SERVICE MANUAL

E175C EVO Tier III
Crawler Excavator

Part number 48044247
English
September 2016

NEW HOLLAND CONSTRUCTION

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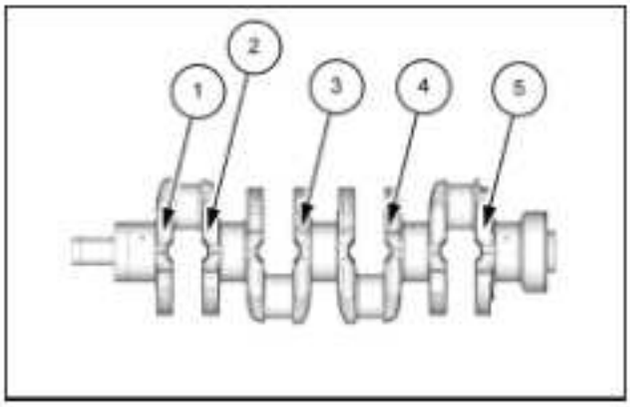
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4. No. 4
5. No. 5

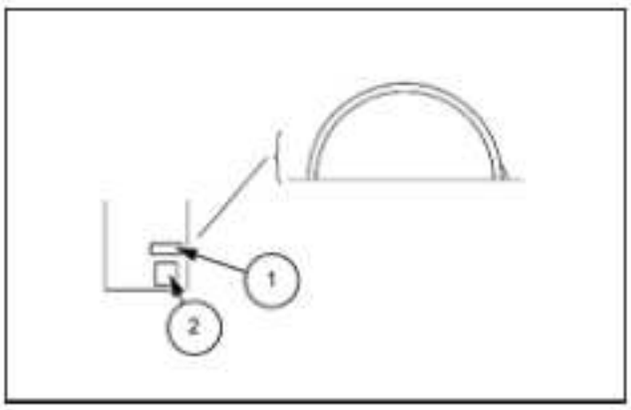
NOTE: *Crankshaft grade marks are stamped on the crank arm side surface.*

NOTICE: *When installing, pay attention to differences in the bearing shape.*



LPILT2CX0077AAB 9

1. Lot number
2. Size code



LPILT2CX0077BAB 10

Cylinder block journal housing		Crank shaft journal		Bearing size code
Grade	Inner diameter	Grade	Outer diameter	
1	73.992 - 74.000 mm (2.9131 - 2.9134 in)	1 or -	69.927 - 69.932 mm (2.7530 - 2.7532 in)	4
		2 or --	69.922 - 69.927 mm (2.7528 - 2.7530 in)	4
		3 or ---	69.917 - 69.922 mm (2.7526 - 2.7528 in)	5
2	73.983 - 73.991 mm (2.9127 - 2.9130 in)	1 or -	69.927 - 69.932 mm (2.7530 - 2.7532 in)	2
		2 or --	69.922 - 69.927 mm (2.7528 - 2.7530 in)	3
		3 or ---	69.917 - 69.922 mm (2.7526 - 2.7528 in)	4
3	73.975 - 73.982 mm (2.9124 - 2.9127 in)	1 or -	69.927 - 69.932 mm (2.7530 - 2.7532 in)	1
		2 or --	69.922 - 69.927 mm (2.7528 - 2.7530 in)	2
		3 or ---	69.917 - 69.922 mm (2.7526 - 2.7528 in)	2

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Pedal control - Sectional view

It is not easy to discover trouble locations.

A few problems that may occur are listed in the " **Pedal control - Troubleshooting (35.356)**".

Repairs are difficult, so refer to the possible causes and solutions in **Pedal control - Troubleshooting (35.356)**.

Refer to **Pedal control - Troubleshooting (35.356)** for general symptoms, suggested causes, and also solutions.

However, the cause of machine problems are often not rooted in just a single part. Problems are often due to the relationship of one part with another.

Also keep in mind that solutions other than those listed in the table may sometimes be necessary.

The numbers in parentheses after the part names are the codes indicated in Fig.3 – "Remote control valve assembly cross-section diagram"

Also, the table below does not include all possible causes and countermeasures.

Further investigation of problems and causes should be done by an experienced and qualified repair person, as necessary.

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Wiring harnesses - Electrical schematic sheet 32 - Console inter connector

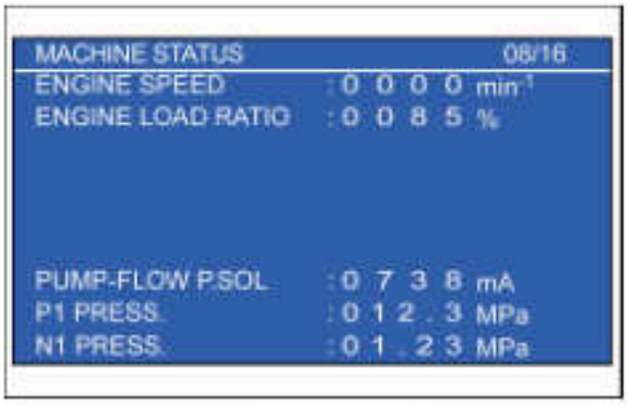
Type	Components	Connectors/link	Description
Connector	CN.A48	**CN.A48**	

