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TO START

PLACE CURSOR ON THE SYSTEM AND LEFT CLICK

ORBITROL

TR500/600XL/650XXL

● DISASSEMBLY

CAUTION

☆ BEFORE STARTING TO DISASSEMBLE AND REASSEMBLE, BE SURE TO READ THE DISASSEMBLY AND REASSEMBLY CAUTIONS IN "GENERAL CAUTIONS (HYDRAULIC UNITS)" IN CHAPTER A, AND WORK WITH PROPER CARE.

DISASSEMBLING ROTOR SECTION

1. Clamp the flange lightly in a vise, with the rotor up. At this time, clamp over copper plate or the like, and take care not to clamp too strongly. (Fig. 4)
2. Unscrew bolts ① with a 5/16"-12 point socket wrench.
3. Remove end cap ②. (Fig. 5)

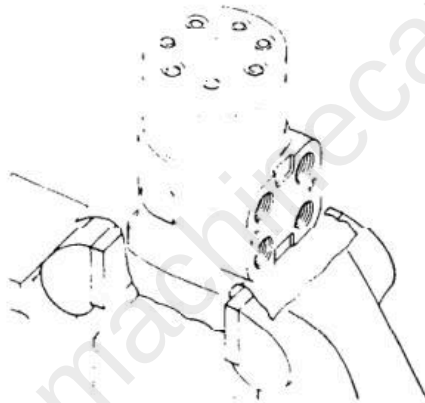


Fig. 4

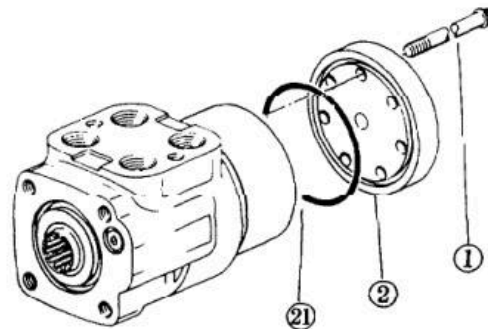
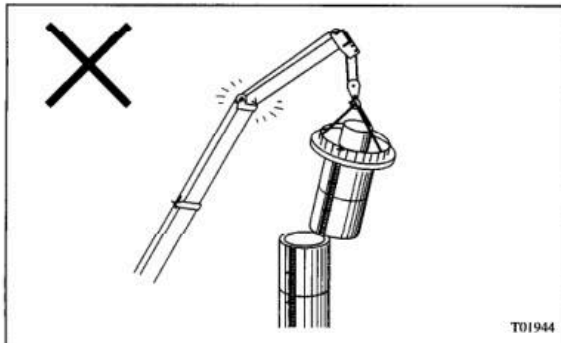


Fig. 5

4. Take out O-ring ② from end cap ②.
5. Remove rotor set ③, taking care not to drop the star in the rotor set. (Fig. 6)
6. Remove O-ring ④ and spacers ⑤, ⑥ from rotor set ③.
7. Remove drive ⑧, plate ⑦ and O-ring ⑨. (Fig. 7)

⚠ Be Careful in Demolition Work

It is very dangerous to lift parts or components of a structure undergoing demolition, if the weight and center of gravity are unknown. Before starting operation, ascertain the weight and center of gravity of the loads, and establish the lift procedure to be taken.



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⚠ Carefully Lift a Load in Water

When handling a load submerged in water, it is important not to lift the load out "all at once" when it appears above the water's surface. The load may be impregnated with water and heavier than expected. Allow the load to drain while raising it slowly.

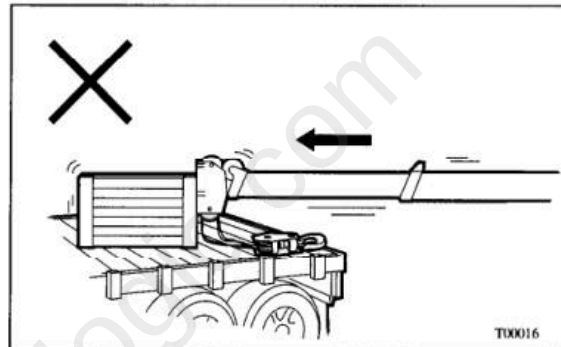
A load lifted out of water, even when fully drained, weighs more than it did when submerged because of buoyancy effects. Lift the load carefully so as not to cause overloading.

⚠ Do Not Push or Pull an Object with the Boom

Never use the boom to push or pull an object. Do not use the boom to thrust up an object or force the boom into an object.

To move an object, use a machine designed for that purpose, such as a fork lift truck or carryall.

