PART NO. W18V-E-00

HITACHI

Workshop Manual

EX

5500E-6

Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TO18V-E
Technical Manual (Troubleshooting)	: Vol. No.TT18V-E
Workshop Manual	: Vol. No.W18V-E &
	: Vol. No.W18N-E

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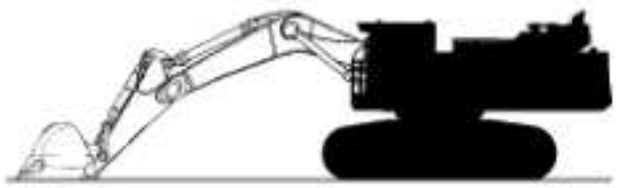
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- Bleeding Air from Hydraulic Circuit

  - After refilling hydraulic oil, start the engine. While operating each cylinder, swing motor and travel motor evenly, operate the machine under light loads for 10 to 15 minutes. Slowly start each operation (never fully stroke the cylinders during initial operation stage). As the pilot oil circuit has an air bleed device, air trapped in the pilot oil circuit will be bled while performing the above operation for approx. 5 minutes.
  - Reposition the front attachment to check hydraulic oil level.
  - Stop the engine. Recheck hydraulic oil level. Replenish oil as necessary.



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REMOVAL AND INSTALLATION OF COUPLING HOUSING

Removal

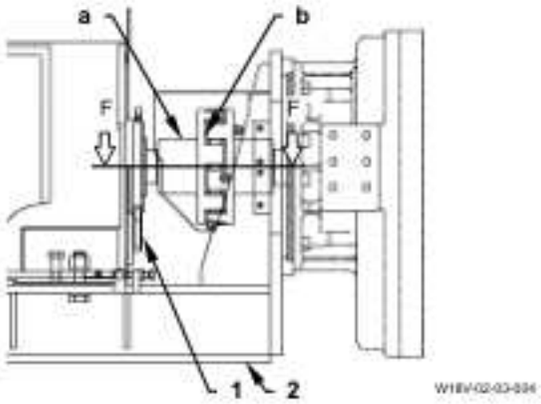
1. Remove motor unit (1) from motor base (2). (Refer to REMOVAL AND INSTALLATION OF ELECTRIC MOTOR on W2-1-1.)

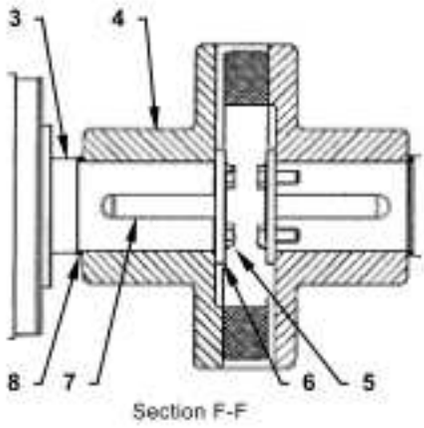
2. Extend lock plate (6).

3. Remove bolts (5) (2 used) from lock plate (6). Remove lock plate (6) from shaft (3).
   : 24 mm

4. Warm part (a) to 170°C and part (b) to 130 to 140°C of hub (4) by using a bearing heater.

5. Remove hub (4), key (7), and spacer (8) from shaft (3).





Section F-F

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Assembly of Pump transmission

CAUTION: Gear (29) weight: 120 kg (270 lb)

1. Fit the matching marks made when disassembling and install the inner races of roller bearings (12, 28) to gear (29) by using a press.

