

4) Separate distance piece (10) from spindle (2).

- ⚠ ● Remove distance piece (10) only where floating seal (31) must be replaced.
- Tools to be used :
 - Flat-bladed screwdriver

5) Take off O ring (37) from spindle (2).

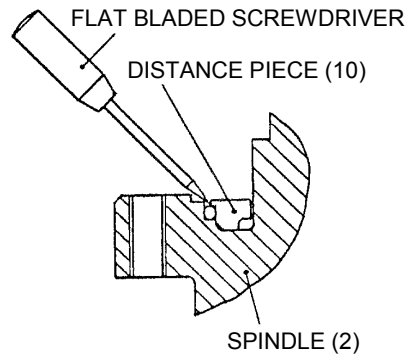


Fig. 32 Removing distance piece

(5) Disassembling the inside of hub (1)

1) Removing floating seal (31).
Separate floating seal (31) from hub (1).



Fig. 33 Removing floating seal

2) Separate ball bearing (24) from hub (1) as shown on the right.

On that occasion, seal ring (23) comes off together.

- ⚠ ● Since ball bearing (24) is shrinkage fitted to hub (1), do not separate ball bearing (24) from hub (1), in principle.
- Do not reuse ball bearing (24) once removed.

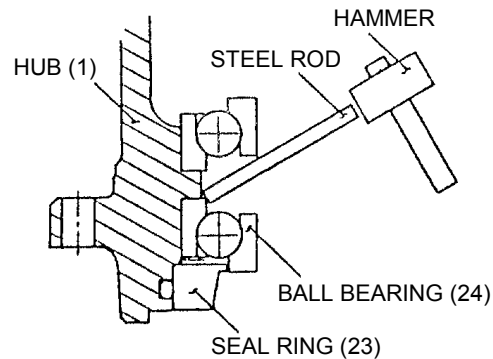


Fig. 34 Removing ball bearing and seal ring

3) Then, place hub (1) on the bench so the spindle side faces up.

4) Separate another ball bearing (24) from hub (1), as shown on the right.

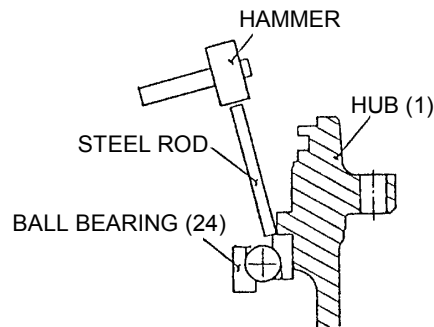


Fig. 35 Removing ball bearing

5) Take off O ring (40) from hub (1).

(6) Disassembling coupling gear (8)

- 1) Separate ring (15) from ring gear (B) (5).

- Do not reuse ring (15) once removed.
- Tools to be used :
 - Sharp-point steel rod

- 2) Separate coupling gear (8) from ring gear (B) (5).

- Do not disassemble coupling gear (8) and ring gear (B) (5) only where they must be replaced.

(7) Disassembling carrier assembly

Do not disassemble the carrier assembly any more.

In case it needs replacement because of damage to some component part, replace the carrier assembly as a whole.

- Construction of carrier assembly
 - Carrier (3)
 - Cluster gear (6)
 - Shaft (9)
 - Thrust collar (14)
 - Needle roller bearing (25)
 - Parallel pin (34)

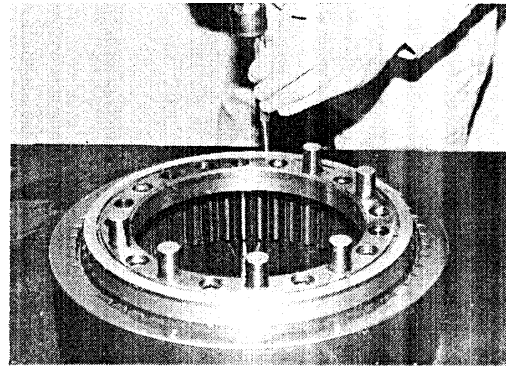


Fig. 36 Removing ring (15)

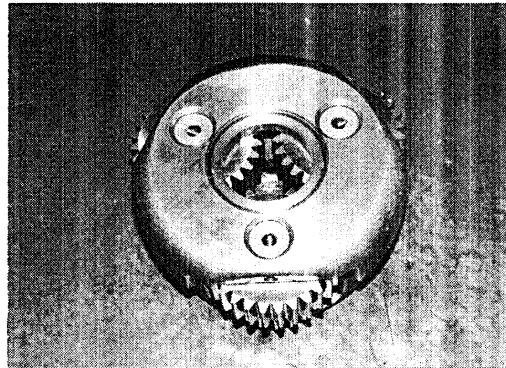


Fig. 37 Carrier assembly

1A.4 ASSEMBLY

1A.4.1 GENERAL PRECAUTIONS TO BE EXERCISED

- 1) For assembly, choose a clean place.
- 2) Do not use cloth gloves for assembly.
- 3) At disassembly, correct scored parts referring to the service standards or replace parts. Always replace oil seals with new ones.
- 4) Clean parts thoroughly with cleaning oil and dry them with jet air. Do not use rag in any circumstances.
- 5) Always coat the moving and sliding parts of the hydraulic motor valve with clean hydraulic oil, before assembly.
- 6) Tighten up capscrews and plugs, using a torque wrench.

1A.4.2 ASSEMBLING BRAKE VALVE


(1) Installing check valve

- 1) Fit O ring (156) to plug (126).

⚠ • Coat O ring (156) with grease.

- 2) Put spring (130) and valve (127) into plug (126), apply grease to valve (127) and spring (130) and temporarily secure spring (130).

- 3) Put one-piece plug (126) in rear flange (101) and tighten it to a specified torque.

 : 10mm

- Tightening torque : 13.5 ± 2 kgf·m
(97.6 ± 14.5 lbf·ft)

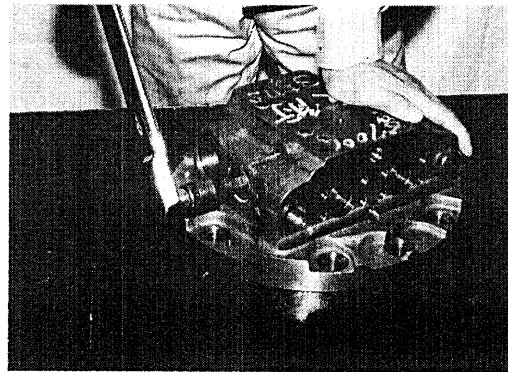


Fig. 38 Installing check valve