PART NO.

HITACHI

Technical Manual

Troubleshooting

EX

EX1900-5

Hydraulic Excavator

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

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SECTION 1
GENERAL INFORMATION



CONTENTS

Group 1 Precautions for Disassembling and Assembling

Precautions for Disassembling and Assembling W1-1-1

Group 2 Tightening Torque

Tightening Torque Specification W1-2-1
Torque Chart W1-2-3
Piping Joint W1-2-6
Periodic Replacement of Parts W1-2-10

Group 3 Bleeding Air from Hydraulic Oil Tank

Bleeding Air from Hydraulic Oil Tank W1-3-1
Vacuum W1-3-2

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SECTION 2
UPPERSTRUCTURE



CONTENTS

Group 1 Cab
Dimensions of the Cab Glass W2-1-1

Group 2 Counterweight
Remove and Install Counterweight W2-2-1

Group 3 Main Frame
Remove and Install Main Frame W2-3-1

Group 4 Pump Device
Remove and Install Pump Device W2-4-1
Disassemble Pump Transmission W2-4-22
Assemble Pump Transmission W2-4-26
Disassemble Main Pump W2-4-30
Assemble Main Pump W2-4-38
Maintenance Standard W2-4-46
Disassemble Regulator for Main Pump W2-4-48
Assemble Regulator for Main Pump .. W2-4-54
Components of 4-Spool Pump W2-4-61
Disassemble Oil Cooler Fan Drive Pump W2-4-62
Assemble Oil Cooler Fan Drive Pump W2-4-66
Maintenance Standard W2-4-72
Disassemble Regulator for Oil Cooler Fan Drive Pump W2-4-74
Assemble Regulator for Oil Cooler Fan Drive Pump W2-4-80
Disassemble Air Compressor Drive Pump and Pilot Pump W2-4-86
Assemble Air Compressor Drive Pump and Pilot Pump W2-4-92
Maintenance Standard W2-4-96
Disassemble Lubrication Pump for Pump Transmission W2-4-98
Assemble Lubrication Pump for Pump Transmission W2-4-100
Maintenance Standard W2-4-102

Group 5 Control Valve
Remove and Install Control Valve W2-5-1
Disassemble Control Valve W2-5-5
Assemble Control Valve W2-5-12
Disassemble and Assemble Main Relief Valve and Overload Relief Valve W2-5-16
Make-Up Valve Construction W2-5-18

Group 6 Swing Device
Remove and Install Swing Device W2-6-1
Disassemble Swing Reduction Gear W2-6-4
Assemble Swing Reduction Gear W2-6-12
Disassemble Swing Motor W2-6-22
Assemble Swing Motor W2-6-26
Maintenance Standard W2-6-30
Disassemble and Assemble Valve Unit W2-6-32

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SECTION 3
UNDERCARRIAGE



CONTENTS

Group 1 Swing Bearing
Remove and Install Swing Bearing W3-1-1

Group 2 Travel Device
Remove and Install Travel Device W3-2-1
Disassemble Travel Reduction Gear W3-2-6
Assemble Travel Reduction Gear W3-2-18
Disassemble Travel Motor W3-2-30
Assemble Travel Motor W3-2-36
Maintenance Standard W3-2-42
Disassemble and Assemble Travel Speed Mode Selector Valve W3-2-44

Group 3 Travel Brake Valve
Remove and Install Travel Brake Valve .. W3-3-1
Disassemble Travel Brake Valve W3-3-4
Assemble Travel Brake Valve W3-3-6

Group 4 Center Joint
Remove and Install Center Joint W3-4-1
Disassemble Center Joint W3-4-4
Assemble Center Joint W3-4-6

Group 5 Adjuster Cylinder
Remove and Install Adjuster Cylinder W3-5-1
Disassemble Adjuster Cylinder W3-5-4
Assemble Adjuster Cylinder W3-5-6

Group 6 Front Idler
Remove and Install Front Idler W3-6-1
Disassemble Front Idler W3-6-4
Assemble Front Idler W3-6-6
Maintenance Standard W3-6-8

Group 7 Upper and Lower Roller
Remove and Install Upper/ Lower Roller. W3-7-1
Disassemble Upper Roller W3-7-6
Assemble Upper Roller W3-7-8
Disassemble Lower Roller W3-7-10
Assemble Lower Roller W3-7-12
Maintenance Standard W3-7-14

