

## GROUP 8 TURNING JOINT

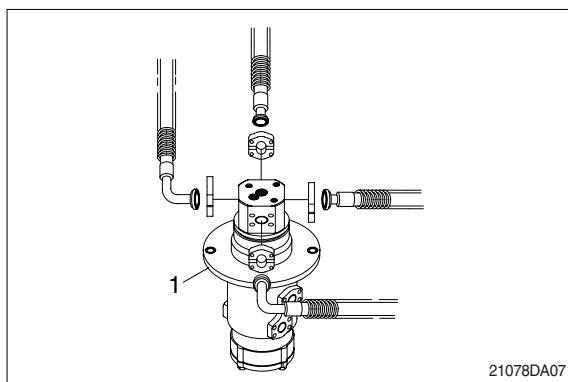
### 1. REMOVAL AND INSTALL

#### 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.  
⚠ 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 : 54kg(119lb)
  - Tightening torque :  $12 \pm 1.3\text{kgf} \cdot \text{m}$   
( $88 \pm 9.4\text{lbf} \cdot \text{ft}$ )
- (6) Remove the turning joint assembly.  
※ When removing the turning joint, check that all the hoses have been disconnected.



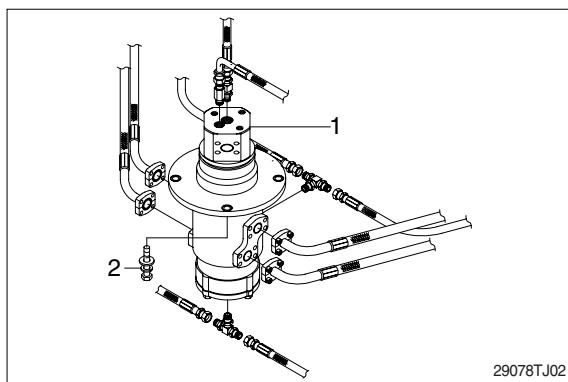
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#### 2) INSTALL

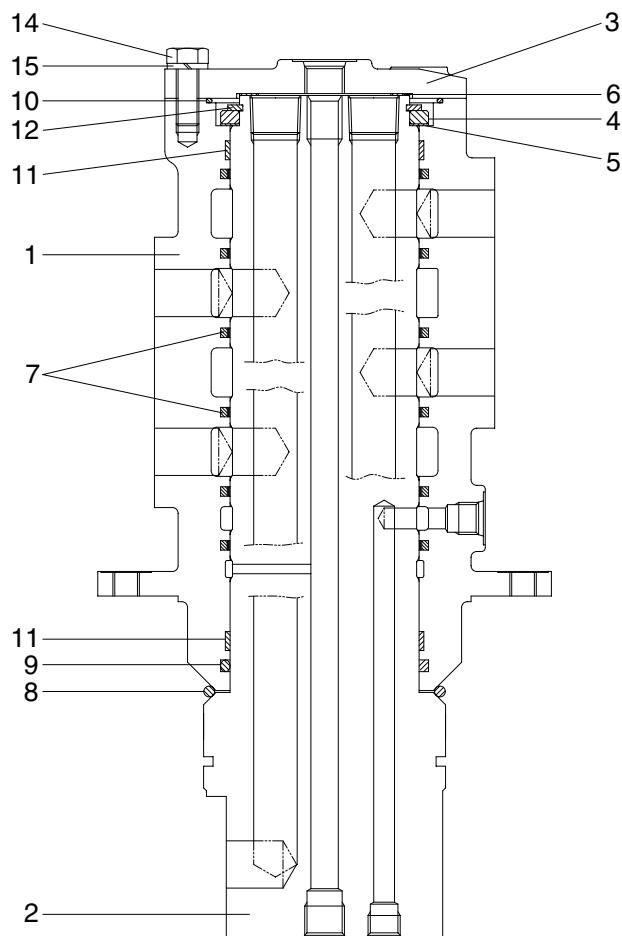
- (1) Carry out installation in the reverse order to removal.  
※ Take care of turning joint direction.  
※ Assemble hoses to their original positions.  
※ Confirm the hydraulic oil level and check the hydraulic oil leak or not.



