SERVICE MANUAL

E385C EVO
E405C EVO

Hydraulic Excavator

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NEW HOLLAND CONSTRUCTION

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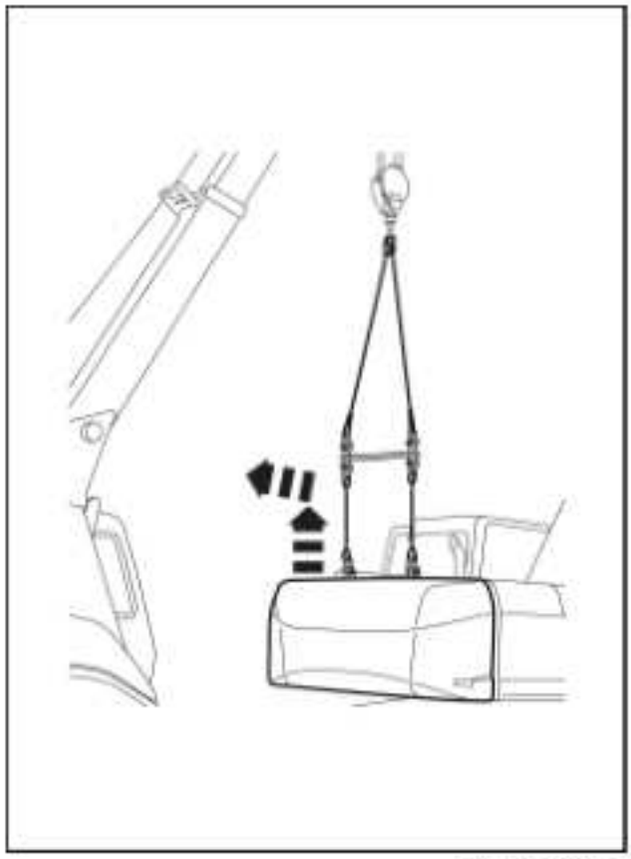
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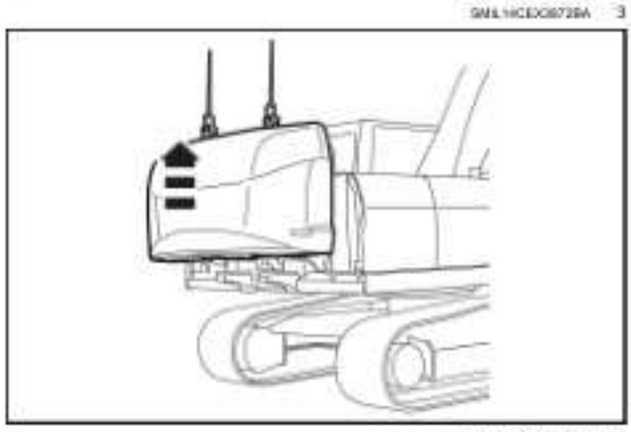
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4. Use the wire ropes and lifting equipment to lift and remove the counterweight.
   - Move the counterweight about **50 cm** (**19.685 in**) to the rear while lifting it so that it does not interfere with the housing, engine parts and pipes.

