

Service Manual

01

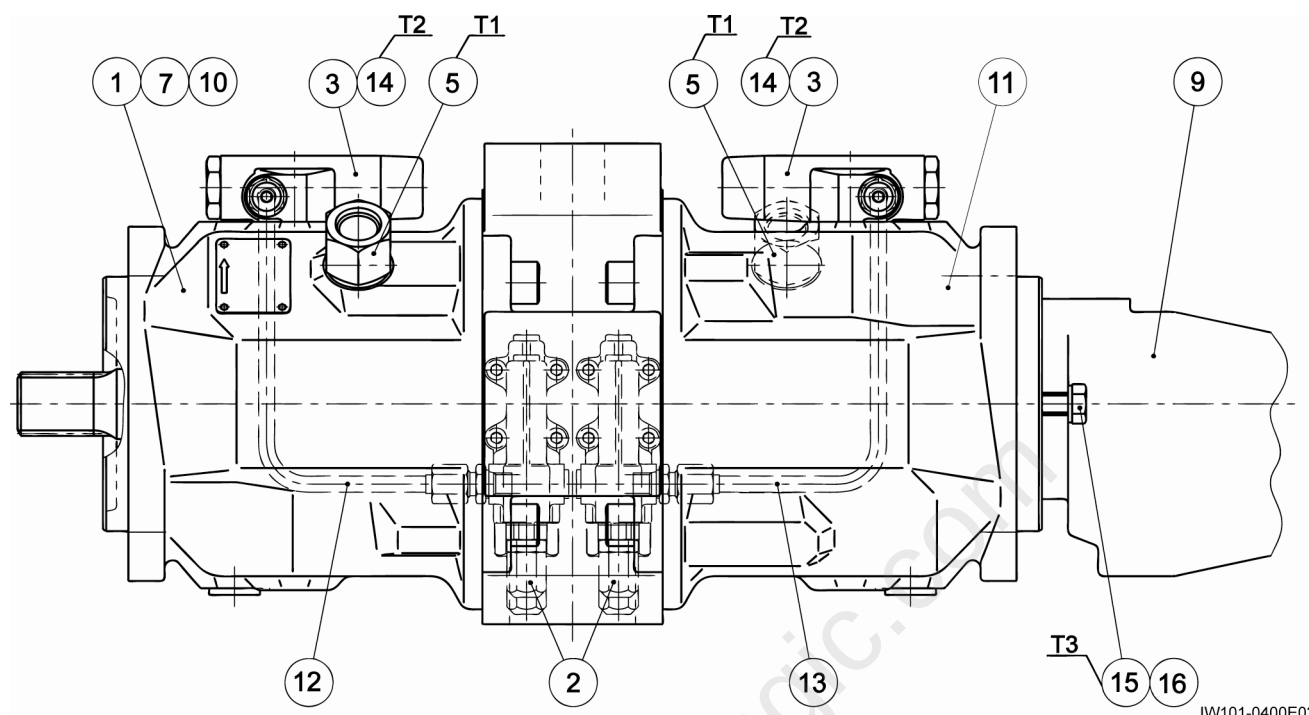
Boom Truck

Model **TM-35100-1**

Applicable Serial No. 291072--

TADANO LTD.

