# SERVICE MANUAL

## E385B
## E385BLC
## (HS Engine)

Print No. 87731198

NEW HOLLAND CONSTRUCTION

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### 3.3.4 BOSS SECTION DIMENSIONAL DRAWING

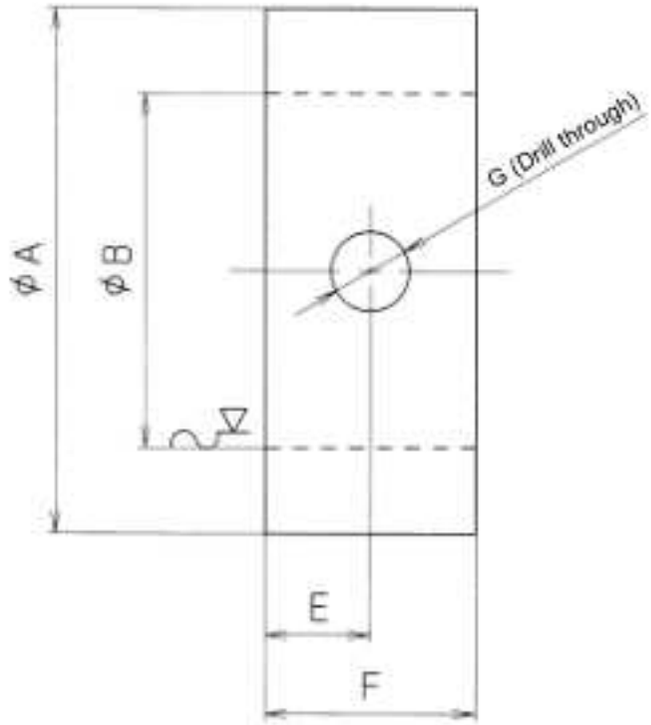



**Fig. 3-9 Dimension of boss section**

Unit : mm (ft-in)

| Type of bucket | Capacity of bucket m³ (cu•yd) | Part No. of bucket | Part No. of boss | øA | øB | E | F | øG |
|---|---|---|---|---|---|---|---|---|
| GD bucket | 1.40 (1.83) | LC61B00115F1 | LS12B01054P1 | 139.8 (5.50") | 103.8 (4.09") | 15 (0.591") | 40 (1.58") | 21 (0.827") |
| | 1.20 (1.57) | LC61B00052F1 | | | | | | |
| | 1.60 (2.09) | LC61B00118F1 | | | | | | |
| | 1.80 (2.35) | LC61B00057F1 | | | | | | |



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**Table46-31**

| | | | |
|---|---|---|---|
| Error code | B093 | | |
| Trouble | Travel right pressure sensor's wiring is disconnected. | | |
| Judging condition | The input voltage from Travel right pressure sensor is 0.1V or less. | | |
| Symptom | The Travel right operability becomes poor. | | |
| Control in the event of failure | Set proportional valve output rate of P1 and P2 pumps to 0mA.<br>(Hydraulic pump emergency mode)<br>P1, Set output of P2 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-9 TRAVEL (R) |
| | Screen No. | | |
| | Screen No. | | |

| | Checking object | Checking contents and remedy |
|---|---|---|
| 1 | • Travel right pressure sensor SE-9 | When B093 is cancelled and other error occurs by turning starter switch on after exchanging the connector with other sensor.<br>Check sensor unit for possible failure. If failure found, replace it. |
| 2 | • Wiring between travel right pressure sensor and controller<br>CN-301F<br>CN-102F | When B093 is displayed after turning the starter switch on after the connector is exchanged with other sensor.<br>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. |