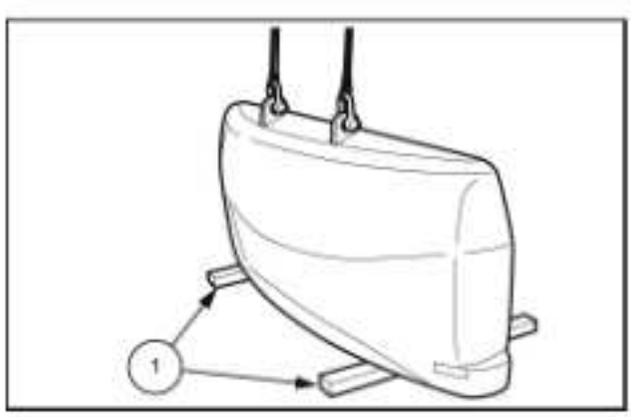


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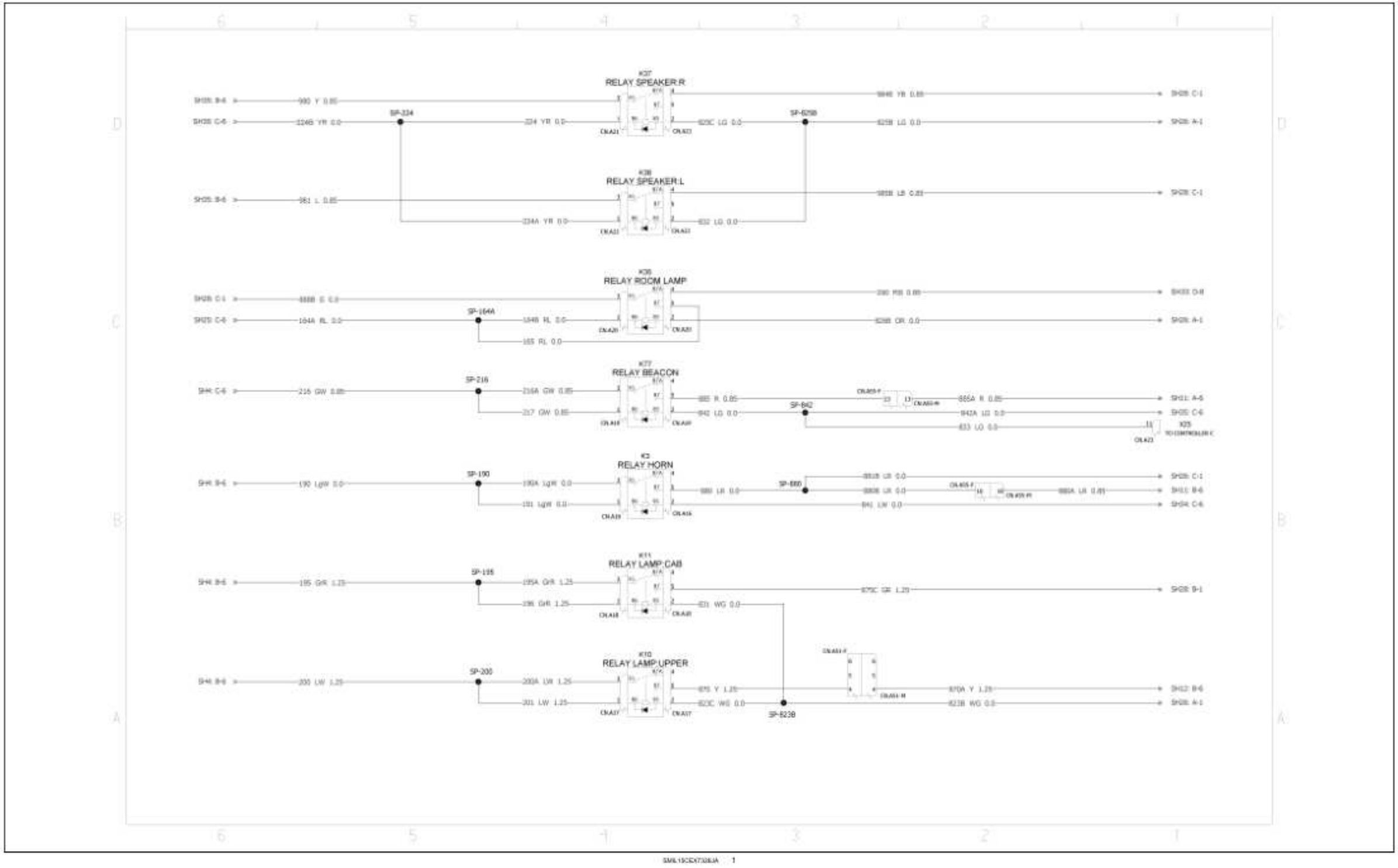
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5. Thoroughly check that the location is safe before lowering the counterweight on wood planks **(1)**.
   - Thoroughly secure the counterweight with the wire ropes and lifting equipment so that it does not fall over.



