SERVICE MANUAL

E385C

Hino Diesel Engine J08E-UN

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NEW HOLLAND CONSTRUCTION

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ENGINE

(HINO DIESEL ENGINE J08E-UN)

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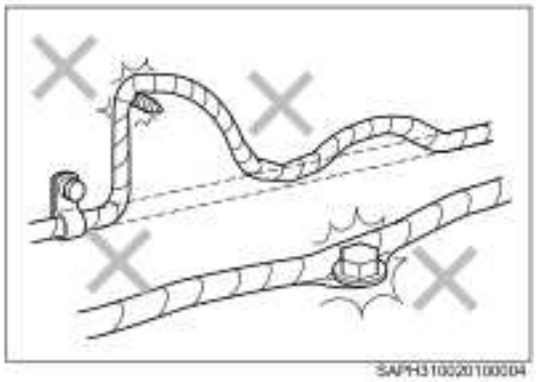
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1 GENERAL

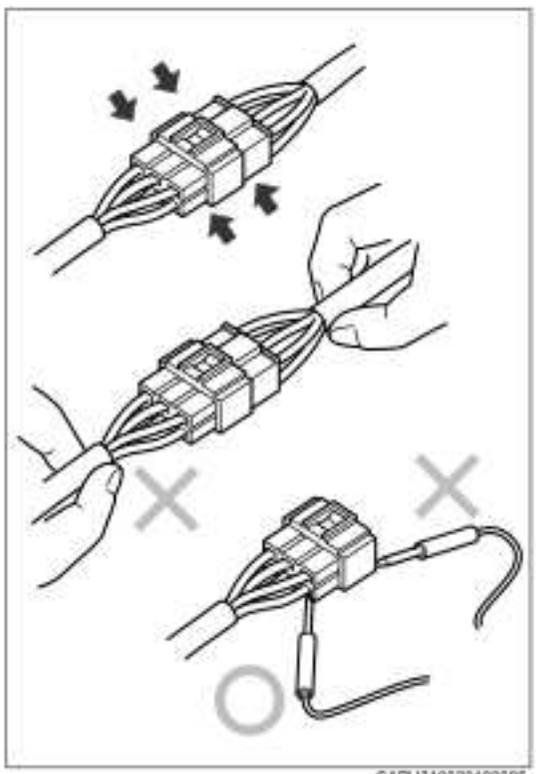
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(3) Handling of wire harness

a. Mark clamps and clips to prevent interference of a wire harness with body edge, sharp edge and bolts. Be sure to reassemble it to the original position.
b. When parts are assembled, be careful not to pinch a wire harness.



(4) Handling of connector

a. When a connector is removed, hold the connector (as shown by the arrow in the left) and pull it out. Do not pull the wire harness.
b. Unlock the locking connector before pulling.
c. Insert the locking connector completely until it clicks.
d. To insert a test lead into the connector, insert it from the back of the connector.
e. If it is difficult to insert a test lead from the back of the connector, prepare a harness for inspection.

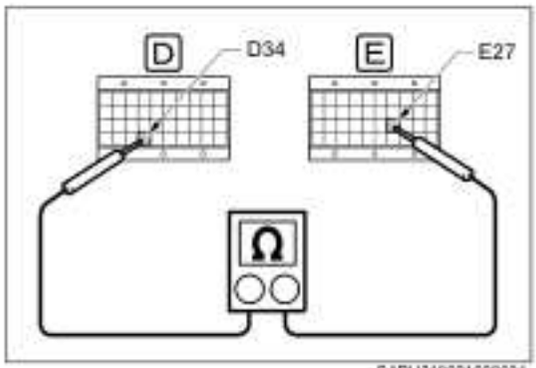
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Fuel temperature sensor malfunction (DTC code P0182, P0183/diagnosis monitor code 14)

JP310021606010101

DTC	P0182	Fuel temperature sensor circuit low input
DTC	P0183	Fuel temperature sensor circuit high input

1	Measurement of resistance between terminals



SAPH310021600031

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 E27 and terminal D34.

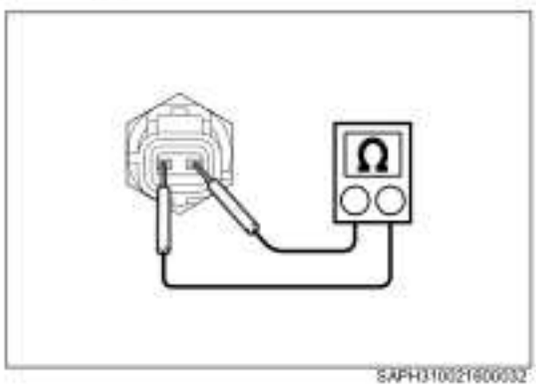
Standard value (Measure either one point of the following.)
: 2.45 kΩ (Fuel temperature at 20 °C{68 °F})
: 1.15 kΩ (Fuel temperature at 40 °C{104 °F})
: 584 Ω (Fuel temperature at 60 °C{140 °F})
: 318 Ω (Fuel temperature at 80 °C{176 °F})

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

OK

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

2	Measurement of sensor resistance



SAPH310021600032

1. Disconnect the connector of the fuel 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 (Fuel temperature at 20 °C{68 °F})
: 1.15 kΩ (Fuel temperature at 40 °C{104 °F})
: 584 Ω (Fuel temperature at 60 °C{140 °F})
: 318 Ω (Fuel temperature at 80 °C{176 °F})

NG → Failure of fuel temperature sensor

OK

Harness disconnection, connector failure

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3	Check of failure code


SAPH310021600004

1. Make sure that other failure code is not output.
   If other failure code is output, repair the failure first and delete the past failure with the failure diagnosis tool (HinoDX) using PC.
   Then, if this failure code is output again, the following failures may be estimated.
   - Excessive fuel flow due to leak from broken pipe, crack in pipe or pipe connection between the flow damper and the injector pipe
     → Check for leak
   - Too large or too small fuel flow due to increase of leak inside inside the injector
     → Check for leak on the individual injector with a nozzle tester
   - Excessive fuel flow due to failure of injection nozzle and seat
     → Check for seat failure on the individual injector with a nozzle tester
   - Too large or too small fuel flow due to malfunction of the injector
     → Check with replacement of injector
   - Too small fuel flow due to clogging in the fuel supply system
     → Inspection of fuel filter

2. To specify a failure location above, check the compensation between cylinders with the failure diagnosis tool (HinoDX) using PC and stop an injector. Then, perform diagnosis while viewing the engine data.

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