



Time Tested • Time Proven

853977-02 12-17

Magnetic Tow Lights

part number 2120

Installation and Use

All specifications are subject to change without notice.

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WARNING

Read the instructions before installing the kit components. Failure to understand how to install this product could result in property damage, personal injury or even death.

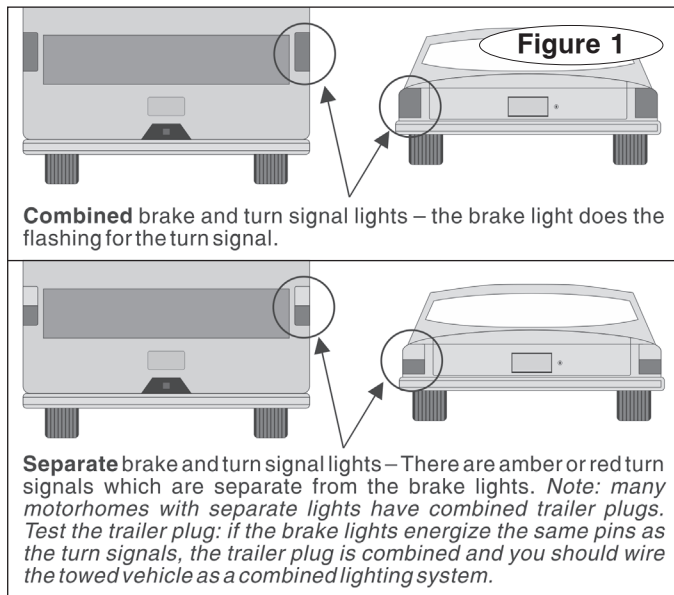


Before you connect the wiring...

If the motorhome (or towing vehicle) has a separate lighting system, a 3-to-2 converter must be installed in order to use this kit. A 3-to-2 converter converts a separate system to a combined system.

Many late-model motorhomes come with converters already installed – test for this before installation: if the motorhome’s trailer plug energizes the same pins for both brake lights and turn signals, then a 3-to-2 converter is already installed and the motorhome (or towing vehicle) should be treated as combined.

If a converter is needed, install ROADMASTER’s Brite-Lite™, part number 732.



Connecting the wiring...

Follow the steps below to connect the included three-foot wiring harness to the towing vehicle’s brake, turn signal and taillight wires...

1. Use a test light to identify the left brake and turn signal wire, right brake and turn signal wire, taillight wire and ground wire on the towing vehicle’s electrical harness.
2. The wires on the three-foot harness are color-coded. They must be attached to the towing vehicle’s wiring as follows:

included three-foot wiring harness	towing vehicle’s electrical harness
White	Ground
Brown	Taillights
Yellow	Left Brake/Turn
Green.....	Right Brake/Turn

3. There are two slots at the sides of each of the included splice connectors. The bottom slot is plugged on one end and open on the other.

Insert the end of one of the wires on the three-foot harness into the open end of the bottom slot on one of the connectors, until it can go no farther. Look through the top of the connector to make certain that the wire extends past the metal band at the center of the connector.

Push the top of the connector over the appropriate wire on the towed vehicle’s electrical harness, until the wire snaps into the top slot.

Use pliers to fold the plastic tab on the connector over the top, until the tab snaps into place. Cover the connector with electrical tape.

Repeat for the other three wires.

WARNING

Unless the wires are attached as described above, the magnetic lights on the towed vehicle will not illuminate in tandem with the towing vehicle’s lights. Drivers behind the towed vehicle will not be alerted

continued on next page

IMPORTANT NOTICE!

Safety Definitions

Statements in these instructions identified as follows are of special significance.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in property damage, serious personal injury or even death.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in property damage, or minor or moderate personal injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE

Refers to important information and is placed in italic type. It is recommended that you take special notice of these items.

continued from preceding page

when the towing vehicle stops or turns, which may cause an accident.

Failure to follow these instructions may cause property damage, personal injury or even death.

4. Use one or more wire ties to secure the other end of the three-foot wiring harness (with the female four-prong connector) at the back of the towing vehicle, close to the center.

CAUTION

The four-prong connector must be attached at the rear of the towing vehicle, close to the center. Attaching the connector toward either side of the towing vehicle may cause the wiring to be pulled loose, or to drag on the ground, when the towing vehicle turns.

5. Test the system: follow the steps below to attach the lights to the rear of the towed vehicle. With the towing vehicle's engine on (or the ignition key in the 'on' position), turn on the headlights. Now, press and release the brake pedal and activate the turn signals to verify that the magnetic lights work in tandem with the towing vehicle's turn signals and brake lights.

Attaching the lights...

1. The magnetic tow lights are attached to a length of electrical cord with a male four-prong connector. Plug this connector into the female connector at the end of the three-foot wiring harness.

2. Route the electrical cord and the magnetic lights to the back of the towed vehicle.

CAUTION

Position the electrical cord so that it will not rub against the towed vehicle's finish. The finish may be damaged if the cord rubs against it during towing.

CAUTION

Keep the cord away from all moving parts. Severe damage to both vehicles, as well as the components of the towing system and the magnetic lights, can occur if the cord becomes entangled in the wheels, the tow bar or hitch, or any other moving component.

! WARNING

The wiring can be damaged if the electrical cord is pinched or crushed. If the wiring is damaged, the magnetic lights will not operate.

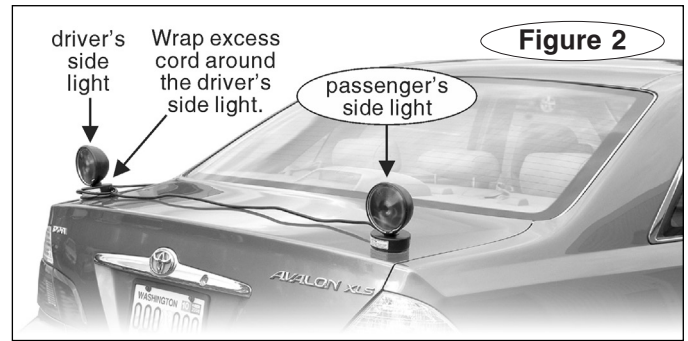
Damaged wiring may also cause a short circuit, which can blow a fuse in the towing vehicle, as well as cause other, consequential damage to the towing vehicle's electrical system or other components.

Failure to follow these instructions may cause property damage, personal injury or even death.

3. Choose an area on the rear of the towed vehicle to position the two magnetic lights, so that they will be clearly visible to drivers behind the towed vehicle.

CAUTION

To reduce the likelihood of scratches or other dam-



age to the towed vehicle's finish, make certain that both the underside of the magnets and the surface of the towed vehicle are clean.

Also, do not drag the magnets across the surface of the towed vehicle.

Failure to follow these instructions will damage the towed vehicle's finish. Scratches, paint chips and other damage to the vehicle's finish caused by improper use of the magnetic tow lights are not covered under warranty.

4. If there is excess electrical cord, wrap the slack around the driver's side light, as shown in Figure 2.

5. Position the two lights (Figure 2) over the points you have chosen.

Note: the driver's side light has two electrical cords extending from the base; the passenger's side light has only one (Figure 2).

! WARNING

Position the driver's side and passenger's side lights as described above, and as shown in Figure 2. If the lights are reversed, the towed vehicle's turn signals will be reversed, which may cause an accident.

Failure to follow these instructions may cause property damage, personal injury or even death.

6. Each time before towing, test the system for proper function, as described in step five under "Connecting the wiring."

7. The weather cover over the female four-prong connector at the towing vehicle will prevent damage from road debris or corrosion. Keep the female four-prong connector covered when not in use.