Group 8 Track Shoes
Remove and Install Track Shoes W3-8-1
Disassemble and Assemble Track Shoes W3-8-5
Maintenance Standard W3-8-6

Group 9 Accumulator
Remove and Install Accumulator W3-9-1
Disassemble Accumulator W3-9-4
Assemble Accumulator W3-9-6

Group 10 Welding Repair Procedure
Welding Repair Procedure W3-10-1
Welding Rod Specification W3-10-2
Repair Track Shoe W3-10-3
Repair Front Idler W3-10-6
Repair Sprocket W3-10-8

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9. Install fender (6) with bolts (3) (6 used), spring washers (4) (6 used) and washers (5) (6 used).
   : 24 mm
   : 210 N·m (21.5 kgf-m, 155 lbf-ft)

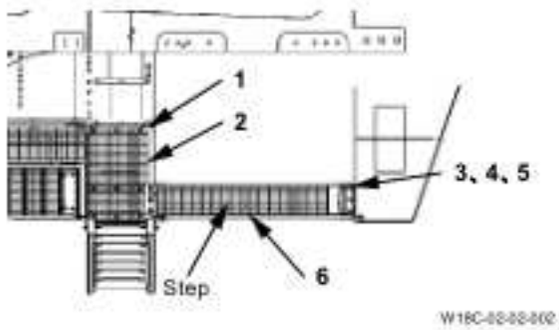
CAUTION: Step (2) weight: 25 kg (55 lb)

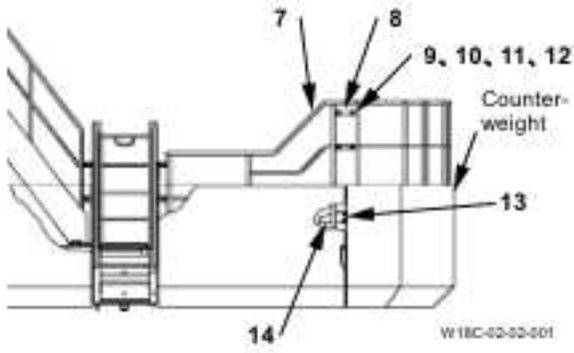
10. Attach wire onto step (2) to lift it by crane.

11. Install step (2) onto the body with bolts (1) (9 used).
   : 17 mm
   : 50 N·m (5.1 kgf-m, 36 lbf-ft)

12. Install step (14) onto the counterweight with bolts (13) (4 used).
   : 19 mm
   : 90 N·m (9.2 kgf-m, 66 lbf-ft)

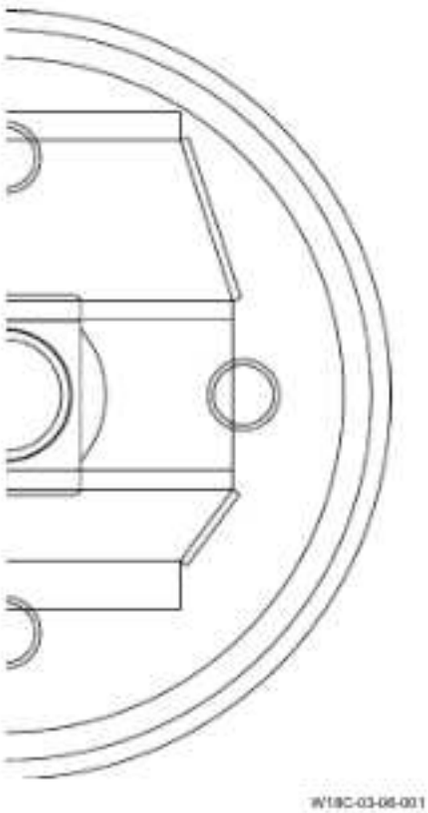
13. Install plates (8) (2 used) to handrail (7) with bolts (9) (4 used), spring washers (10) (4 used), washers (11) (8 used) and nuts (12) (4 used). (2 places)
   : 19 mm
   : 90 N·m (9.2 kgf-m, 66 lbf-ft)



