



TADANO

Publication No. GT-600XL-1/S1(U)-1E

Service Manual

01

Truck Crane

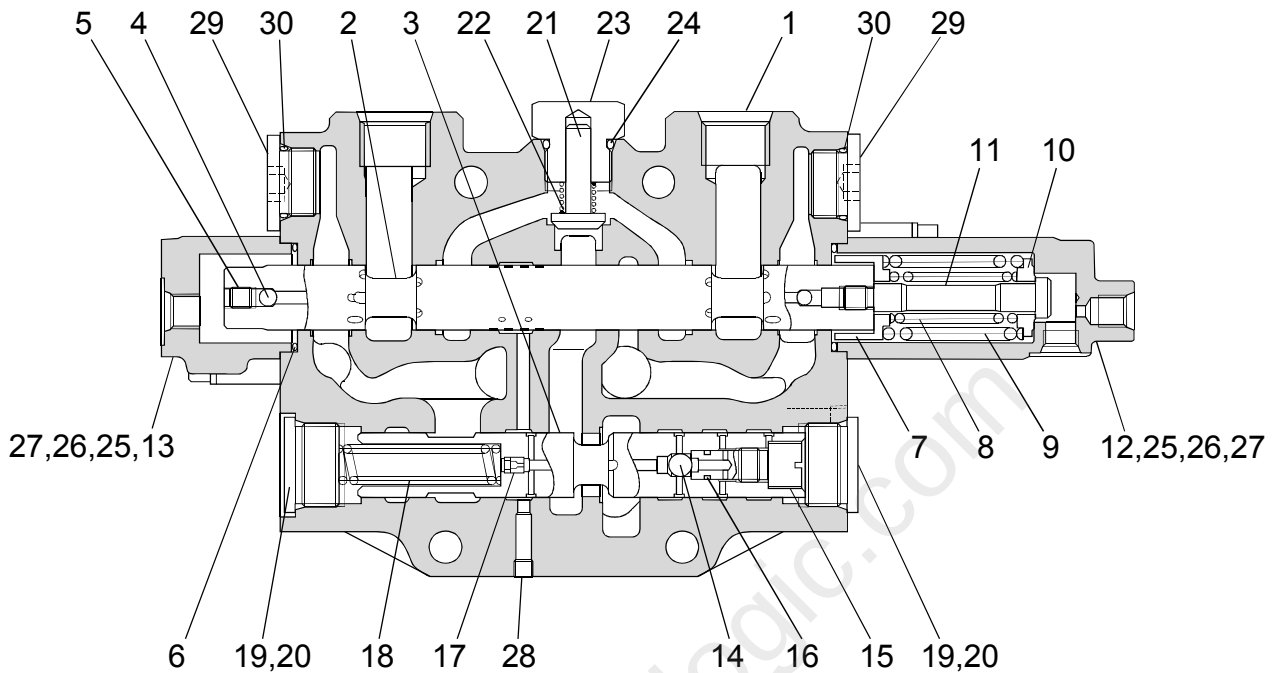
Model TT-600XL-1

Applicable Serial No. 437273 ~

TADANO LTD.

Hydraulic Pilot Control Valve (Elevating, Telescoping, Winch)

Telescoping selector valve



F-F (Telescoping)

IW134-011008

- | | | | |
|-------------------------------------|------------------|---------------------------------|---------------------------|
| 1. Telescoping selector valve body | 7. Spring seat | 15. Plug (shuttle valve) | 23. Plug (check valve) |
| 2. Spool (telescoping) | 8. Return spring | 16. O-ring | 24. O-ring |
| 3. Flow control valve (telescoping) | 9. Return spring | 17. Orifice | 25. Hex. socket head bolt |
| 4. Steel ball | 10. Spring seat | 18. Spring (flow control valve) | 26. Plain washer |
| 5. Hex. socket set screw | 11. Spool end | 19. Plug | 27. Spring washer |
| 6. O-ring | 12. Pilot cover | 20. O-ring | 28. Plug |
| | 13. Pilot cover | 21. Check valve | 29. Plug |
| | 14. Steel ball | 22. Spring (check valve) | 30. O-ring |

