SERVICE MANUAL

E385C EVO

Crawler Excavator

Part number 48034228
English
June 2016

NEW HOLLAND CONSTRUCTION

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Contents

INTRODUCTION

Engine 10

[10.001] Engine and crankcase 10.1

[10.102] Pan and covers 10.2

[10.106] Valve drive and gears 10.3

[10.101] Cylinder heads 10.4

[10.105] Connecting rods and pistons 10.5

[10.103] Crankshaft and flywheel 10.6

[10.216] Fuel tanks 10.7

[10.206] Fuel filters 10.8

[10.218] Fuel injection system 10.9

[10.250] Turbocharger and lines 10.10

[10.254] Intake and exhaust manifolds and muffler 10.11

[10.501] Exhaust Gas Recirculation (EGR) exhaust treatment 10.12

[10.400] Engine cooling system 10.13

[10.414] Fan and drive 10.14

[10.310] Aftercooler 10.15

[10.304] Engine lubrication system 10.16

[10.408] Oil cooler and lines 10.17

Hydraulic systems 35

[35.000] Hydraulic systems 35.1

[35.300] Reservoir, cooler, and filters 35.2

[35.104] Fixed displacement pump 35.3

[35.106] Variable displacement pump 35.4

[35.102] Pump control valves 35.5

[35.359] Main control valve 35.6

[35.357] Pilot system 35.7

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[35.355] Hydraulic hand control 35.8
[35.356] Hydraulic foot control 35.9
[35.352] Hydraulic swing system 35.10
[35.353] Hydraulic travel system 35.11
[35.354] Hydraulic central joint 35.12
[35.736] Boom hydraulic system 35.13
[35.737] Dipper hydraulic system 35.14
[35.738] Excavator and backhoe bucket hydraulic system 35.15
[35.360] Hammer and rotating bucket hydraulic system 35.16

Frames and ballasting 39

[39.140] Ballasts and supports 39.1

Tracks and track suspension 48

[48.130] Track frame and driving wheels 48.1
[48.100] Tracks 48.2
[48.134] Track tension units 48.3
[48.138] Track rollers 48.4

Cab climate control 50

[50.100] Heating 50.1
[50.200] Air conditioning 50.2

Electrical systems 55

[55.000] Electrical system 55.1
[55.100] Harnesses and connectors 55.2
[55.525] Cab engine controls 55.3
[55.015] Engine control system 55.4
[55.201] Engine starting system 55.5
[55.301] Alternator 55.6
[55.302] Battery 55.7
[55.202] Cold start aid 55.8

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[55.010] Fuel injection system 55.9
[55.014] Engine intake and exhaust system 55.10
[55.989] Exhaust Gas Recirculation (EGR) electrical system 55.11
[55.012] Engine cooling system 55.12
[55.013] Engine oil system 55.13
[55.640] Electronic modules 55.14
[55.512] Cab controls 55.15
[55.036] Hydraulic system control 55.16
[55.051] Cab Heating, Ventilation, and Air-Conditioning (HVAC) controls 55.17
[55.050] Heating, Ventilation, and Air-Conditioning (HVAC) control system 55.18
[55.416] Swing control system 55.19
[55.417] Travel control system 55.20
[55.530] Camera 55.21
[55.518] Wiper and washer system 55.22
[55.404] External lighting 55.23
[55.514] Cab lighting 55.24
[55.408] Warning indicators, alarms, and instruments 55.25
[55.992] Anti-theft system 55.26
[55.DTC] FAULT CODES 55.27

Booms, dippers, and buckets 84

[84.910] Boom 84.1
[84.912] Dipper arm 84.2
[84.100] Bucket 84.3

Platform, cab, bodywork, and decals 90

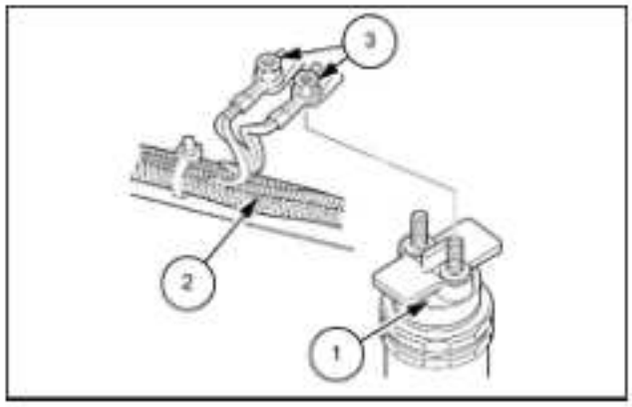
[90.150] Cab 90.1
[90.156] Cab windshield and windows 90.2
[90.120] Mechanically-adjusted operator seat 90.3

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2. Disengage the injector harness **(2)** from the injector **(1)**.

