SERVICE MANUAL

E225BSR

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NEW HOLLAND CONSTRUCTION

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1. OUTLINE

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3.3.4 BOSS SECTION DIMENSIONAL DRAWING

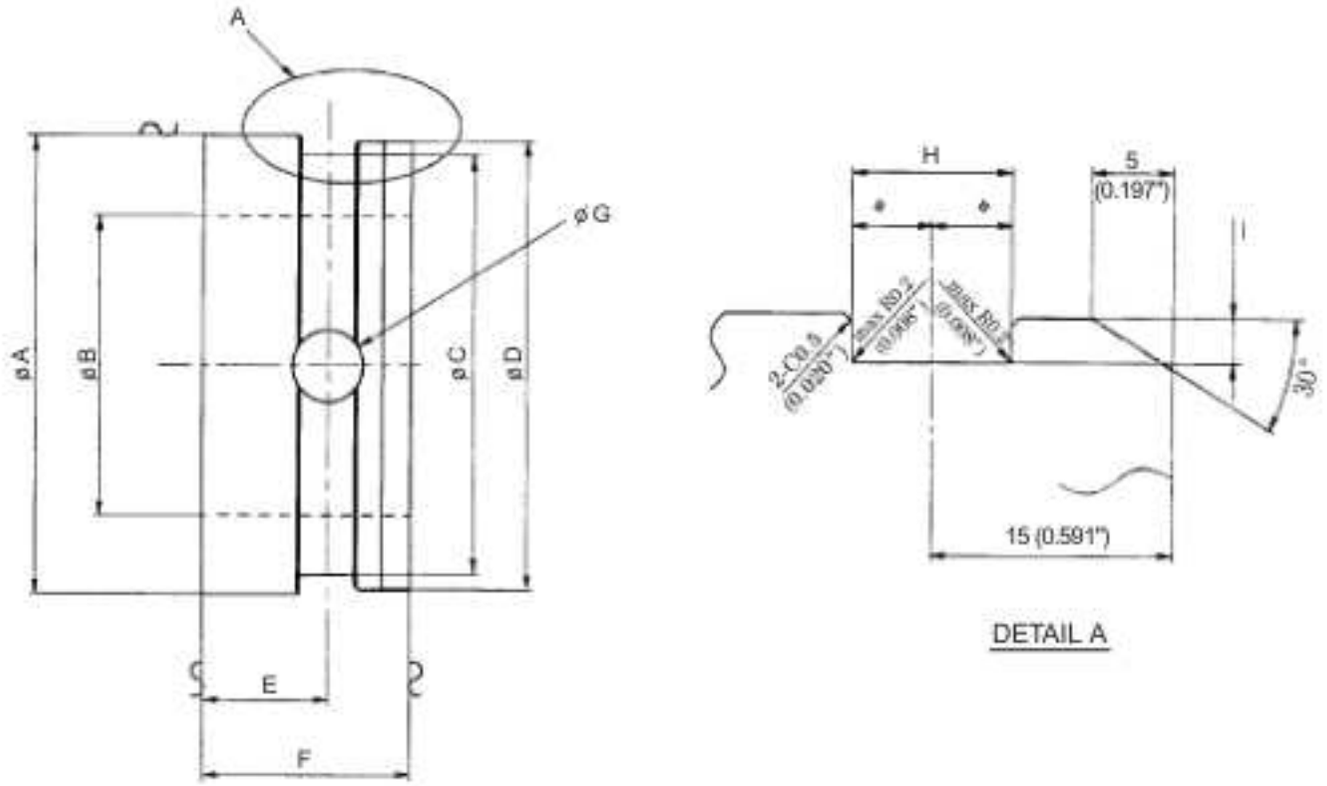


Fig. 3-9 Dimension of boss section

Unit : mm (ft-in)