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8. Engine

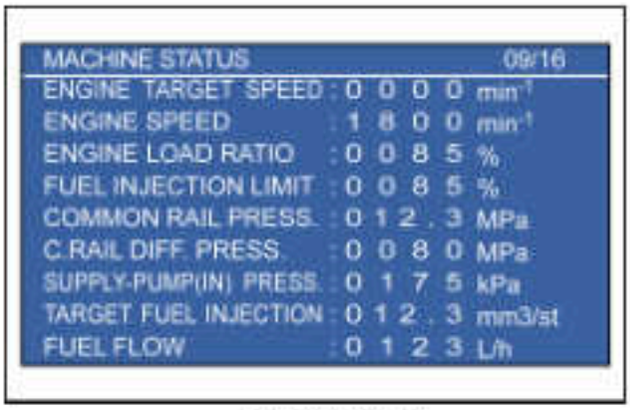
ENGINE SPEED	min^{-1} (rpm)	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
PUMP-FLOW P.SOL.	mA	Actual milli-amp for flow proportional valve
P1 PRESS.	MPa (psi)	P1 pressure
N1 PRESS.	MPa (psi)	N1 pressure



9

9. Engine

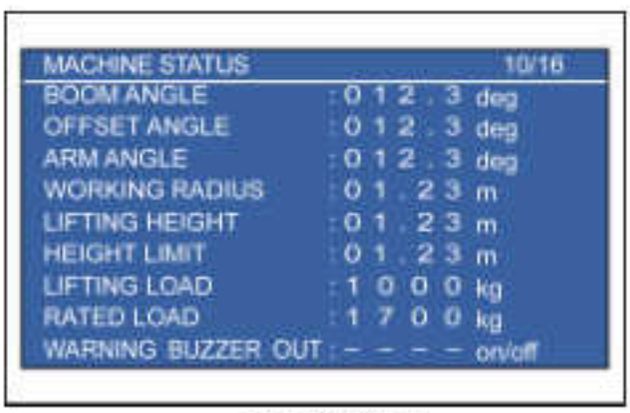
ENGINE TARGET SPEED	min^{-1} (rpm)	Engine target speed
ENGINE SPEED	min^{-1} (rpm)	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
FUEL INJECTION LIMIT	%	Fuel injection quantity limit level
COMMON RAIL PRESS.	MPa (psi)	Common rail pressure
C. RAIL DIFF. PRESS.	MPa (psi)	Common rail differential pressure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



10

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



11

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Anti-theft system - Dynamic description