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## 2. DISASSEMBLY AND ASSEMBLY

### 1) STRUCTURE

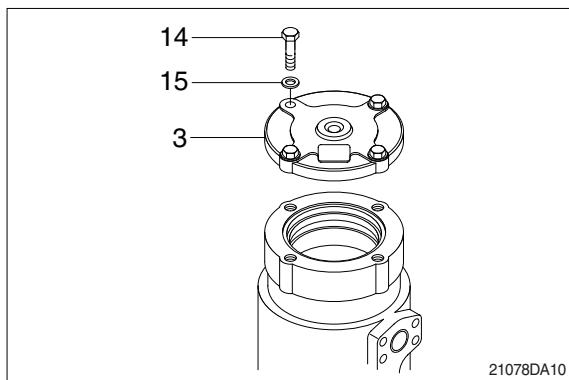


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1	Hub	6	Shim	11	Wear ring
2	Shaft	7	Slipper seal	12	Retainer ring
3	Cover	8	O-ring	13	Plug
4	Spacer	9	O-ring	14	Hexagon bolt
5	Shim	10	O-ring	15	Spring washer

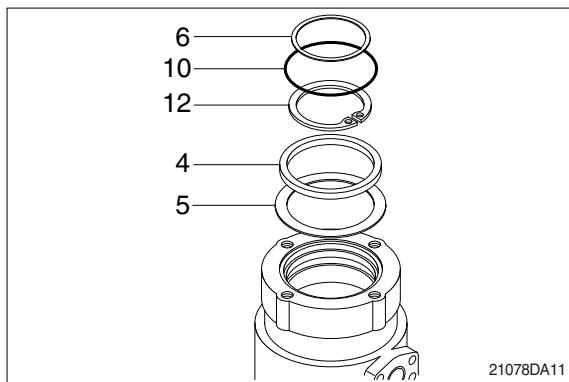
## 2) DISASSEMBLY

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



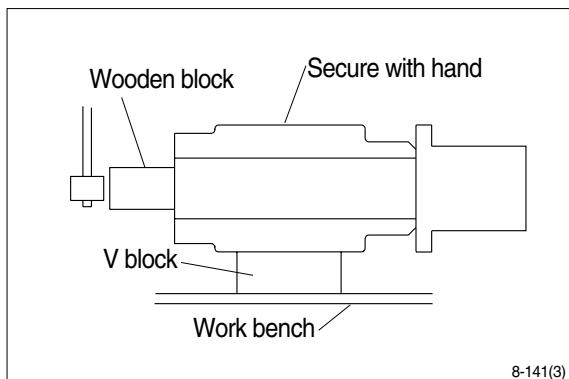
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- (2) Remove shim(6) and O-ring(10).
- (3) Remove retainer ring(12), spacer(4) and shim(5).



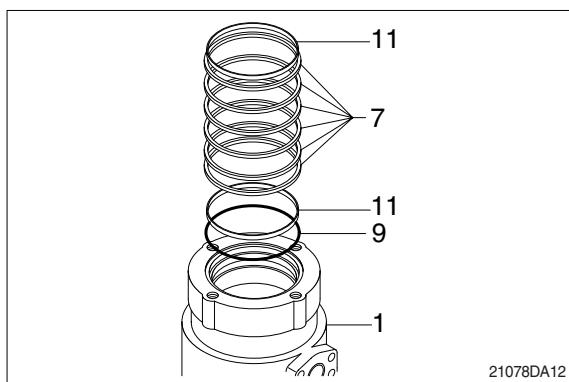
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- (4) Place body(1) on a V-block and by using a wood buffer at the shaft end, hit out shaft(2) to about 1/2 from the body with a hammer.
- ※ Take care not to damage the shaft(2) when remove body(1) or rest it sideway.
- ※ Put a fitting mark on body(1)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



