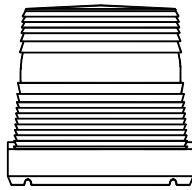
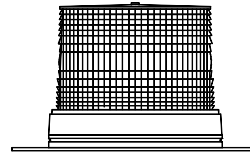


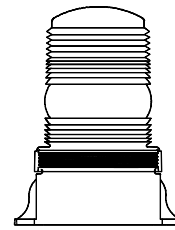
200ZL
SERIES



201ZL
SERIES



203MVL
SERIES



204MVL
SERIES



These lights utilize high-intensity LEDs. Do not stare directly into the light while it is on, as momentary blindness and/or permanent eye damage may occur.

Magnet Mounting

WARNING!!!! Care should be taken when positioning any warning light on the roof, dash, or instrument panel of the vehicle, so that the light and/or cord does not interfere with the proper operation of any airbags! Failure to heed this warning may result in serious or fatal injury.

If you are mounting the light on the roof of your vehicle, take extreme care to ensure that the magnet is firmly seated on your roof, and that the pull of the magnet is sufficient to secure the light in place. As the composition of the metal in the roofs of different vehicles may vary, as well as the contour, texture and/or condition, Star cannot guarantee the ability of the light to remain in place upon a moving vehicle. It is the sole responsibility of the owner to ensure the warning light is secure.

- **CAUTION:** Please be sure to check that your cigarette plug outlet is properly fused. **Testing the light before this fuse is properly installed will void the warranty on the light.**
- This light has been factory tested and approved. If the light fails to work when the plug is inserted into the cigarette plug socket, twist the plug a few times to remove any ash or other deposits which might be preventing a good contact from being made. If the problem persists, check for a fuse inside of the plug itself. If present, remove the fuse from the circuit, check to see if it has blown, and clean the lighter socket and contact surfaces. Reconnect the fuse and test the light again.

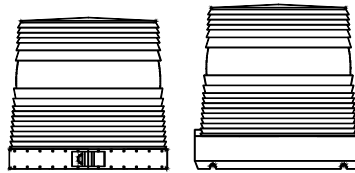


CAUTION !!

All of our DC powered warning lights are polarity sensitive. These lights are polarity protected *only if the appropriate fuse* is used. All wires connected to the positive terminal of the battery should be fused at the battery for their rated load. **Testing the light before this fuse is properly installed will void the warranty on the light.**

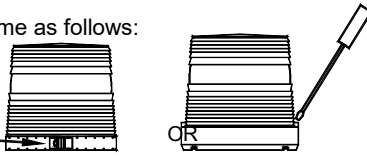
200ZL and 201ZL Permanent Mounting

1. Your new warning light comes complete with a foam mounting gasket, two mounting screws, two lock washers, and two well nuts.
2. These non-flanged lights come equipped with a combination base, allowing the light to be mounted on either a 1/2" NPT conduit pipe or permanently mounted. For NPT pipe, mount the light using the threaded entrance hole in the base of the light, then skip to Step 11. For the permanent mount, proceed to Step 3.



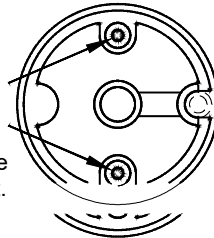
3. Carefully remove the dome as follows:

For models with a clamp ring, use a Philip's head screwdriver to remove the screw in the clamp ring.



For models without a clamp ring, use a flathead screwdriver to carefully pry the dome off.

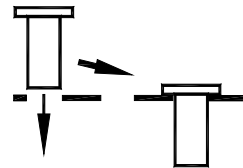
4. Examine the inside of the base and use a punch or drill to remove the knock-outs present.



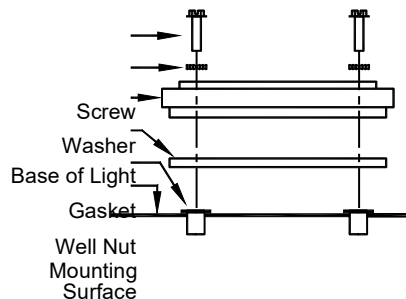
5. Remove the foam gasket from the shipping box. Each gasket comes furnished with three holes. (NOTE: You might have to stretch the gasket to find the location of the holes.) Place the gasket in the exact position the light is to be mounted

6. Using the gasket as a template, mark the holes on the mounting surface. Take care to ensure that the gasket does not move while you are marking each of the holes.
7. Remove the gasket and drill a 3/8" hole in the **outer two locations only**. **CAUTION:** Take care not to drill through the headliner of the vehicle below.

8. Push the enclosed rubber well nuts through the holes until the bottom side of the wider lip rests on the surface of the vehicle.



9. *If you are mounting the light on a vehicle* and plan to wire it through the roof of the vehicle remove the headliner from the inside of the vehicle. Drill a 3/8" hole in the center marked location. Place the light on the surface of the vehicle, routing the wires through the hole.

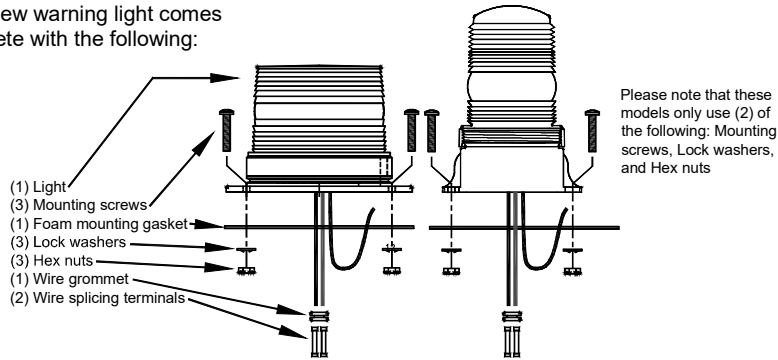


10. To secure the light to your mounting surface, align the holes with the well nuts. Install the two screws through the base, into the well nuts, and tighten until snug.

