CX130D
Crawler Excavator

SERVICE MANUAL

Part number 51436799
English
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CASE
CONSTRUCTION

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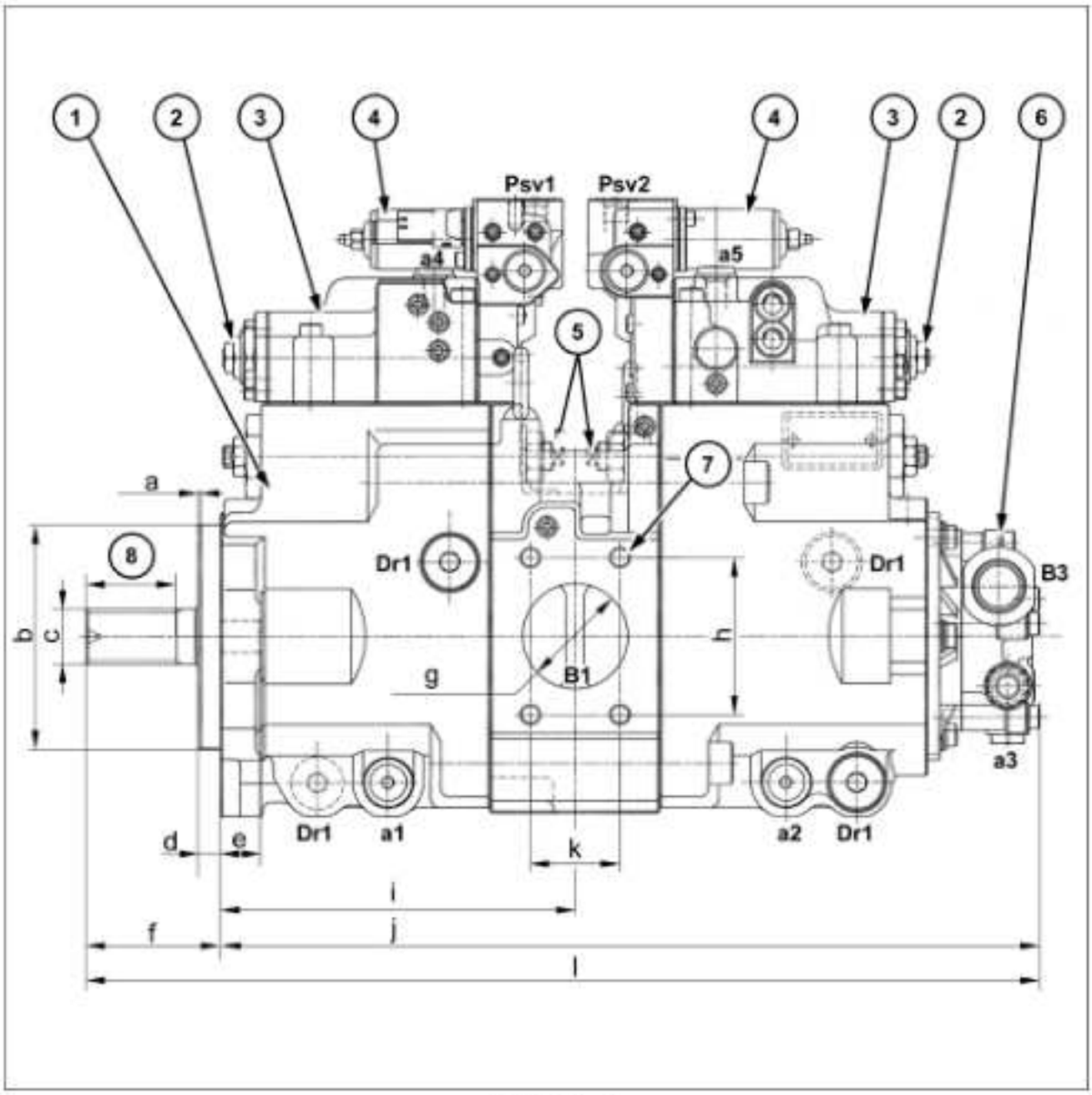
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SMLISCEX444GB 2