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



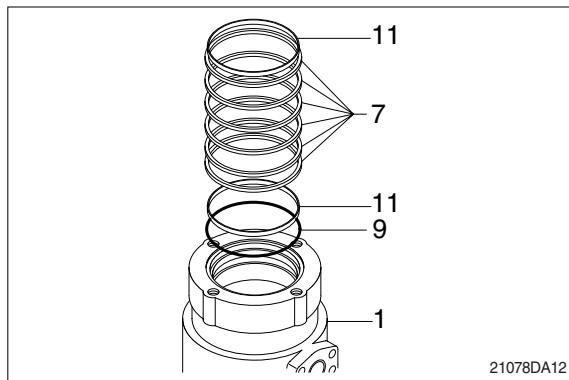
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### 3) ASSEMBLY

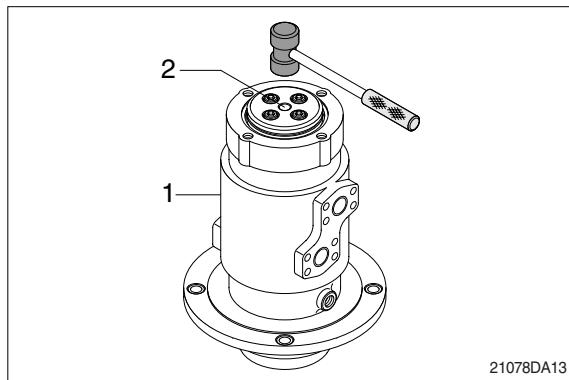
- ※ Clean all parts.
- ※ As a general rule, replace oil seals and O-ring.
- ※ Coat the sliding surfaces of all parts with engine oil or grease before installing.

(1) Fix seven slipper seal(7) and O-ring(9), two ring wear(11) to body(1).

(2) Fit O-ring(8) to shaft(2).



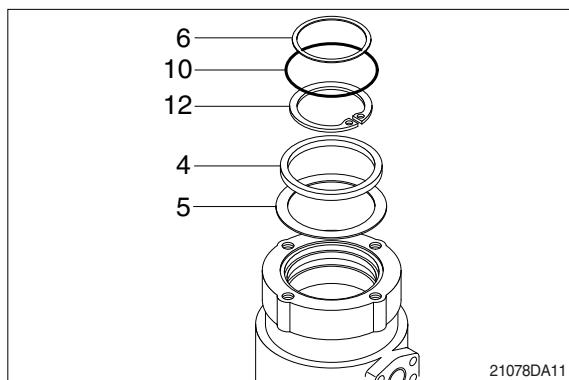
(3) Set shaft(2) on block, tap body(1) with a plastic hammer to install.



(4) Fit shim(5), spacer(4) and retainer ring (12) to shaft(2).

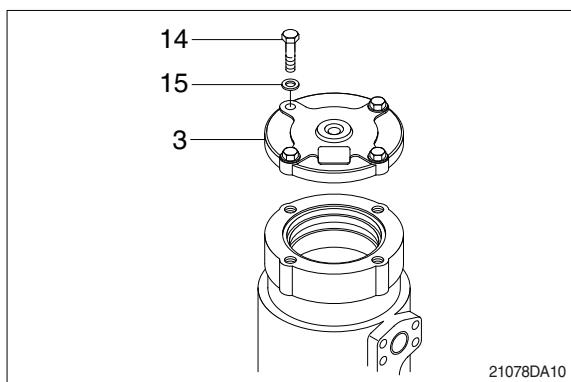
(5) Fit O-ring(10) to body(1).

(6) Fit shim(6) to shaft(2).



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

• Torque : 10~12.5kgf · m(72.3~90.4lbf · ft)



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