2. Use a hexagonal wrench to remove the wrench bolts (24, 25) and disassemble the rear cover (23) assembly from the body (1).

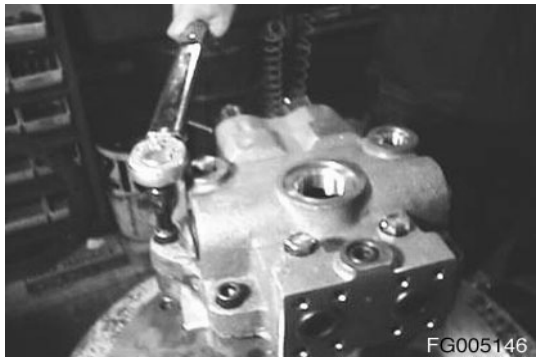


Figure 12

3. Disassemble the spring (19) to remove the break piston (17) and disassemble it from the body (1) using a jig.

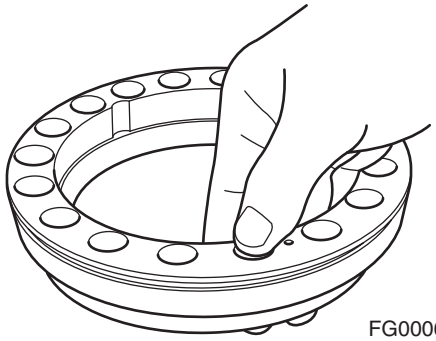


Figure 13

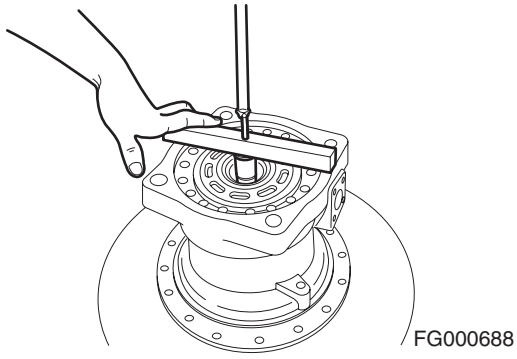


Figure 14

4. Remove cylinder block assembly, friction plate (15), and plate (16) from body (1).

   NOTE: *Pay attention to order of plates and friction plates.*

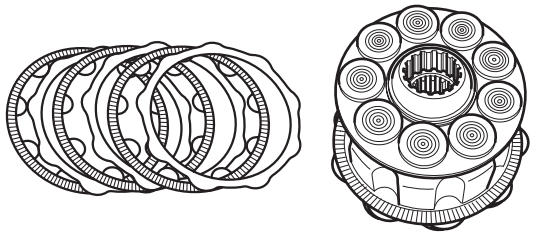


Figure 15

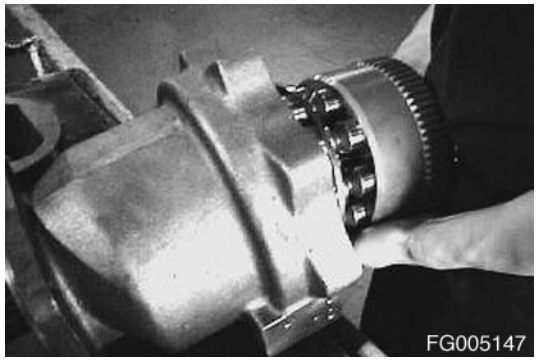


Figure 16

5. Remove shoe plate (8) from body (1).

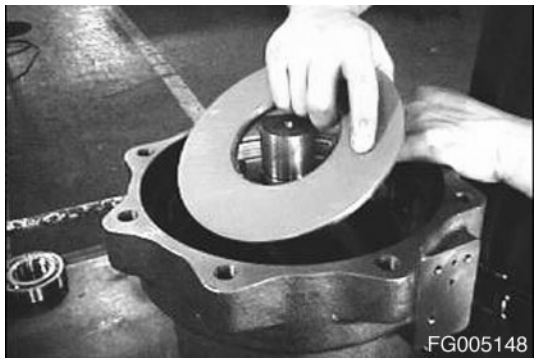


Figure 17

6. Remove snap ring (4) from body (1) using snap ring pliers jig.
7. Turn body over, and separate shaft (5) assembly using steel bar.

