

Service Manual

02

Rough Terrain Crane

GR-600XL-2

Model

GR-750XL-2

Applicable Serial No. 547121 --

Center Joint

1.2 Port size table

port	circuit	remarks	port size
P1	Winch		G1
P2	Elevating Telescoping		G1
P3	Steering Swing		G1/2
P4	Steering	left	G1/2
P5	Steering	right	G1/2
P6	Option		G3/8
P7	Air conditioner		G1/2
T	Tank		Φ50
DR	Drain		G1/2
A1	Air supply		G3/8
A2	Service brake	Primary	G3/8
A3	Service brake	Secondary	G3/8
W1	Heater	IN	φ13
W2	Heater	OUT	φ13

Swing Assembly

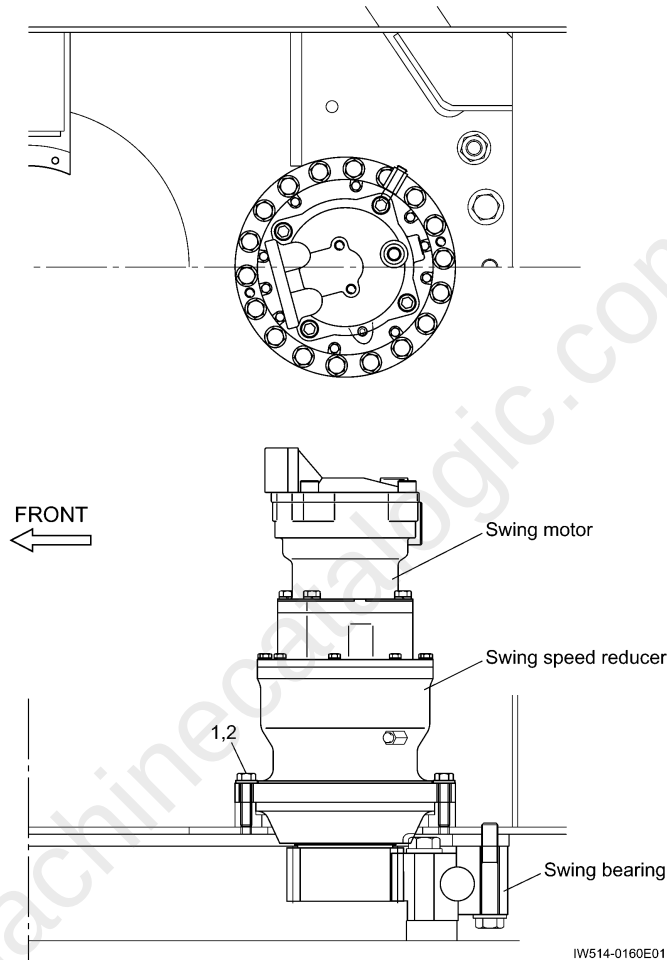
D-5 Swing Assembly

[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.

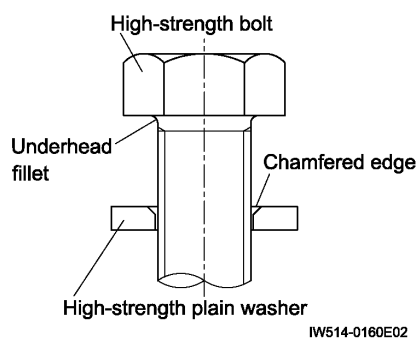
1. Structure

1. Bolt
2. Plain washer



[NOTICE]

- ◆ Apply torque control agent to the threaded sections of the bolts.
- ◆ Install the plain washer, orienting its chamfer on the internal periphery as shown below.



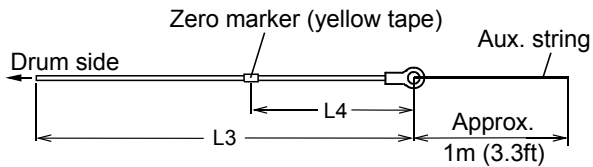
Thread size and tightening torque

Sign / port	Thread size	Tightening torque		
		N-m	kgf-m	ft-lbf
1	M18	294 - 343	30 - 35	217 - 253

Outrigger Extension Length Detector

3. Reassembly

- 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.