NOTICE: *Be careful not to damage the injector* ***(1)*** *side stud bolts.*

3. Terminal nut

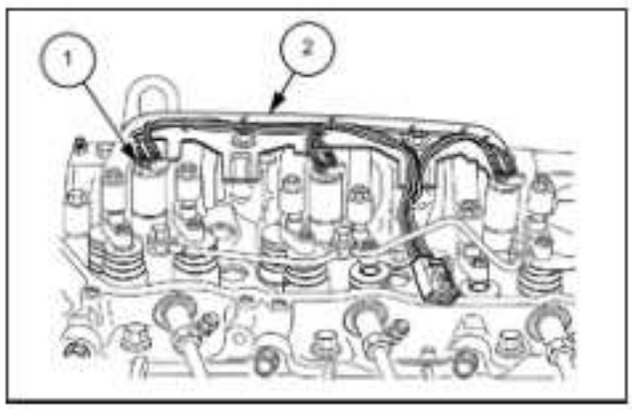


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3. Remove the injector harness from the cylinder head assembly.

NOTE: *Remove the bracket tightening bolts and then remove the injector harness together with the bracket.*

1. Injector harness terminal
2. Injector harness bracket



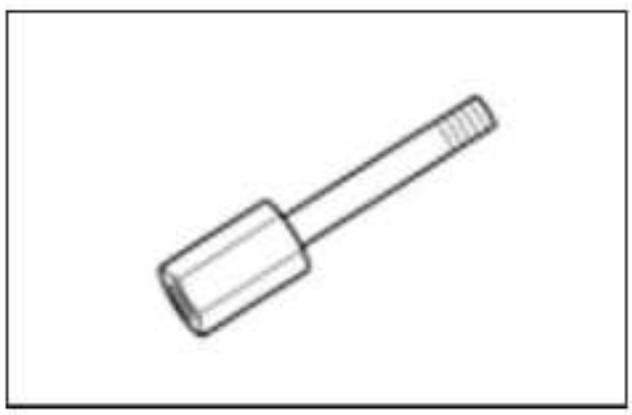
LPIL12CX0363248 27

Injector removal

1. Remove the injector leak-off pipe from the injector **(3)**.
2. Remove the injector from the cylinder head assembly.

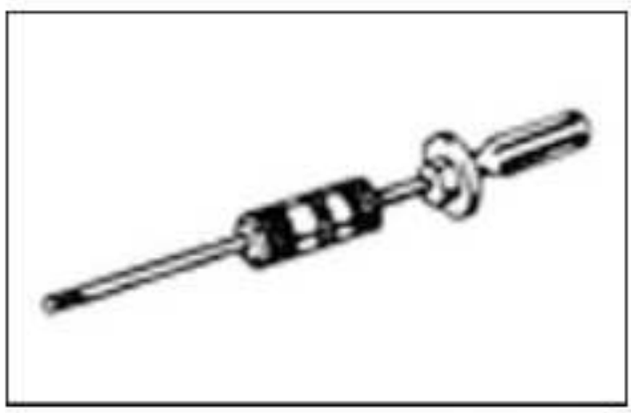
NOTE: *When it is difficult to remove the injector, use a special tool.*

Special tool: Injector remover (refer to **Fuel injectors - Special tools (10.218)**)



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Special tool: Sliding hammer (refer to **Fuel injectors - Special tools (10.218)**)