Hydraulic Pump



IW101-0400E02

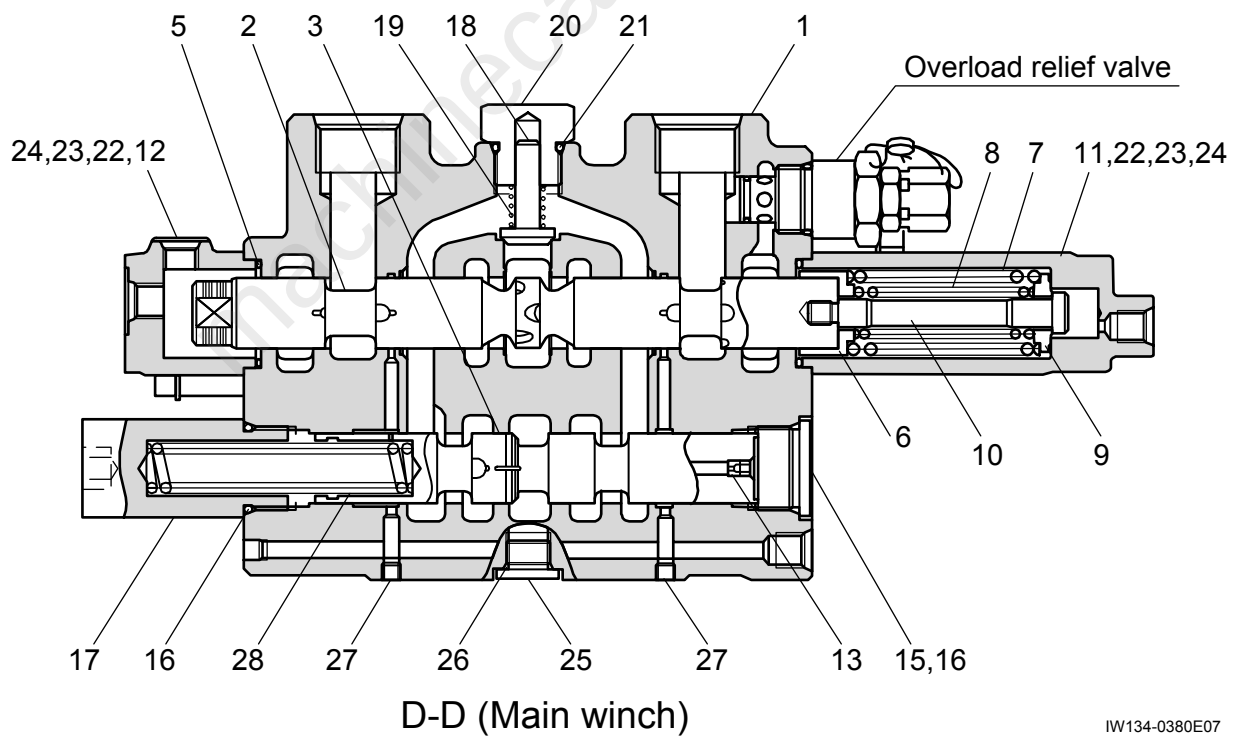
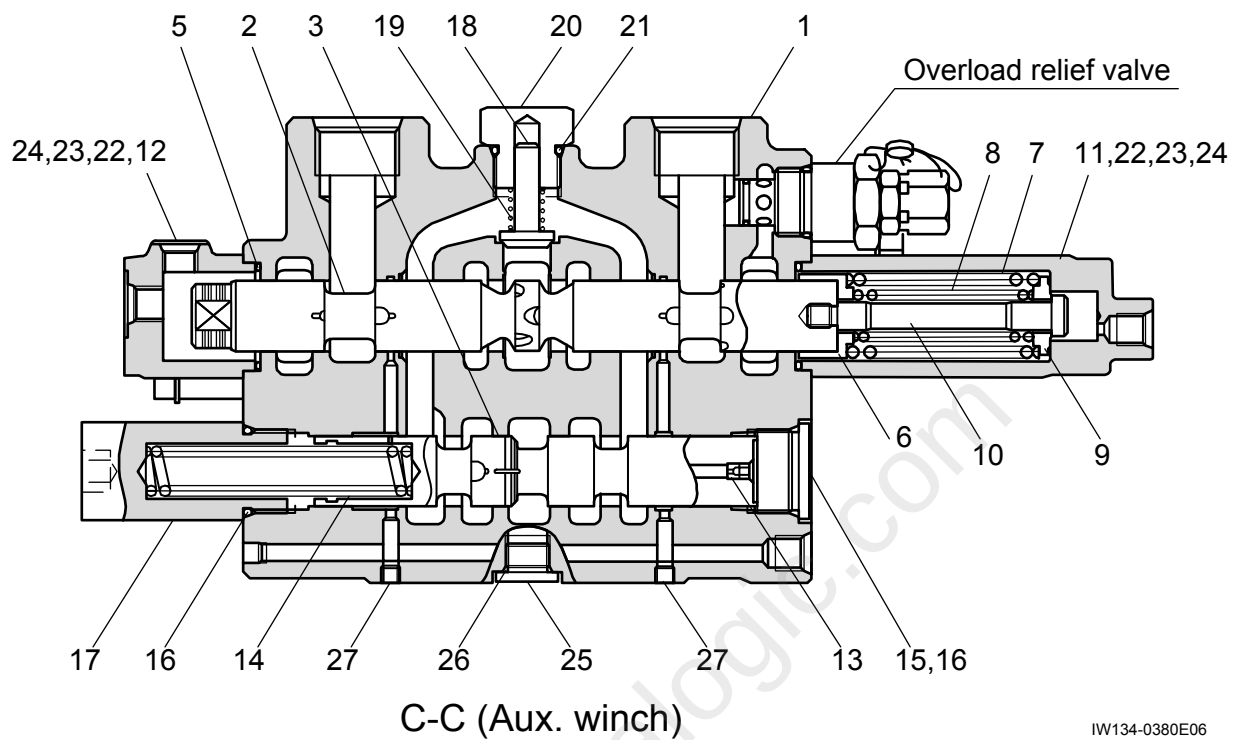
Thread size and tightening torque