1. Hydraulic pump main unit
2. Minimum flow adjustment screw
3. Regulator body
4. Electromagnetic proportional pressure reducing valve
5. Maximum flow adjustment screw
6. Gear pump
7. 4-M12 screw depth **18 mm (0.709 in)** 18 mm (0.709 in.)
8. SAE involute spline A. Effective spline length **51 mm (2.008 in)**

Code	Dimension	Code	Dimension
a.	**1.5 mm (0.059 in)**	g.	**Ø 60 mm (2.362 in)**
b.	**Ø 127 mm (5.000 in)**	h.	**88.9 mm (3.500 in)**
c.	**Ø 31.224 mm (1.229 in)**	i.	**201 mm (7.913 in)**
d.	**12.7 mm (0.500 in)**	j.	**465 mm (18.307 in)**
e.	**23 mm (0.906 in)**	k.	**50.8 mm (2.000 in)**
f.	**76 mm (2.992 in)**	l.	**541 mm (21.299 in)**

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Second option harness (proportional control)

*1. White adhesive tape
*2. Red adhesive tape
*3. Blue adhesive tape
*4. Plate

CN.B19F	Console harness	CN.G19F	Second option lever; Proportional solenoid valve (down)
CN.D82M	Frame main harness	CN.G20F	Second option pressure sensor (up)
CN.G18F	Second option lever; Proportional solenoid valve (up)	CN.G21F	Second option pressure sensor (down)

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P0427 - Catalyst temperature sensor circuit low sensor 1

CX130D Crawler excavators LC version (TIER4 FINAL) - EU Market	WE
CX130D Crawler excavators Standard w/Blade version (TIER 4 FINAL) - EU market	WE

Control Module: ECM

Solution:

1. Check and diagnose the below fault codes before you proceed with the diagnostics code P0427.

   Diagnostic trouble code P06A8

2. Turn OFF the ignition switch.

   Disconnect the harness connector **CN.D90-6** from the exhaust gas temperature sensor 1.

   Check the exhaust temperature sensor (before the filter) display with the trouble diagnosis scan tool.

   A. If the reading is more than or equal to **4.5 V**, replace the exhaust gas temperature sensor 1. (Refer to " **Exhaust Gas Recirculation (EGR) temperature sensors - Remove - Temperature sensor 2 (55.989)** and **Exhaust Gas Recirculation (EGR) temperature sensors - Install - Temperature sensor 2 (55.989)**")

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

3. Inspect to see if there is a short circuit to the GND with the signal circuit between the ECM and the exhaust gas temperature sensor 1.

   A. If a problem is found, repair the signal circuit.

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

4. Inspect the ECM harness connector **CN.D3** for a poor connection.

   A. If a problem is found, repair the harness connector **CN.D3**.

   B. If the harness connector **CN.D3** is normal, replace the ECM. (Refer to " **Engine Control Unit (ECU) - Remove (55.015)** and **Engine Control Unit (ECU) - Install (55.015)**")