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P0045-Turbocharger Boost Control Solenoid Circuit

Control Module : ECM

Solution:

1. Check and diagnose the below fault codes before you proceed with the diagnostics code 0045.

   Diagnostic trouble code 0073

2. Inspect the turbocharger assembly. (Refer to "Turbocharger assembly Inspection")

   A. If a problem is found, repair the turbocharger assembly.

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

3. Turn OFF the starter switch.

   Disconnect the turbocharger harness connector.

   Remove the fuse.

   Inspect the fuse for meltdown.

   A. If a problem is found, replace the fuse.

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

4. Inspect to see if there is an open circuit or high resistance between the fuse and the power supply circuit of the turbocharger internal ECU.

   A. If a problem is found, repair the power supply circuit.

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

5. Inspect to see if there is an open circuit or high resistance between the turbocharger GND circuit and GND.

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

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

6. Inspect the turbocharger harness connector poor connection.

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

   B. If the harness connector is normal, replace the turbocharger assembly. (Refer to "Turbocharger assembly Removal" and "Turbocharger assembly Installation".

7. Confirm resolution:

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

   2. Turn the starter switch OFF for **30 s** or longer.

   3. Start the engine.

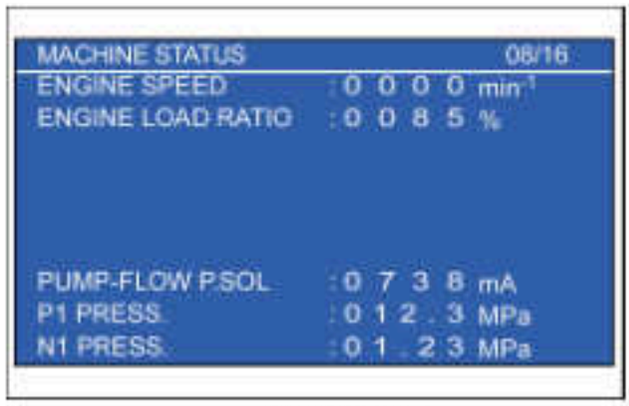
   4. Perform a test-run.

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

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8. Engine

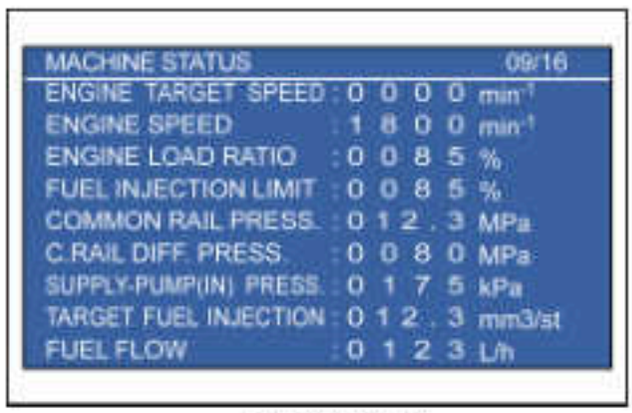
ENGINE SPEED	min^{-1} (rpm)	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
PUMP-FLOW P.SOL.	mA	Actual milli-amp for flow proportional valve
P1 PRESS.	MPa (psi)	P1 pressure
N1 PRESS.	MPa (psi)	N1 pressure



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9. Engine

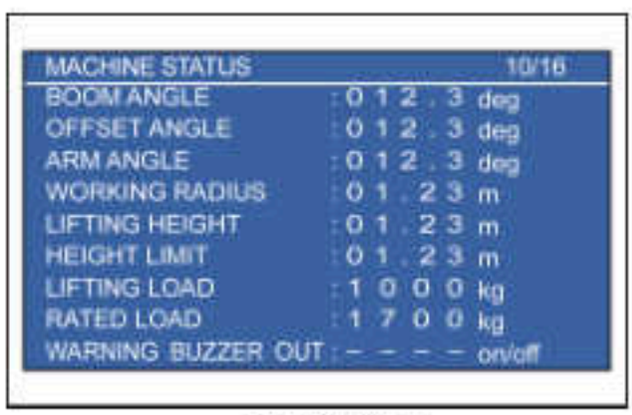
ENGINE TARGET SPEED	min^{-1} (rpm)	Engine target speed
ENGINE SPEED	min^{-1} (rpm)	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
FUEL INJECTION LIMIT	%	Fuel injection quantity limit level
COMMON RAIL PRESS.	MPa (psi)	Common rail pressure
C. RAIL DIFF. PRESS.	MPa (psi)	Common rail differential pressure
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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Anti-theft system - Dynamic description