Sign / Port	Thread size	Tightening torque		
		N-m	kgf-m	ft-lbf
T1	7/8-14 UNF	115	11.7	85
T2	7/16-20 UNF	15	1.5	11
T3	M10	69	7	51

- | | | | |
|------------------|--------------------|---------------------------|-------------------|
| 1. Piston pump | 5. Bushing | 9. Gear pump | 13. Piping |
| 2. Control valve | 6. --- | 10. Power diagram (Front) | 14. Plug |
| 3. Control valve | 7. Flow limit ring | 11. Power diagram (Rear) | 15. Bolt |
| 4. --- | 8. --- | 12. Piping | 16. Spring washer |

Hydraulic Pilot Control Valve (Elevating, Telescoping, Winch)

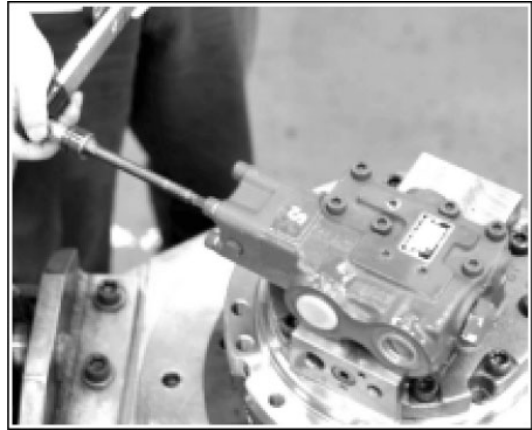
Winch selector valve



Hydraulic Motor and Counterbalance Valve

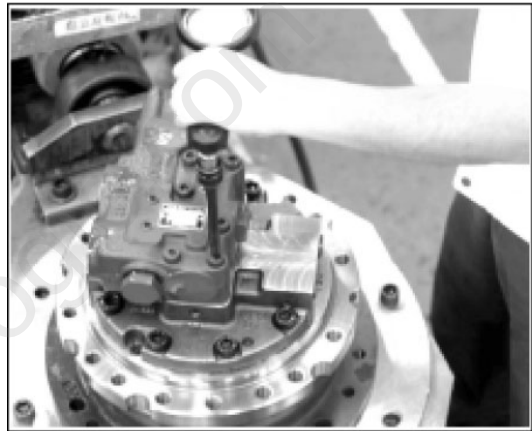
4. Loosen hexagon socket head bolt[321]

