



KEY TO FIGURE 21

- 1 Bracket shaft
- 2 Filler-head screw
- 3 Sunshade assembly
- 4 Bubble chamber assembly
- 5 Upper reflector stop
- 6 Reflector
- 7 Lower reflector stop
- 8 Glass chamber housing assembly
- 9 Eyeguard assembly
- 10 Dowel pin
- 11 Objective lens assembly
- 12 Auxiliary spacer
- 13 Spherical nut
- 14 Housing cover
- 15 Lock ring
- 16 Adapter nut
- 17 Lock washer
- 18 Black aluminum washer
- 19 Steel washer
- 20 Steel washers
- 21 Filter mounting stud
- 22 Filter (dark)
- 23 Filter stop stud
- 24 Filter (light)
- 25 Retainer nut
- 26 "S" pin
- 27 Washer
- 28 Spring washer
- 29 Sunshade bracket

mounting screws (10). After this has been done, drive the taper pin (4) in tight. Add the plug screw (17).

4. SECTOR ASSEMBLY. (See figure 17.)

(1) Before installing the sector assembly remove the outboard plate (9) for convenience.

(2) Check the tips of the sector spring for burrs and remove by filing. Test the depth of the holes into which the spring is to seat, by inserting the spring individually, and make sure the spring ends are exactly at right angles to the coils to insure proper seating.

(3) Obtain a piece of thin string, approximately twelve inches long which will be used to hold the tensioned sector spring in position in the assembly procedure. Fold the string in half and thread the loop through the binding head screw hole directly next to the spring seating hole in the frame.

(4) Insert the long end of the sector spring into the seating hole in the frame.

(5) Wind the spring one complete revolution and hold it in the wound position by encircling the free end with the loop of the string and holding the string taut.

(6) Check to make sure that the coils of the sector spring are parallel and that the top coil does not protrude over the face of the bushing, which would prevent the tapered shaft from seating completely.

(7) Insert the sector assembly carefully, positioning it to receive the free end of the sector spring into the hole in the sector.

Figure 21—Glass Chamber Housing and Related Assemblies

Length of 5/32-inch diameter brass rod, gently tap the taper pin (4) in as far as possible.

CAUTION

Do not drive tight at this point or the dial shaft (20) will bend because it is being supported on only one side. Position the outboard plate (9) on the frame assembly by means of the dowel pins and make certain that the two bearings in it will fit snugly around their respective shafts. Secure with the three