#### **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)

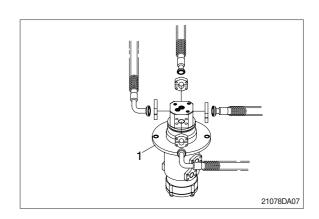
 $\cdot$  Tightening torque : 12.3  $\pm$  1.3 kgf  $\cdot$  m (88.9  $\pm$  9.4 lbf  $\cdot$  ft)

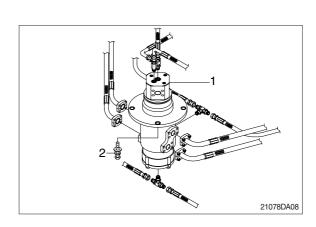
- (6) Remove the turning joint assembly.
- When removing the turning joint, check that all the hoses have been disconnected.

#### 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.

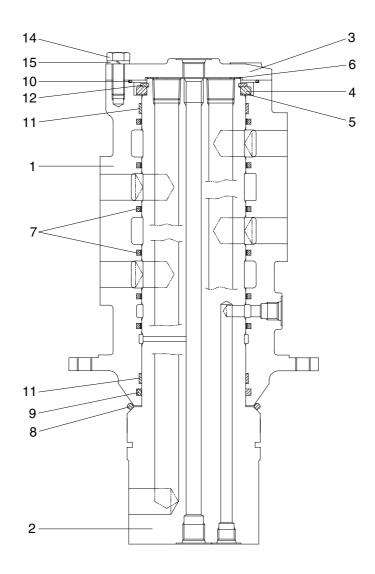






### 2. DISASSEMBLY AND ASSEMBLY

# 1) STRUCTURE



21098TJ01

1	Hub
2	Shaft
3	Cover
4	Spacer
5	Shim

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

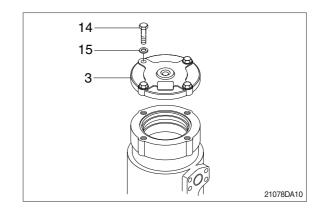
12 Retainer ring13 Plug14 Hexagon bolt15 Spring washer

Wear ring

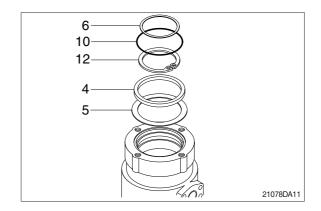
11

### 2) DISASSEMBLY

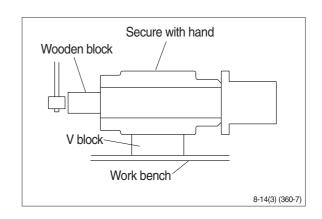
- \* Before the disassembly, clean the turning joint.
- (1) Remove bolts (14), washer (15) and cover (3).



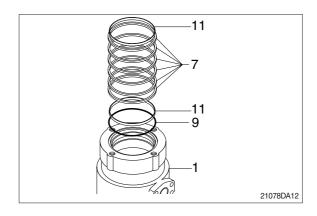
- (2) Remove shim (6) and O-ring (10).
- (3) Remove retainer ring (12), spacer (4) and shim (5).



- (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).

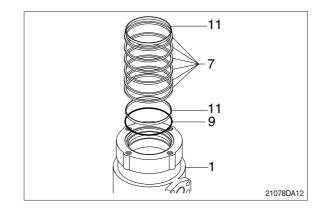


(5) Remove six slipper seals (7) and O-ring (9), two wear ring (11) from hub (1).

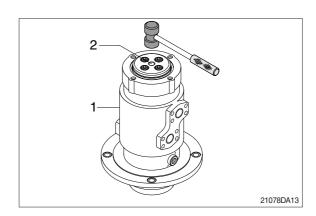


## 3) ASSEMBLY

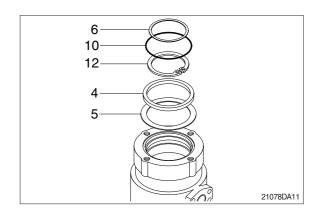
- \* Clean all parts.
- \* As a general rule, replace oil seals and O-ring.
- \* Coat the sliding surfaces of all parts with engine oil or grease before installing.
- (1) Fix seven slipper seal (7) and O-ring (9), two wear ring (11) to hub (1).
- (2) Fit O-ring (8) to shaft (2).



(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 (72.3~90.4 lbf  $\cdot$  ft)