5. Take out hexagon socket head bolt[320].



4.9 Taking rear flange[401] out.

1. Take out hexagon socket head bolt[443].



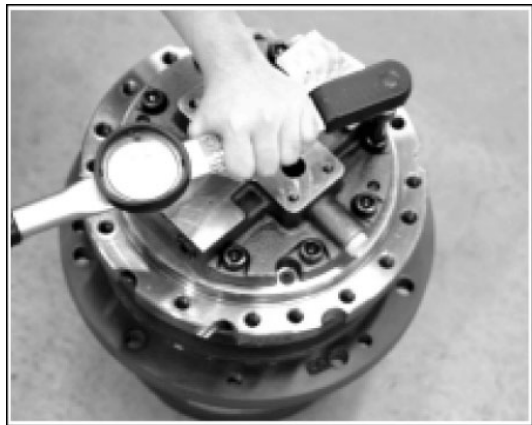
IW102-052015

2. Take rear flange[401] out from spindle[102].

[NOTICE]

◆ Hold rear flange[401] with both hands, and lift it up straight slowly and carefully. Forceful attempt or banging by hammer may cause damage on timing plate[209] from falling off.

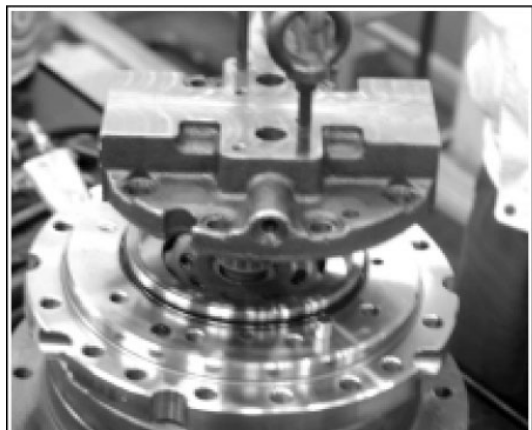
3. Take parallel pin[142] out from spindle[102].



4. Take out o-ring[143] and [144] from spindle[102].

[NOTICE]

◆ Do not reuse removed o-ring[143] and [144].



