



540xx Series Traffic Arrows

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 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.
- Arrows and Traffic Directors are meant to be mounted rear facing (unless otherwise labeled). 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 in park 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 endeavours 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 damage 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.**
- **Note that the connector or wire harness is to be on the driver's side of the vehicle.**

Mounting (54xxx Series Arrows)

- **Take note of the “This Side Up” label on one of the corner lightheads.**

1. Place a spring washer onto each bolt, followed by a flat washer.
2. Pass the bolts through the 4 mounting holes on the arrow.
3. Place two nylon spacers onto each of the bolts from the rear of the arrow.
4. Pass the bolts through the mounting surface or bracket (as pictured right).
5. Place a flat washer onto the bolt from the reverse side of the mounting surface.
6. Secure each of the bolts in place with a hex nut. Do not over-tighten the bolts.

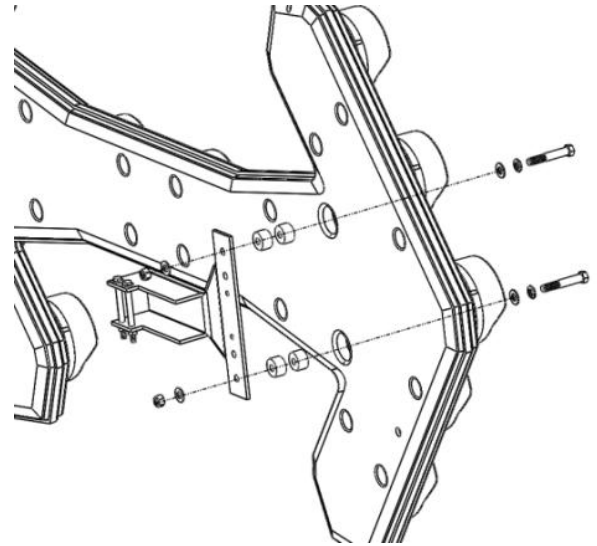


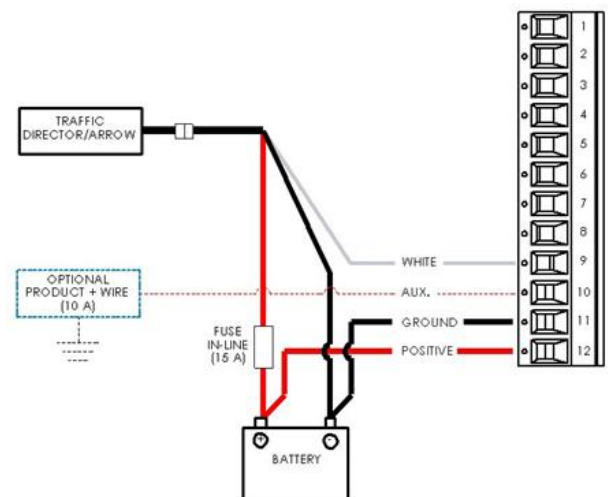
Photo sensor

- This product is equipped with an auto-dimming feature, enabled by a built-in photo sensor.
- The photo sensor is located at the top-left corner of the arrow.
- During daylight, the light heads operate at normal brightness.
- When it gets dark, the lights will automatically dim to conserve energy and reduce glare.



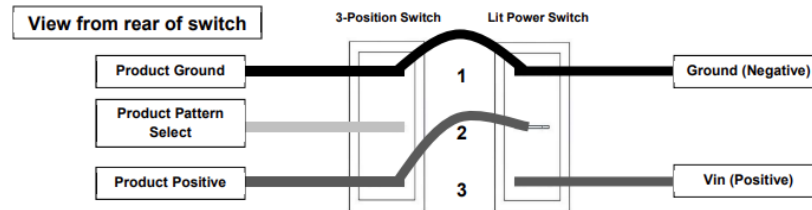
Connection for 54000 Arrows

- This product is supplied with a 12” pigtail with a 3 position Deutsch connector.
- It is highly recommended that you purchase SWS extension cables to connect to its supplied SWS control box or Switch.
- Follow the “**Fleet+** Wiring Harness Installation” section of the control box instructions to make the connections to the 12-position connector at the back of the control box as shown:



Connection for 54010 Arrows

- It is highly recommended that you purchase SWS extension cables for this product.
- 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.

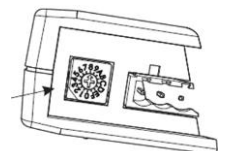
Wire Colour	Wire Connection
Red	Connect to Switch Kit
Black	Connect to Switch Kit
White	Pattern Selection (Connect to Switch Kit)

Trouble Shooting

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

- Ensure both the control box/Switch panel and the arrow are getting power and are properly grounded.
- Ensure the 12-position connector/switch at the back of the control box is fully inserted.
- Check for loose strands of wire at the 12-position connector at the back of the control box/Switch.
- Ensure the WHITE LIN Communication wire is in the correct slot (where applicable).
- Check all connections for breakage or corrosion.
- Check to see if the fuse has blown within the vehicle. If it has, replace 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 vehicle's battery is charged and that the charging system is functional.
- Ensure the control box is set to the correct program for the arrow (to change the program, use the small dial on the back left of the control box and point the arrow to the corresponding number):

Dial Selection	Software Function
A	54xxx Traffic Arrow



CALL SWS WARNING LIGHTS INC. (1-877-357-0222) FOR FURTHER ASSISTANCE