Thread size and tightening torque

Thread	Thread size	Tightening torque	
		N-m	ft-lbf
5* ¹	M8	12 - 14	8.5 - 10
11* ¹	-	18 - 20	13 - 14
15* ¹	-	18 - 20	13 - 14
17* ²	M6	5 - 6	3.5 - 4.5
19	M33	98 - 118	72 - 87
23	-	78.5 - 88.3	58 - 65
25	M8	27.5 - 29.4	20 - 22
28	-	10 - 12	7 - 9
29	G3/4	78.5 - 88.3	58 - 65

*1: Apply LOCTITE 242 (thread locking agent) to threaded sections.
 *2: Apply LOCTITE 270 (thread locking agent) to threaded sections.

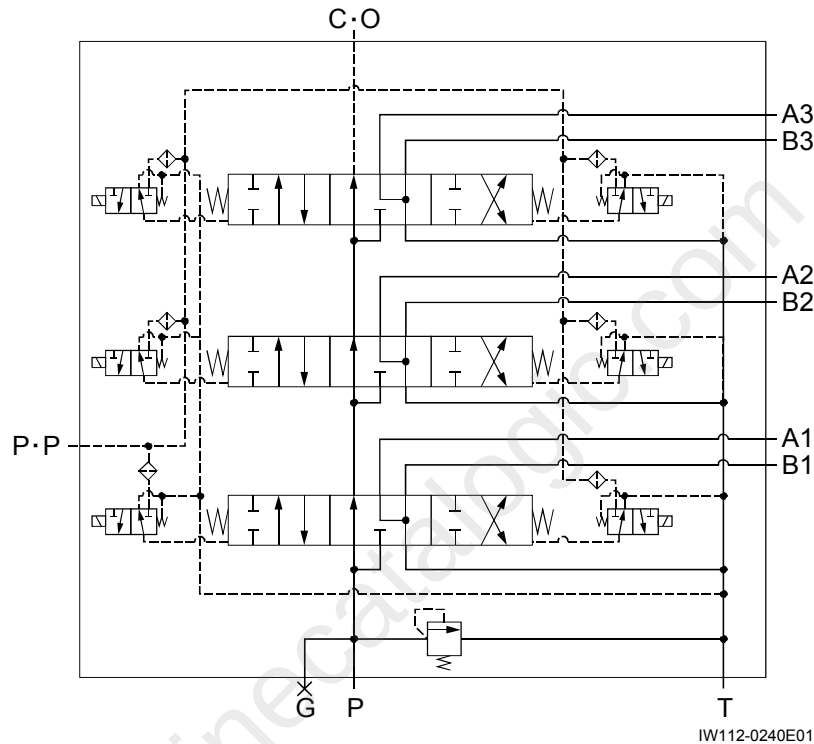
Solenoid Control Valve (Jib Set and Counterweight Cylinder)

Solenoid Control Valve (Jib Set and Counterweight Cylinder)

[NOTICE]

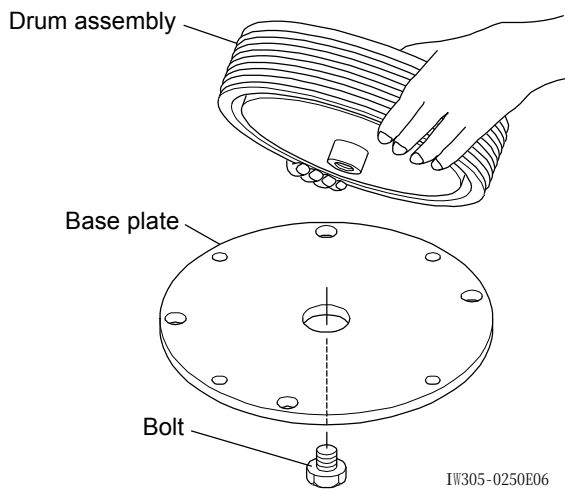
- ◆ There is a case that the appearance and so on differ from the parts for this machine. Although there is not so much difference in functions and disassembly procedures, make sure of the serial number of this machine and the part sales unit described in the parts catalog before starting disassembling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

1. Structure



Outrigger Extension Length Detector

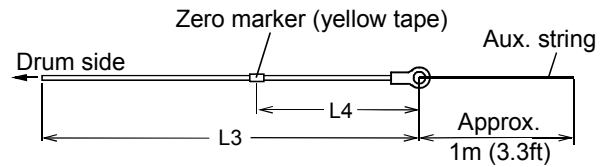
5. Remove bolt and separate drum assembly and base plate.