Type of bucket	Capacity of bucket m³ (cu•yd)	øA	øB	øC	øD	E	F	øG	H	I
Normal digging	[STD] 0.80 (0.70) 0.51 (0.45) 0.70 (0.61) 0.93 (0.80) 1.05 (0.90)	114.3 (4.50")	84 (3.31")	105.5 (4.15")	111.5 (4.39")	23 (0.91")	38 (1.50")	17 (0.669")	13 (0.512")	2.5 (0.098")

Bucket capacity : SAE heaped (Struck)

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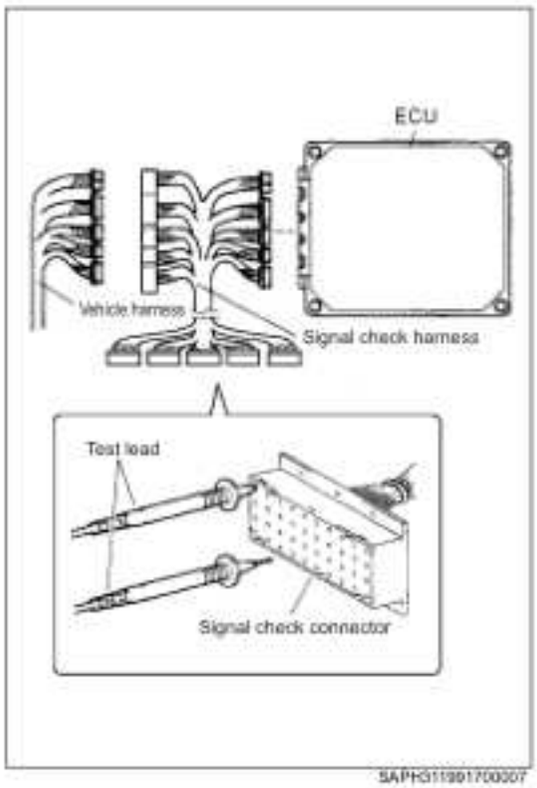
Table46-35

Error code	B104		
Trouble	Travel left pressure sensor's power source is shortcut.		
Judging condition	The input voltage from Travel left pressure sensor is 4.7V or more.		
Symptom	All operation speed slows down.		
Control in the event of failure	Set proportional valve output rate of P1 and P2 pumps to constant current. (Current value in all operation is neutral.) Set output of P1 unload proportional valve to 0mA. (Valve emergency mode)		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.	6	B-10 TRAVEL (L)
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	• Travel left pressure sensor SE-10		When B104 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.
2	• Wiring between travel left pressure sensor and controller CN-302F CN-102F		When B104 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.
3	• Mechatro controller		Check that the error is corrected after replacement of controller.

Table46-36

Error code	B113		
Trouble	Option selector position detect pressure sensor's wiring is disconnected.		
Judging condition	The input voltage from option selector position detect pressure sensor is less than 0.1V.		
Symptom	When B mode is selected, option selector valve error is indicated.		
Control in the event of failure	Normal control		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.	16	B-11
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	• Option selector position detect pressure sensor SE-29		When B113 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.
2	• Wiring between option selector position detect pressure sensor and controller CN-162F CN-104F		When B113 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.
3	• Mechatro controller		Check that the error is corrected after replacement of controller.

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2. Connection of signal check harness

(1) Set the starter key to "OFF" and disconnect the connector from the engine ECU.

(2) Connect the signal check harness to the the engine ECU and the machine harness.

Special tool : Signal check harness (09049-1080)

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2) Fitting the sleeve and the spool (See Fig. 33-106)
Place sleeve (651) and spool (652) into the sleeve hole of casing (601).

CAUTION

- Make sure the spool and the sleeve slide smoothly in the casing without catching.
- Make sure the direction of the spool is correct.