LPIL12CX0013AA 29

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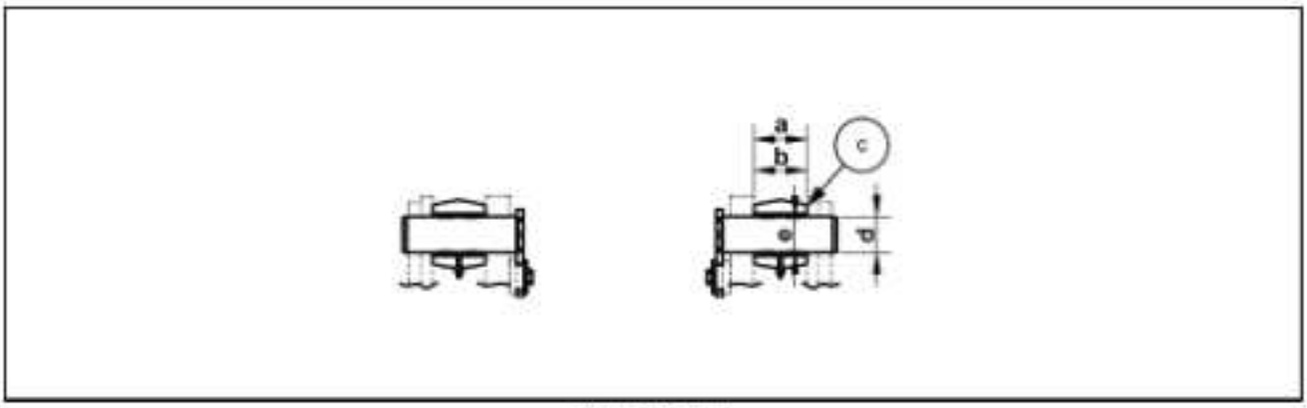
Electrical systems - 55

FAULT CODES - DTC

E385C EVO Crawler excavators LC version (TIER 3)

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2. Boom cylinder and swing frame installation section



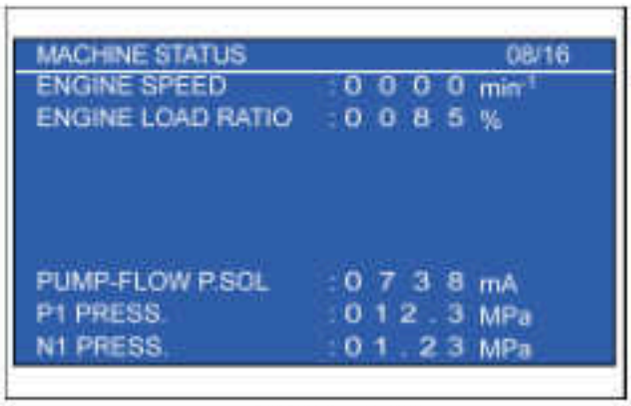
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Part name	Code	Standard value	Usage limits	Judgment	Solution
Swing frame	a	**131 mm (5.157 in)**	**137 mm (5.394 in)**	Acceptable/ Unacceptable	–
Boom cylinder (foot section)	b	**130 mm (5.118 in)**	**128 mm (5.039 in)**	Acceptable/ Unacceptable	Replacement
Clearance	c	**1.0 - 2.5 mm (0.039 - 0.098 in)**	Shim adjustment	Acceptable/ Unacceptable	Adjustment with shims
Pin	d	**Ø90 mm (3.543 in)**	**Ø89 mm (3.504 in)**	Acceptable/ Unacceptable	Replacement
Bushing (boom cylinder)	e	**Ø90 mm (3.543 in)**	**Ø91.5 mm (3.602 in)**	Acceptable/ Unacceptable	Replacement

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8. Engine

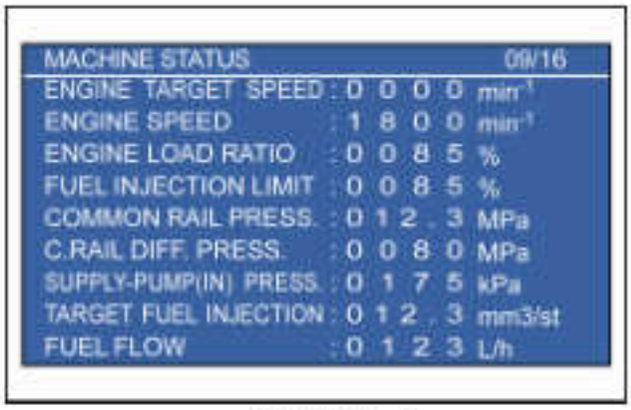
ENGINE SPEED	min^{-1} (rpm)	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
PUMP-FLOW P.SOL.	mA	Actual milli-amp for flow proportional valve
P1 PRESS.	MPa (psi)	P1 pressure
N1 PRESS.	MPa (psi)	N1 pressure



