PART NO. W18N-E-00

HITACHI

Workshop Manual

EX 5500-6

Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TO18N-E
Technical Manual (Troubleshooting)	: Vol. No.TT18N-E
Workshop Manual	: Vol. No.W18N-E

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Installation

CAUTION: Counterweight weight: 52100 kg (114900 lb)
Shackle (4) weight: 26 kg (57 lb)

1. Attach shackles (4) (4 used) and a wire rope onto a lifting hole on the upper side of the counterweight. Hoist the counterweight.

NOTE: Shackle (4): Part No. 4048503

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

CAUTION: Bolt (5) weight: 27 kg (60 lb)

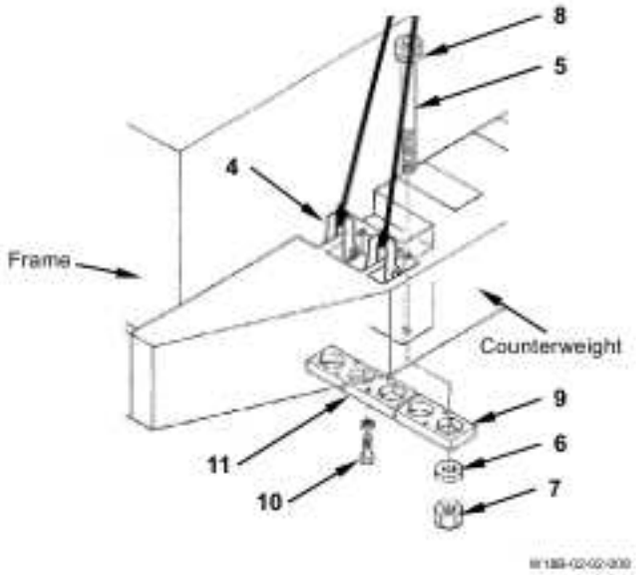
IMPORTANT: Apply lubricant onto bolt (5).

3. Install washers (8) (10 used) to bolts (5) (10 used). Attach a nylon sling onto the neck of bolts (5) (10 used). Hoist and insert bolts (5) (10 used) into the bolt (5) hole.

IMPORTANT: Install washer (6) to bolt (5) with the groove surface down.

4. Temporarily tighten washers (6) (10 used) and U-nuts (7) (10 used) to bolts (5) (10 used).
   : 85 mm

5. Install stoppers (9) (2 used) and stoppers (11) (2 used) to the frame with bolts (10) (12 used).
   : 19 mm
   : 90 N·m (9 kgf·m, 66 lbf·ft)



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CAUTION: The fan (10) assembly weight: 68 kg (150 lb)

6. Attach a nylon sling onto fan (10). Hoist and hold fan (10). Remove socket bolts (12) (6 used) and bolt (13). Remove the fan (10) assembly from fan motor (6).
   : 24 mm

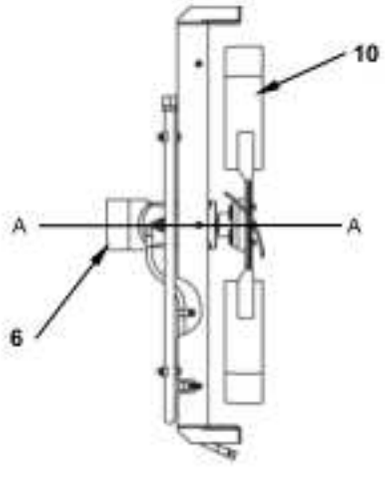
CAUTION: Fan motor (6) weight: 58 kg (130 lb)

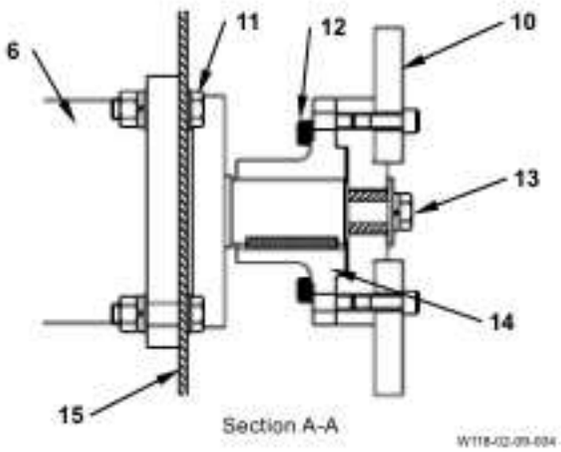
7. Attach a nylon sling onto the body of fan motor (6). Hoist and hold fan motor (6).

