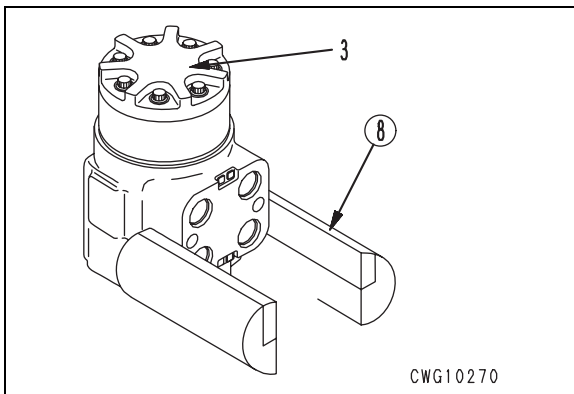


DISASSEMBLY OF STEERING VALVE

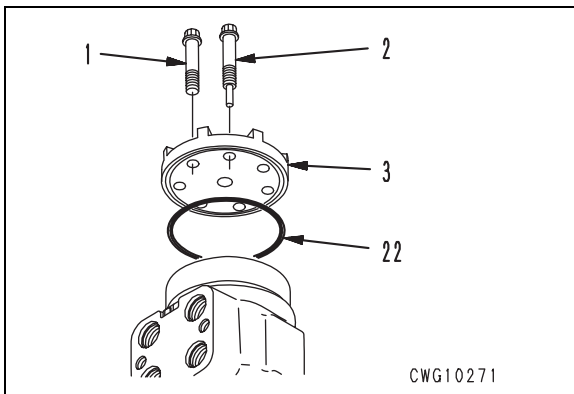
- ★ When disassembling the valve, cleanliness is extremely important. Carry out the work in a clean place.
- ★ Before removing the piping, remove all dirt and dust from around the ports and joints on the outside circumference of the motor.
- ★ In the following explanation diagrams, it is not absolutely necessary to hold the unit in a vice, but it is recommended to use a vice as far as possible.

⚠ Be extremely careful not to injure yourself on the edges of sleeves, spools, housing, and other machined parts.

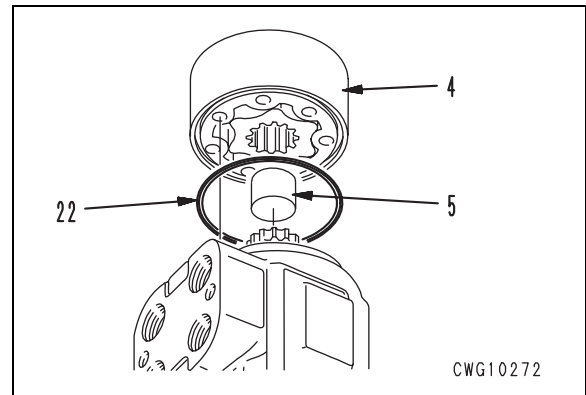
1. Put end cap (3) at the top, fit side face of housing between copper sheets in vice [8], and be careful not to tighten vice too strongly.



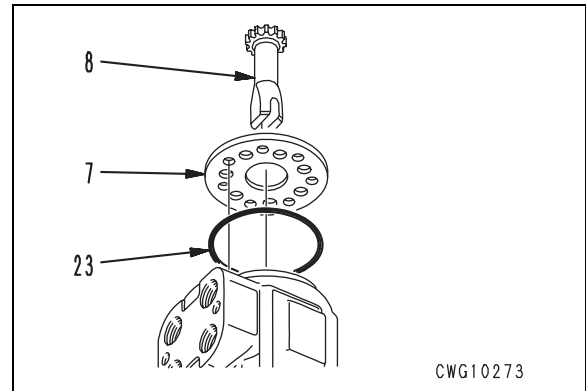
2. Remove 6 screws (1) and 1 retainer screw (2), then remove end cap (3). Remove O-ring (22) from end cap (3).



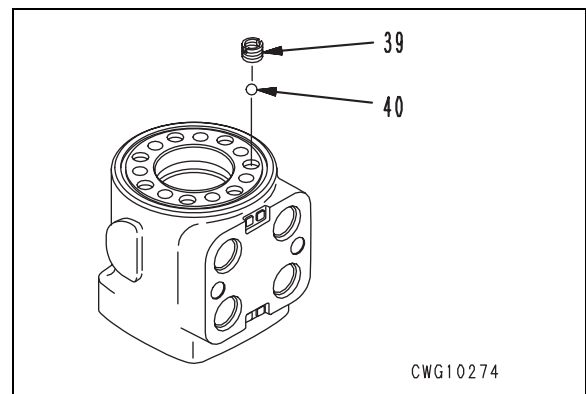
3. Remove spacer (5) inside spline on inside of star of Gerotor (4). Remove Gerotor (4). Be careful not to drop star from ring of outer circumference of Gerotor. Remove O-ring (22) from Gerotor.



