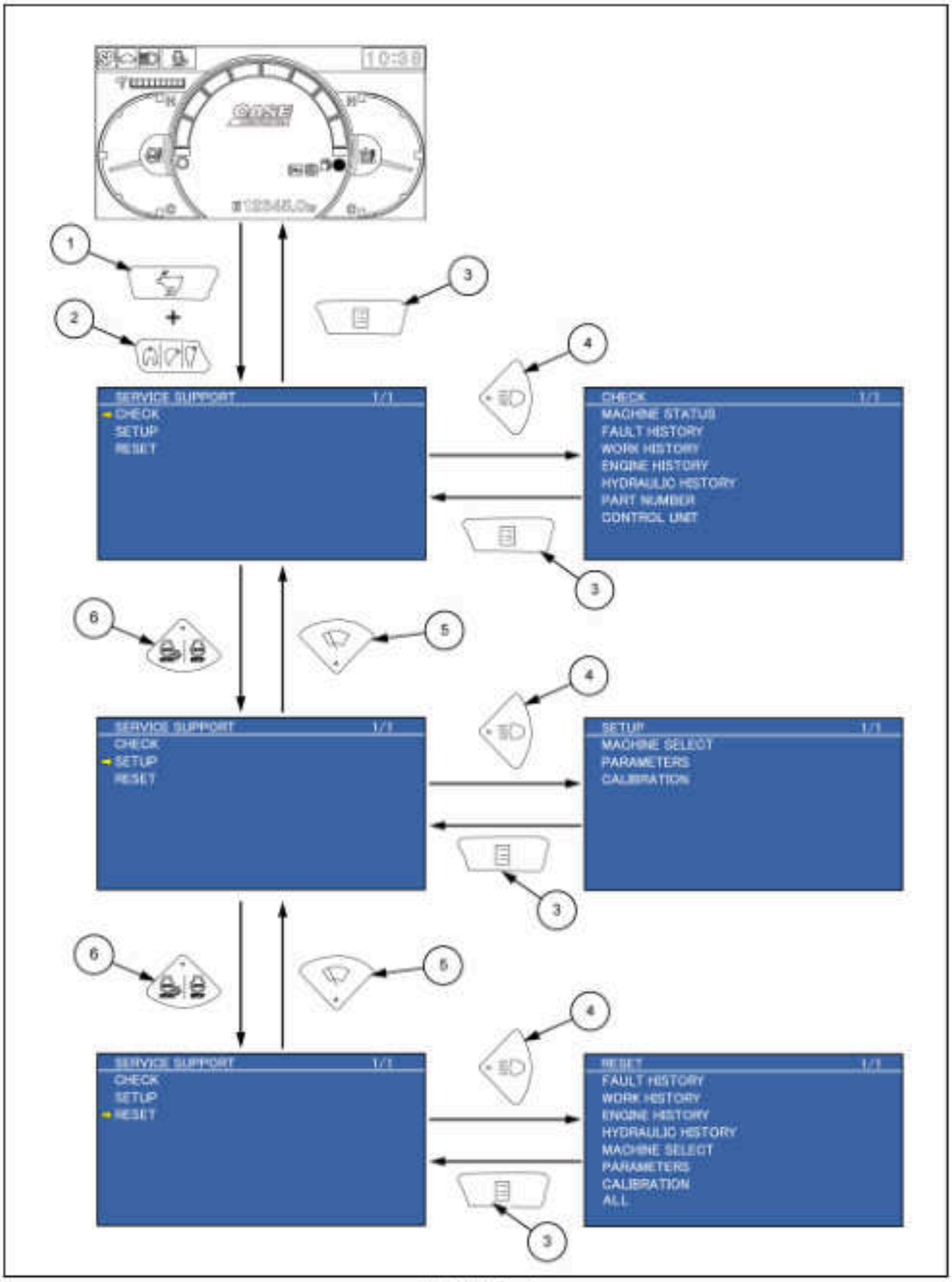
   A. If the reading is more than or equal to **4.5 V**, replace the CMP sensor **(B98)**. (Refer to **Engine speed/RPM sensor - Remove – CMP sensor (55.015)** and **Engine speed/RPM sensor - Install – CMP sensor (55.015)**)

   B. If the reading is less than or equal to the **4.5 V**, turn "OFF" the ignition switch.

   C. If there are no problems, proceed to Step **7**.

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Instrument cluster - Static description – Screen display list



