

LED Traffic Directors, Split Traffic Directors, and Warning Sticks

The following is a list of recommended practices for the installation and operation of your light.

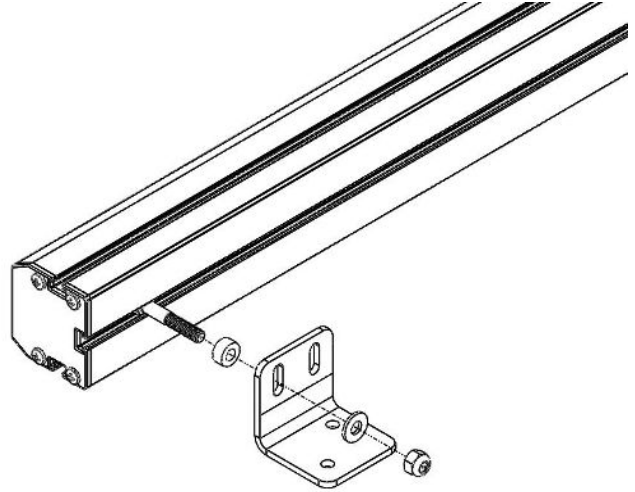
FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY AND/OR DEATH TO YOU AND YOUR PASSENGERS

- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures. You may need to consult a professional for installation.
- SWS Warning Lights Inc. recommends the use of waterproof butt splices and/or connectors for all electrical connections. It is recommended that the use of good dielectric grease be used on all connections where possible.
- If mounting this product requires drilling holes, the installer must be sure that no vehicle components or other vital parts could be damaged by the drilling process. Also, de-burr the holes and remove any metal shards or remnants. Grommets are recommended for all wire holes.
- Do not mount the light close to antennae or radio equipment, as they may cause electromagnetic interference. After installation of the light, it is necessary to test all electronic equipment simultaneously to ensure that they operate free of interference from other components within the vehicle.
- Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment.
- Do not install this product or route any wires in the deployment area of your air bag or areas that interfere with the operation of the vehicle. Refer to your vehicle owner's manual for the air bag deployment area and recommended mounting areas for warning lights and other equipment.
- Never mount this product with magnets as its weight may cause the product to slip and alter the intended direction of travel.
- Traffic Directors are meant to be mounted rear facing in an upwards orientation (unless otherwise labeled). All lights are marked with a "This Side Up" label. Any other orientation or movement into any other orientation may result in damage to the product or void the warranty. If you have a unique application or orientation, please contact SWS before proceeding.
- Do not attempt to activate or control the device with the vehicle in motion or in a hazardous driving environment. The vehicle should be stopped and parked before control of the light is attempted.
- Always be aware of the pattern and its effect on traffic when activating the Traffic Directing Device.
- Do not stare directly into these lights. Momentary blindness and/or eye damage could result.
- Use only soap and water to clean the product. Use of other chemicals could result in degradation and discolouration of the lens/dome.
- Do not use a pressure washer to clean this product.
- Inspect and operate this product regularly to confirm its proper operation and mounting condition.
- It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.
- SWS endeavors to maintain installation instructions for its products according to the latest requirements of vehicle manufacturers. SWS cannot guarantee, and shall not be held liable for, changes or updates a vehicle manufacturer may make which render SWS's products inoperable or otherwise.
- SWS Warning Lights Inc. and its subsidiaries are not responsible for any damages due to improperly mounted or improperly wired lighting equipment.

