PART NO.

HITACHI

Workshop Manual

EX

EX2500

Hydraulic Excavator

Service Manual consists of the following separate Part No.
Technical Manual (Troubleshooting)
Workshop Manual

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Removal

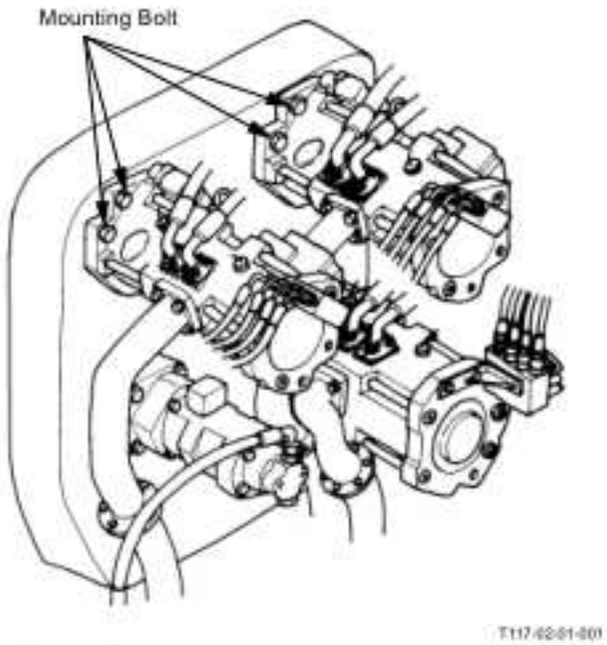
1. Disconnect all wire harness ends and hydraulic line ends from the pump.

CAUTION: Pump Device Weight: 298 kg (657 lb)
Approximate Quadruple Pump Weight: 100 kg (220 lb)

2. Remove the pump mounting bolts to remove the pumps.

: 36 mm
: 690 N·m (70 kgf·m, 507 lbf·ft)

: 30 mm
: 390 N·m (40 kgf·m, 290 lbf·ft)



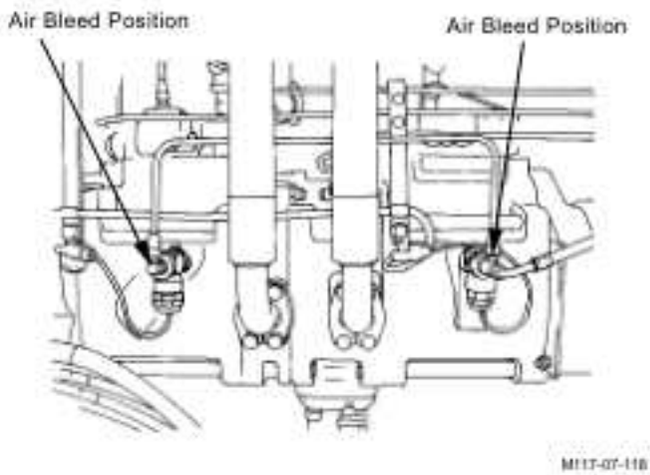
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Installation

NOTE: Refer to the Removal section for wrench size and tightening torque.

1. Install the pumps using the mounting bolts.
2. Connect all wire harness ends and hydraulic line ends to the pump.
3. Bleed the air from the pump. (Refer to W1-1-2)

IMPORTANT: Prevent pump seizure from occurring. Be sure to perform running-in operation after installing the pumps.



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Pump Running-In Operation Procedure:

1. **Run the engine at slow idle for 20 minutes. Check for oil leaks during the engine idling operation.**
2. **Increase the engine speed to the maximum speed. Slowly operate the boom from stroke end to stroke end repeatedly for 20 minutes.**