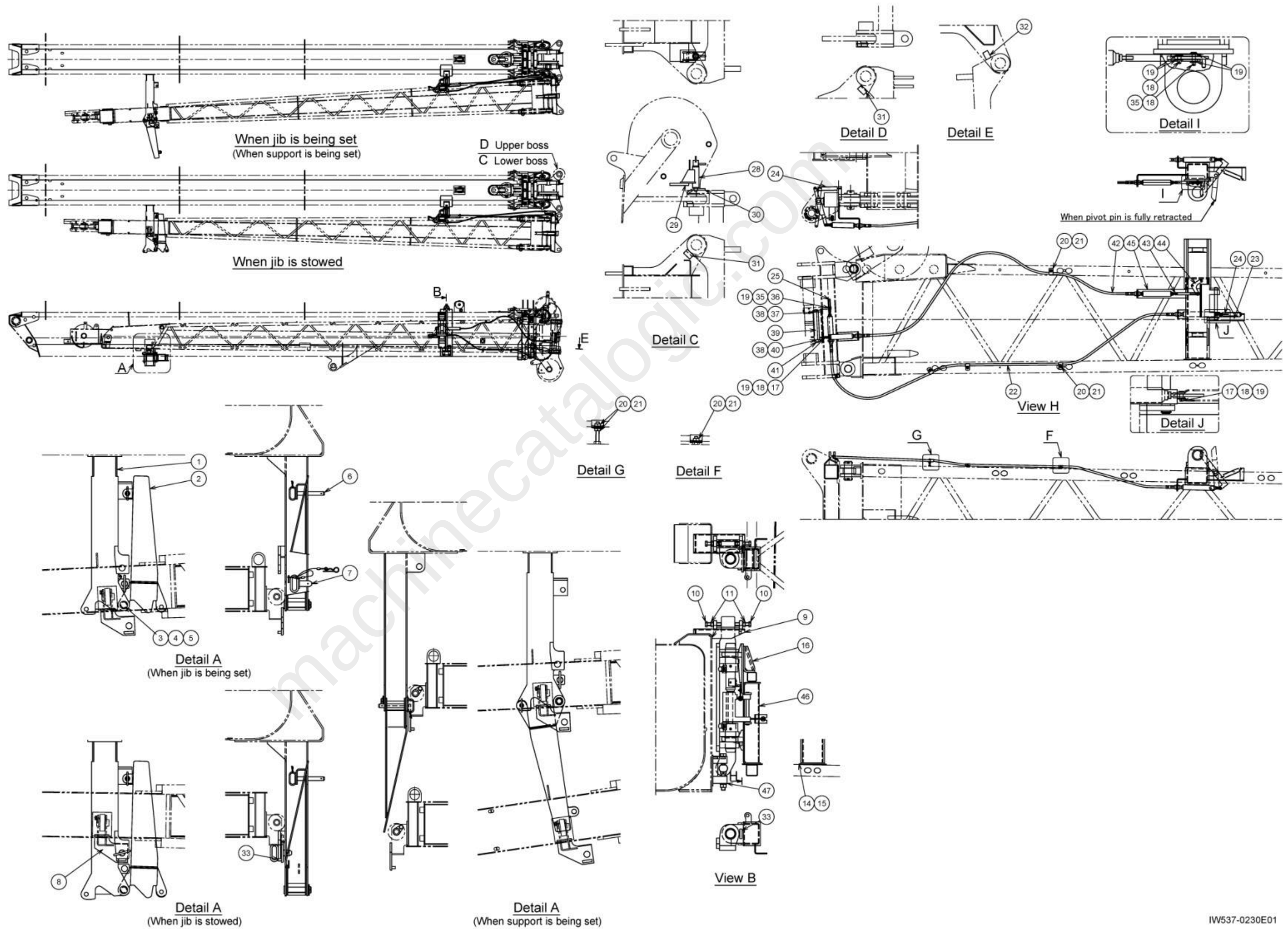
IW102-052016

Jib

G-3 Jib

1. Structure

1.1 Location of Jib



Air Conditioner

3. Basic refrigeration cycle

3.1 Structure

An ordinary air conditioner circulates a volatile liquid (called a refrigerant) that is contained in piping. In this piping, the refrigerant is repeatedly vaporized and condensed.

This device is made up of the following components.

1. Evaporator

In this component, the refrigerant vaporizes and absorbs heat from around the pipes, thus cooling the room.

2. Compressor

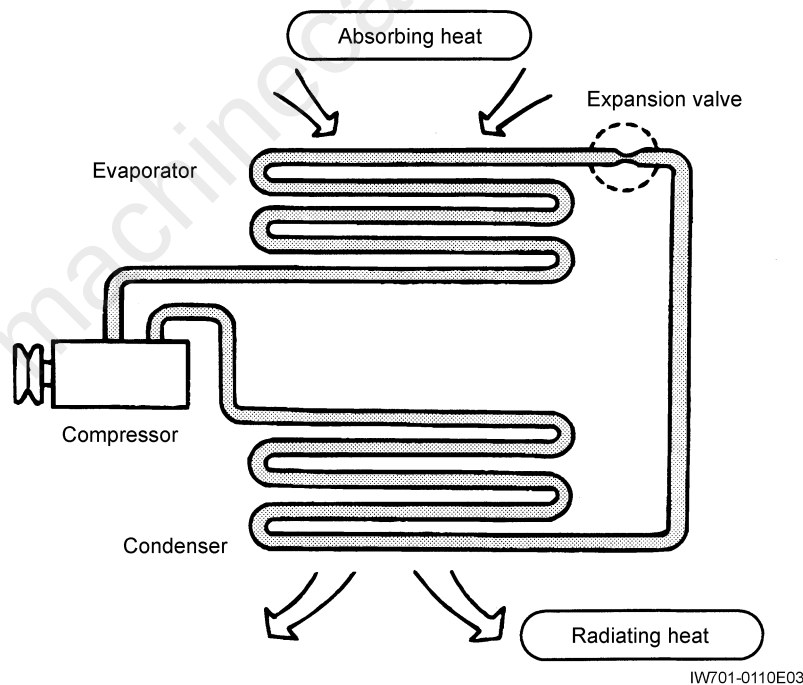
This component absorbs the gaseous refrigerant that was vaporized in the evaporator, and compresses it to higher pressure so that it can be more easily liquefied in the condenser.

