1. Scope

This instruction sheet presents the procedure for lamp replacement. Protect your eyes by wearing safety glasses approved by American National Standards Institute.

2. Brass Shell & Ring

1) Disconnect power source.

2) Remove ring and lamp assembly. Loosen screw A (Fig. 1), and disconnect wires E and F from lamp C. The wires for glass sealed-beam lamps are shown in Fig. 1, and wire F is riveted to shell G. Wires for composite lamps is shown in Fig. 4, and wire F is attached to shell G through nut H and washer I.

3) Remove lamp C from ring B. To release four springs D, hold ring and lamp assembly in place with your thumb over the spring to be released, and use a pair of long-nose pliers to firmly grab and hold one spring end to disengage it from the lip of ring B (Warning: spring becomes air-borne if not held firmly).

4) Place and orient new lamp C into ring B (composite lamp shown in Fig. 2) with ring tab N at 12 o’clock position, lamp locator K at 9 o’clock position.

5) Install the four new springs D at positions P1, P2, P3, and P4 sequentially as shown. Holding ring and lamp in place with your thumb over the spring to be installed, slide one end of the spring underneath the ring lip, and use a pair of long-nose pliers to firmly grab and hold the other spring end to force it to engage with the ring lip (Warning: spring becomes air-borne if not held firmly). Spring D for glass sealed-beam lamps is shown in Fig. 1 and Spring D for composite lamps is shown in Fig. 2. Make sure correct springs are used.

6) If you are replacing glass sealed-beam lamps with composite lamps, you need to loosen and remove nut H and lock washer I to install wire F (Fig. 4), and then tighten nut H (a torque of 90±5 inch-pounds is recommended).

7) Connect wires E and F to lamp C.

8) Install ring B back to shell G, and tighten screw A.
3. Plastic Shell & Ring

1) Disconnect power source.

2) Remove ring B. For Style I (Fig. 3), loosen three screws A. For Style II (Fig. 4), loosen one screw A and rotate ring B counterclockwise to disengage it from shell G.

3) Disconnect wires E and F from old lamp C, and connect them to new lamp C. The wires for glass sealed-beam lamps are shown in Fig. 3, and wires for composite lamps are shown in Fig. 4.

4) Seat new lamp C into shell G and orient lamp C properly by aligning lamp locator K with shell locator L. (Warning: Do not use lamp exceeding 100 watts in plastic shell & ring.)

5) Orientate ring B and place it on shell G. For Style I (Fig. 3), push ring toward shell and install 3 screws. For Style II (Fig. 4), rotate ring clockwise to engage with shell while pushing lamp and ring toward shell. Secure ring B with one screw A.

6) Please note that the gaskets for sealed-beam lamps are different from the ones for composite lamps. For sealed-beam lamps, the three gaskets R (one shown in Fig. 5) are curved & are as long as the gasket pockets in the shell. For composite lamps, the three gaskets Q are square (Fig. 5). Make sure that they are installed as shown for shells/rings-Style II. Otherwise, they may not seat square inside shell after ring is rotated clockwise to engaged with shell.