

Two Light to Four Light Converter

Intellitec introduces a Two Light to Four Light Converter to be used to convert the two wire signal from the tow vehicle, to a four wire system trailer.

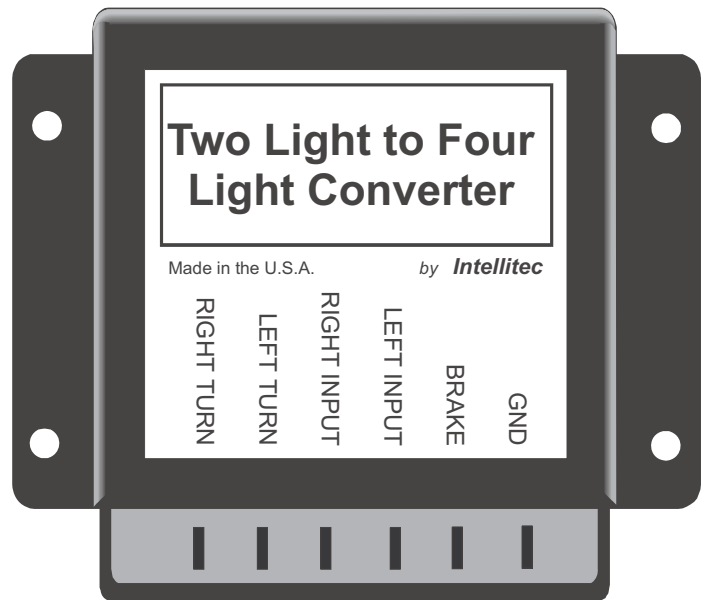
The Two Light to Four Light Converter is intended to be used on travel trailers that use four bulb tail light assemblies, but are being powered by tow vehicles that have only two wires for stop and turn signal bulbs. The system operates by taking the two signals coming from the tow vehicle and interpreting them to light the proper lights on the trailer.

All the power for the module is derived from the two incoming lines.

When the incoming signals are off, the brake and turn signals on the trailer will be off. If either turn signal is turned on, that turn signal light, only, on the trailer will turn on. When the brake lights on the tow vehicle come on, the brake lights, only, on the trailer will come on.

When the brakes are applied and a turn signal is on, both brake lights on the trailer will come on.

Installation consists of connecting the two incoming wires from the tow vehicle, the four wires to the two trailer tail lights, and a good ground connection.



The brake lamp circuit is designed to drive the right, left and center brake lamp. The brake lamp circuit and the turn signal lamp circuits will carry up to 10 Amps each.

 **Intellitec**
1485 Jacobs Rd.
Deland, FL 32724
386.738.7307

P/N 53-00361-000 Rev. C 032519

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How Does It Work?

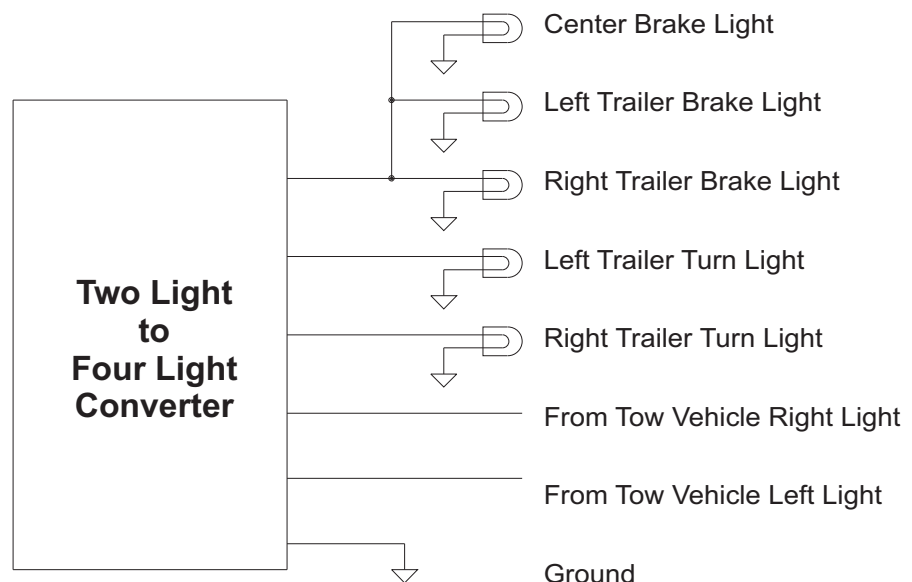
The **Two Lite to Four Lite Converter** uses the signals from a two light tow vehicle and converts them to drive four independent lights on a trailer. When the turn signals are on alone, (i.e. no brakes), the system operates using *positive* logic. Whenever an input signal goes *on*, that corresponding turn signal light on the trailer will come *on*.

If the brakes are applied, (i.e. both incoming signals go on at the same time), the system uses *negative* logic. Whenever an input signal goes *off*, that corresponding turn signal light will go *off*, but both brake lights will remain on. The brake lights will be powered from the side that remains on. The system continues to use negative logic until the brakes are released, (i.e. both incoming signals go off). The system then reverts back to positive logic.

Specifications:

Part Number:	00-00361-000
Current Carrying Capacity:	Brake Lights: 10 Amps each Max. Turn Lamps: 10 Amps each Max.
Operating Current: (Not including tail lamps)	Less than 75 milliamps
Ambient Temperature Range:	-40C to +85C
Normal Input Voltage Range:	10 to 18 volts
Short Term Over Voltage Protection to:	+26 volts
Reverse Voltage Protection to:	- 300 volts
Positive Voltage Spike Protected to:	+150 volts
Operating Environment:	Indoor Protected

System Connections:



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