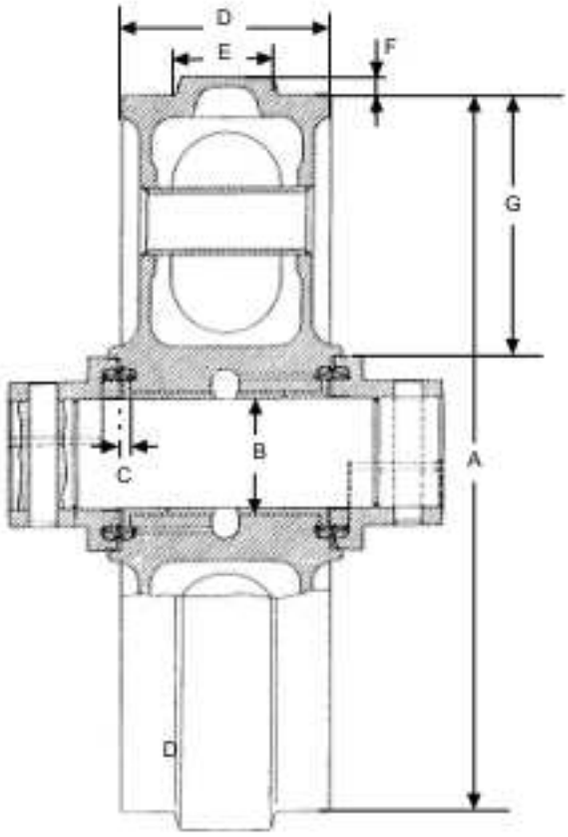


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MAITENANCE STANDARD



W18C-03-06-001



W144-03-04-002

Unit: mm (1 mm = 0.03937 in)

Item	Standard	Allowable Limit	Remedy
A : Idler Outer Dia	1045	(1015)	Repair or Replace
B : Axle Outer Dia	$160^{-0.085}_{-0.125}$	(159.2)	Replace
B' : Bushing Inner Dia	$160^{+0.480}_{+0.420}$	(161)	Replace
C : Bushing Flange Thickness	$15^{-0.1}_{-0.2}$	(13.5)	Replace
D : Idler Outer Thickness	304	(280)	Repair or Replace
E : Tread Width	144	(115)	Repair or Replace
F : Flange Height	27.5	37.5	Repair or Replace
G : Reference	379.5	-	-

NOTE: If welding is required for repair, refer to "Welding Repair Procedure (W3-10-1)" and to the pattern drawing s attached in the back of this book.
Values in ( ) are just for reference.

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4. 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 "Bleeding Air from Hydraulic Oil Tank" on page W1-3-1)

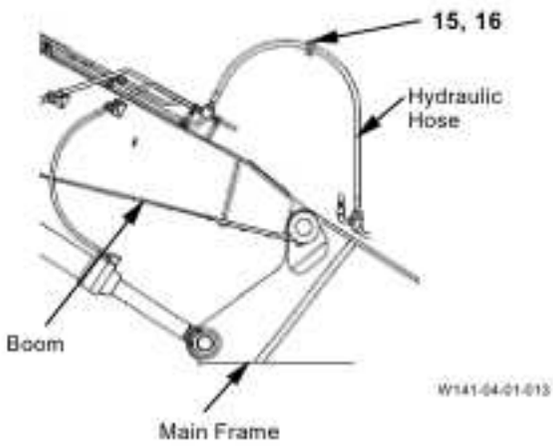
5. Connect all hydraulic hoses between the boom and main frame. (Refer to "Bleeding Air from Hydraulic Oil Tank" on page W1-3-1)
   : 30 mm
   : 400 N·m (41 kgf·m, 300 lbf·ft)

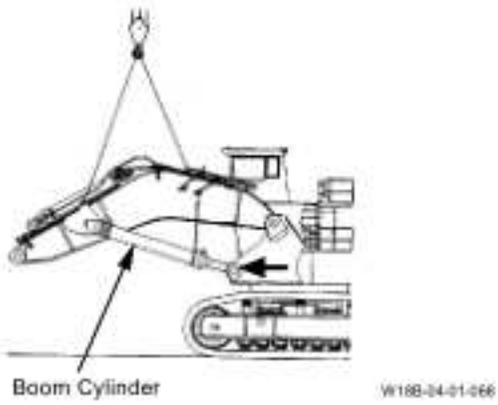
6. Install clamp (14) to hydraulic hose between the boom and main frame with bolt (13).
   : 19 mm
   : 90 N·m (9.2 kgf·m, 67 lbf·ft)