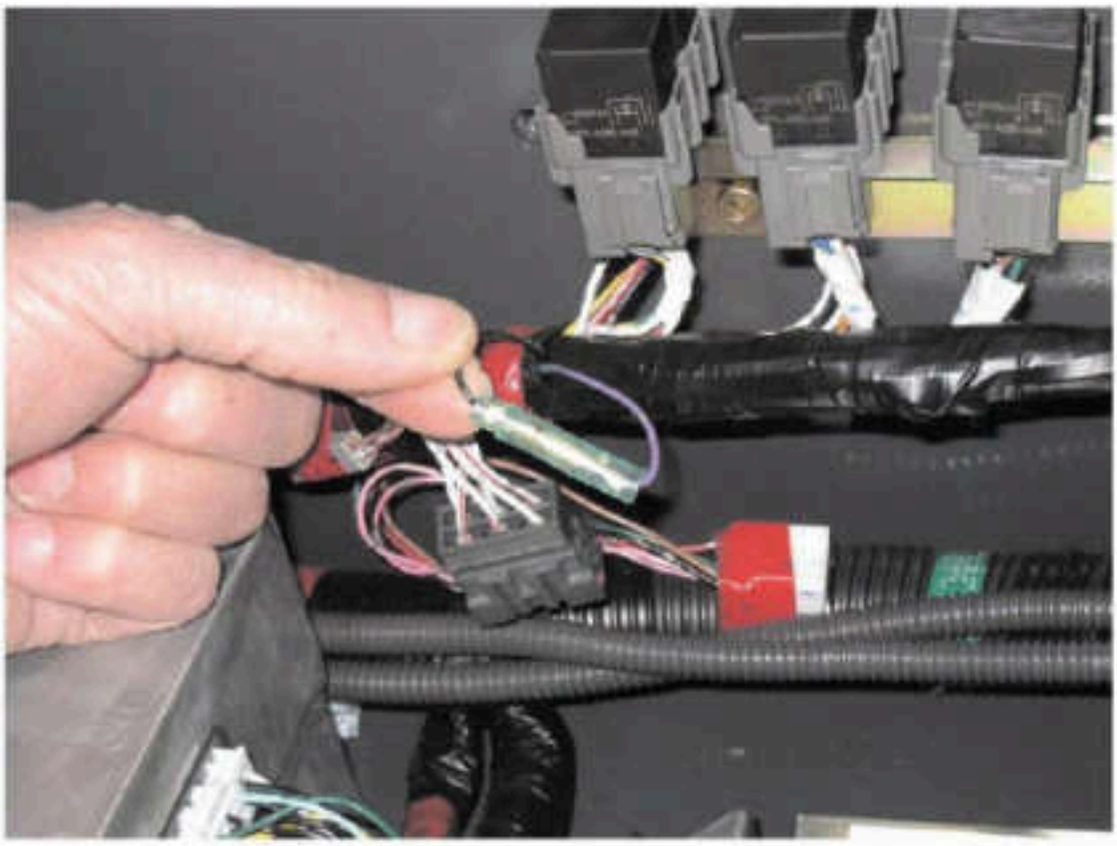
Enabling the anti-theft function

With the key "OFF", connect the anti-theft knob terminal.

When the male and female knob terminals are connected on the cab main harness in the rear cover, the anti-theft function is enabled.

The factory setting is for these knob terminals to be disconnected.

Anti-theft setting knob Connect VG (purple / green) and BG (black / green)



LPPH12CR01022PA 1

Password

Purpose

Locks the machine if is operated without authorization. (Anti-theft)

Operation explanation

1. When the anti-theft function is "ON", turn the key "ON".
2. Enter the correct password at the password input screen.

   * If an incorrect password is input, "ERROR" is displayed and the buzzer buzzes.