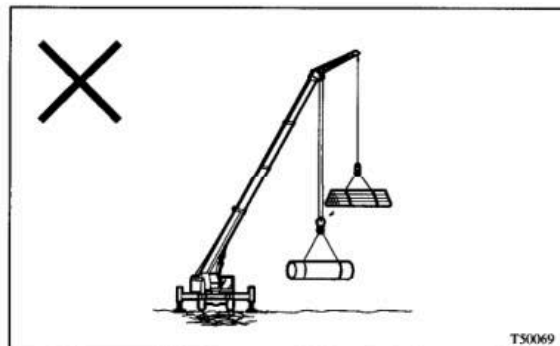
Do not use the crane in applications other than those specified.



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⚠ Caution while Using the Jib (1)

Never attempt to lift separate loads on both the boom and the jib at the same time. Otherwise, the boom or the jib might be damaged, or the crane might overturn.



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BOOM

1.Top boom	46.Plate
2.Third boom	47.Slide plate
3.Second boom	48.Shim
4.Base boom	49.Shim
5.Pin	50.Slide plate
6.Snap pin	51.Slide plate
7.Nut	52.Set screw
8.Tooth washer	53.Slide plate
9.Pin	54.Retainer ass'y(R)
10.Retaining ring	55.Retainer ass'y(L)
11.Sheave ass'y	56.Slide plate ass'y
12.Pin	57.Slide plate ass'y
13.Spacer	58.Retainer ass'y(L)
14.Plate	59.Retainer ass'y(R)
15.Bolt	60.Slide plate
16.Spring washer	61.Slide plate
17.Pin	62.Shim
18.Spacer	63.Shim
19.Sheave ass'y	64.Bolt
20.Guide	65.Bolt
21.Bolt	66.Bolt
22.Adjuster ass'y	67.Pin
23.Wire rope	68.Pin
24.Nut	69.Slide plate
25.Nut	70.Shim
26.Bolt	71.Shim
27.Spring washer	72.Hex.socket bolt
28.Guide	73.Support ass'y
29.Wire rope	74.Plain bearing
30.Greasing parts ass'y	75.Guide
31.Guide	76.Nut
32.Plain washer	77.Slide plate
33.Nut	78.Shim
34.Bolt	79.Shim
35.Bolt	80.Hex.socket bolt
36.Spring washer	81.Hex.socket bolt
37.Plate	82.Nut
38.Pin	83.Tooth washer
39.Plate	84.Sheave ass'y
40.Slide plate ass'y	85.Pin
41.Slide plate ass'y	86.Retaining ring
42.Slide plate	87.Pin
43.Bolt	88.Bolt
44.Retainer ass'y(R)	89.Cotter pin
45.Retainer ass'y(L)	

ADJUSTMENT AND CHECKS

Tandem piston pump

- 1) Fill the hydraulic oil tank with hydraulic fluid of the proper type for your operating conditions.
- 2) Stop the engine. Remove the drain plug of the tandem piston pump, and fill the pump casing with hydraulic oil. After filling, install the bleeder plug.

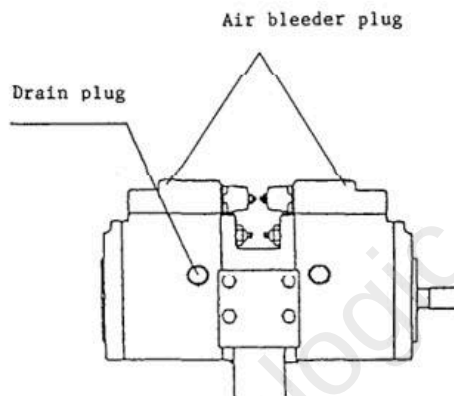


Fig. 2

CAUTION

- ☆ TO AVOID POSSIBLE DAMAGE TO THE HYDRAULIC TANK FROM OVER PRESSURIZATION IT IS RECOMMENDED THAT THE TADANO JIG BE USED.
 - ☆ WHEN THE PRESSURIZING JIG IS NOT USED, BE SURE TO CONTROL THE AIR PRESSURE IN HYDRAULIC OIL TANK TO 0.2 TO 0.3KG/CM² (2.84 TO 4.27PSI). AND NEVER ALLOW IT TO EXCEED 0.3KG/CM² (4.27PSI)
 - ☆ THE PRESSURIZING JIG IS SEALED WITH THE MAXIMUM PRESSURE SET AT 0.3KG/CM² (4.27PSI). TO PREVENT THE HYDRAULIC OIL TANK PRESSURE FROM EXCEEDING 0.3KG/CM² (4.27PSI), HOWEVER, IT IS NECESSARY TO MONITOR THE PRESSURE USING A PRESSURE GAUGE DURING THE AIR BLEEDING.
- 3) Remove the hydraulic filler cap from the top of the oil tank and install the pressurizing jig in place of the filler cap.

Full Version Available

Tadano XL-3 Series Crane Service Manual Set

Tadano _General component service manual, XL-3 repair procedures, adjustments and troubleshooting for the main systems. 3 PDF files. Instant PDF download.

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