Manual No. : KM-141-E
Vol. No. : W141-E-01

Workshop Manual

EX2500-5
Excavator

Service Manual (Manual No. KM-141-E) consists of the following three separate volumes;

Technical Manual (Operational Principle)	: Vol. No. TO141-E
Technical Manual (Troubleshooting)	: Vol. No. TT141-E
Workshop Manual	: Vol. No. W141-E

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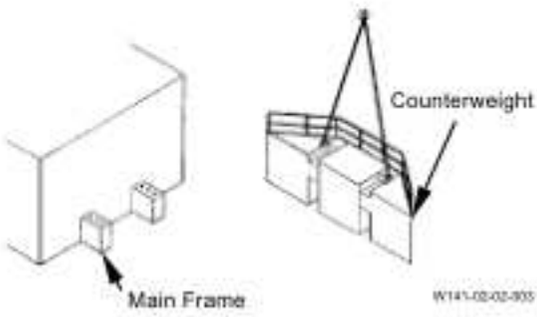
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Installation

CAUTION: Counterweight weight: 30700 kg (67690 lb)

1. Install shackles and a wire in the lifting bracket on the top of counterweight, then lift the counterweight by crane.

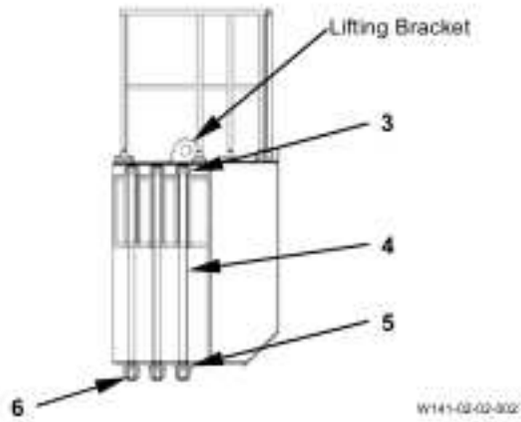


2. Place the counterweight onto the main frame while aligning the bolt hole in the counterweight with that in the main frame.

CAUTION: Bolt (4) weight: 22 kg (50 lb)

IMPORTANT: Apply lubricant onto bolt (4).

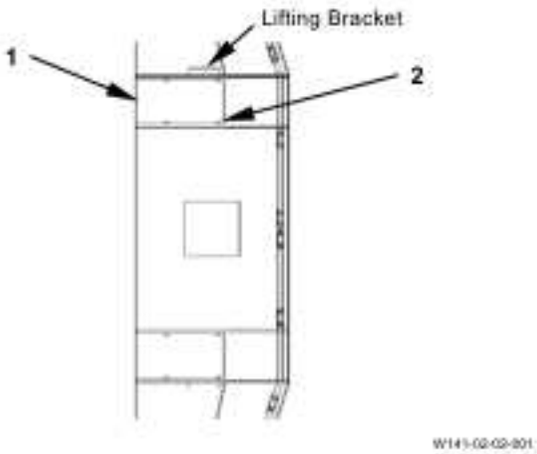
3. Install washer (3) onto bolt (4). Attach the nylon sling to the neck of bolt (4), lift the bolts by crane to install the bolts into the bolt holes. (6 places)



IMPORTANT: Install washer (5) onto bolt (4) with the grooved surface facing downward.

