



## 8L90 Momentary Tap/Reverse CAN relay

### 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.
- The provided connector house has a mounting tab on the back.
- 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

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
Dark Blue	CAN Hi (+)	Connects to a CAN + signal from engine harness (OBD2 port position 6)
White	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
White/Black	Tap Down	Provides a Tap Down signal request when momentary +12V is applied
Purple/White	Tap Up	Provides a Tap Up Signal request when momentary +12V is applied

### 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 Dark Blue wire to the wire in position 6 of your diagnostic port. You will need to splice in our Dark Blue to position 6 of the OBD2 port. The existing wire in your diagnostic port is Dark Blue on Gen V engine harnesses.
- Connect the White 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 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.



### **Tap Shift**

Tap shift works best with Corvette based tunes to hold and maintain the proper gear. • Truck tunes will operate tap shift but may time out after about 4-5 seconds of tap shift inactivity. Tap shift timing out means the transmission will exit tap shift manual mode and resume normal operation. The momentary toggle switch will shift up one gear when tapped to the + position, and down one gear when tapped to the - position.

If adapting to an aftermarket tap shifter (Lokar or similar), the purple/white wire commands an up shift. The white/black wire commands a down shift. Pink/Black wire is +12V ignition source on our momentary switch.

**Reverse Light Relay output is +12V 18awg and works fine for most LED reverse light bulbs. If using incandescent bulbs, then a relay may be needed that can support the amperage of your bulb.**