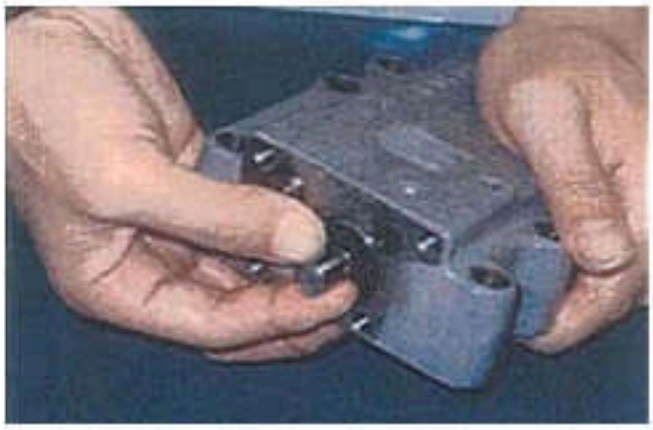


Fig. 33-113 Fitting sleeve (651) and spool (652).

3) Installing feedback lever (See Fig. 33-106)
Insert pin (897) of feedback lever (611) into the pin hole of the sleeve and fix the feedback lever with fulcrum plug (614).

CAUTION

Operate the feedback lever and make sure that it does not have much looseness and that it operates without catching.



Fig. 33-114 Installing feedback lever (611)

4) Installing spring seat, pilot spring and plunger (See Fig. 33-106)
Place spring seat (624), pilot spring (646) and plunger (627) into the hole in the sleeve.

5) Installing cover (See Fig. 33-106)
Attach cover (656) to casing (601) and fasten them together with socket bolts (402).

Note

The cover is fitted with set screw (924) and hex nut (801).

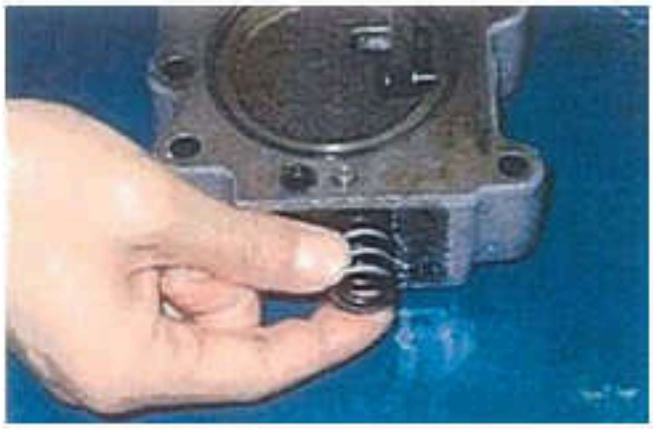


Fig. 33-115 Installing spring seat (624), pilot spring (646) and plunger (627)

6) Assembling the Pf sleeve and the pilot piston (See Fig. 33-106)
Assemble Pf sleeve (631) and pilot piston (643) into casing (601).



Fig. 33-116 Assembling the sleeve (631) and the pilot piston (643).

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(1) Assembling spindle

1) Set spindle (101) on work bench.

2) Fit outer ring of taper roller bearing (149) into the center hole of spindle.

3) Place piston (161) in the cylinder hole of spindle.

4) Place steel balls (162) in piston hole.



Note

Apply grease to the steel ball to fix on the piston hole to be sure the steel ball does not drop out of the piston during assembly which will be carried out later.

5) Attach L side of pivot (167) to the left side in the picture.

6) Insert shaft (102).



Note

Apply grease to spline of shaft and slowly insert it taking care not to damage the lip of oil seal.

(2) Assembling rotary section

1) Apply grease to the sliding surface of swash plate (103) and pivot.

2) Tilt the swash plate and place it in spindle.



Note

- Make sure that the speed is changed in High and Low smoothly while blowing air through the drilled hole after assembling the swash plate in.
- Apply clean hydraulic oil to the sliding surface of swash plate.

3) Turn work bench sideways.

4) Set cylinder block (104), piston (105), spring (114), thrust ball (108) and retainer plate (107) and insert it in the shaft.



Note

- Apply clean hydraulic oil to the sliding surface of cylinder block, piston, thrust ball and shoe (106).
- On inserting cylinder block assembly in the shaft, fix the reduction unit side of shaft first and the insertion can be performed smoothly.

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