6. Remove the wire from the drum assembly.

3. Reassembly

1. Put a zero marker on a new wire by winding a yellow tape on it. Then tie an auxiliary string of about 1.0 m (3.3 ft) in length to the terminal of the wire.



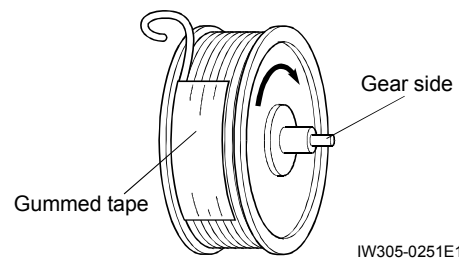
L3 : 3.24 m (10.63ft)

L4 : 0.08m (0.26ft)

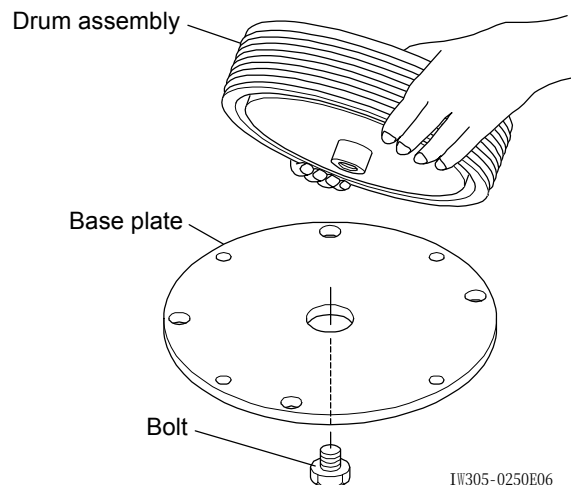
2. Wind the wire round drum assembly until the yellow tape position. Then wind it three additional turns and secure the wire with a packing tape to prevent it from getting loose.

[NOTICE]

- ◆ The wire winding direction should be clockwise as viewed from the shaft end.



3. Mount base plate on drum assembly with bolt.



Control System

Contents

■ Control System

1. Crane control devices 1

■ Remote Control Valve (Lever)

1. Structure 3

■ Remote Control Valve (Pedal) (~#437296)

1. Structure 6

■ Remote Control Valve (Pedal) (#437297~)

1. Structure 8

■ Shuttle Valve (Lever / Pedal)

1. Structure 11

■ Solenoid Valve

(Boom Telescoping / Aux. Hoist)

1. Structure 12

■ Solenoid Control Relief Valve (Elevating Slow Stop) (~#437377)

1. Structure 14

■ Solenoid Control Relief Valve (Elevating Slow Stop) (#437378~)

1. Structure 15

Mass Table

Mass Table

Part Name		Spec. No.
		GT-600-1-90102 2M2D (North America)
Boom	Boom ass'y (including telescoping cylinder, jib-1 and jib-2)	8450kg (18630lbf)
	Telescoping cylinder (No.1)	610kg (1350lbf)
	Telescoping cylinder (No.2)	610kg (1350lbf)
	Jib-1	560kg (1230lbf)
	Jib-2	280kg (620lbf)
Elevating cylinder		950kg (2090lbf)
Swing table ass'y (excluding boom and elevating cylinder, swing bearing, counter weight)		5150kg (11360lbf)
Swing bearing		560kg (1230lbf)
Swing speed reducer and swing motor		170kg (370lbf)
Rotary joint		180kg (400lbf)
Winch	Main winch ass'y (including winch motor)	640kg (1410lbf)
	Auxiliary winch ass'y (including winch motor)	640kg (1410lbf)
	Winch motor (main/auxiliary)	150kg (330lbf)
Weight	Counterweight	3630kg (8000lbf)

Full Version Available

Tadano TT-600XL-1 Truck Crane Service Manual

Tadano TT-600XL-1 truck crane service manual with repair procedures, adjustments and troubleshooting for the main systems. Searchable PDF.

VIEW THE FULL MANUAL

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