PART NO.

HITACHI

Workshop Manual

EX

EX1100-3

Hydraulic Excavator

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

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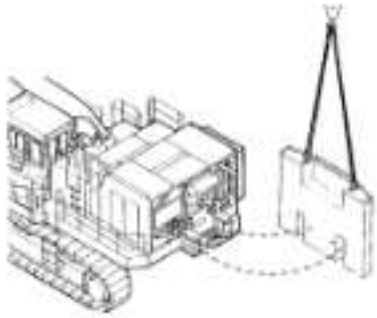
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Installation

CAUTION: Approximate counterweight weight : 16500 kg (36400 lb)

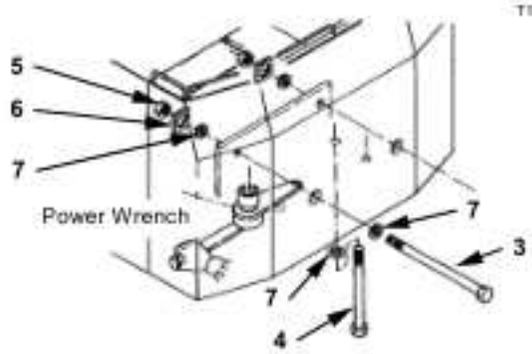
1. Install lifting accessories on the top of the counterweight.
   Connect the counterweight to a crane using a wire rope. Pull the wire rope taut.



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CAUTION: Never get under the lifted counterweight.

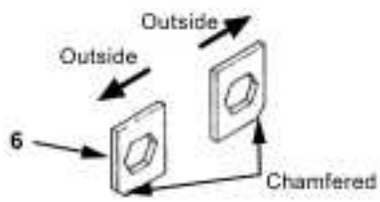
2. Lift and place the counterweight on the frame.



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CAUTION: Watch out the power-wrench reaction bar movement. Take care not to be hit by the reaction bar.

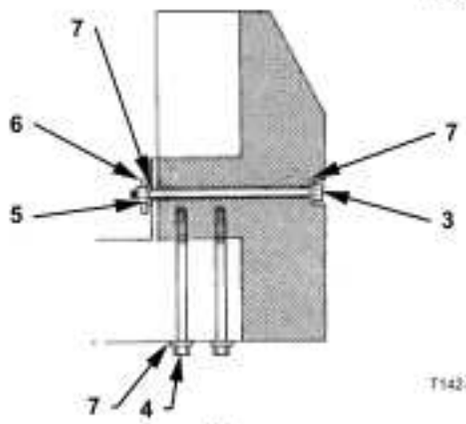
IMPORTANT: Apply a film of lubricant to bolts (3) and (4) before installing them. Be sure to position plate (6) so that its chamfered side faces the outside when installing it.



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3. Install bolts (3) and (4), nut (5), plate (6) and washer (7).
   Tighten bolts (3) and (4) using a power wrench.

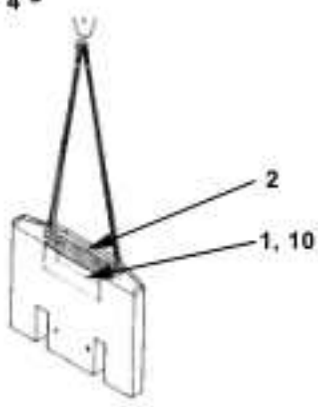
   Wrench size: 65 mm
   : 3920 N·m (400 kgf·m, 2890 lbf·ft)



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4. Remove lifting accessories and wire rope. Install cover (2) using bolt (1) and washer (10).

   : 19 mm
   : 88 N·m (9 kgf·m, 65 lbf·ft)

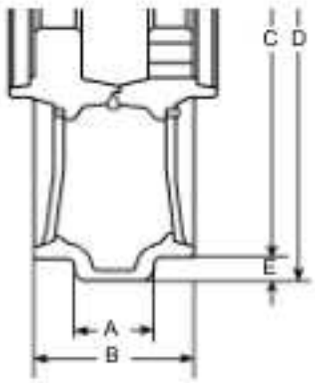


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MAINTENANCE STANDARD

Front Idler



W157-03-05-001

Unit: mm (in)

	Standard	Allowable Limit	Remedy
A	123 (4.84)	94 (3.70)	Buildup weld and finishing or replace
B	277 (10.91)	-	
C	934 (36.77)	906 (35.67)	
D	980 (38.58)	-	
E	23 (0.91)	-	

IMPORTANT: Consult Hitachi Construction Machincry Co., Ltd. for any inqueries concerning welding procedures.

Axle and Bushing

Unit: mm (in)

		Standard	Allowable Limit	Remedy
Axle	Outside Dia.	130 (5.12)	129.5 (5.10)	Replace
Bushing	Inside Dia.	130 (5.12)	131 (5.16)	
	Flange Thickness	6 (0.24)	5.2 (0.20)	

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