11. Skip to the Wiring section.

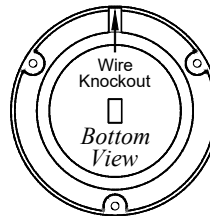
203MVL and 204MVL Permanent Mounting

Your new warning light comes complete with the following:

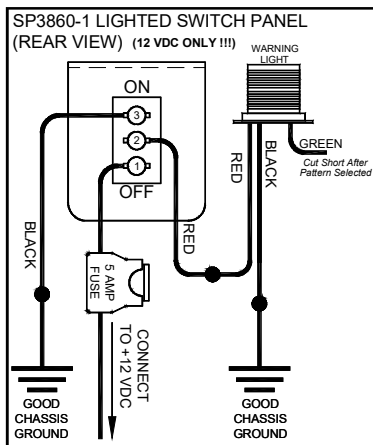
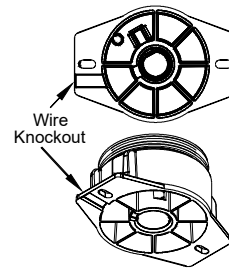


- Where applicable, carefully remove the headliner from the inside of the vehicle so that it is not damaged during installation of the light.
- Remove the foam gasket from the shipping box. Each gasket comes furnished with mounting holes and a center wire hole. (NOTE: You might have to stretch the gasket to find the location of the holes.) Place the gasket in the exact position the light is to be mounted.
- Using the gasket or base as a template, mark the mounting holes and the center hole for the wires, if applicable, on the mounting surface. Take care to ensure that the gasket or base does not move while you are marking each of the holes.
- Drill a 3/16" hole in the marked spots for the screws. If you are routing your wires through the mounting surface, drill a 5/16" hole in the center location to route the wires through.
- If applicable, insert the enclosed wire grommet into the wire hole. If instead, the wires will be running between the base of the light and the mounting surface, knock out the tab in the base as pictured to the right.

203MVL Models



204MVL Models



- Place the light on the mounting surface, routing the wires through the grommet if necessary. Align the outer holes of the base with the holes in the mounting surface, install the screws and nuts, and tighten until snug.

Permanent Mount Wiring

- The black wire is the ground lead and should be connected to a good chassis ground.
- Connect the red wire to the positive side of the power through a switch and a 5 Amp fuse, **checking the label on the warning light for proper voltage.**
- The Green wire is used for pattern selection. Leave disconnected and see next page.

Pattern Selection

Depending upon your model, pressing the pattern select button on the cig plug, or touching the **green wire** to ground on hard-wired models, will allow you to program the desired flash pattern.



The unit has 28 patterns to choose from. After the final pattern is reached, the patterns will cycle through again. The UNIT will remember the pattern it was in when turned off and display the same pattern when re-activated.

Patterns

- | | |
|-------------------------------|---|
| 1. Slow Singleflash | 15. Delta Omega |
| 2. Fast Singleflash | 16. Flicker-Flash |
| 3. Superfast Singleflash | 17. Super Combo/Mix Pattern |
| 4. Beacon Fade | 18. Slow Singleflash, Flicker |
| 5. Pre Pops | 19. Fast Doubleflash, Fast Quadflash w/Post Pop Mix |
| 6. Fast Doubleflash | 20. Dual Quad w/Post Pop, Double, Quint, Quint, Flicker |
| 7. Superfast Doubleflash | 21. Fast Quadflash w/Post Pop, Tripleflash, Flicker |
| 8. Fast Tripleflash | 22. Delta Omega, Flicker, Doubleflash |
| 9. Fast Pre-Pop Tripleflash | 23. Medium Singleflash † |
| 10. Fast Quadflash (DEFAULT) | 24. Medium Singleflash, Fast Singleflash † |
| 11. Fast Quadflash w/Post Pop | 25. Cycle all patterns |
| 12. Quintflash | 26. Steady On |
| 13. Pre-Pop Quintflash | 27. Steady On (Low Power) |
| 14. Flicker | 28. Medium Singleflash † |

† SAE Class 3 Approved Patterns when properly configured

For ease of navigation there are some patterns that you can skip to by holding the green wire to ground (or pressing the Pattern Select button for mag mount models) for a multiple of 3 seconds, and then releasing it. For example, if at anytime you would like to go directly to Pattern 1 (Slow Singleflash), simply touch the Pattern Select wire to ground for 3 seconds. The LEDs should turn off when the green wire is connected to ground, then after 3 seconds, the LED will flash once. Remove green wire from ground and the light will be in the Slow Warn pattern.

Flash Pattern Shortcuts

Hold Pattern Select Button or Touch Green Wire to Ground

3 seconds
6 seconds
9 seconds

Light Flashes

1 Flash
2 Flashes
3 Flashes

Pattern Becomes

Pattern 1 - Slow Singleflash
Pattern 10 - Fast Quadflash
Pattern 21 - Fast Quadflash w/Post Pop, Tripleflash, Flicker

Note: After programming the flash pattern, cut short and tape or cap off the Green wire so that it does not come into contact with ground or power.

