PART NO. W18K-E-00

HITACHI

Workshop Manual

EX 1900-6
Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TO18K-E
Technical Manual (Troubleshooting)	: Vol. No.TT18K-E
Workshop Manual	: Vol. No.W18K-E

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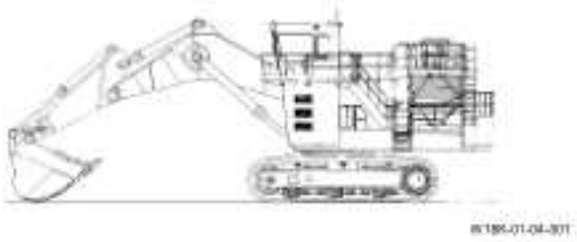
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- Bleeding Air from Hydraulic Circuit

  - 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.



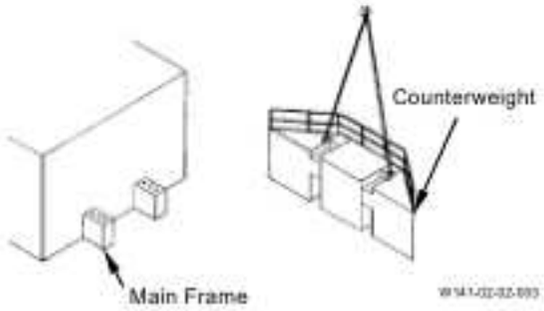
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Installation

CAUTION: Counterweight weight: 25300 kg (55800 lb)

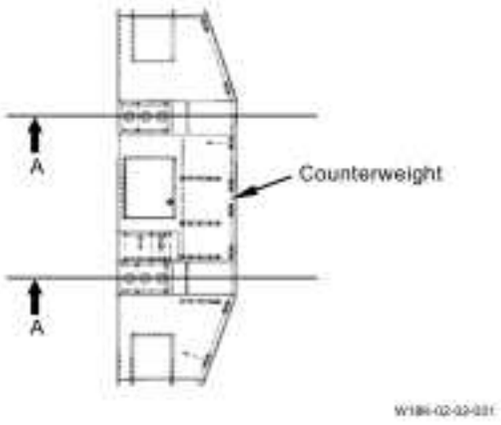
1. Install a shackle and a wire into a hole on the upper side of the counterweight. (2 places)
   Hoist the counterweight.

2. Place the counterweight onto the main frame while aligning the bolt holes on the counterweight and the main frame.



IMPORTANT: Apply lubricant onto bolt (3).
Install washer (4) to bolt (3) with the chamfered side inside washer (4) facing to the bolt (3) head.

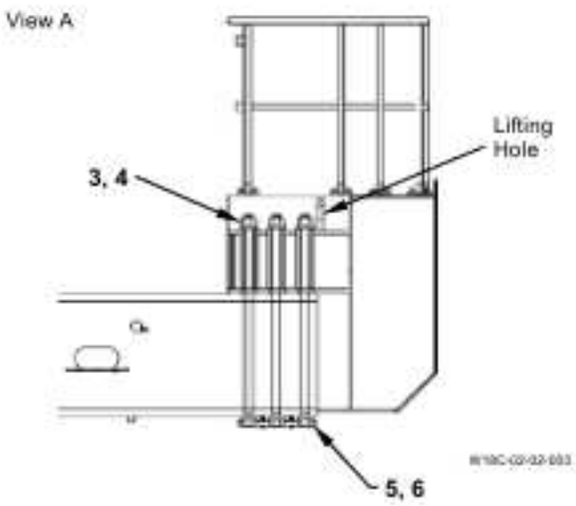
3. Install washer (4) to bolt (3). Wind a nylon sling onto the neck of bolt (3). Hoist and insert bolt (3) in to the bolt hole. (6 places)



IMPORTANT: Install washer (6) to bolt (3) with the groove surface facing downward.

4. Temporarily tighten washers (6) (6 used) and U-nuts (5) (6 used) to bolts (3) (6 used).

5. Tighten bolts (3) (6 used).
   : 70 mm
   : 3920 N·m (400 kgf·m, 2900 lbf·ft)



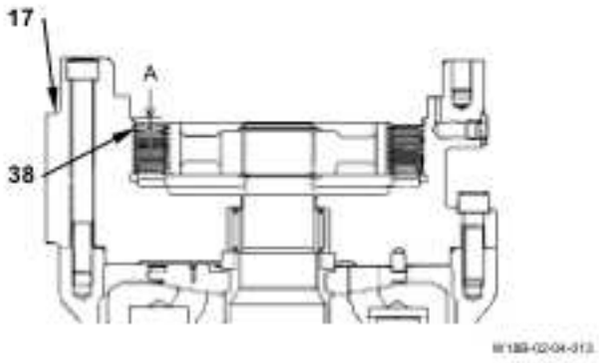
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5. Measure dimension (A).

Unit: mm (in)

Standard	Allowable Limit
3.3 (0.1)	4.3 (0.2)

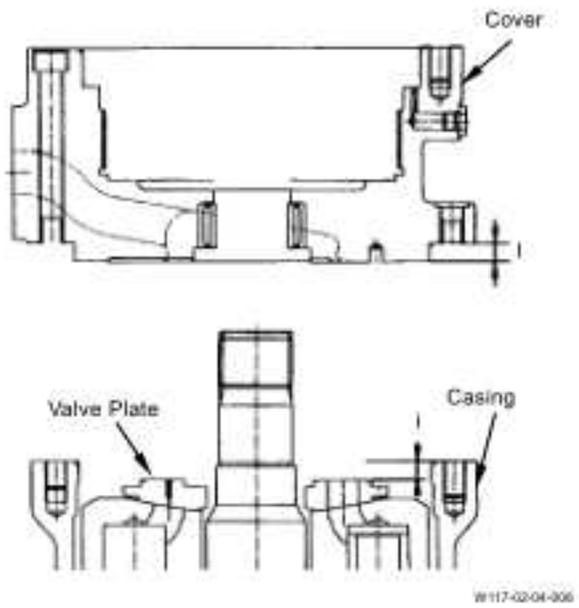
Remedy: Adjust by using the shims.



6. Measure the disc spring thickness.

I-i Unit: mm (in)

Standard	Allowable Limit
7.8 (0.3)	7.4 (0.3)



7. Measure the brake spring length.

Unit: mm (in)

Standard	Allowable Limit
54 (2.1)	53.6 (2.1)

Remedy: Replace the spring.

8. Measure thickness of the plate and the friction plate.(17 used)

Unit: mm (in)

Standard	Allowable Limit
36.8 (1.4)	36.2 (1.4)

Remedy: Replace the plate and the friction plate.

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