

Service Manual

01

Rough Terrain Crane

Model **TR-300XL-4**

Applicable Serial No. 560689 —

Hydraulic Pump (Double Variable Displacement Pump)

2. Theory of operating of regulator section

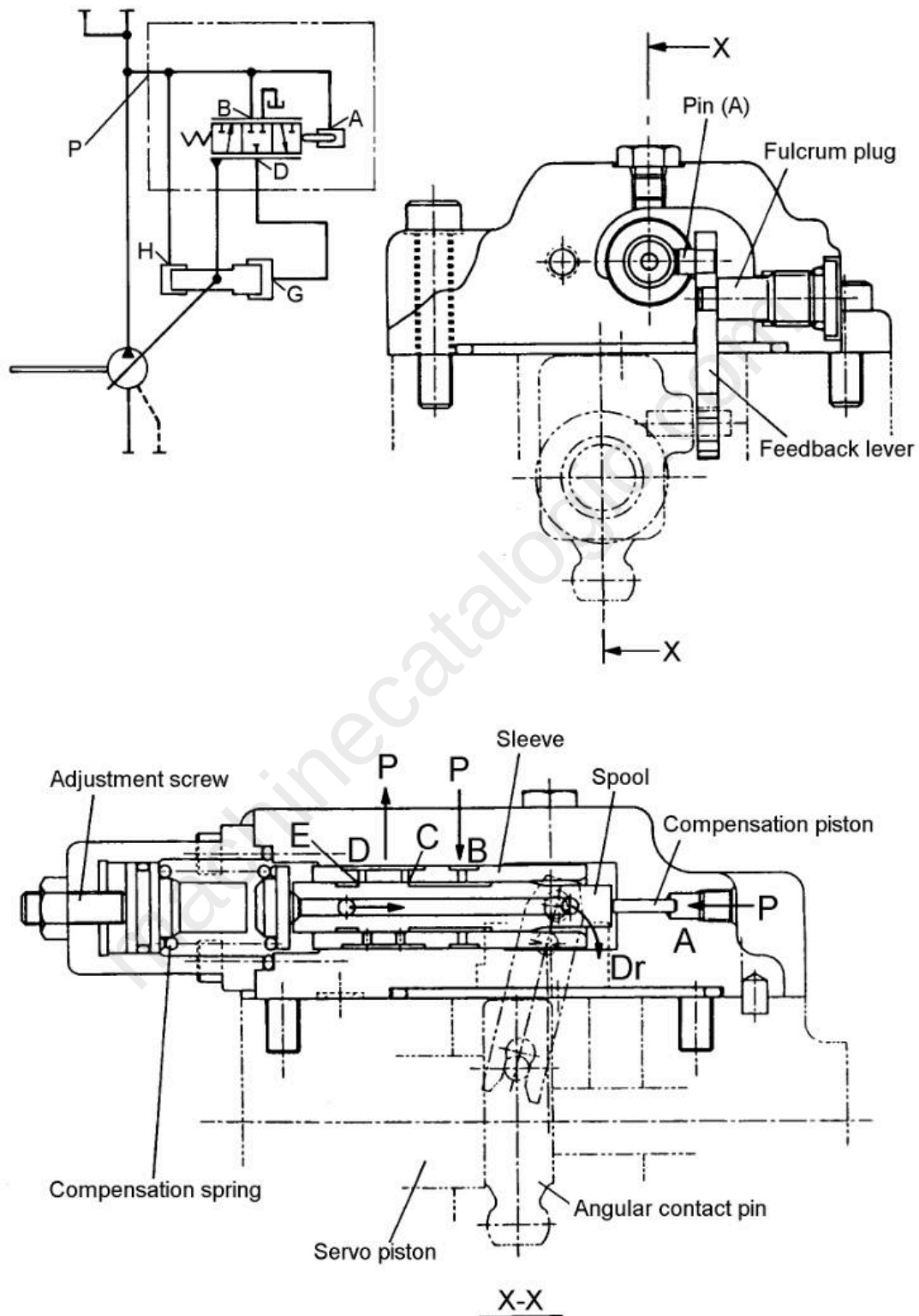
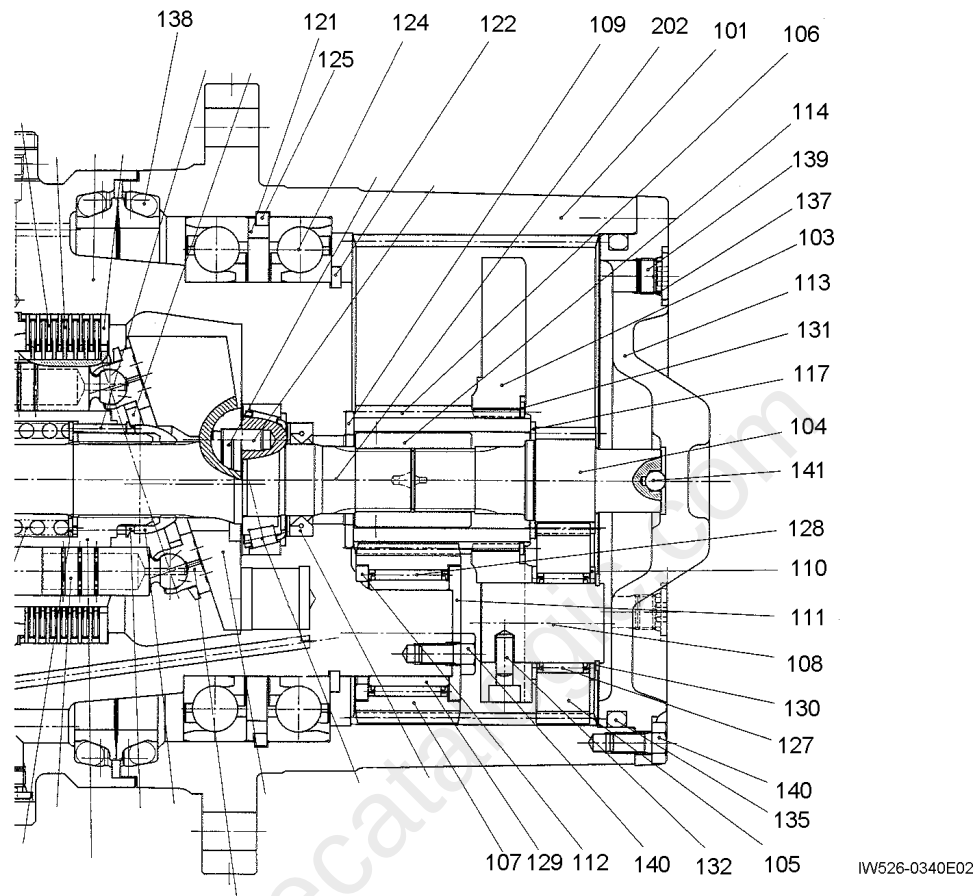


