GROUP 8 TURNING JOINT

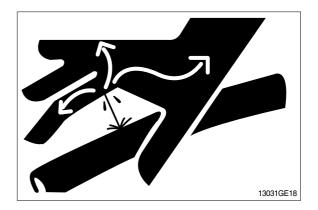
1. REMOVAL AND INSTALL

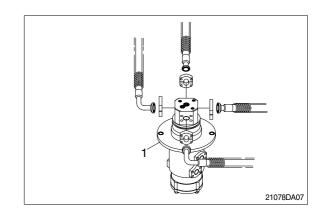
1) REMOVAL

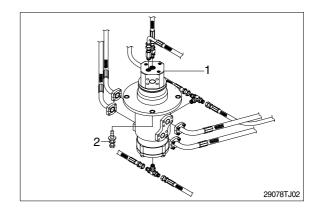
- (1) Lower the work equipment to the ground and stop the engine.
- (2) Operate the control levers and pedals several times to release the remaining pressure in the hydraulic piping.
- (3) Loosen the breather slowly to release the pressure inside the hydraulic tank.
- ▲ Escaping fluid under pressure 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)
 - \cdot Tightening torque : 12± 1.3kgf \cdot m (88± 9.4lbf \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.

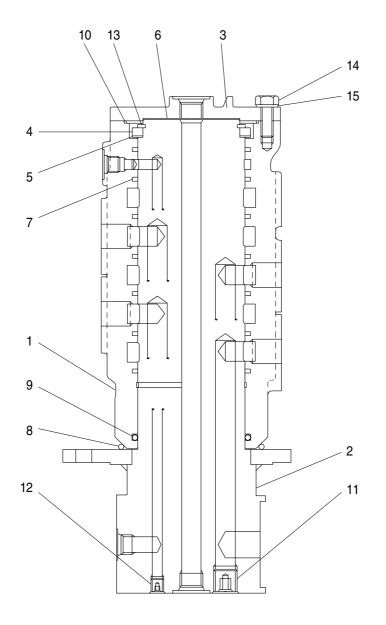






2. DISASSEMBLY AND ASSEMBLY

1) STRUCTURE



(R290-7 TIER II) R210TJT2

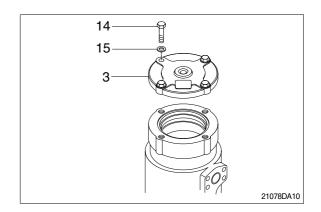
- 1 Hub
- 2 Shaft assembly
- 3 Cover
- 4 Spacer
- 5 Shim

- 6 Shim
- 7 Slipper seal
- 8 O-ring
- 9 O-ring
- 10 O-ring

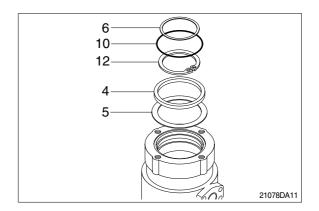
- 11 Wear ring
- 12 Retainer ring
- 13 Plug
- 14 Hexagon bolt
- 15 Spring washer

2) DISASSEMBLY

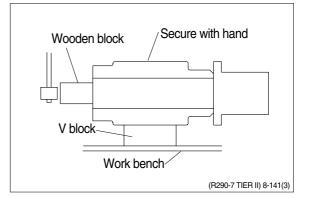
- * Before the disassembly, clean the turning joint.
- Remove bolts(14), washer(15) and cover(3).

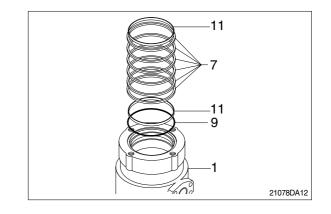


- (2) Remove shim(6) and O-ring(10).
- (3) Remove retainer ring(12), spacer(4) and shim(5).



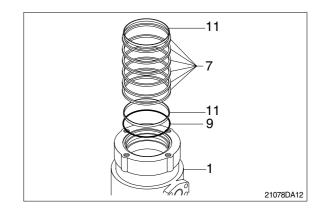
- (4) Place body(1) on a V-block and by using a wood buffer at the shaft end, hit out shaft(2) to about 1/2 from the body with a hammer.
- * Take care not to damage the shaft(2) when remove body(1) or rest it sideway.
- * Put a fitting mark on body(1) and shaft(2).
- (5) Remove six slipper seals(7) and O-ring(9), two ring wear(11) from body(1).



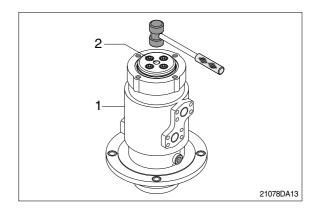


3) ASSEMBLY

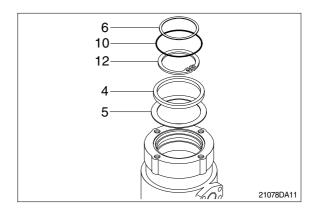
- * Clean all parts.
- * As a general rule, replace oil seals and Oring.
- * Coat the sliding surfaces of all parts with engine oil or grease before installing.
- (1) Fix seven slipper seal(7) and O-ring(9), two ring wear(11) to body(1).
- (2) Fit O-ring(8) to shaft(2).



(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).

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

