

GR16 Series 12V Instruction Sheet

Important

File this instruction sheet for future reference – DO NOT DISCARD.

Warning

This product must be installed in accordance with National Electrical Codes and all other local codes by a person familiar with the construction and operation of the product and the hazards involved.

- To prevent electrical shock, turn off the power during installation or maintenance.
- To reduce risk of fire, keep away from combustible materials.

Product Overview

The GR16 Series 12V spotlight offers a sleek, minimal design, a tool-less lamp retaining ring for easy lamp changing, a protective Pyrex lamp shield, and Allen key locking for horizontal and vertical aiming. The GR16 can be configured for use on 120V or 277V systems. It accepts MR16 lamps up to 50 watts.

This package does not include a lamp. There is a specific lamp for this fixture. Please consult our *Product Catalog* or web site for available lamp models, based on wattage and beam spread.

We recommend that you first install the lamp before putting the fixture on a track or canopy. Refer to the “Changing or Installing the Lamp” section of this sheet for lamp installation instructions.



Sample Replacement Lamp

GR16 Series 12V Spotlight



Purpose of This Sheet

The purpose of this sheet is to provide step-by-step instructions to help you:

- Change the lamp (re-lamp)
- Install the lamp for the first time
- Install the fixture with the -00 fitting on a track
- Install the fixture with a canopy
- Aim the fixture

Changing or Installing the Lamp

Before Re-lamping: To maintain the fixture's current orientation, re-lamp the fixture on the track or canopy. If the orientation does change, refer to "Aiming the Fixture" section of this sheet. For lamp model suggestions, refer to our *Product Catalog* or web site.

Follow steps 3, 5, and 6 if you are installing the lamp for the first time.

STEP	ACTION
1	Turn off all power to the fixture (canopy), including the fixture switch (track), and let the lamp cool. WARNING: Lamp may be hot
2	Remove the socket end cap by pulling it straight off the lamp (Fig. 1). WARNING: Do not twist off the socket end cap.
3	Remove the lamp-retaining ring from the back of the lamp housing by turning it counter clockwise (Fig. 2 and Fig. 3).
4	Remove the old lamp. <i>Note:</i> Consult the lamp manufacturer's recommendation for disposing of the old lamp.
5	Insert the new lamp. <i>Note:</i> Lamp pins must be in a horizontal position.
6	Attach the lamp-retaining ring (Fig. 3), and turn it clockwise to tighten – just until it is fingertip tight. <i>Note:</i> Do not over tighten.
7	Attach the socket end cap to the back of the lamp until it snaps into place and is fully seated (Fig. 1). WARNING: Make sure you properly align the lamp pins and socket holes. Misalignment could damage the ceramic-based socket.
8	Turn on the main power (canopy) and then flip on the fixture switch (track). WARNING: Do not look directly at the lit lamp.

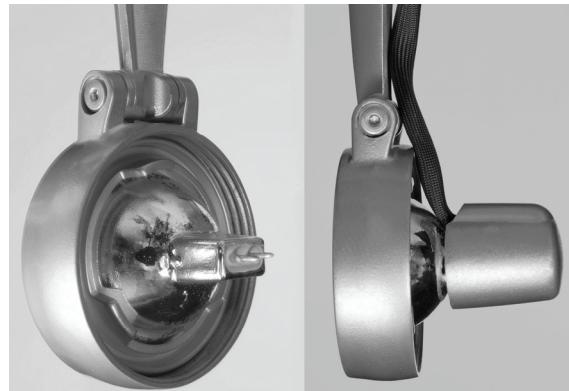


Figure 1. Back of lamp with socket end cap removed (L), and with end cap fully seated (R)

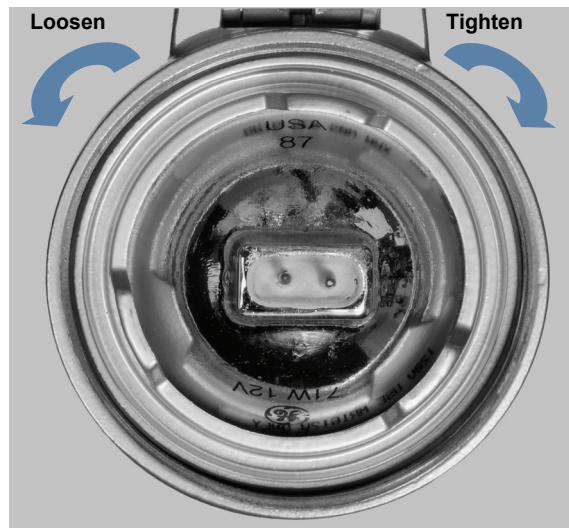


Figure 2. Back of lamp showing which direction to turn the lamp-retaining ring to loosen it (counter clockwise) or tighten it (clockwise)



Figure 3. Lamp-retaining ring without lamp

**Installing
the
Fixture
with the
-00 Fitting
on a
Track**

Before Installing: The track must already be installed according to code requirements.