8. Remove bolts (11) (4 used). Hoist and remove fan motor (6) from bracket (15).
   : 24 mm

9. Remove coupling (14) from fan motor (6).

10. Remove other fan motor (6) in the same way.





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CAUTION: Bleed air from the hydraulic oil tank before doing any work. (Refer to BLEED AIR FROM HYDRAULIC OIL TANK on W1-4-1.)

4. Operate the control lever several times and release the remaining pressure in the circuit.

CAUTION: The pressure oil may spout out when the plug at the hose end is suddenly removed. Slowly loosen and remove the socket bolt.

5. Connect the hydraulic hoses (19 used) between the boom and the main frame.
   : 17 mm
   : 400 N·m (40 kgf·m, 295 lbf·ft)

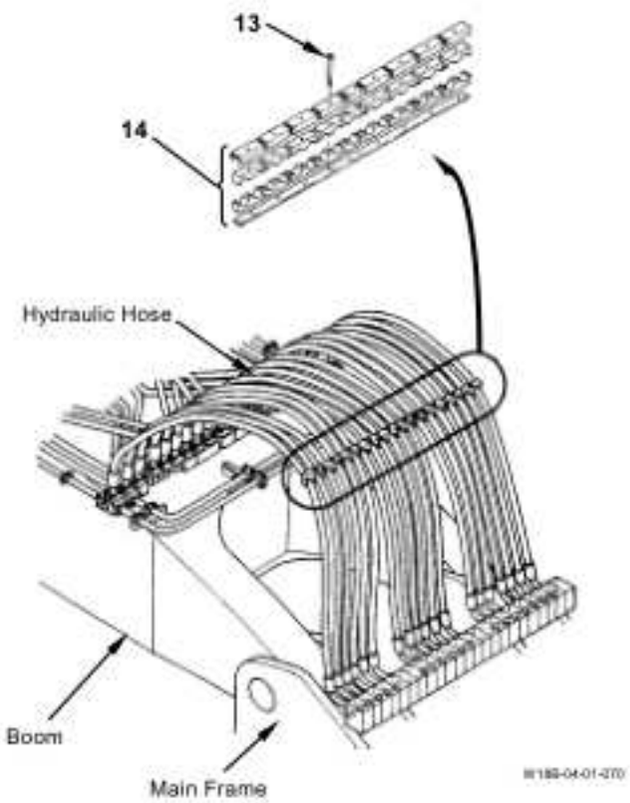
6. Connect hydraulic hoses (19 used) between the boom and the main frame with clamps (14) (20 used) and bolts (13) (40 used).
   : 19 mm
   : 90 N·m (9 kgf·m, 66 lbf·ft)

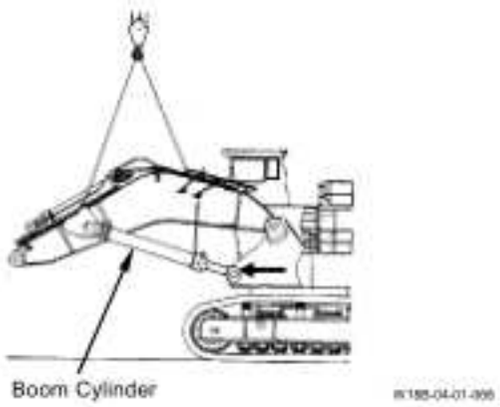
7. Remove the wire which secures the boom cylinder rod part. (2 places)

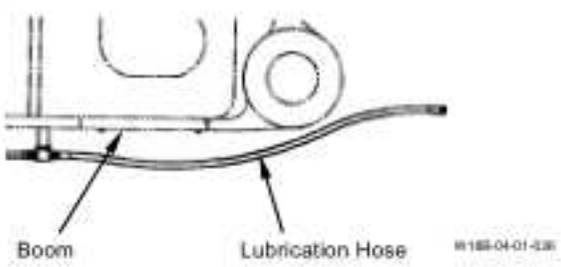
CAUTION: Boom cylinder weight: 6880 kg (15200 lb)

8. Start the engine and extend the boom cylinder rod. Fit the pin holes of the boom cylinder rod end and the main frame. Install the pin to the pin hole. (2 places) (Refer to Removal and Installation of Boom Cylinder on W4-2-2.)

