SERVICE MANUAL

E265B
E265BLC
(HS Engine)

Print No. 87731202

NEW HOLLAND CONSTRUCTION

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3.3.4 BOSS SECTION DIMENSIONAL DRAWING

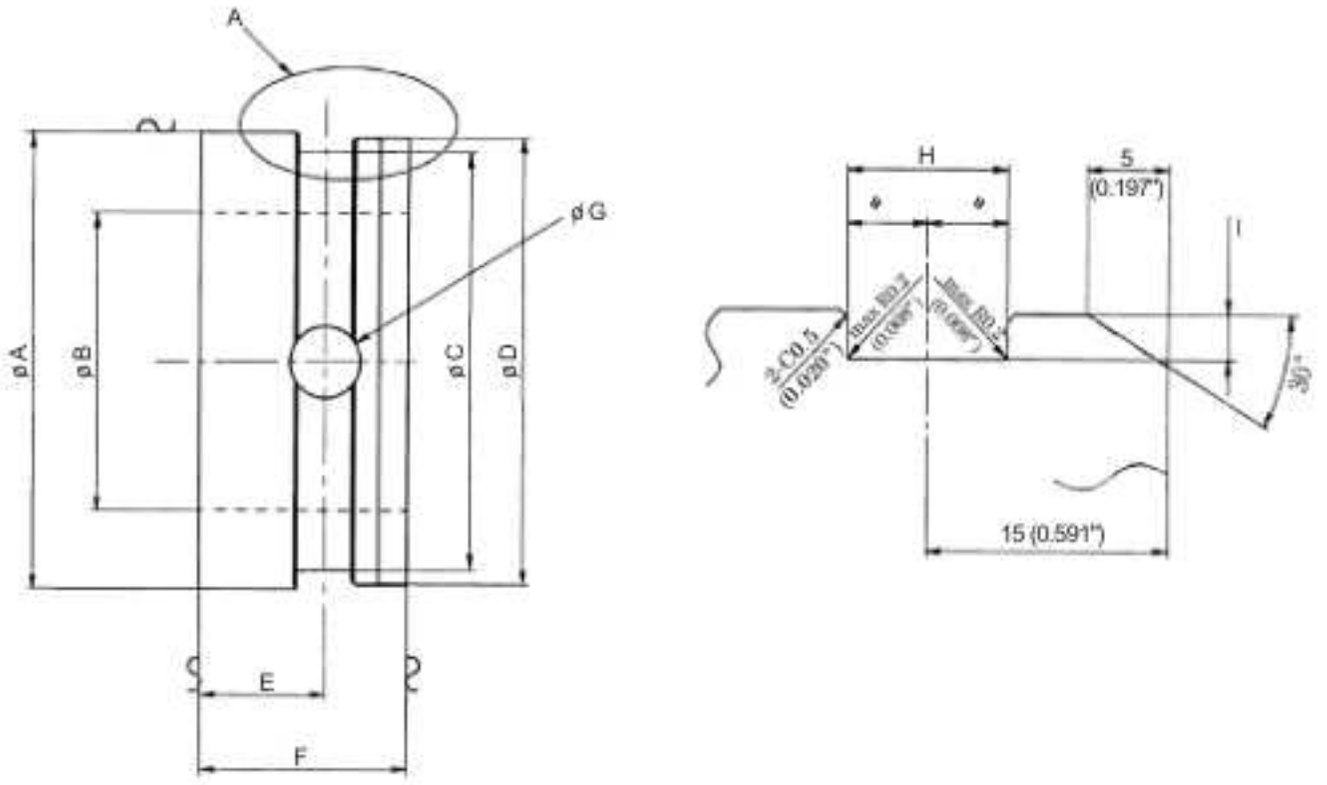


Fig. 3-9 Dimension of boss section

Unit : mm (ft-in)

Type of bucket	Capacity of bucket m³ (cu•yd)	Part No. of bucket	Part No. of boss	øA	øB	øC	øD	E	F	øG	H	I
Hoe bucket	0.81 (1.06) [STD]	LQ61B00170F1	LQ61B01016P1	127 (5.00")	94 (3.7")	118.5 (4.67")	124.5 (4.9")	15 (0.59")	30 (1.18")	17 (0.669")	13 (0.512")	3.0 (0.12")
	1.00 (1.31)	LQ61B00186F1										
	1.20 (1.57)	LQ61B00125F1										
	1.40 (1.83)	LQ61B00166F1	2418P26834	†	†	†	†	19 (0.75")	34 (1.34")	†	†	†

