PART NO. W4EJ-E-00

HITACHI

Workshop Manual

ZW

20

Wheel Loader

Service Manual consists of the following separate Part No.

Technical Manual : Vol. No.T4EJ-E

Workshop Manual : Vol. No.W4EJ-E

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GENERAL

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Maintenance Standard Terminology

Standard:

1. Dimension for parts on a new machine.
2. Dimension of new components or assemblies adjusted to specification. Allowable errors will be indicated as necessary.

Allowable limit:

1. Normal machine performance cannot be accomplished after exceeding this limit.
2. Repair or adjustment is impossible after exceeding this limit. Therefore, in consideration of operation efficiency and maintenance expense, proper maintenance shall be carried out before reaching the Allowable Limit.

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Removal

1. Disconnect the connector of harness.
2. Disconnect all hoses with HST motor attached.

NOTE: Cap the disconnected hydraulic hoses and attach an identification tag onto the disconnected hoses for assembling.

CAUTION: The HST motor assembly weight: 37 kg

3. Remove bolt (0120) while holding HST motor by using a crane. Remove HST motor (0100) from the reduction gear.
   : 17 mm
4. Remove O-Ring (0110) from HST motor (0100).

Installation

1. Install O-Ring (0110) to HST motor (0100).
2. Install HST motor (0100) to the reduction gear with sems bolts (0120) (4 used).
   Apply grease onto the spline of HST motor (0100). Install HST motor (0100) to the fitting part of input shaft in the reduction gear.
   : 44.1 to 53.9 N·m (4.5 to 5.5 kgf·m)
3. Connect all hoses to HST motor (0100).
4. Connect the connector of harness.
5. After assembling, fill HST motor (0100) with hydraulic oil.



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Disassembly of Output Shaft Assembly

Before disassembling and assembling, thoroughly read GENERAL / Precautions for Disassembling and Assembling in SECTION 1.

1. Remove the bolt and washer assembly (0040). Remove cover (0020) and gasket (0030) from case (0010).
   : 17 mm

2. Remove nut (0520). Remove washer (0510) and O-Ring (0500) from flange (0470).

3. Remove spacer (0480) and flange (0470) from output shaft (0400). Remove flange (0450) at the opposite side from output shaft (0400)
   : 36 mm

4. Remove oil seals (0490) (2 used) and snap rings (0440) (2 used) from case (0010).

IMPORTANT: Remove output shaft (0400) while holding output gear (0410).

5. Tap and remove output shaft (0400) from case (0010) by using a soft hammer. Remove output gear (0410).

6. Remove snap ring (0430) from output shaft (0400). Remove bearing (0422).

7. Remove bearing (0421) from case (0010).

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