**Table46-32**

| | | | |
|---|---|---|---|
| Error code | B094 | | |
| Trouble | Travel right pressure sensor's power source is shortcut. | | |
| Judging condition | The input voltage from Travel right pressure sensor is 4.7V or more. | | |
| Symptom | The Travel right operability becomes poor. | | |
| Control in the event of failure | Set proportional valve output rate of P1 and P2 pumps to 0mA.<br>(Hydraulic pump emergency mode)<br>P1, Set output of P2 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-9 TRAVEL (R) |
| | Screen No. | | |
| | Screen No. | | |

| | Checking object | Checking contents and remedy |
|---|---|---|
| 1 | • Travel right pressure sensor SE-9 | When B094 is cancelled and other error occurs by turning starter switch on after exchanging the connector with other sensor.<br>Check sensor unit for possible failure. If failure found, replace it. |
| 2 | • Wiring between travel right pressure sensor and controller<br>CN-301F<br>CN-102F | When B094 is displayed after turning the starter switch on after the connector is exchanged with other sensor.<br>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. |



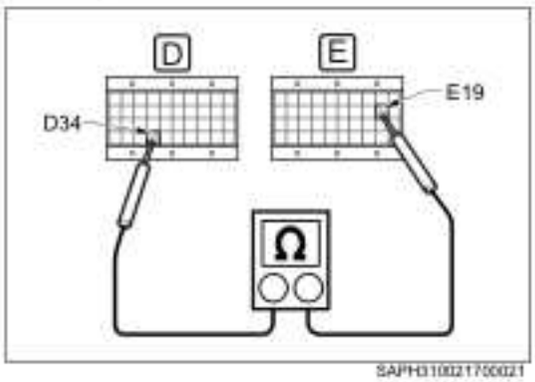
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# Coolant temperature sensor malfunction (DTC code P0117, P0118/diagnosis monitor code 11)

JP3100217060100?

| | | |
|---|---|---|
| DTC | P0117 | Coolant temperature sensor circuit low input |
| DTC | P0118 | Coolant temperature sensor circuit high input |

| 1 | Measurement of resistance between terminals |
|---|---|



SAPH3100217000?1

1. Set the starter key to "OFF" and connect the signal check harness.
2. Disconnect the ECU side connector of the signal check harness and meausre the resistance between terminal B19 and terminal D34.

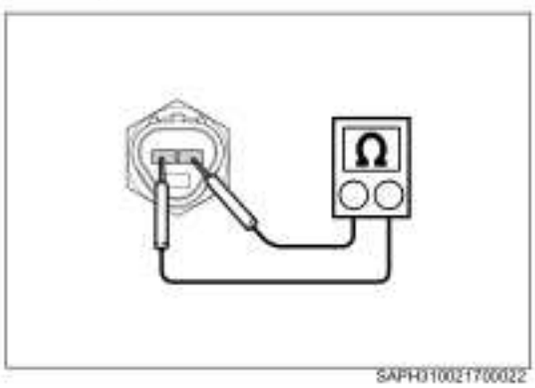
**Standard value (Measure either one point of the following.)**
**: 2.45 kΩ (Coolant temperature at 20 °C{68 °F})**
**: 1.15 kΩ (Coolant temperature at 40 °C{104 °F})**
**: 584 Ω (Coolant temperature at 60 °C{140 °F})**
**: 318 Ω (Coolant temperature at 80 °C{176 °F})**

NG → [2] Go to measurement of resistance between sensor terminals.

OK

Engine ECU failure, ECU connector failure, harness short-circuit

| 2 | Measurement of resistance between terminals |
|---|---|



SAPH3100217000?2

1. Disconnect the connector of the coolant temperature sensor and measure the resistance between No. 1 and No. 2 terminals at the sensor.

**Standard value (Measure either one point of the following.)**
**: 2.45 kΩ (Coolant temperature at 20 °C{68 °F})**
**: 1.15 kΩ (Coolant temperature at 40 °C{104 °F})**
**: 584 Ω (Coolant temperature at 60 °C{140 °F})**
**: 318 Ω (Coolant temperature at 80 °C{176 °F})**

NG → Failure of coolant temperature sensor

OK

Harness disconnection, connector failure

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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. 33-168 Removing P2 unload spring cover (202)



Fig. 33-169 Disassembling P2 unload spool assy (310)

### 33.2.2.3.12 Removing spool covers

(1) Travel, 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.

(3) Boom
Loosen socket bolts (273) and remove spool cover (206) and O-ring (264). Do not disassemble spool cover (208) further unless there is special reason.



Fig. 33-170 Removing spool cover (205),(206)



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