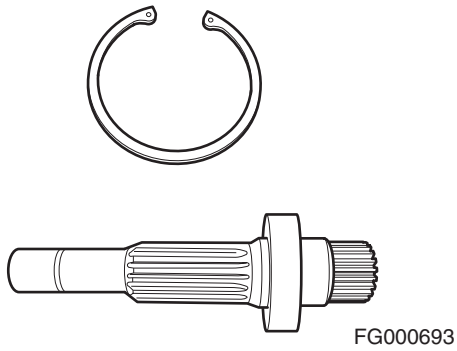
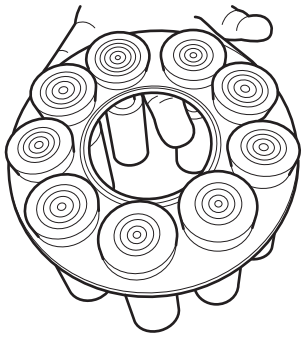


Figure 18

Figure 19

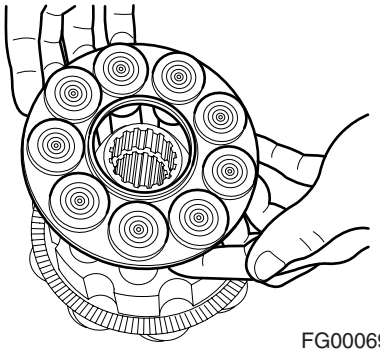
Disassembly of the cylinder block subassembly

8. Separate piston assembly (14) and the set plate (13) from cylinder block assembly.



FG000696

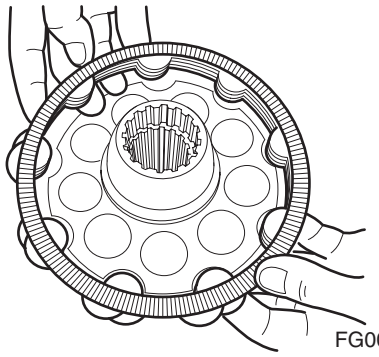
Figure 20



FG000697

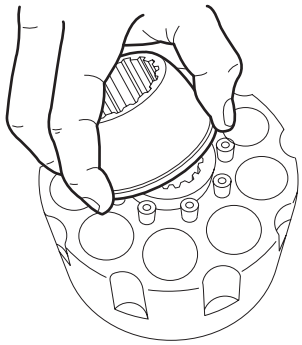
Figure 21

9. Remove friction plate (15), plate (16), ball guide (12), ball guide seat (11) and spring (10) from cylinder block (9).



