SERVICE MANUAL

E145C EVO
Crawler Excavator

Part number 48034213
English
June 2016

NEW HOLLAND CONSTRUCTION

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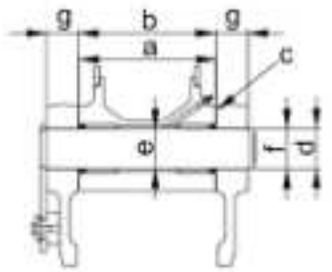
Type	Components	Connectors/link	Description
Controller	A6		Blower controller
Sensor	B5		Evaporator sensor
Air conditioner	E52		Air conditioner
Relay	K103		Relay compressor
Relay	K17		Blower off relay
Motor	M8		Blower motor
	R4		Thermistor inner temperature
Connector	CN.B19	**CN.B19**	
Connector	CN.B20	**CN.B20**	
Connector	CN.B22	**CN.B22**	
Connector	CN.F1	**CN.F1**	Relay compressor
Connector	CN.F2	**CN.F2**	Relay blower OFF
Connector	CN.F3	**CN.F3**	Blower motor
Connector	CN.F4	**CN.F4**	Blower amp
Connector	CN.F5	**CN.F5**	Temperature sensor (recirculate)
Connector	CN.F6	**CN.F6**	Temperature sensor (evaporator)

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Wiring harnesses - Electrical schematic sheet 06 (55.100) Wiring harnesses - Electrical schematic sheet 10 (55.100)

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5. Boom and arm installation section



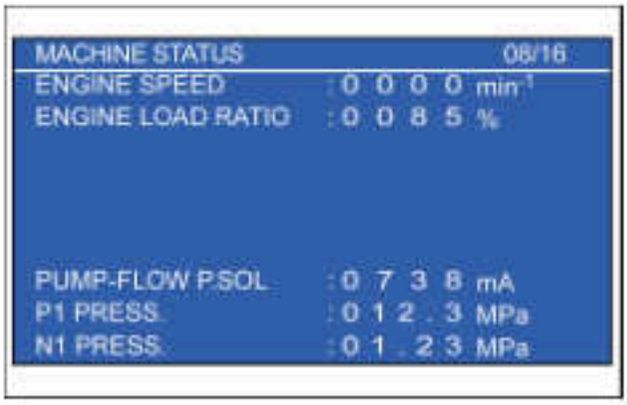
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Part name	Code	Standard value	Usage limits	Judgment	Solution
Boom	a	259 mm (10.197 in)	262 mm (10.315 in)	Acceptable/ Unacceptable	Replace-ment
Arm	b	256.5 mm (10.098 in)	254.5 mm (10.02 in)	Acceptable/ Unacceptable	Replace-ment
Clearance	c	0.5 - 1.1 mm (0.02 - 0.043 in)	Shim adjustment	Acceptable/ Unacceptable	Adjust-ment with shims
Pin	d	Ø75 mm (2.953 in)	Ø74 mm (2.913 in)	Acceptable/ Unacceptable	Replace-ment
Bushing (arm)	e	Ø75 mm (2.953 in)	Ø76.5 mm (3.012 in)	Acceptable/ Unacceptable	Replace-ment
Boom	f	Ø75 mm (2.953 in)	Ø76.5 mm (3.012 in)	Acceptable/ Unacceptable	Replace-ment
Boom	g	60 mm (2.362 in)	58 mm (2.283 in)	Acceptable/ Unacceptable	Replace-ment

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8. Engine

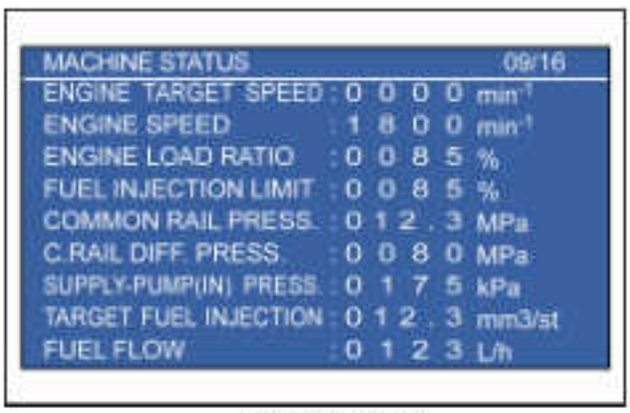
ENGINE SPEED	min^{-1} (rpm)	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
PUMP-FLOW P.SOL.	mA	Actual milli-amp for flow proportional valve
P1 PRESS.	MPa (psi)	P1 pressure
N1 PRESS.	MPa (psi)	N1 pressure