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Removal

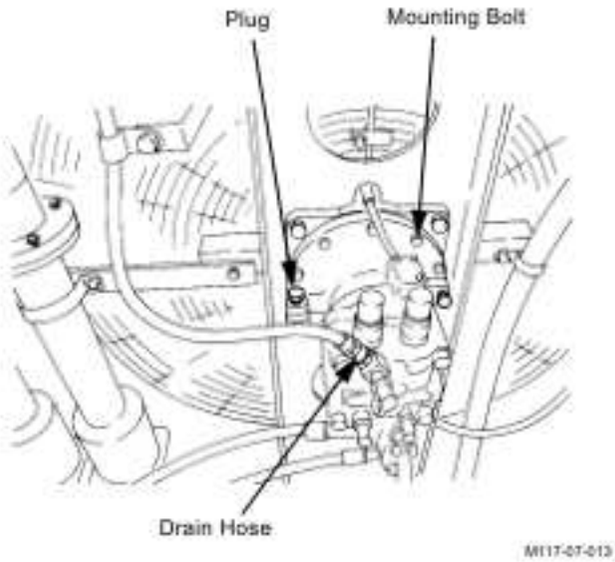
1. Disconnect all line ends from the fan drive motor.

CAUTION: Fan Drive Motor Weight: 29 kg (64 lb)

2. Remove the fan drive motor mounting bolts (10 used). Lift and remove the fan drive motor using a crane.

NOTE: Engine oil will flow out when the fan drive motor is removed. Take necessary measures to collect the engine oil.

: 10 mm
: 108 N·m (11 kgf·m, 80 lbf·ft)



Installation

NOTE: Refer to the Removal section for wrench size and tightening torque.

1. Install the fan drive motor using the mounting bolts.
2. Re-connect the disconnected line ends to the fan drive motor.
3. Remove the plug. Fill the motor with engine oil (15W-40) up to the bottom of the plug hole. Reinstall the plug.
4. Start the engine. Slowly loosen the drain hose to bleed air from the system.
   Tighten the drain hose when no air bubbles are seen in hydraulic oil coming out of the drain hose.

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Removal

1. Disconnect all line ends from the travel motor.
2. Remove the drain plug to drain gear oil.

: 23 mm

NOTE: Gear oil capacity: 141 liters (37.3 US gal)

CAUTION: Travel Motor Weight: 279 kg (615 lb)

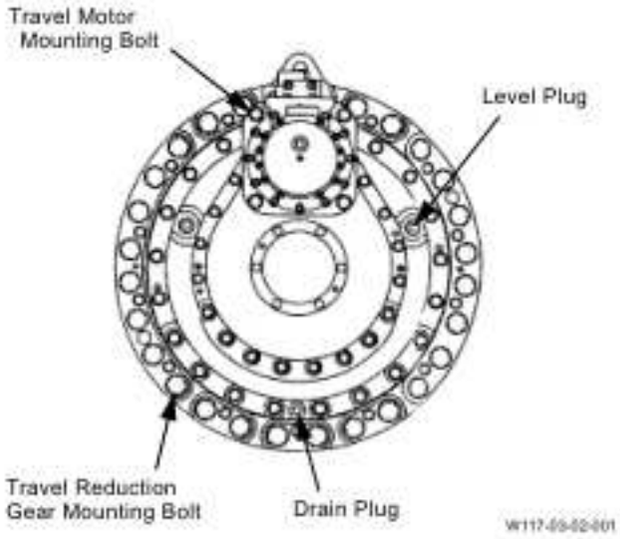
3. Remove travel motor mounting bolts to remove travel motor.

: 32 mm
: 740 N·m (75 kgf·m, 540 lbf·ft)

4. With the travel reduction gear held by a crane, remove the mounting bolts. Remove the travel reduction gear by utilizing the removed mounting bolts.

CAUTION: Travel Reduction Gear Weight: 2870 kg (6330 lb)

: 55 mm
: 3140 N·m (320 kgf·m, 2310 lbf·ft)



Installation

NOTE: Refer to the removal section for wrench size and tightening torque.

1. Apply liquid gasket to the travel reduction gear mating face on the side frame.
2. Install the travel reduction gear with the mounting bolts to the side frame.
3. Install the travel motor with the mounting bolts to the travel reduction gear.
4. Remove the level plug and refill the travel reduction gear with gear oil.

NOTE: Gear oil capacity: 141 liters (37.3 US gal)

IMPORTANT: Be sure to fill the travel motor with hydraulic oil after installing it. Also, be sure to perform break-in operation after installing the travel motor and/or travel reduction gear, as follows. Seizure may result otherwise.

