



# ENGINE

## WORKSHOP MANUAL

W04D

# HINO Workshop (Service) Manuals Additional Repair Information

Hino Motors, Ltd.

EXAMPLE



Remove a small amount of loose material off the top surface of the pan, and apply pressure on the entire flange surface of the pan. (If necessary, the flange is difficult to fit in position, pull the oilpan down with gently by pulling it.)

Removal Tool: Oilpan Lower Guide (99999-1100)

NOTE: 1. Do not use a lever that has been damaged.  
2. Take extra care when handling the flange since the flange is easily deformed.



**MEASURE THE PROTRUSION OF THE CYLINDER LINER.**

Prepare a special tool with a tightening torque of 100 N·m (7.23 kg-m) and measure the amount of protrusion of the top end of the liner from the cylinder block with special gauge of straight-edge guide & thickness gauge.

Removal Tool: Cylinder Liner Guide (99999-1000)

Tightening Torque: 100 N·m (7.23 kg-m)

Removal Torque: 100 N·m (7.23 kg-m)

Item	Specification	Unit
1. Oil Pan	Oil Pan Gasket	mm
2. Oil Pan	Oil Pan Gasket	mm
3. Oil Pan	Oil Pan Gasket	mm
4. Oil Pan	Oil Pan Gasket	mm
5. Oil Pan	Oil Pan Gasket	mm



Removal of the oil pan:  
Torque: 1.00 - 1.00 N·m (0.100 - 0.100 kg-m)

IF NECESSARY, GRIND THE CRANKSHAFT AND USE THE LOWER OIL SEALING.



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### SERVICE INFORMATION BULLETIN



- INSTALL CONNECTION HOSE-BEARING**
1. Remove the connection and bearing in the connecting pipe.
2. After removing the bearing, make sure to install the oilpan gasket bearing on a new connection (available).
3. Install the bearing with the oil hose on the connection and guide and install the bearing between the oil hose and the new gasket.
4. Match the bearing protrusion with the depth of the connection and oil pan.



5. Remove the connection, so that the top ends are in alignment with the flange.
6. Measure the matching parts of the gasket ring at all four stations. The installation is possible at the position.



- INSTALL OIL PAN AND CONNECTION HOSE**
1. Install the oil pan and connection hose on the engine block.
2. Tighten the bolts.



- NOTE:
- Before the installation, apply engine oil to the gasket on the gasket, cylinder head and connection flange.
  - Remove the matching part of each gasket ring.

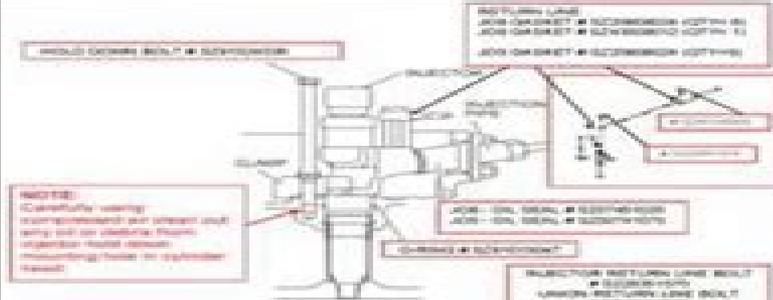


- Make sure that the 2.5 mm (0.10 in) hole in the gasket is at the right position.
- Do not damage the inside of the liner.



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### ENGINE TECH TIPS



Assemble the injection pipe temporarily, and tighten the injector head down bolt to the specified torque.

**Tightening Torque:**  
22 N·m (2.20 kg-m), 18 (N·m)

Tighten the nut of the injection pipe to the specified torque.

**Tightening Torque:**  
22 N·m (2.20 kg-m), 22 (N·m)

Install the return line with new gaskets (Job 7-406, Job 7-406) and tighten the joint bolts to the specified torque.

**Tightening Torque:**  
12.5 N·m (1.25 kg-m), 8 (N·m)

**CAUTION:**  
The injector head return line bolt is a different thread pitch than the upper head return line bolt. (11) D4D (D4D) 9008 (27T) 111

# Hino Engine Parts Manual Wo4ct

**JG Myers**



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