GROUP 8 TURNING JOINT

1. REMOVAL AND INSTALL

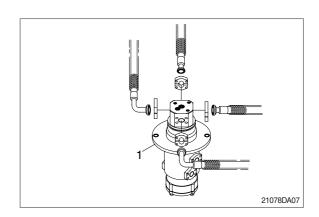
1) REMOVAL

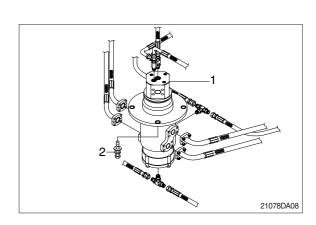
- (1) Lower the work equipment to the ground and stop the engine.
- (2) Operate the control levers and pedals several times to release the remaining pressure in the hydraulic piping.
- (3) Loosen the breather slowly to release the pressure inside the hydraulic tank.
- A Escaping fluid under pressure can penetrate the skin causing serious injury.
- When pipes and hoses are disconnected, the oil inside the piping will flow out, so catch it in oil pan.
- (4) Disconnect all hoses.
- (5) Sling the turning joint assembly (1) and remove the mounting bolt (2).
 - · Weight: 55 kg (120 lb)
 - \cdot Tightening torque : 12.3 \pm 1.3 kgf \cdot m (88.9 \pm 9.4 lbf \cdot ft)
- (6) Remove the turning joint assembly.
- When removing the turning joint, check that all the hoses have been disconnected.

2) INSTALL

- (1) Carry out installation in the reverse order to removal.
- * Take care of turning joint direction.
- * Assemble hoses to their original positions.
- * Confirm the hydraulic oil level and check the hydraulic oil leak or not.

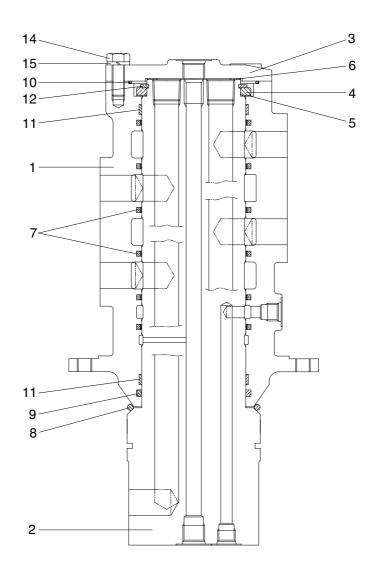






2. DISASSEMBLY AND ASSEMBLY

1) STRUCTURE



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1	Hub
2	Shaft
3	Cover
4	Spacer

GoverSpacerShim

6 Shim7 Slipper seal8 O-ring9 O-ring10 O-ring

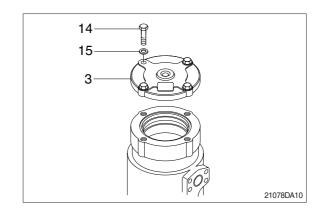
12 Retainer ring13 Plug14 Hexagon bolt15 Spring washer

Wear ring

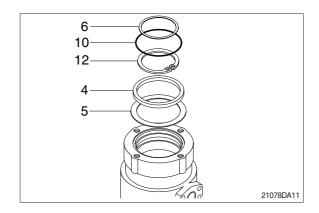
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2) DISASSEMBLY

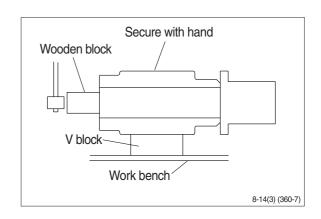
- * Before the disassembly, clean the turning joint.
- (1) Remove bolts (14), washer (15) and cover (3).



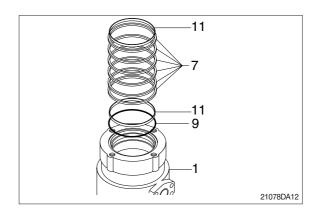
- (2) Remove shim (6) and O-ring (10).
- (3) Remove retainer ring (12), spacer (4) and shim (5).



- (4) Place hub (1) on a V-block and by using a wood buffer at the shaft end, hit out shaft(2) to about 1/2 from the body with a hammer.
- * Take care not to damage the shaft (2) when remove hub (1) or rest it sideway.
- * Put a fitting mark on hub (1) and shaft (2).

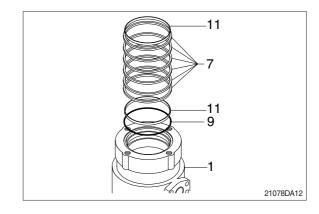


(5) Remove six slipper seals (7) and O-ring (9), two wear ring (11) from hub (1).

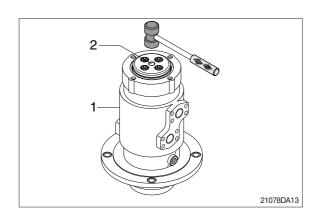


3) ASSEMBLY

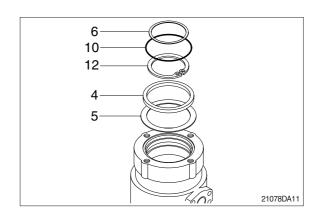
- * Clean all parts.
- * As a general rule, replace oil seals and O-ring.
- * Coat the sliding surfaces of all parts with engine oil or grease before installing.
- (1) Fix seven slipper seal (7) and O-ring (9), two wear ring (11) to hub (1).
- (2) Fit O-ring (8) to shaft (2).



(3) Set shaft (2) on block, tap hub (1) with a plastic hammer to install.



- (4) Fit shim (5), spacer (4) and retainer ring (12) to shaft (2).
- (5) Fit O-ring (10) to hub (1).
- (6) Fit shim (6) to shaft (2).



(7) Install cover (3) to body (1) and tighten bolts (14).

 \cdot Torque : 10~12.5 kgf \cdot m $(72.3{\sim}90.4 \text{ lbf} \cdot \text{ft})$