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

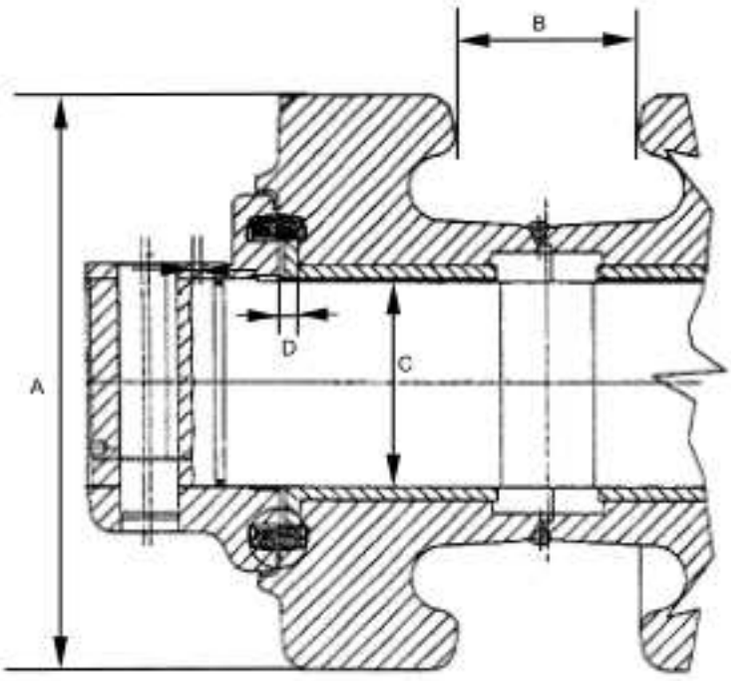
5. Tighten bolts (4) (6 used).
   : 75 mm
   : 5150 N·m (525 kgf·m, 3800 lbf·ft)



6. Install covers (1) (2 used) onto the counterweight with bolts (2) (8 used).
   : 17 mm
   : 50 N·m (5.1 kgf·m, 37 lbf·ft)

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Lower Roller



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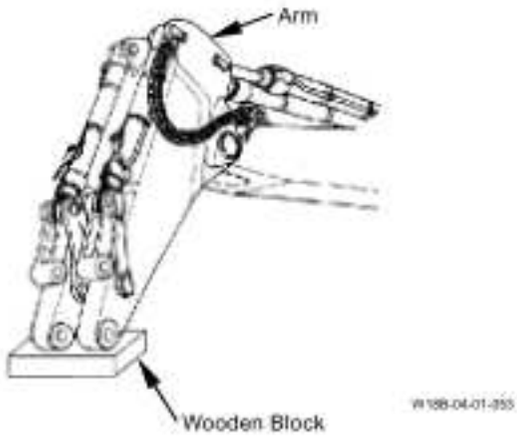
Unit: mm (1 mm = 0.03937 in)

Item	Standard Dimensions	Allowable Wear Limit	Remedy
A: Roller (Outside Diameter)	440	410	Repair or Replace
B: Tread Interval	148	(108)	Repair or Replace
C: Axle (Outside Diameter)	$160^{-0.085}_{-0.125}$	(158)	Replace
C': Bushing (Inside Diameter)	$160^{+0.083}_{+0.58}$	(163)	Replace
Bushing (Outside Diameter)	$180^{+0.32}_{+0.28}$	-	Replace
D: Bushing (Flange Thickness)	$15^{0}_{-0.1}$	(13.5)	Replace

NOTE: If welding is required for repair, refer to "Welding Repair Procedure" (W3-11-1).
Values in ( ) are for reference only.

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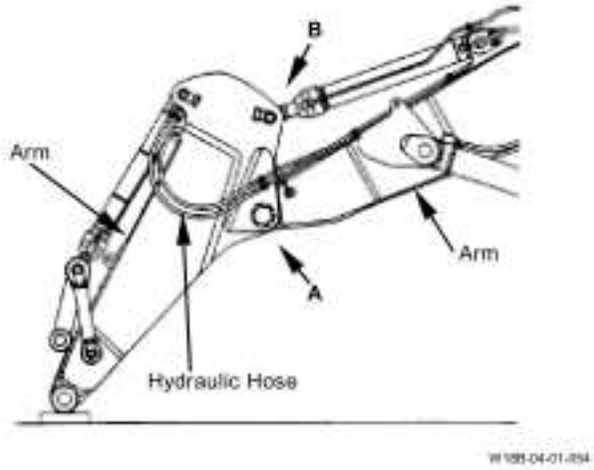
11. Place the arm end on the wooden block.