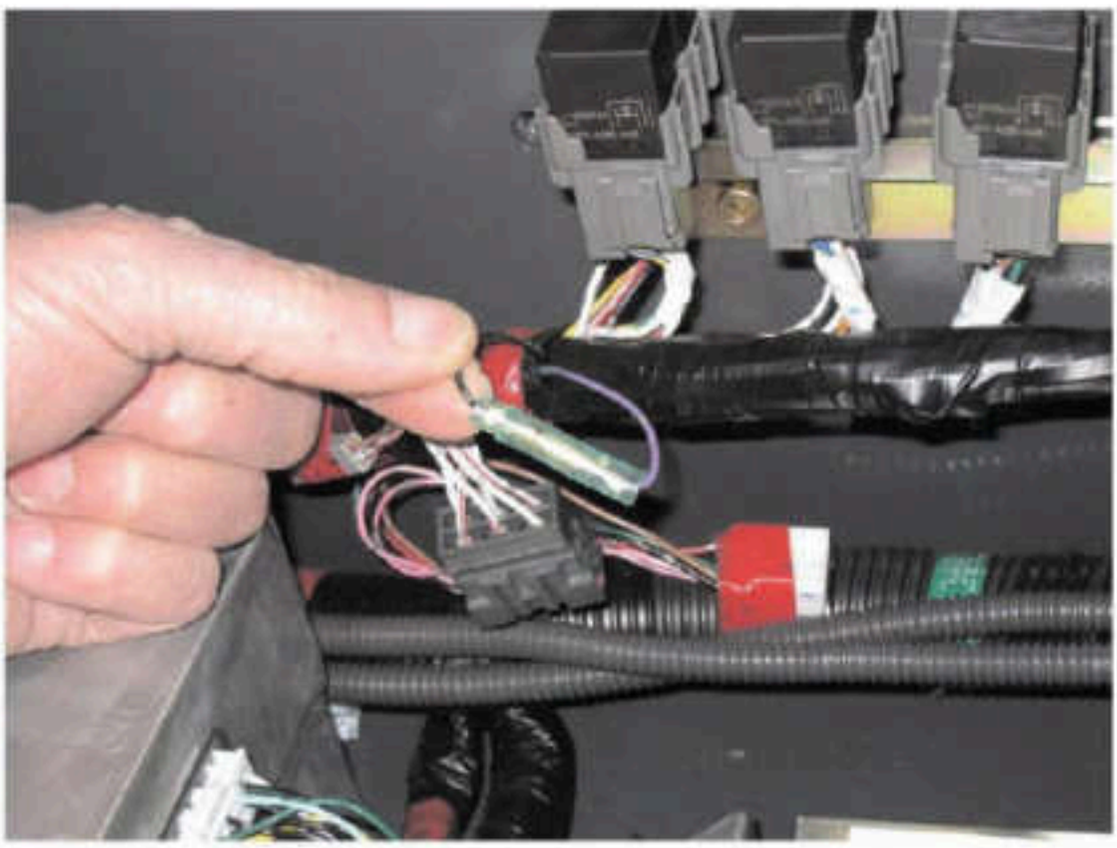
Enabling the anti-theft function

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)

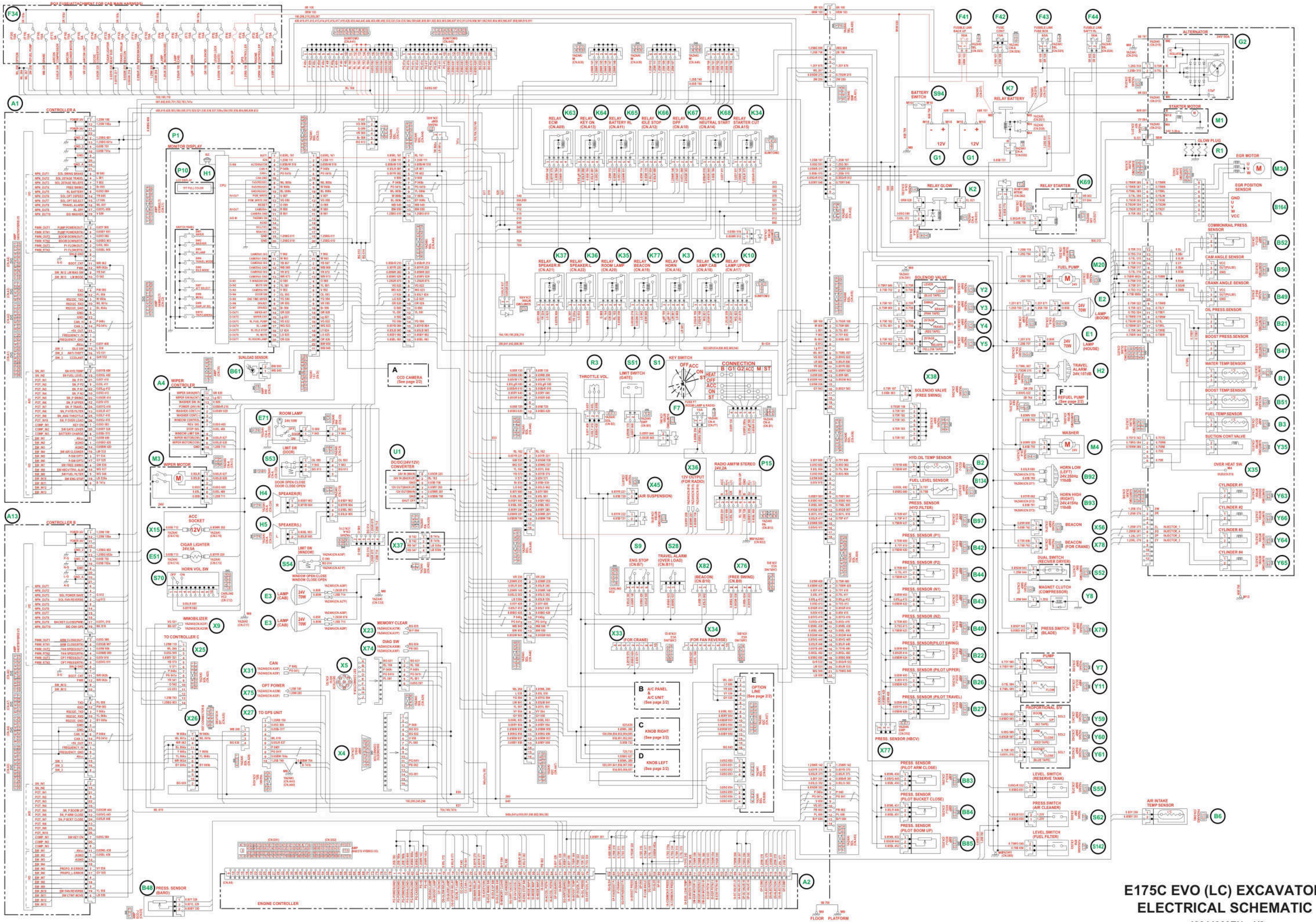
Operation explanation

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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