



## 10L80/10L90 NSS Module

The 10L80/10L90 NSS module provides the end-user with a neutral safety switch that prevents the vehicle from starting in gear. The module also has an optional Reverse Light Output that you can wire to your own relay. The outputs for neutral safety and reverse lights are a ground trigger that must be wired to their own relay.

Name	Description
CAN_hi	CAN Hi (+) connects to CAN + signal from engine harness (OBD2 port position 6)
CAN_lo	CAN Lo (-) connects to CAN - signal from engine harness (OBD2 port position 14)
REV	To reverse light relay (ground trigger). Wire REV to terminal 85 on a relay (relay not provided). Terminal 86 will be +12V. Terminal 30 is ignition input to relay. Terminal 87 will be the output wire to reverse light bulb +12V.
NSS	Connect NSS wire to any 30/40 amp capable 4 or 5 terminal relay. Terminal 85 on the relay will be NSS input. Terminal 86 will be +12V ignition. Terminal 30 will go to your starter solenoid. Terminal 87 will go to your key-switch starter solenoid position.
Ground	Take to a clean body or engine grounding source.
Ignition	Tie this wire into your chassis +12V ignition system that will see +12V when HOT and remains HOT when cranking. Do NOT tie into an ACC position that goes DEAD during cranking.

Be sure to test the functionality of the shifter in a safe area.  
Wiring in the reverse light (REV) position is optional and not required.

Please give us a call at (765) 378-4908 if you need assistance or email [info@speartech.com](mailto:info@speartech.com).

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## Relay Wiring for Neutral Safety