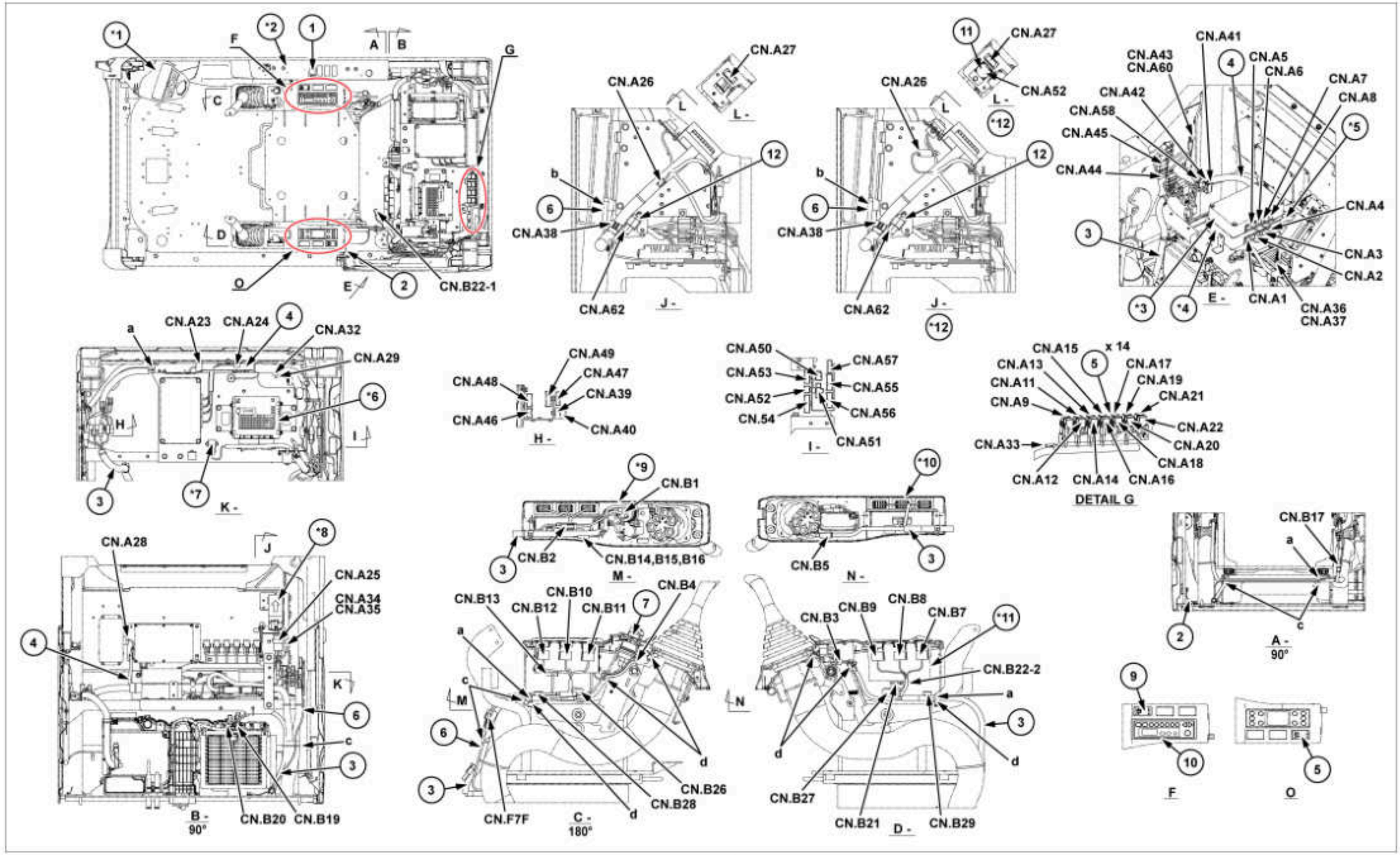
   If the correct password is then input, the lock is released.
3. The machine lock is released and the normal screen is displayed.

   * If the "ERROR" message is ignored and the engine is started, the machine will lock.

   Machine lock conditions

   - The engine speed is fixed at low idle.

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