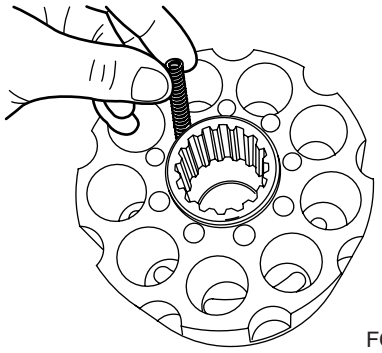
FG000698

Figure 22



FG000699

Figure 23

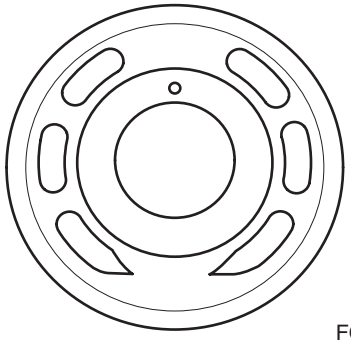


FG000700

Figure 24

Disassembly of the rear cover subassembly

10. Separate valve plate (20) from rear cover (23).



FG000701

Figure 25

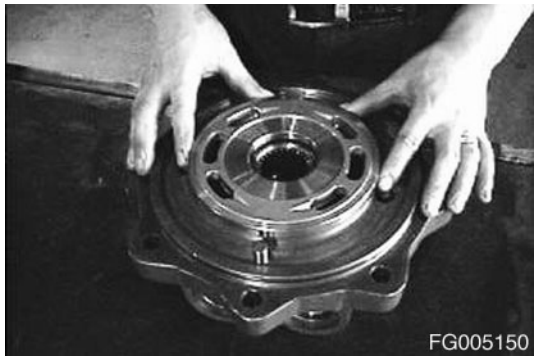
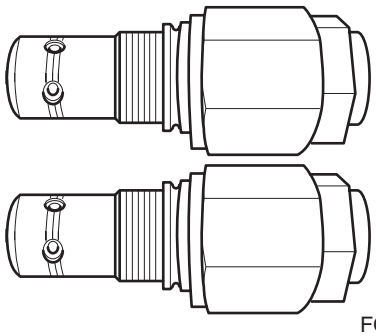


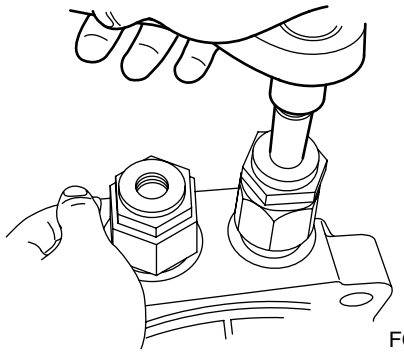
Figure 26

11. Remove two relief valve assemblies (30) from rear cover (23) with torque wrench.



FG000706

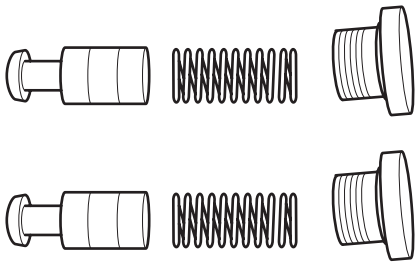
Figure 27



FG000707

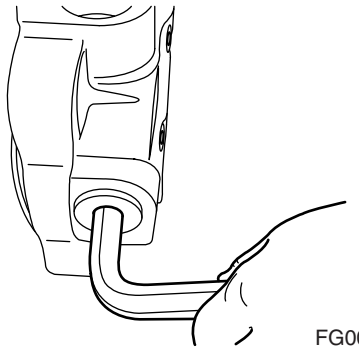
Figure 28

12. Remove check valve assemblies from rear cover (23) with L wrench, and disassemble it in order of plug (28), spring (27), and poppet (26).



FG000708

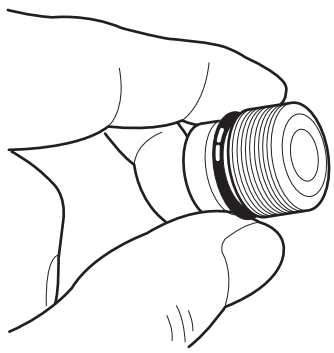
Figure 29



FG000709

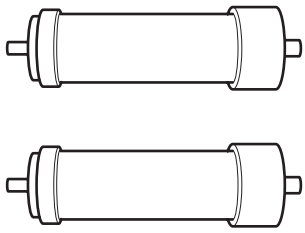
Figure 30

13. Remove plug (35) from rear cover (23) with L wrench and disassemble it in order of backup ring (37), O-ring (36), O-ring (38) and anti-inversion valve assembly (34).