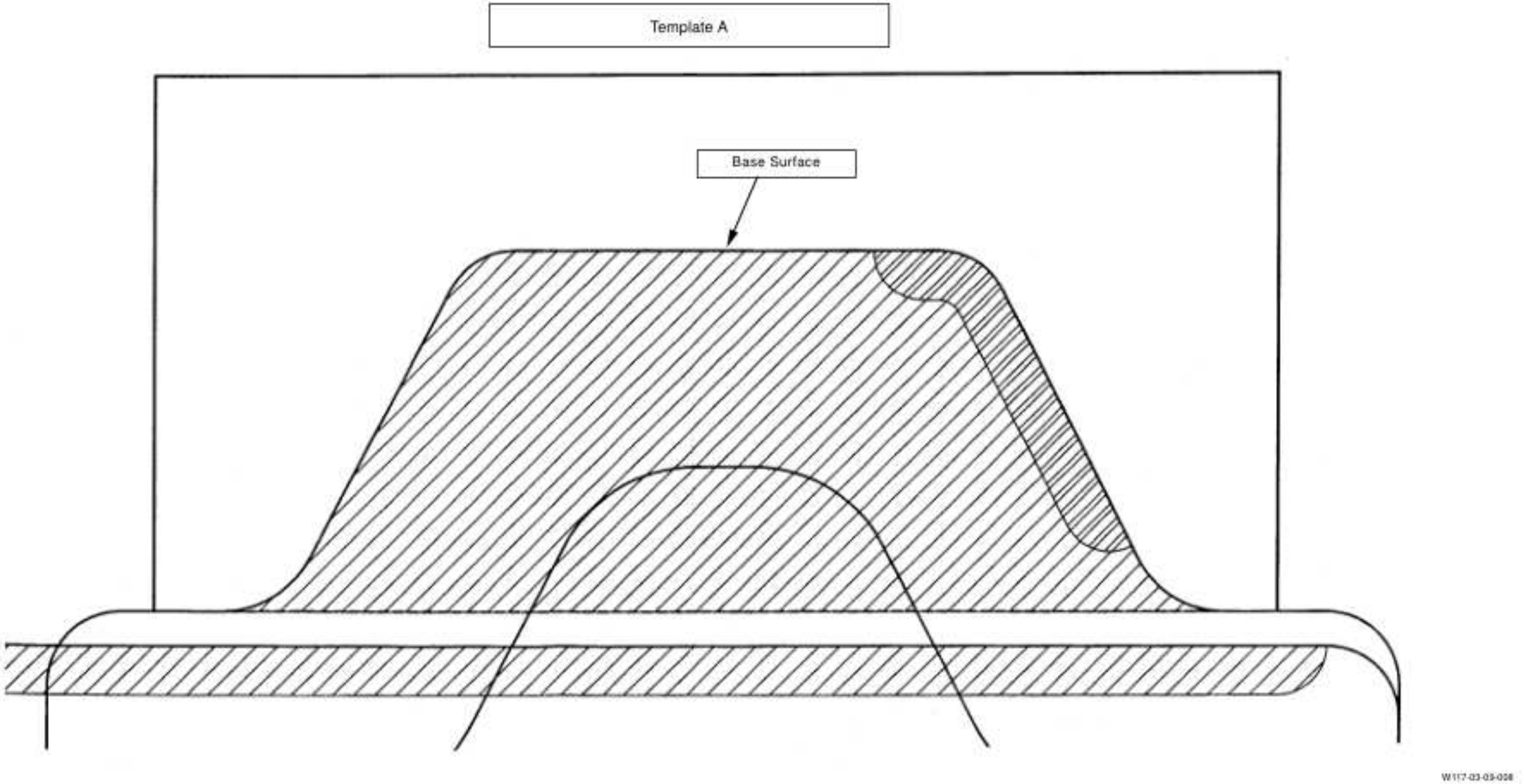
Break-In Operation:
With the engine control lever set in the slow idle position and with the travel mode in the slow speed mode, drive the machine for 2 minutes or more.

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SUPPLEMENT / Track Shoe Pattern (A)

Scale 1/1

10 20 30 mm



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