BRITE-LITE

3-to-2 wire converter for 'separate' to 'combined' towing combinations

If you have this – the motorhome has one circuit for a brake light signal and another for a turn signal and the towed vehicle has combined brake and turn signal circuit.

Then you need this – the Brite-Lite 3-to-2 wiring converter allows the towed vehicle's brake lights and turn signals to work in tandem with the towing vehicle's brake lights and turn signals, which is required by law.

Installation Instructions

- 1. Choose a suitable mounting point on the towing vehicle for the Brite-Lite converter. Thoroughly clean the surface, remove the adhesive backing pad and press the Brite-Lite converter into place.
- 2. Following the illustration on the right, locate the right turn, left turn and brake light wires at the rear of the towing vehicle and connect them to the input wires on the Brite-Lite converter with four 16-14 gauge butt connectors (not supplied).
- **3.** Using a ring terminal (not supplied), connect the ground wire from the Brite-Lite converter to any good chassis ground on the towing vehicle.
- **4.** If towing a trailer connect the yellow output wire from the Brite-Lite converter to the left brake light wire on the trailer; connect the green output wire from the Brite-Lite converter to the right brake light wire on the trailer. No diodes are necessary.

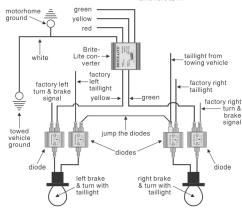
If towing a vehicle – connect the yellow and green output wires from the Brite-Lite converter to the towed vehicle as illustrated in Figure 1. Connect the wiring at the bulbs with four spade connectors and four diodes (not supplied).

5. Test for proper operation – with the headlights on the towing vehicle turned on, verify that the left turn, right turn and brake lights function on the towed vehicle (or trailer).

Separate motorhome to combined towed vehicle

Figure 1

Wiring from motorhome into Brite-Lite Converter green = right turn yellow = left turn red = brake lights Wiring from Brite-Lite Converter to diodes green = combined brake and right turn yellow = combined brake and left turn



Warnings and Cautions

- The towed vehicle's (or trailer's) wiring must be properly grounded, so that a ground exists between the two vehicles' lighting systems through the electrical cord. If the wiring is not properly grounded at the towed vehicle, an improper ground circuit between the Brite-Lite converter, the towed vehicle and the towing vehicle will damage the Brite-Lite converter.
- If wiring a towed vehicle, attach the diodes as close to the light bulbs as possible, to avoid interaction with other circuits which may be tied into the center brake light, the

running lights, the turn signals or the brake light wires. Attaching the diodes farther away may cause the towed vehicle's lights to work improperly, and may also cause damage to other electrical components in the vehicle.

 Wire the towed vehicle (or trailer) according to the instructions and diagram above. Improperly wiring the towed vehicle (or trailer) may cause electrical malfunction or other damage, which may result in property damage, personal injury or even death.

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Specifications subject to change without notice.



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