IW305-0251E10

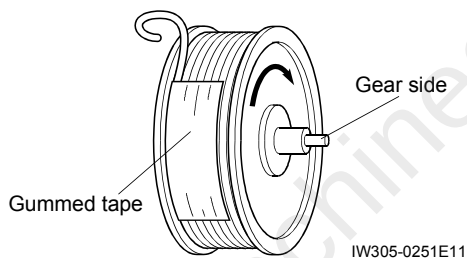
L3 : 2.72 m (8.9ft)

L4 : 0.08m (0.26ft)

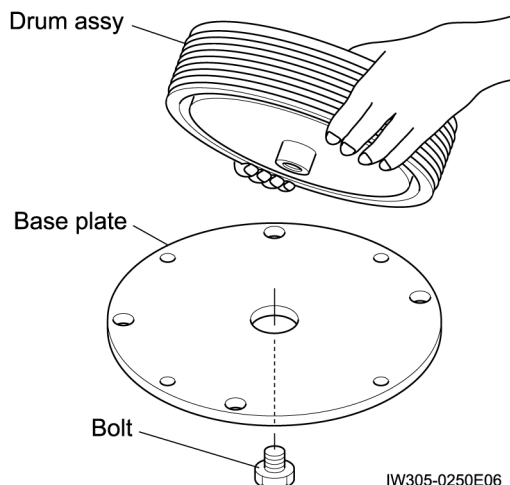
- Wind the wire round drum assy until the yellow tape position. Then wind it three additional turns and secure the wire with a gummed tape to prevent it from getting loose.

[NOTICE]

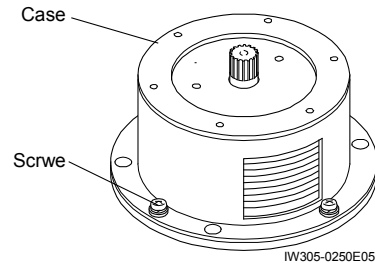
- ◆ The wire winding direction should be clockwise as viewed from the shaft end.



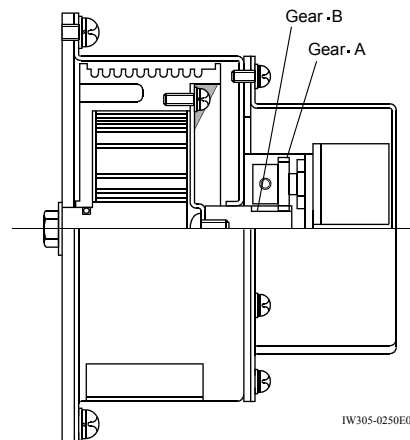
- Mount base plate on drum assy with bolt.



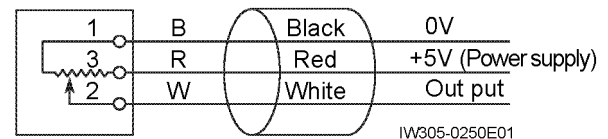
- Apply grease (Molyspeed Grease No.0) to the bearing of case and put the case over drum assy. In this time, lead the end of the auxiliary string out through the opening of the cord guide.



- Secure case on base plate with screw.
- Draw out the wire from the guide window of the reel. After the wire has been extended to the 0-point mark (yellow tape), secure the wire to the case with gummed tape.
- Rotate gear•A of the potentiometer by hand. At the position where the resistance between B and W is $200 \pm 30 \Omega$, mesh gears•A and B, and install the potentiometer.