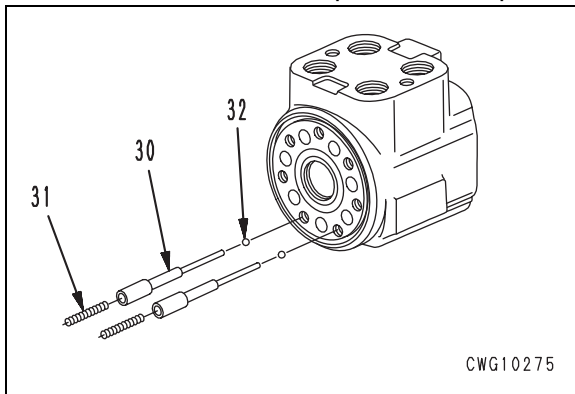
4. Remove drive (8), then remove spacer plate (7). Remove O-ring (23) from housing.



5. Using flat-headed screwdriver, remove adapter screw (39). Remove housing from vice, set upside down, then remove ball (40).
★ Be careful not to drop or lose the ball.

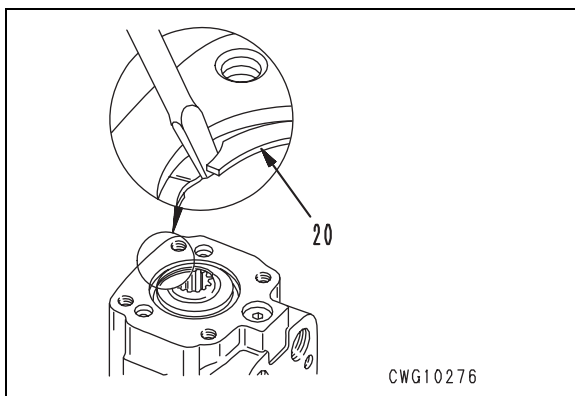


6. Set housing upside down, remove 2 springs (31), 2 retainer plugs (30), and 2 balls (32).
★ Be careful not to drop or lose the parts.

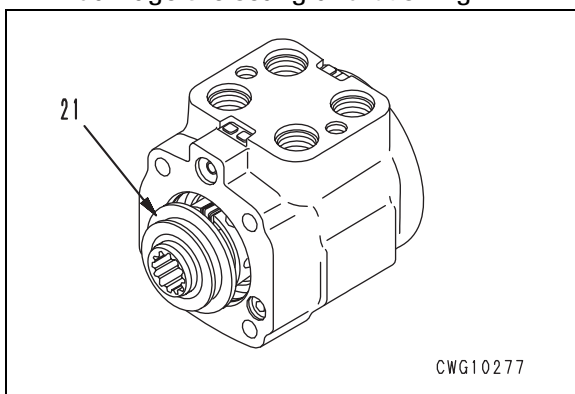


7. Set on clean cloth with flange surface of housing facing up to prevent damage to finished surface. Use flat-headed screwdriver to raise tip of retaining ring (20), then remove from housing.

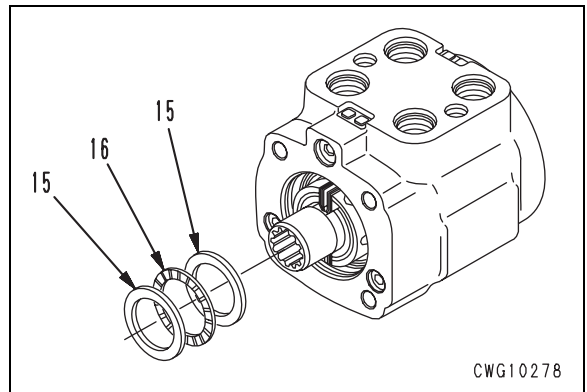
⚠ The retaining ring may fly out from the housing, so always wear protective glasses.



8. Set housing on clean cloth with axial line of valve horizontal. Turn spool and sleeve assembly to set sleeve pin in horizontal position, then push out spool and sleeve assembly slightly, and remove seal gland bushing (21) from housing. Remove oil seal and dust seal from gland bushing.
★ When removing the seal, be careful not to damage the seal gland bushing.



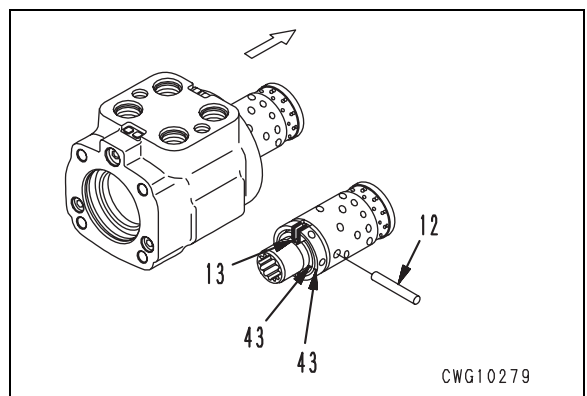
9. Remove 2 race bearings (15) and thrust needle (16).



10. Push spline portion inside spool with thumb and remove spool and sleeve assembly from opposite side of housing flange. When doing this, be careful not to let outside diameter of sleeve get caught in inside diameter of housing.

★ Depending on the assembly of sleeve and spool, it may not work properly if it is assembled 180° from the proper direction, so make marks to show the position of spool and sleeve (43). Remove pin (12).

⚠ The retaining ring may fly out from the housing, so always wear protective glasses.



11. Push out spool inside sleeve slightly, and remove centering spring (13) carefully by hand from spool.