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9. Engine

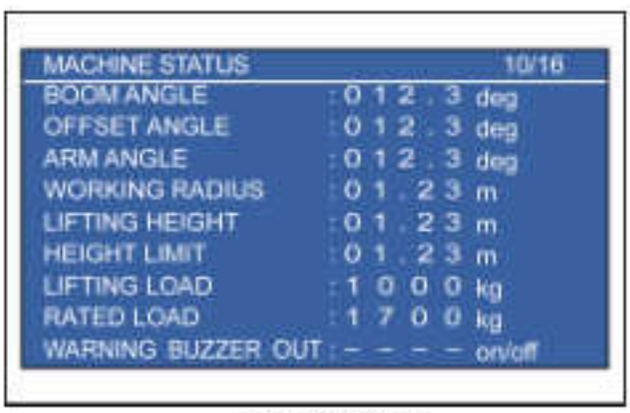
ENGINE TARGET SPEED	min^{-1} (rpm)	Engine target speed
ENGINE SPEED	min^{-1} (rpm)	Engine speed
ENGINE LOAD RATIO	%	Engine load ratio
FUEL INJECTION LIMIT	%	Fuel injection quantity limit level
COMMON RAIL PRESS.	MPa (psi)	Common rail pressure
C. RAIL DIFF. PRESS.	MPa (psi)	Common rail differential pressure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

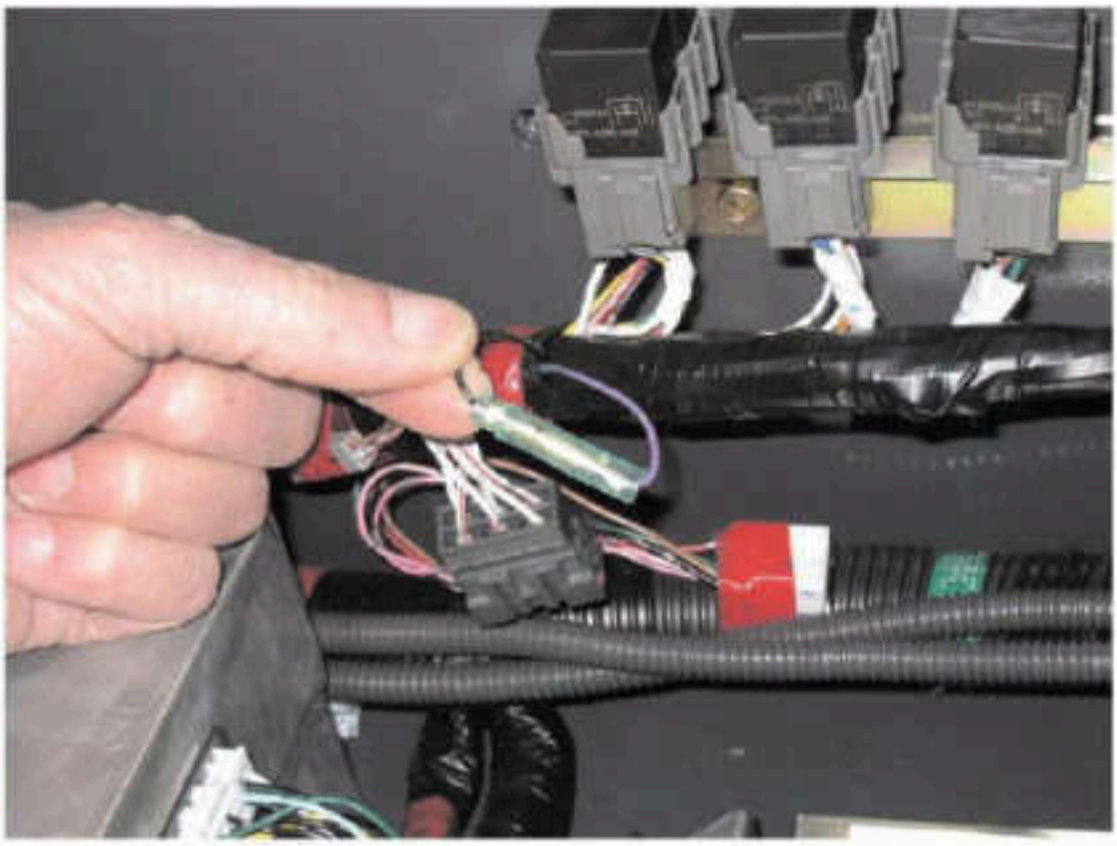
Enabling the anti-theft function

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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E145C EVO EXCAVATOR ELECTRICAL SCHEMATIC

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