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9. Engine

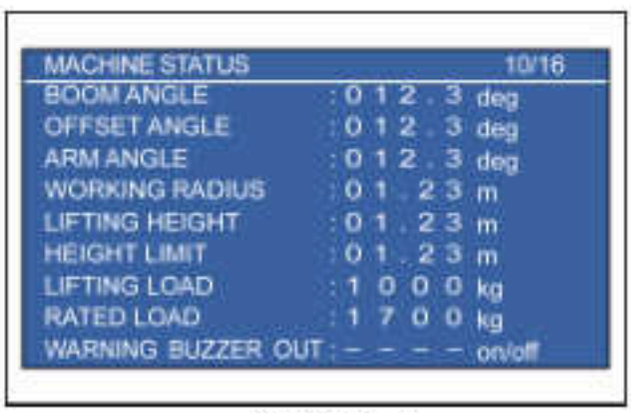
ENGINE TARGET SPEED	min^{-1} (rpm)	Engine target speed
ENGINE SPEED	min^{-1} (rpm)	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
FUEL INJECTION LIMIT	%	Fuel injection quantity limit level
COMMON RAIL PRESS.	MPa (psi)	Common rail pressure
C. RAIL DIFF. PRESS.	MPa (psi)	Common rail differential pressure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



SML14CE434BAA 11

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Anti-theft system - Dynamic description

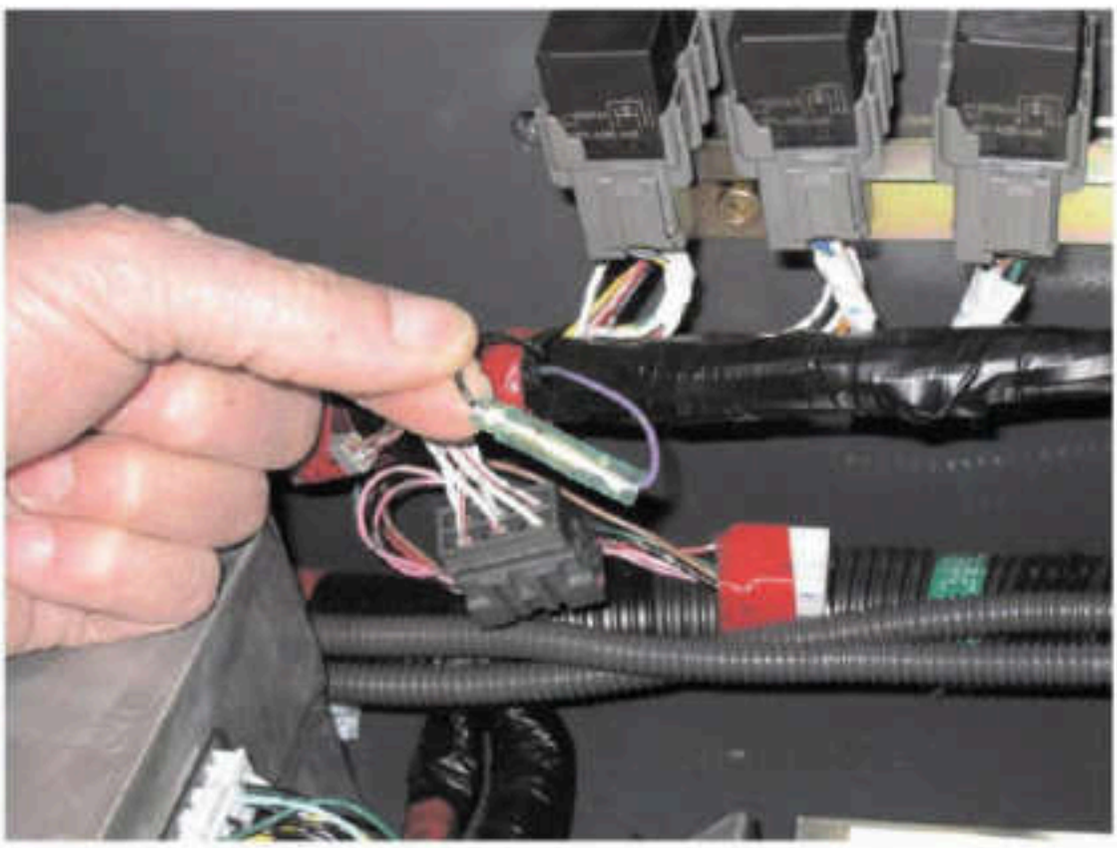
Enabling the anti-theft function

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).