5. Set the Injector ID Code, fuel delivery rate and engine No. for the ECM.

6. Confirm resolution:

   1. Clear the diagnostic trouble code using the trouble diagnosis scan tool.

   2. Turn OFF the ignition switch for at least **60 s**.

   3. Start the engine.

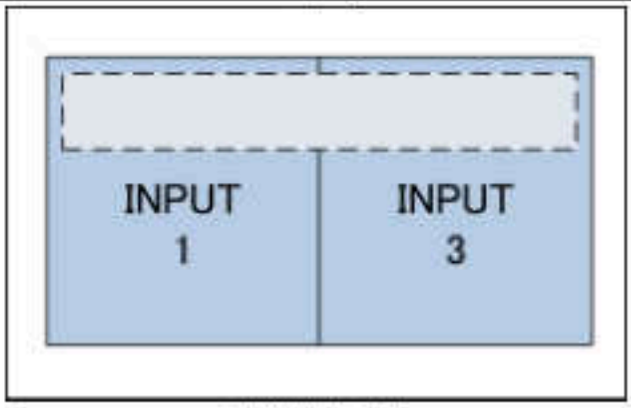
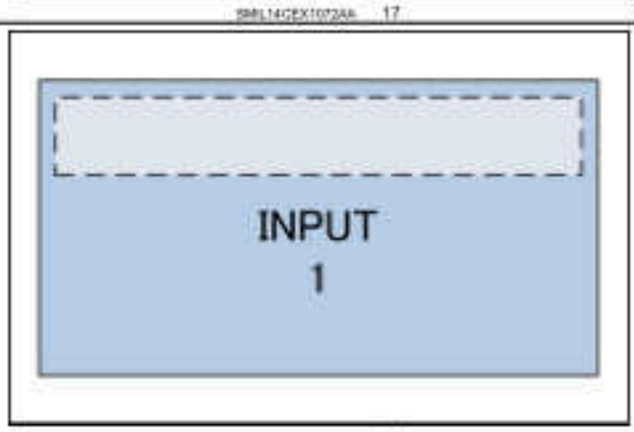
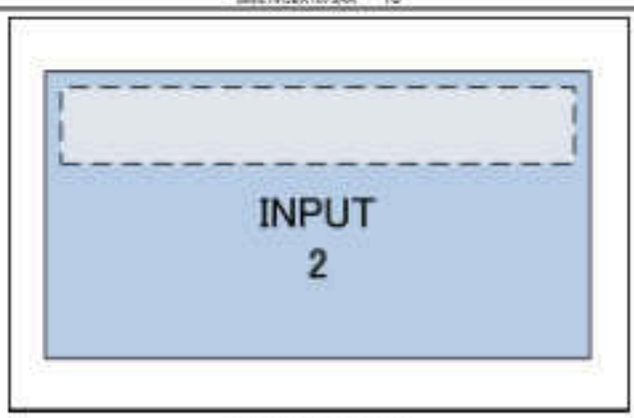
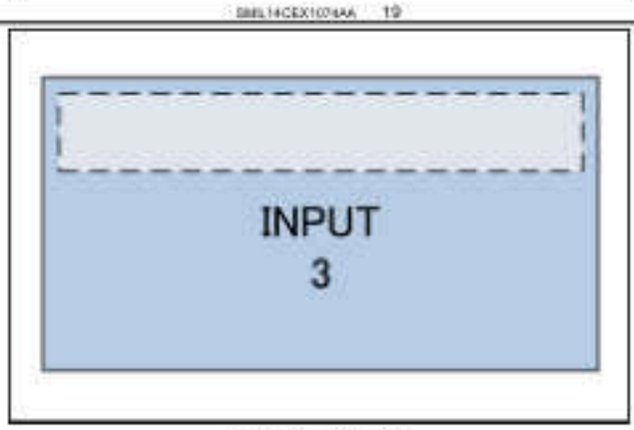
   4. Perform a test-run under the conditions for running the diagnostic trouble code.

   NOTE:
   • Conditions for setting engine run time or coolant temperature vary depending on the diagnostic trouble codes.