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33.1.13 ENGINE

33.1.13.1 PREPARATION FOR REMOVING

(1) Remove battery ground (See 33.1.3 BATTERY)

(2) Remove bonnet and guard (See 33.1.4 GUARD) Remove under cover (See 33.1.5 UNDER COVER)

(3) Remove air cleaner hose (See 33.1.9 AIR CLEANER)

(4) Remove counterweight (See 33.1.11 COUNTERWEIGHT)

(5) Remove radiator hose and inter-cooler hose (See 33.1.12 RADIATOR & OIL COOLER)

(6) Remove fuel hose and heater hose, and if necessary disconnect air-con hose.

(7) If necessary, remove pump, muffler and radiator.

(8) Remove harness connector (Refer to ELECTRIC SYSTEM)

1) Remove E/G ground cable
2) Starter cable-Starter B terminal
3) Remove the connector that connects the upper harness with the engine and ECU harness.
4) Upper harness

- CN-206–E/G sub harness
- P5–Alternator B terminal
- CN-136–E/G speed sensor
- CN-141, CN142–Pump proportional valve
- CN-139, CN-140–P1,P2 pump pressure sensor
- CN-212–Glow
- P3–Starter motor C terminal

Note

Prepare a stand, which withstands the weight of the engine assy and can place the removed engine firmly. (Refer to Tools)