CAUTION: Gear (20) weight: 21 kg (46 lb)

2. Install ball bearings (19, 23) to gear (20) by using a press.

3. Install spacer (25) and retaining ring (18) to gear (20).

CAUTION: Gear (8) weight: 38 kg (84 lb)

4. Install ball bearings (7, 10) (3 used for each) to gears (8) (3 used) by using a press.

5. Install spacers (30) (3 used) and retaining rings (11) (3 used) to gears (8) (3 used).

CAUTION: Case (9) weight: 420 kg (930 lb)

6. Install an eyebolt (M30, Pitch 3.0 mm) to the bolt hole (2 places) of the side of case (9). Attach a nylon sling onto eyebolts. Hoist case (9). Place case (9) on a stable stand with the pump side up.

NOTE: As the shaft is projected from the pump transmission, do not touch the shaft to the floor or the ground.

7. Apply engine oil onto the spline parts of gears (29, 20) and gears (8) (3 used).

CAUTION: The gear (29) assembly weight: 140 kg (310 lb)

8. Install an eyebolt (M16, Pitch 2.0 mm) to the lifting hole (2 places) of gear (29). Attach a nylon sling onto eyebolts. Hoist the gear (29) assembly. Install the gear (29) assembly to case (9).

CAUTION: The gear (20) assembly weight: 25 kg (55 lb)

9. Install an eyebolt (M16, Pitch 2.0 mm) to the lifting hole (2 places) of gear (20). Attach a nylon sling onto eyebolts. Hoist the gear (20) assembly. Install the gear (20) assembly to case (9).

CAUTION: Gear (8) assembly weight: 50 kg (110 lb)

10. Install an eyebolt (M16, Pitch 2.0 mm) to the lifting hole (2 places) of gears (8) (3 used). Attach a nylon sling onto eyebolts. Hoist the gear (8) assemblies (3 used). Install the gear (8) assemblies (3 used) to case (9).

11. Apply THREEBOND #1215 onto the case (31) mounting surface of case (9).

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EX5500-6 ELECTRICAL CIRCUIT DIAGRAM(5/7)

Authorized Hitachi Dealer Use Only
Parts numbers on the drawing are provided only for reference purpose.
To order parts on the drawing, be sure to consult the Parts Catalog

IMPORTANT: The number (001) to (095) indicated the NO. in the cross reference table.
Refer to the cross reference table in TS-2 group.

ENGINE OIL RESERVE TANK(L)

FENDER(L)

PUMP ROOM(L)

ENGINE(L)

CUMMINS ECM(L)

PILOT PANEL

FRAME/
ENG. BED(L)

CAB BED

CONTROL BOX

CAB

RELAY PANEL(TO FRAME(L))

NOTE:
1. THIS ELECTRICAL CIRCUIT INDICATES THE PART OF CABLES TO LEFT FRAME PUMP ROOM TO LEFT ENGINE
2. SEPARATE HARNESS GROUND LINES TO 3 MEG ACCESSORY, CONTROL PANEL, SYSTEM CONTROL.
DO NOT CONNECT THE LINES EACH OTHER, AND FIX THEM TOGETHER.
3. THE WIRE TYPE IS AVS WIRE UNLESS OTHERWISE IS NOT INDICATED.
4. ■ MARKED WIRE IS AEX WIRE OR AESS WIRE.
5. ▲ MARKED WIRE IS GRAVIN WIRE.
6. OF THE WIRE TYPE (1) NOT INDICATED
THE WIRE TYPE (1) AV OF THE WIRE SIZE (2) MORE THAN 2.0
THE WIRE TYPE (1) AVS OF THE WIRE SIZE (2) MORE THAN 0.5
THE WIRE TYPE (1) AVX OF THE WIRE SIZE (2) MORE THAN 0.3
THE WIRE TYPE (1) AVX OF 0.85 WIRE ONLY FOR KEY OF PRELUB MOTOR WIRE.
7. THE CONNECTOR LINES HAVING NUMBERS ARE ONLY CONNECTOR SIDES.
REFER TO THE ELECTRIC CONNECTORS LIST FOR THE ARRANGEMENT OF THE CONNECTOR PINS

REFERENCE
DIODE NUMBER (D-1) TO (D-4), (2-D)

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