7. Remove the wire which is used to secure the boom cylinder rod. (2 places)

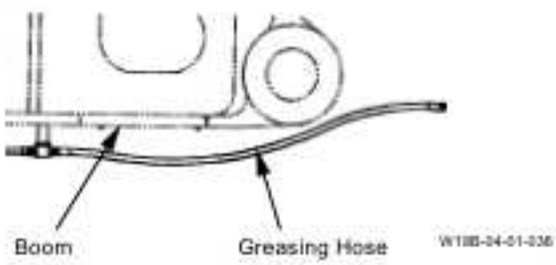
CAUTION: The boom cylinder weight: 2270 kg (5010 lb)

8. Start the engine and extend rod to align the pin holes both in boom cylinder rod end and the main frame. Install the pins into the holes. (2 places) (Refer to "Remove and Install Boom Cylinder" on page W4-2-2)





9. Connect greasing hose between boom and main frame.
   : 36 mm
   : 175 N·m (18 kgf·m, 130 lbf·ft)

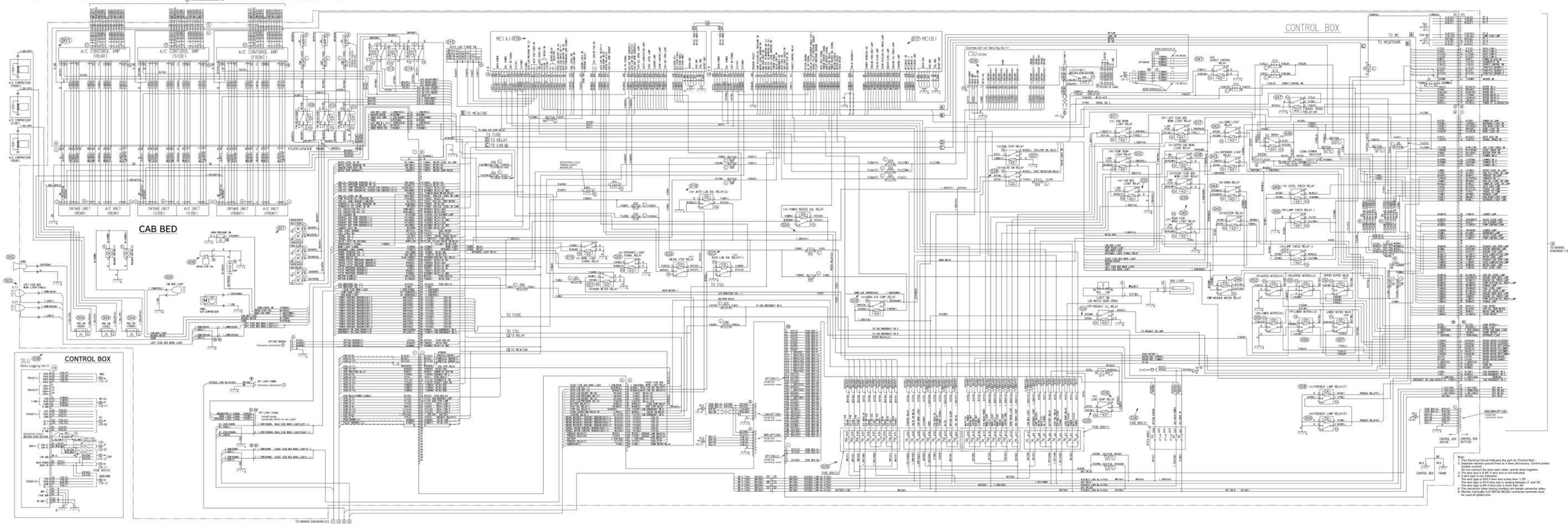


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EX1900-5 ELECTRICAL CIRCUIT DIAGRAM 2/3

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

IMPORTANT:
The numbers (001) to (059) indicate the No. in the cross reference table.
Refer to the cross reference table in T5-2 group.



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