Fig. 1

IW101-0271E01

Winch

1.2 Reducer



101.Hub	110.Thrust collar 2	125.Ring	138.Floating seal
102.Spindle	111.Thrust plate	127.Needle roller bearing	139.Plug
103.Carrier	112.Thrust collar 3	128.Needle roller bearing	140.Bolt
104.Sun gear 1	113.Cover	129.Inner ring	141.Steel ball
105.Planetary gear 1	114.Coupling	130.Retaining ring	202.Shaft
106.Sun gear 2	117.Washer	131.Retaining ring	
107. Planetary gear 2	121.Collar	132.Parallel pin	
108.Pin	122.Retaining ring	135.O-ring	
109.Thrust collar 1	124.Ball bearing	137.O-ring	

Thread size and tightening torque

Sign / Port	Thread size	Tightening torque	
		N-m	ft-lbf
139	G3/8	48.99 - 68.61	36.1 - 50.6
140	M10	48.09 - 67.71	35.5 - 50

[NOTICE]

- ◆ Once disassembled, sealing parts (O-ring, Oil seal, Floating seal) should be replaced with new ones even though no damage is observed.
- ◆ Do not take off Pin[108], Parallel pin[132] from Carrier[103].

Air Conditioner

WARNING

 While the engine and the air conditioner are running, be sure not to touch the rotating objects (fan belt, condenser fan, etc).

[NOTICE]

- ◆ Operate the air conditioner after starting the engine. Before stopping the engine, turn off the power switch of the air conditioner.
- ◆ Do not place an obstructive object at the front of the louvers.
- ◆ The compressor of the air conditioner stops during outrigger operation and suspension lock operation.

Power switch

As this switch is pressed, the power to the air conditioner is turned on or off repeatedly.
While the switch is on, signs are shown on the liquid crystal display.

Air conditioner switch

This switch is used to start up the compressor and to activate the cooling/dehumidification function.
As it is pressed, it is turned on or off repeatedly.
While the switch is on, the snow-shaped sign appears on the display.

Inside/outside air selector switch

This switch is used to select air supply between outside-cab air supply and air circulation inside cab.

As it is pressed, the air supply changes between outside-cab air supply and air circulation inside cab repeatedly.

The current air supply is shown on the display.

Air flow switches

These switches are used to select air flow volume among four steps.

The current volume is shown on the display.

Temperature control switches

These switches are used to adjust the temperature of the air from the air conditioner among eight steps.

The current temperature is shown by the bargraph on the display.

Air outlet changeover switch

This switch is used to select the air blowing direction. As it is pressed, the direction changes Face → Face and foot → Foot in sequence repeatedly.

The current direction is shown on the display.

Defroster switch

This switch is used to set the air flow coming out of the defroster.

To cancel the defroster mode, press this switch again or press the air outlet changeover switch. The air flows will come out in the direction last selected.

While the defroster is used, the corresponding sign is shown on the display.

Solenoid Valve (Air)

1.Core	6.Coil assy (DC24V)	11.O-ring	16.Cover
2.O-ring	7.-----	12.Valve seat	17.Filter
3.Case	8.Rod	13.Valve	18.Packing
4.Spring	9.Coil cover	14.Bady	19.Packing holder
5.Plunger	10.O-ring	15.Spring	20.Plug

Thread size and tightening torque

Sign / Port	Thread size	Tightening torque	
		N-m	ft-lbf
IN, OUT	Rc1/4	15 - 29	11 - 22
T1	M8x1.25	8 - 12	6 - 9

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Tadano TR-300XL-4 Rough Terrain Crane Service Manual

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