- **Select a surface where the light is visible and free of obstruction.**
- **Mounting brackets are available from the manufacturer.**
- **A straight level is highly recommended to ensure the light is level.**
- **Ensure the vehicle is on level ground when installing.**
- **Take note of the “This Side Up” label.**

Mounting (Traffic Director and Warning Stick)

1. If you are not using SWS mounting brackets, you must drill $\frac{5}{16}$ " diameter holes in the mounting surface. A minimum of two are required for traffic directors and warning sticks less than 60" in length. For lights longer than 60" or a split traffic director, four holes are required.
2. Slide the head of the $\frac{1}{4}$ "-20 bolt into one of the T-slots in the body of the light. The T-slots can be accessed through the endcap. For split traffic directors and warning sticks, each half needs two bolts. For directors and sticks longer than 60", the bolt can be inserted using the milled hole at the center of the housing (if desired).
3. Place a rubber spacer onto each bolt, then pass the bolt through the mounting surface.
4. From the opposite side of the mounting surface, place the flat washers and self-locking nuts onto the bolts. Secure with a $\frac{7}{16}$ " wrench or ratchet and socket. **Do not overtighten.**



572xx Series Select Traffic Directors

- It is highly recommended that you purchase SWS extension cables for this product.
- The lights are supplied with a switch. Following the instructions for that switch will allow for Power and Pattern Selection control.
- Touch the **WHITE** wire to ground (negative) to activate left sequential, touch to positive to activate right sequential, leave white floating to activate middle sequential.

Wire Colour	Wire Connection
Red	Connect to Switch Kit
Black	Connect to Switch Kit
White	Pattern Selection (Connect to Switch Kit)

579xx Series Warning Sticks

- It is highly recommended that you purchase SWS extension cables and switches for this product.
- Following the instructions for that switch will allow for Power and Pattern Selection control.
- Momentarily touch the WHITE wire to ground (negative) to switch patterns.

Wire Colour	Wire Connection
Red	Connect to Fused Positive (+) of Power Source
Black	Connect to Negative (-) of Power Source
White	Pattern Selection

59xxx Series Traffic Directors and Split Traffic Directors

- This product has a 12" pigtail with a 9-position twist lock connection.
- It is highly recommended that you purchase SWS extension cables for these traffic directors to connect to their supplied control box.
- Follow the "**Fleet** Wiring Harness Install" section of the instructions that are with the control box.

571xx and 573xx Series Fleet Traffic Directors

- This product has a 12" pigtail with a 12-position connection (The 571xx series has a 40' cable).
- Please purchase an SWS **Fleet extension cable and a control box of your choice** (not required for 571xx series).
- Follow the "**Fleet** Wiring Harness Install" section of the instructions that are with the control box.

574xx Series Fleet+ Traffic Directors

- This product has a 12" pigtail with a 12-position connection.
- Please purchase an SWS **Fleet+ extension cable** to connect to the control box.
- Refer to the "**Fleet+** Wiring Harness Install" section of the instructions that are with the control box.
- All Fleet+ features are handled by the control box and do not require further wiring.

Wire Colour	Wire Connection
Red	Connect to Fused Positive (+) of Power Source
Black w/ White Stripe	Connect to Negative (-) of Power Source
White	Connect to 9 th slot from left of the control box connector (LIN Communication Slot)

Trouble Shooting

If your light fails to work, please follow these troubleshooting tips before calling the factory:

- Check all connections for breakage or corrosion.
- Ensure all connectors are locked and in place.
- Ensure the WHITE LIN Communication wire is in the correct slot (where applicable).
- Check to see if the fuse has blown within the vehicle or the inline fuse. If it has, replace it with a fuse of the exact same amp rating.
- Check to see if the fuse has blown on the back of the control box. If it has, replace it with a fuse of the exact same amp rating.
- For long power wire lengths, ensure the voltage at the light connection is adequate. If not, you may have to shorten the length or increase the wire gauge.
- Ensure the vehicle's battery is charged and that the charging system is functional.

Note: The 58XXX/59XXX Orion Family, under normal operation will have humidity and moisture appear on the lens. This is totally normal, and the product is designed to dry up inside while the vehicle is moving down the road. All the internal electronics are potted and completely encapsulated for protection from moisture, salt, and brine and will never fail from corrosion caused by harsh environments.

CALL SWS Warning Lights Inc. (1-877-357-0222) FOR FURTHER ASSISTANCE