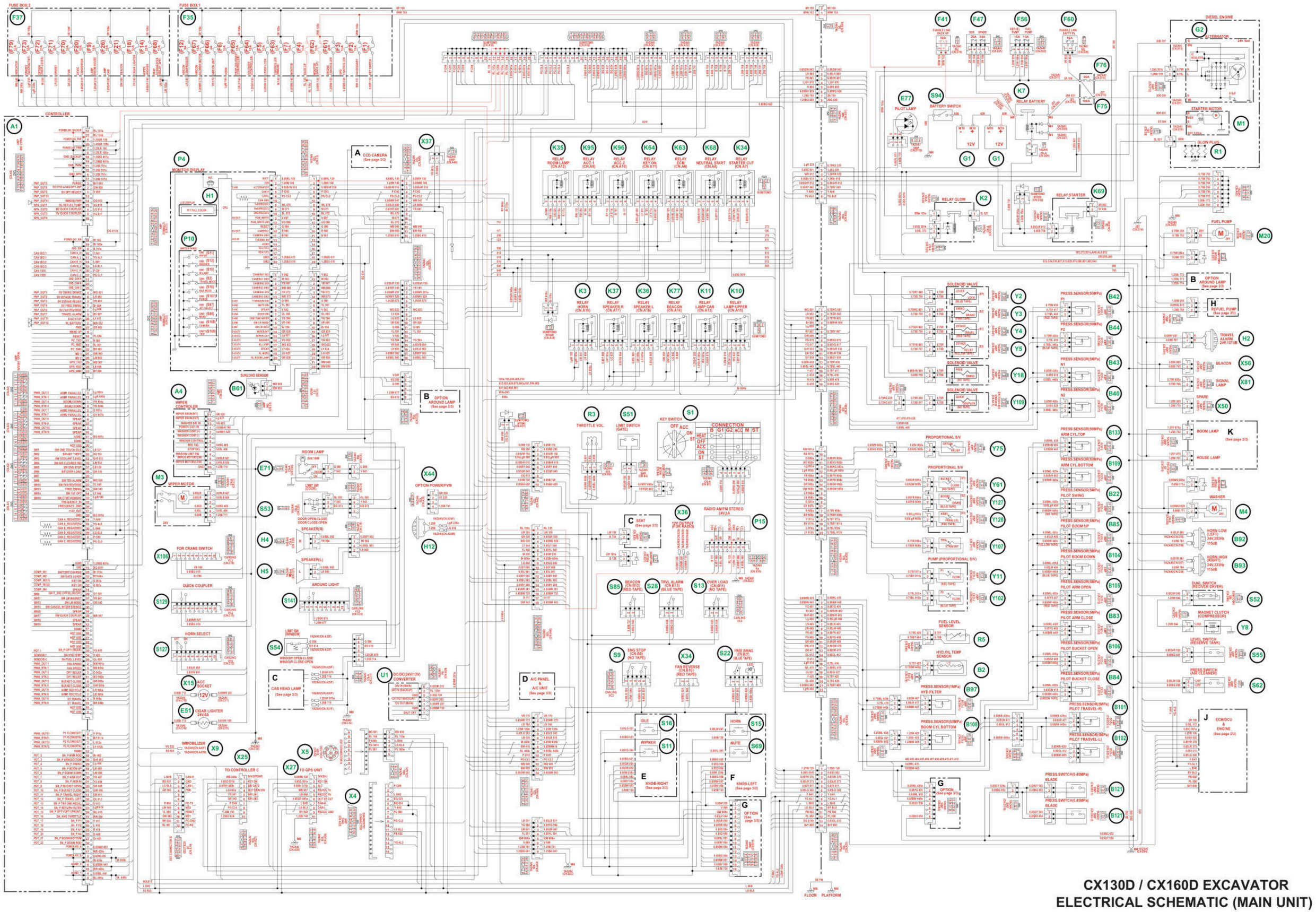
   5. Use the trouble diagnosis scan tool to confirm that a diagnostic trouble code has not been detected.

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Wiring harnesses - Electrical schematic sheet 13 (55.100)

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Type	Meter position	Camera input	Display
G	TOP	INPUT 1+3	
H	TOP	INPUT 1	
I	TOP	INPUT 2	
J	TOP	INPUT 3	

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CX130D / CX160D EXCAVATOR
ELECTRICAL SCHEMATIC (MAIN UNIT)

51437111EN - 1/3

68377093-2

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