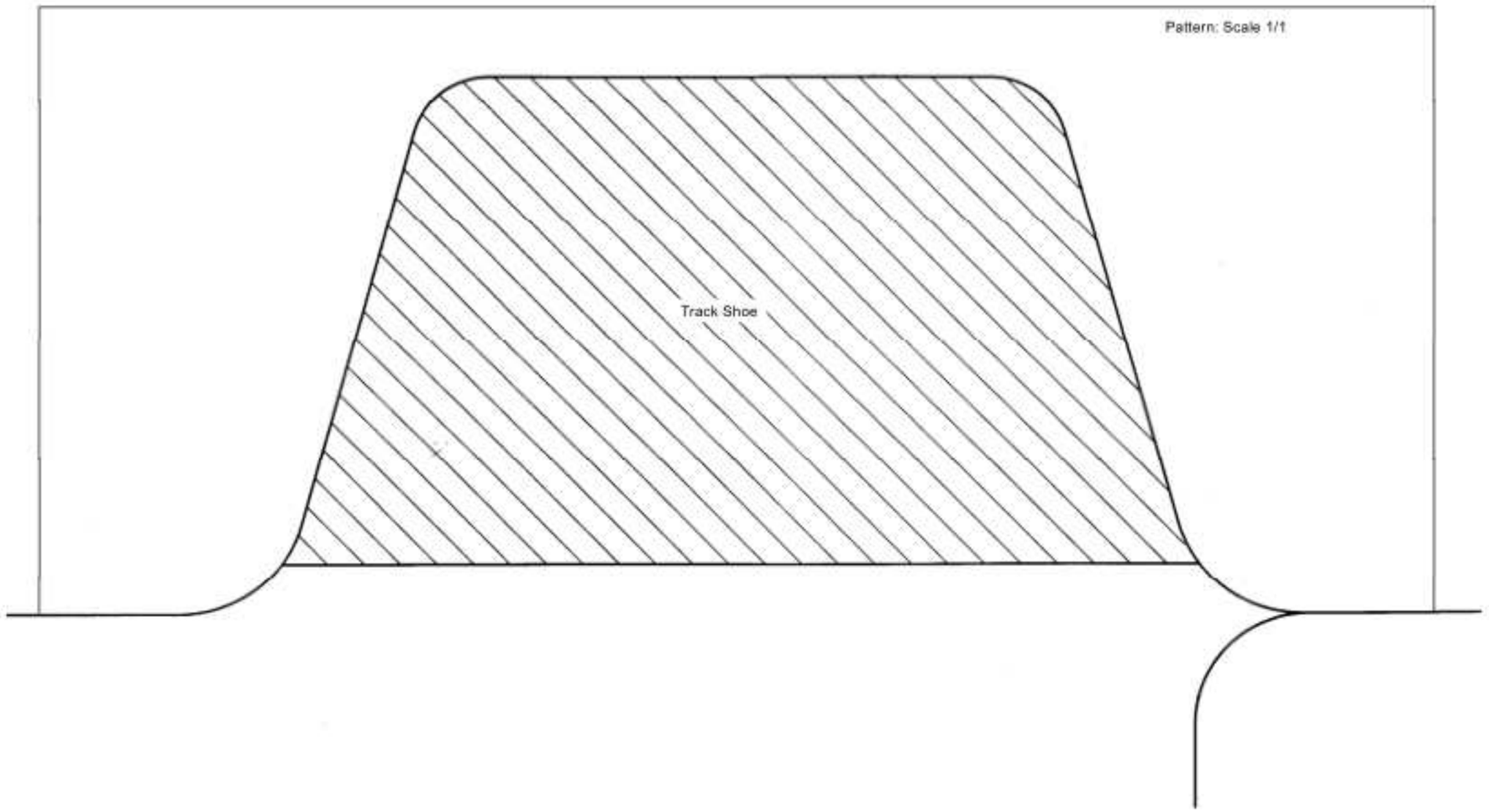
9. Connect the lubrication hose between the boom and the main frame.
   : 36 mm
   : 175 N·m (18 kgf·m, 129 lbf·ft)







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