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Password

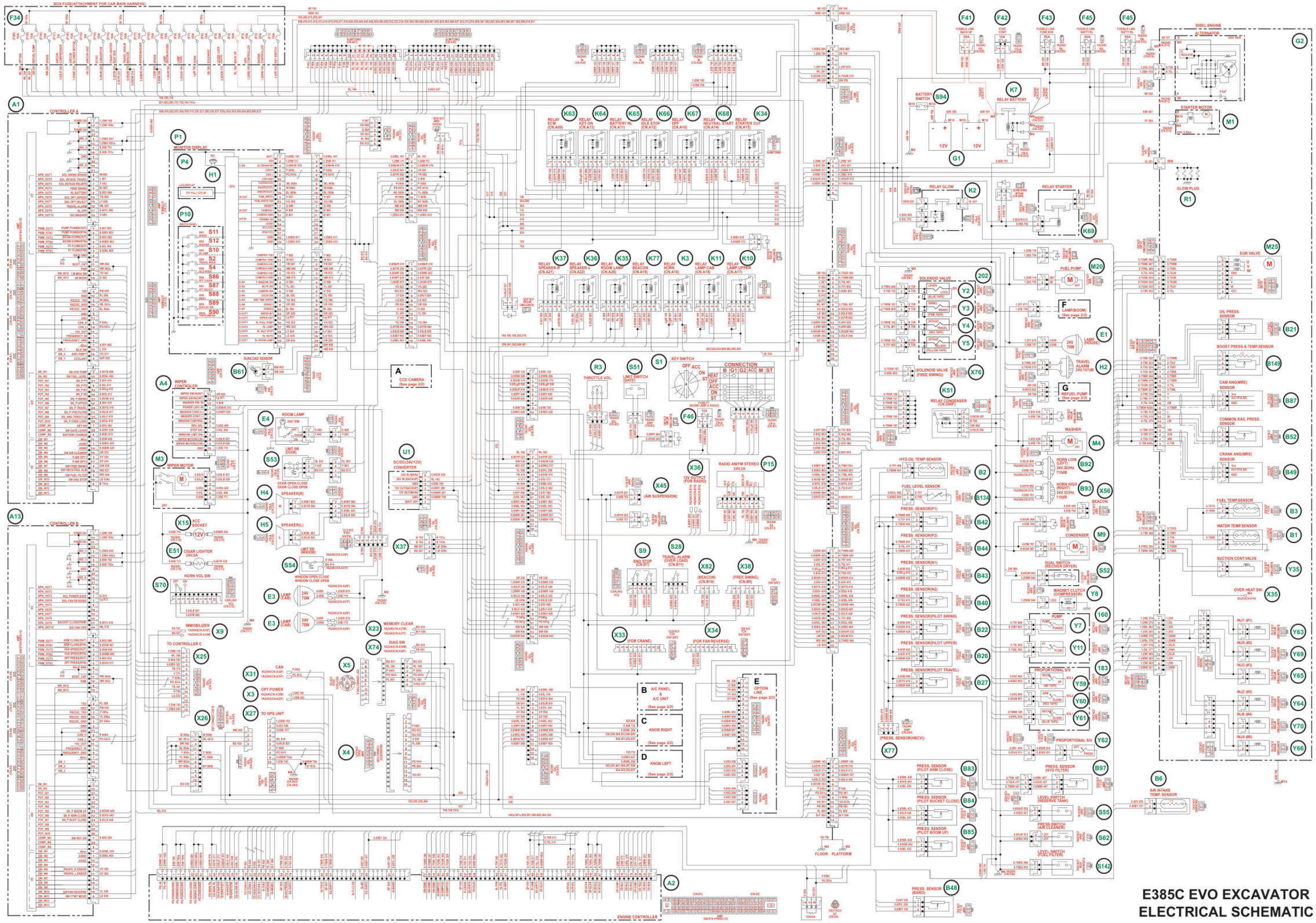
Purpose

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.
   - The swing brake cannot be released.
   - The travel alarm buzzes continuously.

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