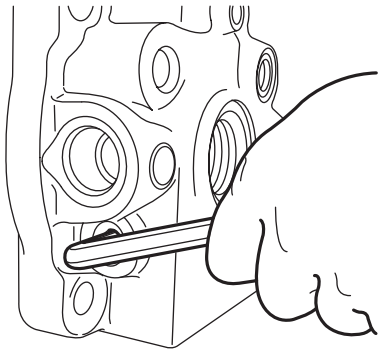
FG000710

Figure 31



FG000711

Figure 32



FG000712

Figure 33

CLEANING AND INSPECTION (WEAR LIMITS AND TOLERANCES)

For general cleaning and inspection procedures, refer to "General Maintenance Procedures" section.

REASSEMBLY

General Cautions

1. Wash and clean each part. Then dry them with compressed air. The friction plate, however, should not be washed with treated oil.
2. Each connecting parts should be tightened according to its assigned torque.
3. Only use a plastic soft-faced hammer.

Reassembly of drive shaft subassembly

1. Put roll bearing (3) on a heater and apply heat to their inner race (inlet temperature: 290°C for 2 minutes).

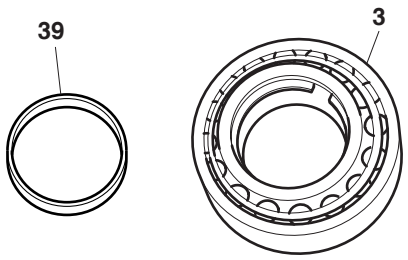


Figure 34

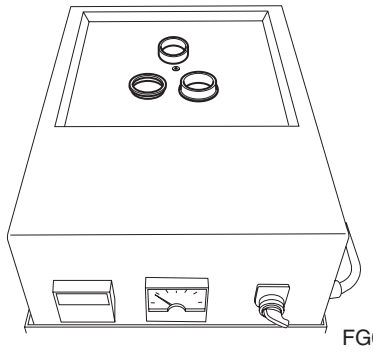
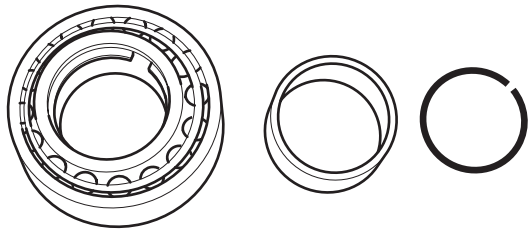