3. Condenser

In this component, the high-temperature high-pressure refrigerant gas that was compressed by the compressor is cooled and liquefied.

4. Expansion valve

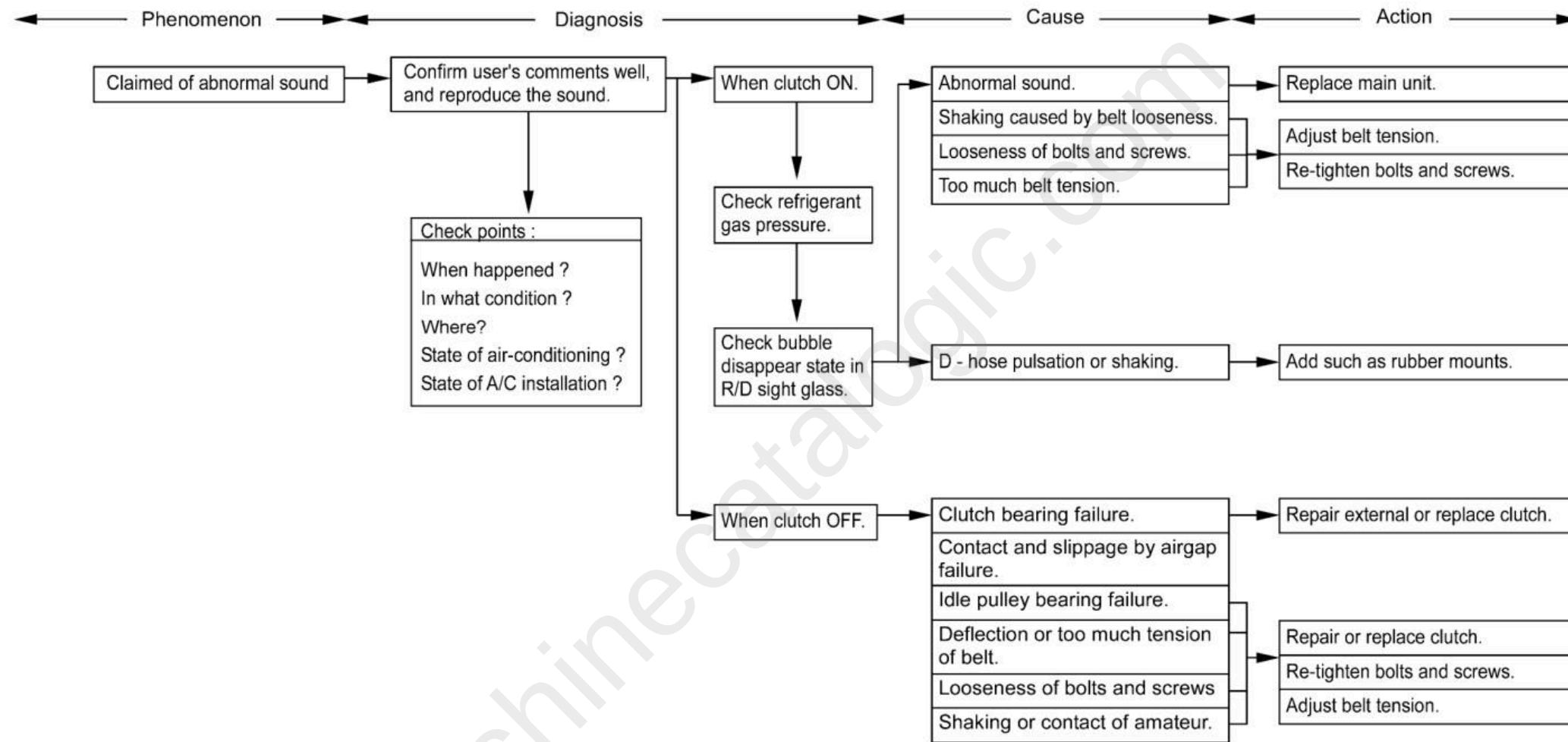
This is a kind of throttle valve which functions as a barrier to keep the inside of the evaporator at low pressure. It sprays the high-pressure liquid refrigerant from the condenser into the evaporator through a tiny opening, forming a low-pressure low-temperature mist that can easily and rapidly vaporize.