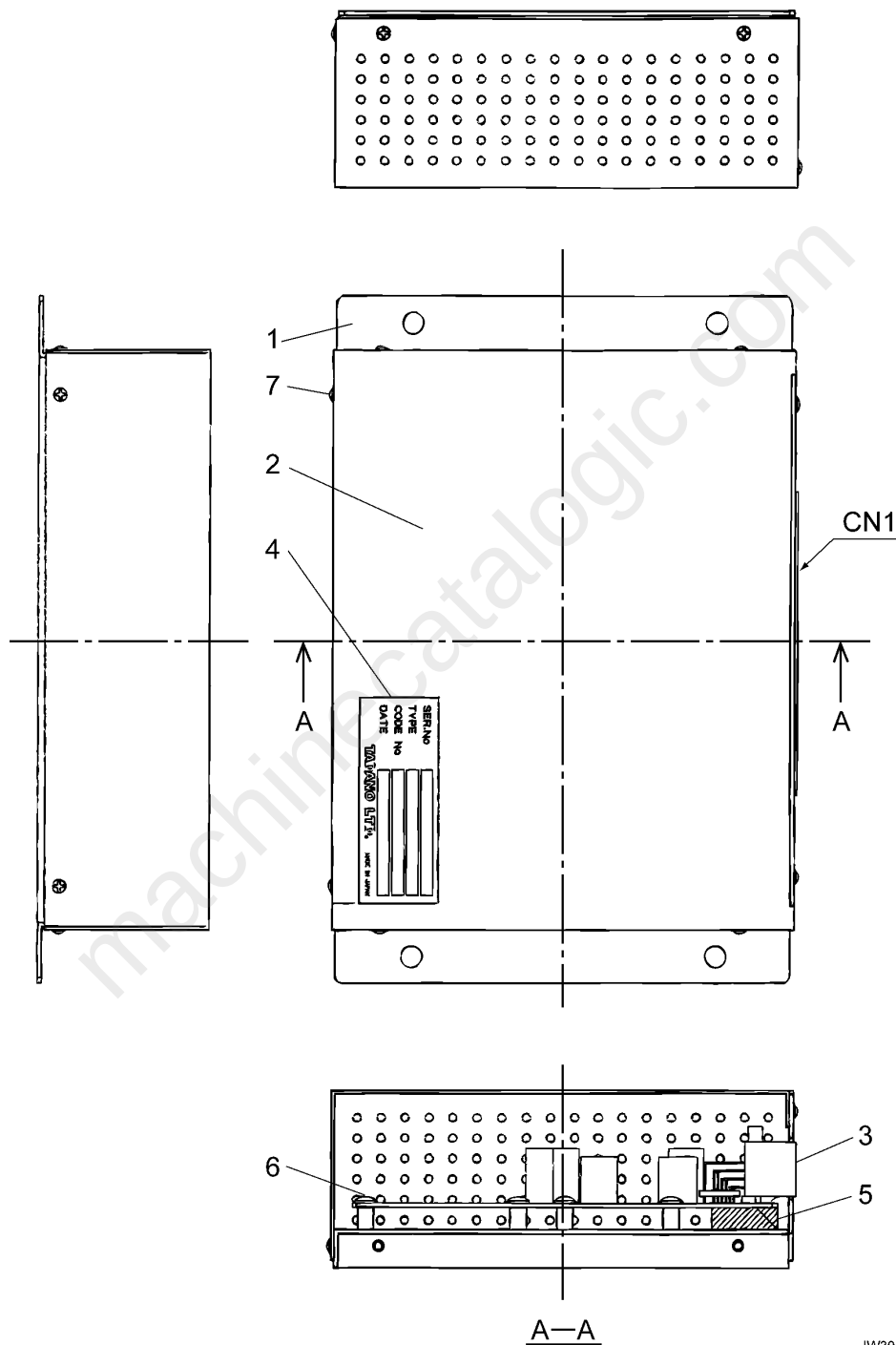
Potentiometer



Display Control Unit (DCU)

2. Structure and function

The display control unit drives the combination meter and transmits the vehicle information (include error history) to the information controller (ICF).



IW303-045002

- | | | | |
|----------|---------------------------|------------------------------------|------------------------------|
| 1. Base | 3. Circuit board assembly | 5. Silicon sheet | 7. Cross-recessed round head |
| 2. Cover | 4. Nameplate | 6. Cross-recessed round head screw | screw |

Signal Transmitter (STM-E)

6. Data list

6.1 One-to-one correspondence input/output function

- (1) Signal to be output from the transmitter after one-to-one correspondence with the signal received from the lower MDT.

1	Do1	(Spare input 1)*	→	Do1	(Spare output 1)
2	Do2	(Spare input 2)*	→	Do2	(Spare output 2)
3	Do3	(Spare input 3)*	→	Do3	(Spare output 3)
4	Do4	(Spare input 4)*	→	Do4	(Spare output 4)

* The signal is the STM (Do) data received from the lower MDT on the serial communication.

- (2) Signal to be transmitted to the lower MDT after one-to-one correspondence with the signal input to the transmitter.