SWL13CES400HB 1

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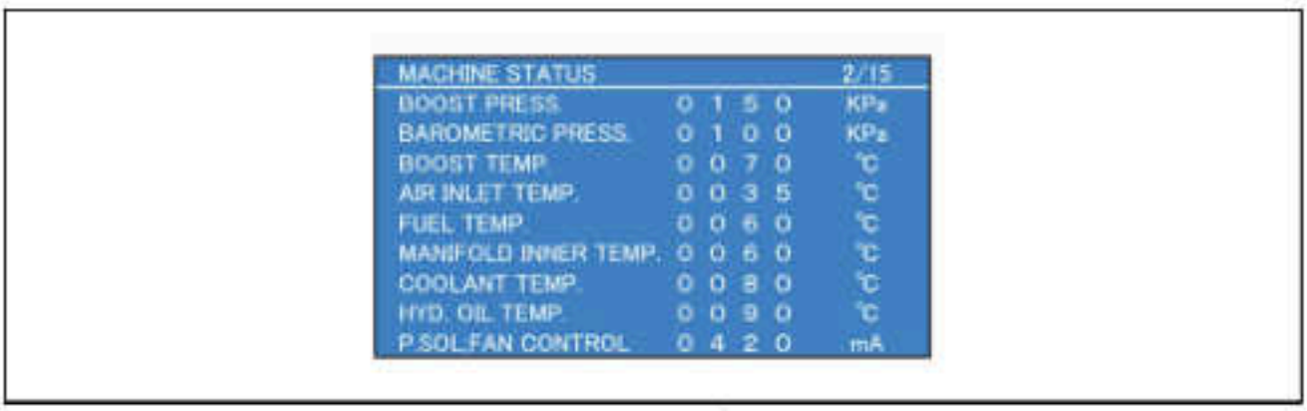
Hydraulic systems - Pressure test – Procedures for measuring hydraulic oil temperature from the monitor display

Hydraulic oil temperature measurement method

The hydraulic oil temperature can be measured from the monitor display.

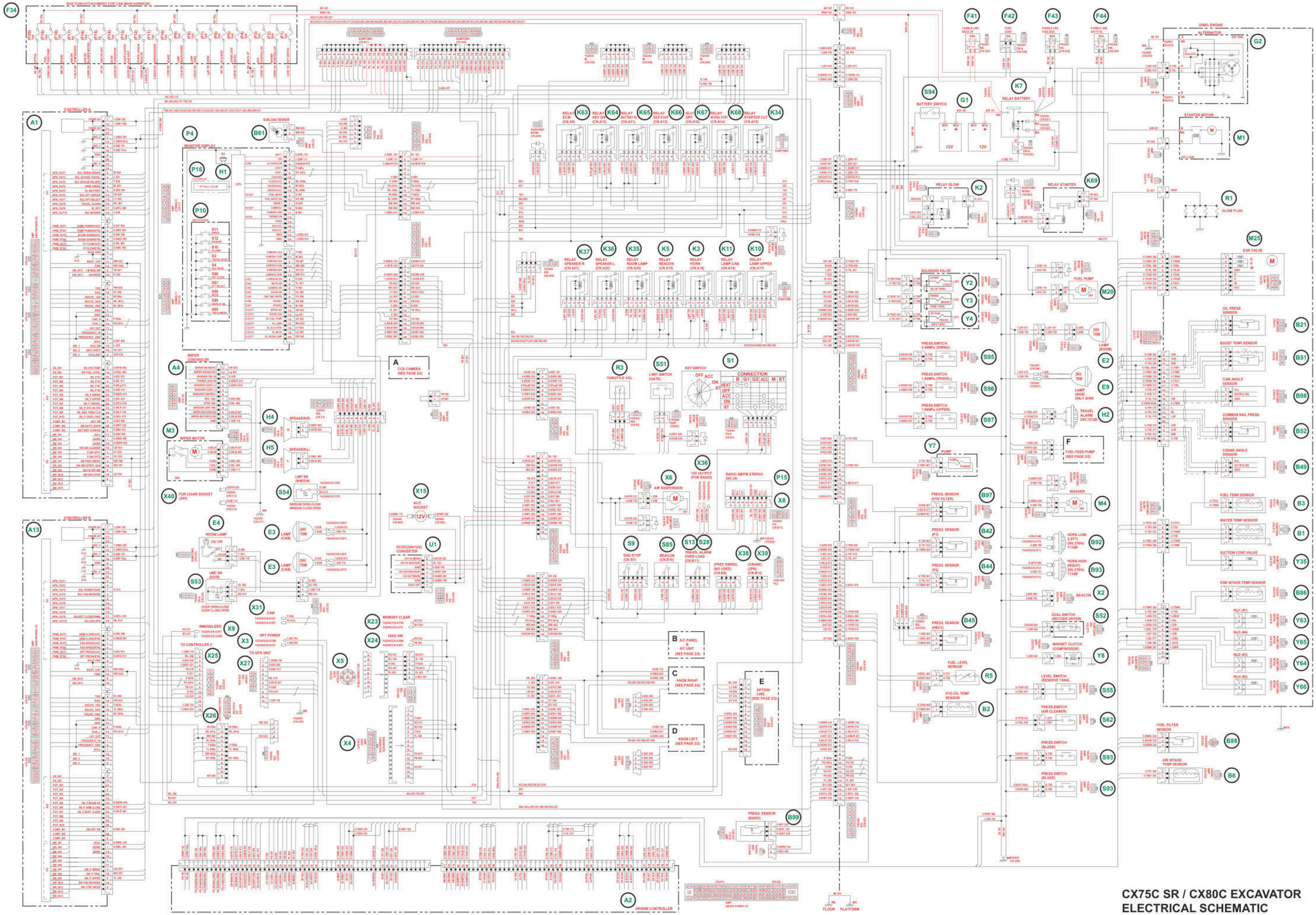
Operating method

1. If both the travel speed select switch and the attachment select switch on the switch panel are held down, the display switches to the service support screen.
2. CHECK the select service support screen.
3. MACHINE STATUS the select service support screen.
4. The hydraulic oil temperature is displayed in the "Hyd.OIL TEMP" column.



LPS12CXE1015EA 1

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