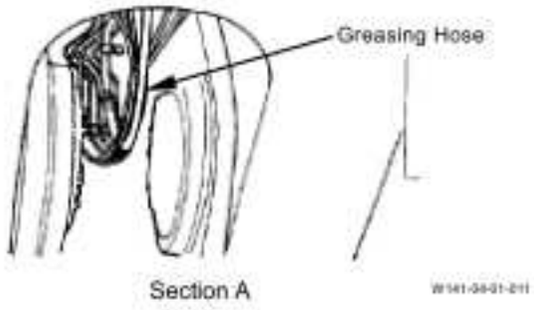


12. Bleed air from hydraulic oil tank. Stop the engine and operate the lever several times to release the remaining pressure from the circuit. (Refer to "item of Bleeding Air from Hydraulic Oil Tank" on page W1-3-1)

13. Disconnect all hydraulic hoses from the bucket cylinder at the bucket cylinder side, then install plated plug to the opening part.
: 14 mm, 17 mm

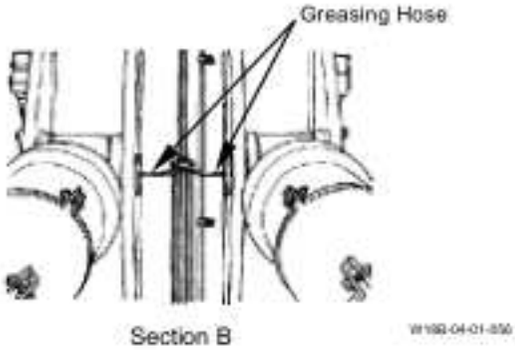
14. Disconnect greasing hoses between the boom and arm.
: 19 mm, 36 mm





Section A

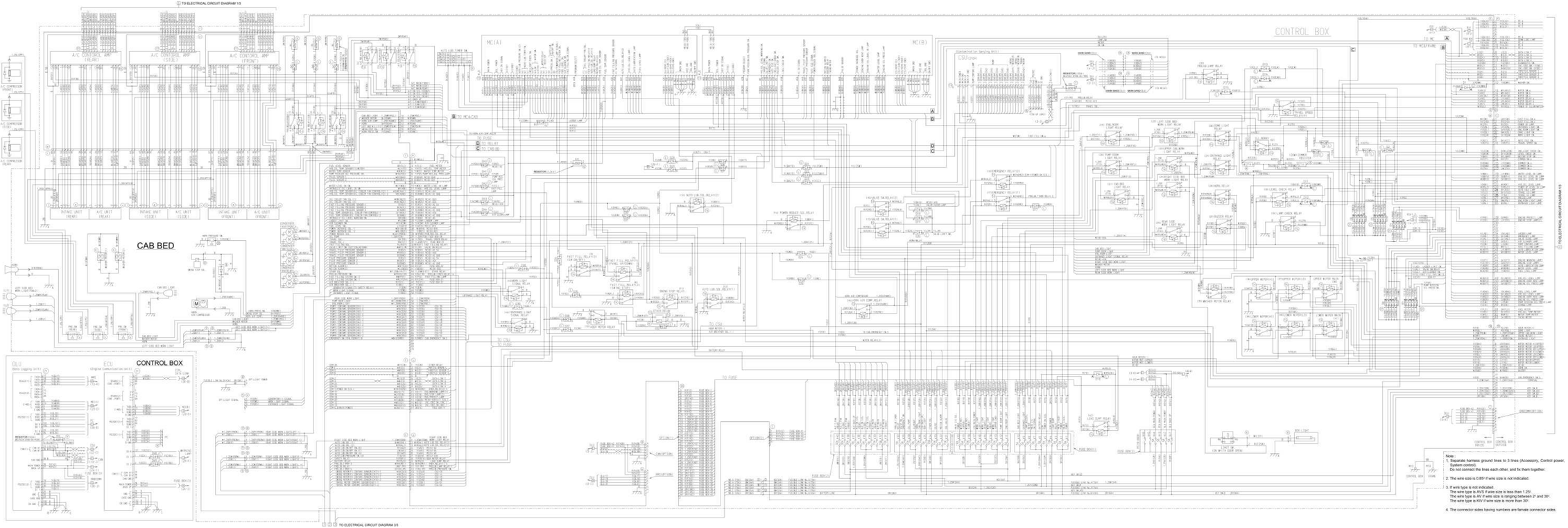
15. Disconnect greasing hose from arm cylinder rod side.
: 19 mm



Section B

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EX2500-5 ELECTRICAL CIRCUIT DIAGRAM 2/3



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