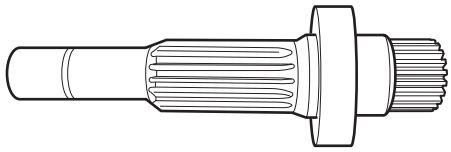
Figure 35

2. Assemble heated roll bearing (3) into the shaft (5). Use a pliers jig to assemble install stop ring (7).



FG000716

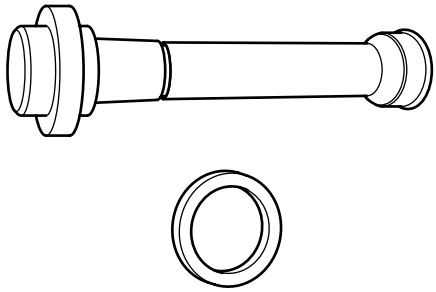
Figure 36



FG000717

Figure 37

3. Assemble oil seal (2) in body (1) using bar hammer.

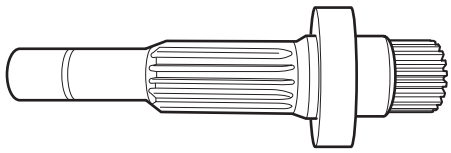


FG000719

Figure 38

Figure 39

4. Install shaft in body (1) using bar hammer.

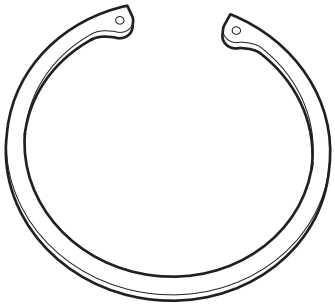


FG000717

Figure 40

Figure 41

5. Secure shaft with snap ring (4) using snap ring pliers.

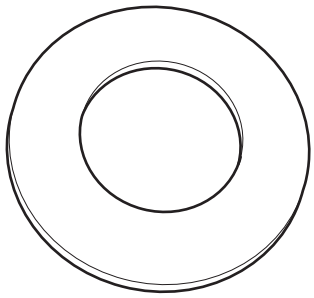


FG000722

Figure 42

Figure 43

6. Coat shoe plate (8) with grease, and assemble it into body.



FG000724

Figure 44

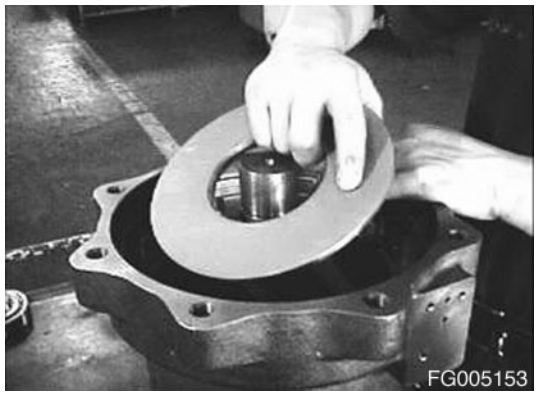
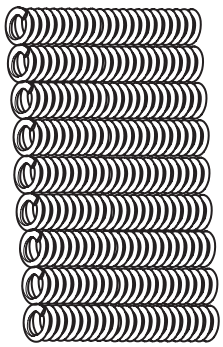


Figure 45

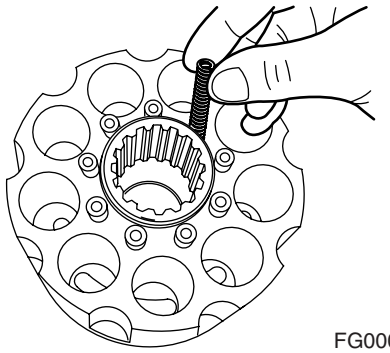
Assembly of Cylinder Block Assembly Subassembly

7. Insert nine sets of springs (10) in cylinder block (9).



FG000726

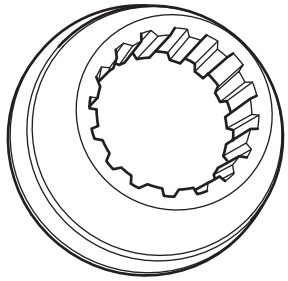
Figure 46



FG000727

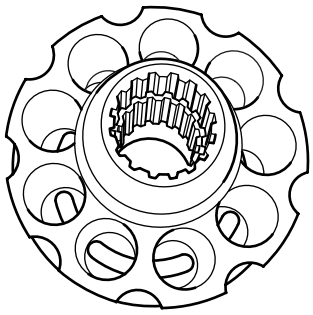
Figure 47

8. Insert ball guide seat (11) and ball guide (12) in cylinder block (9).



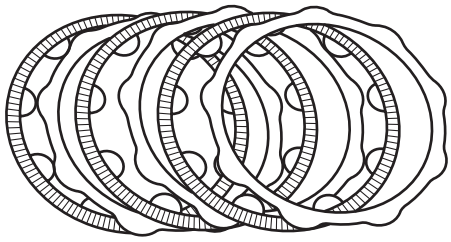
FG000728

Figure 48



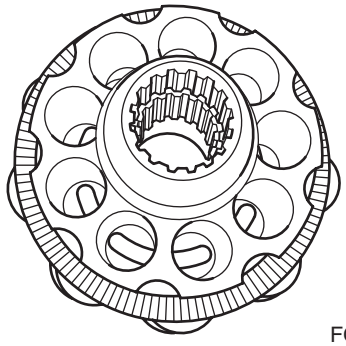
FG000729

Figure 49



FG000759

Figure 50



FG000730

Figure 51