STEP	ACTION
1	Flip off the switch and open the fitting handle (Fig. 4).
2	Are you using a one-circuit or two-circuit track? <ul style="list-style-type: none"> ▪ If a <i>one-circuit</i> track, make sure the brass contacts that protrude from the side of the fitting face the copper busbars inside the track. ▪ If a <i>two-circuit</i>-track, inserting the fitting in one direction connects to circuit one. Removing and reversing the direction of the fitting connects to circuit two.
3	Insert the fitting straight up into the track until fully seated (Fig. 5).
4	Close the handle and flip on the switch (Fig. 6). WARNING: Do not look directly at the lit lamp.
5	To remove the fitting, hold the fixture in place, flip the switch off, open the handle, and pull the fitting straight off the track.



Figure 4. Switch OFF, fitting handle open, and track



Figure 5. Inserted fitting



Figure 6. Switch ON, fitting handle closed

**Installing
the
Fixture
with a
Canopy**

Before Installing: Consult the code requirements for fixture mounting, and check the *distance-from-wall* label inside the fixture. Mount the fixture to a ceiling constructed of non-combustible material and away from any flammable materials.

STEP	ACTION
1	Turn off all power to the fixture mount.
2	Unscrew the 2 canopy mounting screws supplied, and remove the crossbar from the canopy.
3	Attach the crossbar to a ceiling junction box with 2 screws. <i>Note:</i> The screws for this step are not included in the canopy package.
4	Fasten the power wires from the junction box to the fixture wires.
5	Attach the canopy to the ceiling with the 2 canopy mounting screws supplied (Fig. 7).

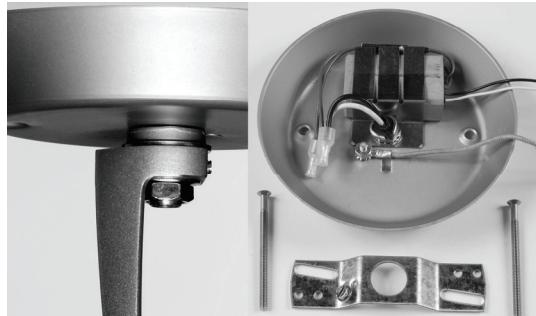


Figure 7. Canopy (L). Ground and power wires (top R). Canopy mounting screws and crossbar (bottom R).

Aiming the Fixture

Before Aiming: Be aware that this is an Allen key locking fixture. Use the supplied Allen key (3/32") to set and lock the horizontal and vertical focus (**Fig. 8**).

STEP	ACTION
1	<p>Flip off the switch and let the lamp cool.</p> <p>WARNING: Lamp and fixture may be hot. Do not aim the fixture while the lamp is on.</p>
2	<p>Do you want to aim the fixture horizontally or vertically?</p> <ul style="list-style-type: none"> ▪ <i>For horizontal aiming</i>, turn the horizontal focus lock left and right until you achieve your desired orientation, then insert the Allen key into the horizontal focus lock, and turn it clockwise to tighten (Fig. 9). <p><i>Note:</i> The horizontal focus has 360° range of motion.</p> <ul style="list-style-type: none"> ▪ <i>For vertical aiming</i>, hold the lamp housing and angle it upward until you achieve your desired orientation, then insert the Allen key into the vertical focus lock, and turn it clockwise to tighten (Fig. 10). <p><i>Note:</i> The vertical focus has a 0° to 90° range of motion.</p>
3	<p>Flip on the fixture switch.</p> <p>WARNING: Do not look directly at the lit lamp.</p>



Figure 8. Horizontal focus lock (top L) and vertical focus lock (bottom L). Allen key (R)

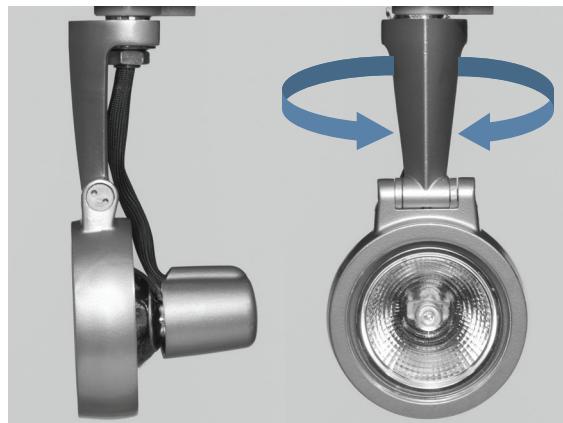


Figure 9. Turn fixture left or right to set the horizontal focus

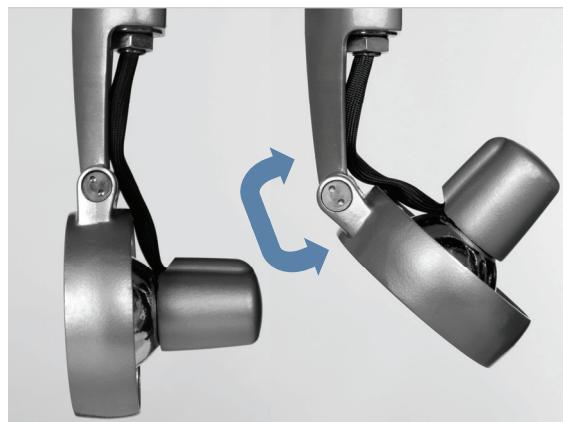


Figure 10. Angle fixture up or down to set the vertical focus