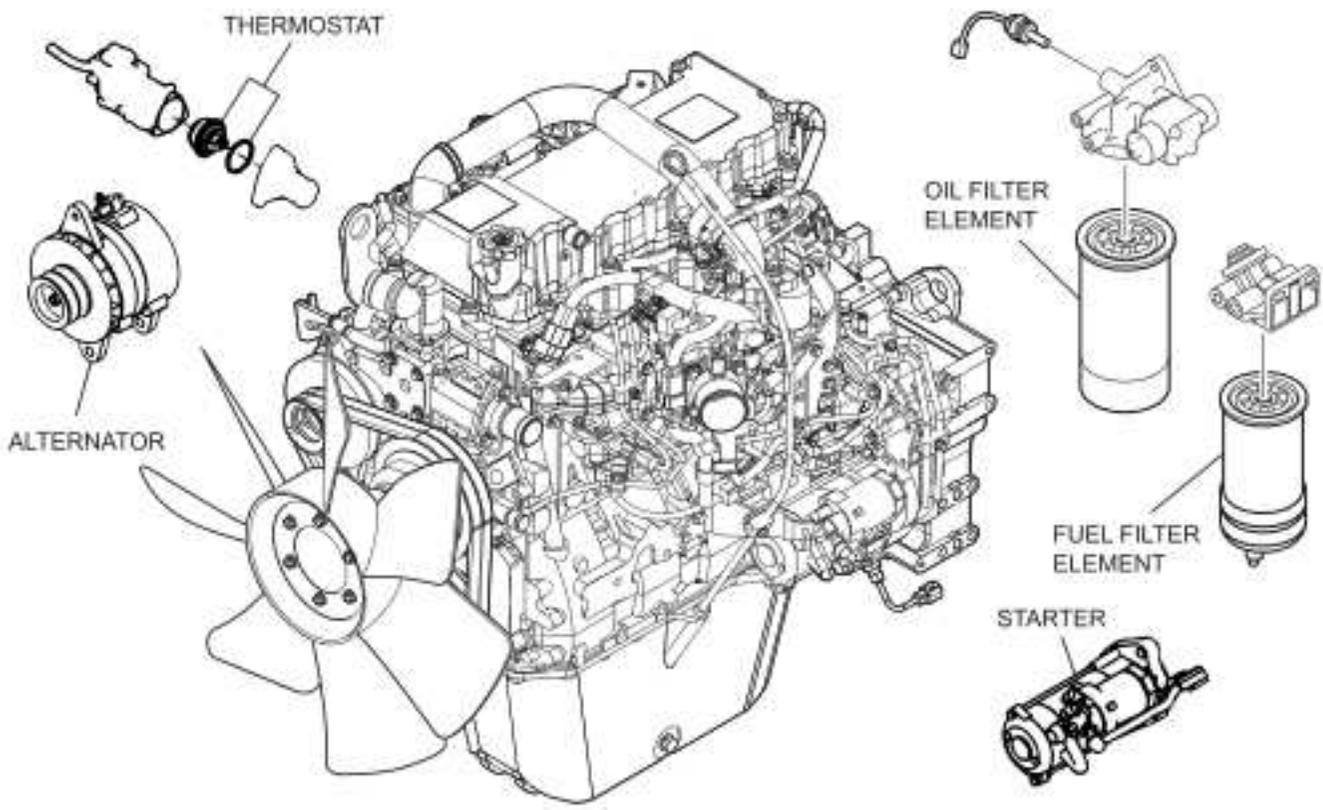


Fig. 33-64 Outside view of engine

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Table46-63

Error code	E013		
Trouble	P1 pump proportional valve's wiring is disconnected.		
Judging condition	The feed-back value from proportional valve is 100mA or less. (If output is 100mA or less, judging is not done.)		
Symptom	The delicate operability of P2 pump related attachment becomes poor.		
Control in the event of failure	Set proportional valve output rate of P1 and P2 pumps to 0mA. (Hydraulic pump emergency mode)		
Returned in normal condition	Not returned automatically under normal condition. Switch the power OFF once and turns on it again.		
Service diagnosis checking screen	Screen No.	9	E-1 PUMP P1
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	• P1 pump proportional valve PSV-P1		When E013 is cancelled and other error occurs by turning starter switch on after exchanging the connector with other sensor. Check sensor unit for possible failure. If failure found, replace it. When replacing of connector is executed, turn off power source once.
2	• Wiring between P1 pump proportional valve and controller CN-141F CN-105F		When E013 is displayed after turning the starter switch on after the connector is exchanged with other sensor. Check wiring for possible failure according to the wiring checking procedure and repair it if necessary. When replacing of connector is executed, turn off power source once.
3	• Mechatro controller		Check that the error is corrected after replacement of controller.

Table46-64

Error code	E022		
Trouble	P2 pump proportional valve and output transistor ON are failure.		
Judging condition	The feed-back value from proportional valve is 1000mA or more.		
Symptom	The delicate operability of P2 pump related attachment becomes poor.		
Control in the event of failure	Set proportional valve output rate of P1 and P2 pumps to 0mA. (Hydraulic pump emergency mode)		
Returned in normal condition	Not returned automatically under normal condition. Switch the power OFF once and turns on it again.		
Service diagnosis checking screen	Screen No.	9	E-2 PUMP P2
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	• P2 pump proportional valve PSV-P2		When E022 is cancelled and other error occurs by turning starter switch on after exchanging the connector with other sensor. Check sensor unit for possible failure. If failure found, replace it. When replacing of connector is executed, turn off power source once.
2	• Wiring between P2 pump proportional valve and controller CN-142F CN-105F		When E022 is displayed after turning the starter switch on after the connector is exchanged with other sensor. Check wiring for possible failure according to the wiring checking procedure and repair it if necessary. When replacing of connector is executed, turn off power source once.
3	• Mechatro controller		Check that the error is corrected after replacement of controller.

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33.2.2.3.11 Disassembling P2 unload spool

(1) Loosen socket bolts (273), and remove spring cover (202) of P2 unload spool and O-ring (261).

(2) Draw out the assembly which is consist of P2 unload spool (310), spring seat (331), spring (327, 329), stopper (336) and bolt (333) from casing A (101).

CAUTION

When drawing out the spool assy, use care so as not to score casing A (101).

(3) Fix the P2 unload spool assy with vise via a protective plate (aluminum plate etc.) and remove bolt (333). Then remove spring seat (331), spring (327, 329) and stopper (336) from P2 unload spool (310).



Fig. 33-167 Removing P2 unload spring cover (202)



Fig. 33-168 Drawing out P2 unload spool assy (310)

33.2.2.3.12 Removing spool covers

(1) Travel, boom, bucket, arm 1, arm 2 and option
Loosen socket bolts (273) and remove spool cover (205) and O-ring (264).

(2) Swing
Loosen socket bolts (273) and remove spool cover (206) and O-ring (264), (266). Do not disassemble spool cover (206) further unless there is special reason.



Fig. 33-169 Removing spool cover (205),(206)

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