



## 6L80/6L90 Reverse Light Relay Instructions

### Specifications:

- The reverse light relay kit provides a +12V signal to your back up lights.
- The provided Light Green wire is the signal wire and is normally open. This wire will provide +12V when the key is in the on position and the transmission is in Reverse.
- The Pink/Black, Black/White, and Light Green wires are all 18-gauge wires.
- This unit must be installed in a dry location and is not water resistant.
- This relay is intended to provide a reverse signal when using a 6L80/6L90 or 8L90 transmission.
- When possible, all connections should be made with solder and heat shrink.

Table A – Wiring (All loose wires are also labeled)

Wire Color	Label	Function
Pink/Black	Ignition	Connects to a switched and fused +12 volt DC source
Black/White	Ground	Connects to a vehicle ground
Tan/Black	CAN Hi (+)	Connects to a CAN + signal from engine harness (OBD2 port position 6)
Tan	CAN Lo (-)	Connects to a CAN – signal from engine harness (OBD2 port position 14)
Light Green	Reverse Light	Connects to the positive side of your reverse light bulb

### Installation:

- Disconnect the negative battery terminal.
- Connect the black wire to a suitable chassis ground.
- Connect the Pink/Black 18-gauge wire to a fused and switched +12V ignition source. A 5-10 AMP fuse should be sufficient. The vehicles existing fuse block is typically a good place to tie into.
- Connect the Tan/Black wire to the wire in position 6 of your diagnostic port. You will need to splice in our Tan/Black to position 6 of the OBD2 port. The existing wire in your diagnostic port is typically Tan/Black on Gen 4 engines, or Dark Blue on Gen V engine harnesses.
- Connect the Tan wire to the wire in position 14 of your diagnostic port. You will need to splice this wire into the existing wiring of your diagnostic port. The existing wire in your diagnostic port is typically tan on Gen 4 engines, or White on Gen V engine harnesses.
- Connect the Light Green wire to the positive side of your chassis reverse light harness.
- Reconnect the negative battery terminal.

**When purchased with a new Speartech harness, the relay is integrated into the harness, and you simply take the light green output wire labeled BACK-UP LIGHTS to the positive side of your chassis reverse light harness. If you aren't using LED reverse lights then you may need to take our Light Green trigger wire to a relay suitable to your reverse light bulbs load.**