1	Di1	(Spare input 1)	→	Di1	(Spare output 1)*
2	Di2	(Spare input 2)	→	Di2	(Spare output 2)*
3	Di3	(Spare input 3)	→	Di3	(Spare output 3)*
4	Di4	(Spare input 4)	→	Di4	(Spare output 4)*

* The signal is the STM (Di) data transmitted to the lower MDT on the serial communication.

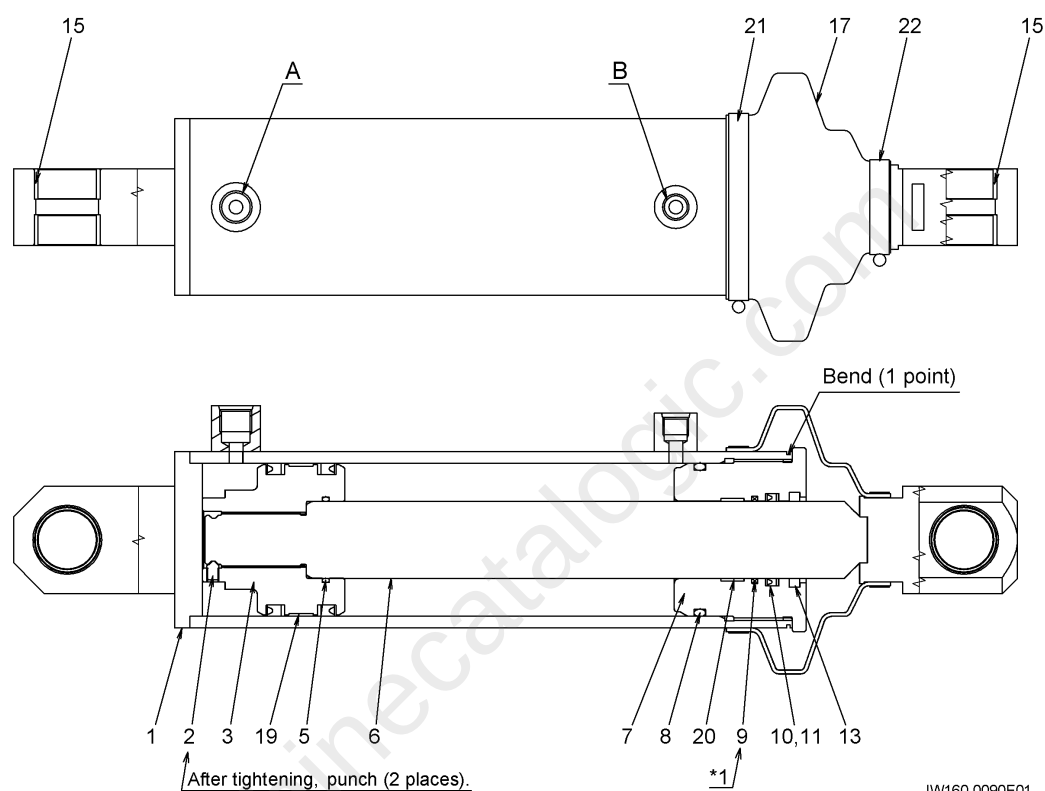
Steering Cylinder

S-4 Steering 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



1. Cylinder	7. Rod cover	13. Dust seal	19. Plain bearing
2. Set screw	8. O-ring	14. ---	20. Plain bearing
3. Piston	9. Damper ring	15. Plain bearing	21. Clip
4. ---	10. Packing	16. ---	22. Clip
5. O-ring	11. Backup ring	17. Boot	
6. Rod	12. ---	18. ---	

*1 : Face the notch or the lip toward the pressurized side.

Thread size and tightening torque

Sign / port	Thread size	Tightening torque		
		N-m	kgf-m	ft-lbf
A	G1/2	98	10	72
B	G3/8	49	5	36
C, D	Rc1/8	9 - 12	0.9 - 1.2	6.5 - 9
2	M8	13.2 - 16.2	1.35 - 1.65	9.7 - 11.9

Full Version Available

Tadano GR-600XL-2 Rough Terrain Crane Service Manual

Tadano GR-600XL-2 rough terrain crane service manual with repair procedures, adjustments and troubleshooting for the main systems. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/tadano-gr-600xl-2-rough-terrain-crane-service-manual/>

File Pages: 412 · File Count: 1 · File Language: English