Air Conditioner

12. Compressor

12.1 Compressor abnormal sound diagnosis chart



IW701-0161E15

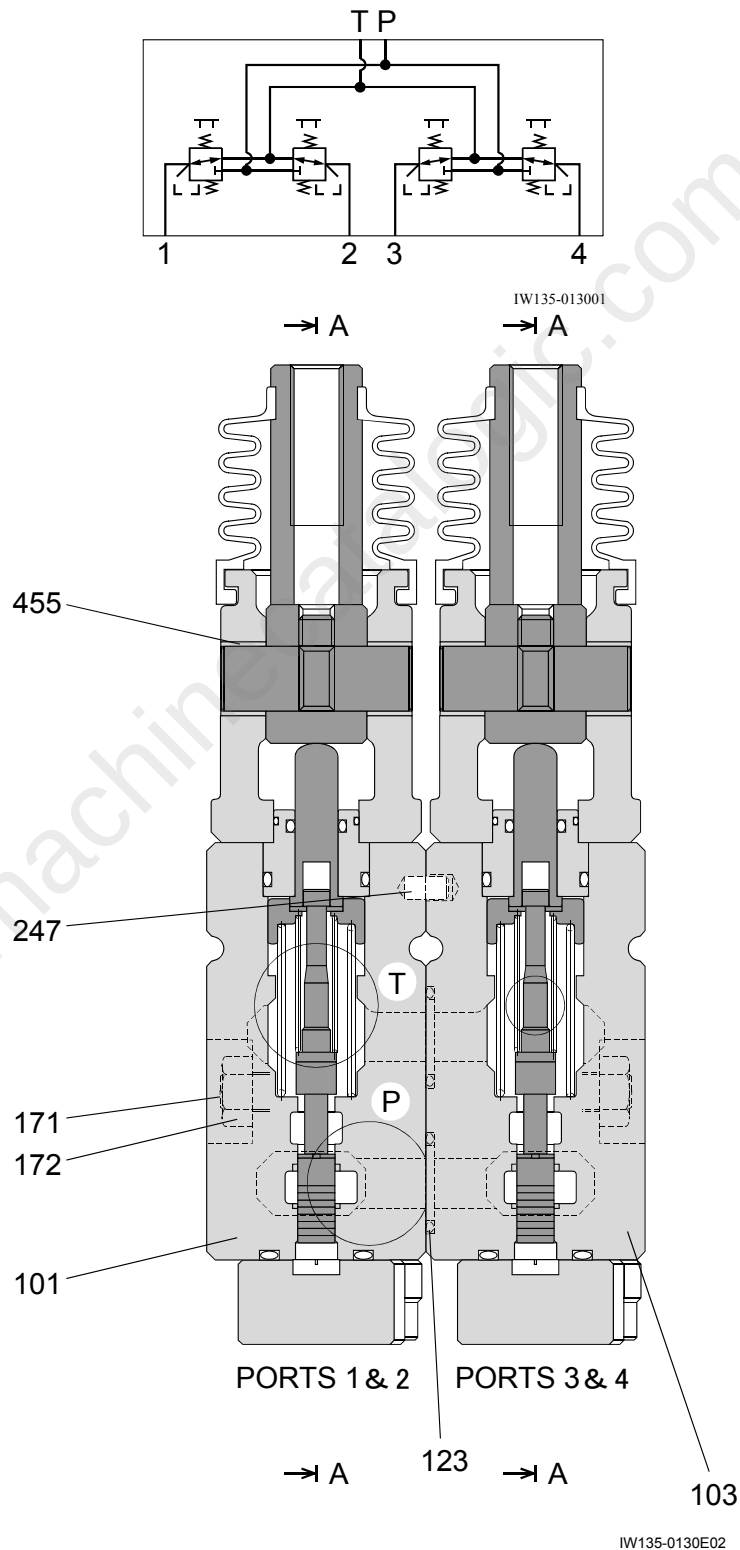
Remote Control Valve (Lever)

L-2 Remote Control Valve (Lever)

[NOTICE]

- ◆ There is a case that the appearance and so on differ from the parts for this machine. Although there is not so much difference in functions and disassembly procedures, make sure of the serial number of this machine and the part sales unit described in the parts catalog before starting disassembling operations.

1. Structure

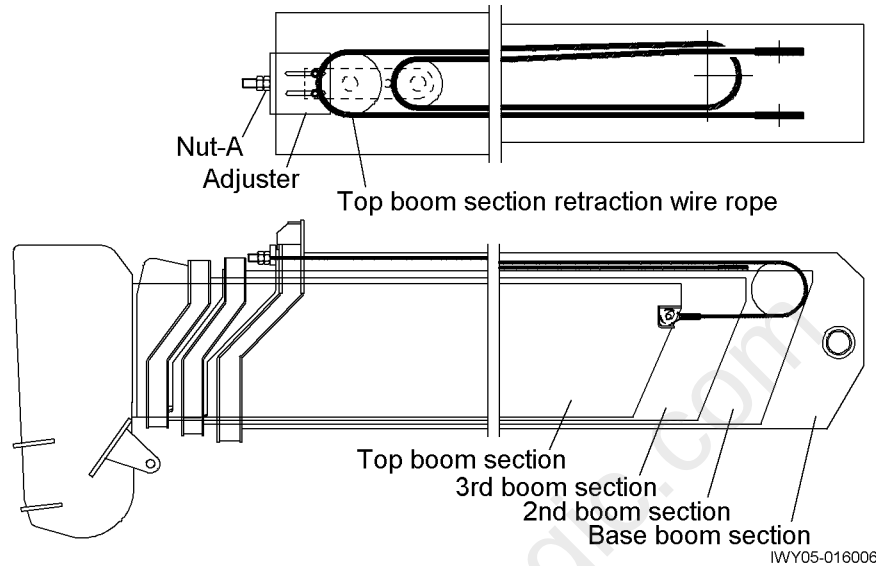


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Adjustment and Checks

8. When the wire rope is tense:

8.1 Tighten nut-A by approx. a third turn.



8.2 Extend the boom by 200-300 mm (8-12 in) by operating the boom telescoping control lever and then retract it fully. Check the boom is fully retracted.

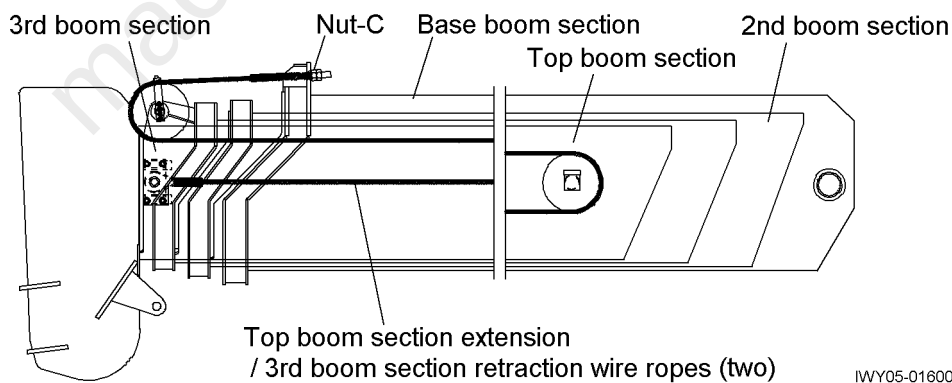
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OK
END

9. When only the 3rd boom section is not fully retracted:

9.1 Tighten two nut-C's by approx. a third turn equally.



9.2 Extend the boom by 200-300 mm (8-12 in) by operating the boom telescoping control lever and then retract it fully. Check the boom is fully retracted.

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OK
END

Full Version Available

Tadano TM-35100-1 Truck Crane Service Manual

Tadano TM-35100-1 truck crane service manual with repair procedures, adjustments, troubleshooting and system diagrams. Instant PDF download.

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