



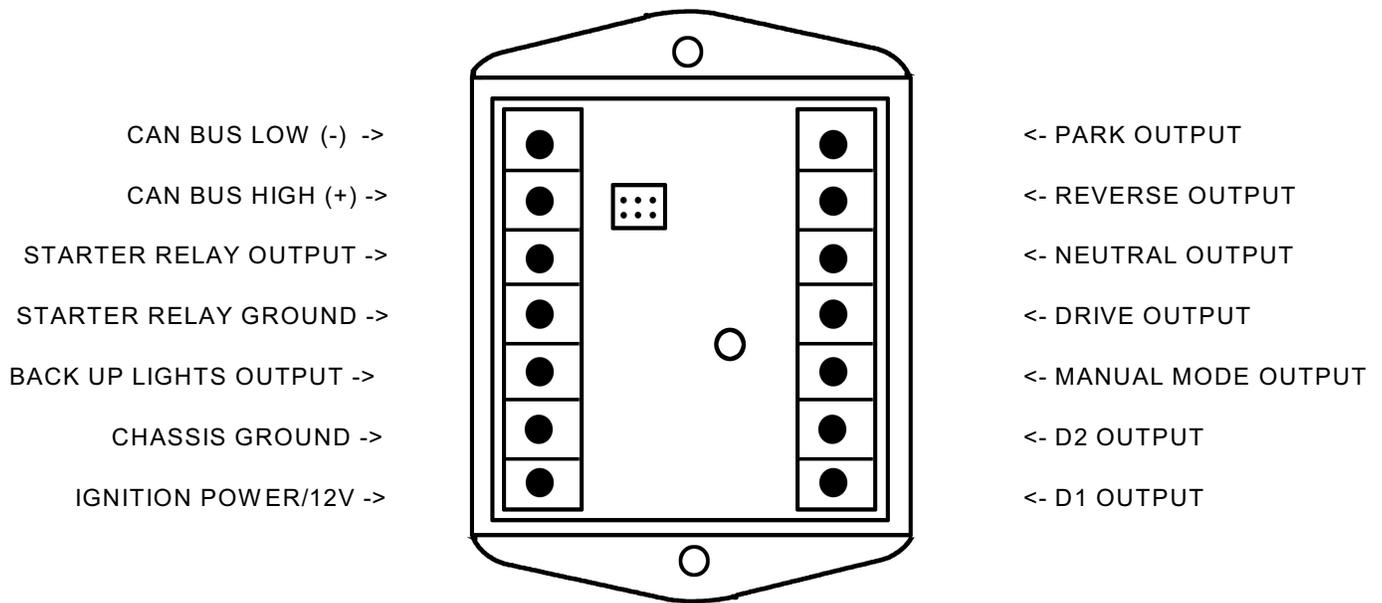
This unit is designed for the Ford F-Series and Mustang 6R80 six speed automatic, this unit provides gear shift indicator signaling, neutral safety and back up light functions by connecting to the data stream of the ECM communicating with an ECM. There are no external sensors or switches on this transmission, all information comes from logic inside the transmission and the only easy means to retrieve this information is to tap into the data stream of the ECM controlling the transmission. Factory ECM control of transmission required. Display for gear shift indication required/sold separately.

MOUNTING

Choose a location inside the vehicle for the CY-80 module in an accessible location. The module has two holes in the base of the module for mounting the unit.. **DO NOT DRILL ANY OTHER HOLES OR MODIFY THE MODULE IN ANY WAY. DOING SO WILL DAMAGE THE MODULE & VOID WARRANTY.** If you are using the neutral safety function of this kit, you will also mount the included relay near the CY-80 module. There are two wires (Grey and Tan) that are 24 inches long and must run from the relay to the CY-80 module. Mount the relay close enough to connect those two wires to the CY-80 module.

WIRING

The photo below illustrates the connection points on the terminal block of the module. Refer to the image and text to make the proper connections.



Notes:

- 1) Back up light and starter circuits are both limited internally to 5 amps each. This amperage is more than adequate for two back up lights. If additional lights are added, a relay may be necessary. For neutral safety function, the supplied relay is required to protect the CY-80 unit.
- 2) Gear shift indicator circuits are limited to 150 mA (milli-amps), which is sufficient for any LED's or small indicators.

Orange (FUSED IGN) (18 gauge wire): Connect the orange wire to the module at the IGNITION POWER/12V location and run the other end to a fused ignition hot/ignition fed circuit. Hot with the key on.

Black (GROUND) wire (18 gauge wire): Connect the black wire to the module at the CHASSIS GROUND location and run the other end to a good ground.

Dark Green (BACK UP LIGHTS OUTPUT) (18 gauge wire): Connect the dark green wire to the module at the BACK UP LIGHTS location and run the other end to the back up lights at the rear of the vehicle. Disregard if vehicle doesn't have back up lights.

Grey (STARTER RELAY GROUND) (18 gauge wire): This wire runs from the supplied relay to the CY-80 module. Connect the grey wire to the module at the STARTER RELAY GROUND location.

Tan (STARTER RELAY OUTPUT) (18 gauge wire): This wire runs from the supplied relay to the CY-80 module. Connect the tan wire to the module at the STARTER RELAY OUTPUT location.

White (CAN BUS HIGH +) (18 gauge wire): Connect the white wire to the module at the CAN BUS HIGH + location and tap into the CAN BUS HIGH + circuit between ECM and OBD2 diagnostic port.

On a 2011-2014 Ford Coyote application, this circuit runs from OBD2 port 6 to ECM terminal B-59. White/Lt Blue wire.

On a 2015-2017 Ford Coyote application, this circuit runs from OBD2 port 6 to ECM terminal b-75. White/Lt Blue wire.

If you are using our CY-11 wiring kit, this will be terminal number 115.

If you are using our CY-15 wiring kit, this will be terminal number 115.

Lt Green (CAN BUS LOW -) (18 gauge wire): Connect the Lt Green wire to the module at the CAN BUS LOW - location and tap into the CAN BUS HIGH - circuit between ECM and OBD2 diagnostic port.

On a 2011-2014 Ford Coyote application, this circuit runs from OBD2 port 14 to ECM terminal B-58. White wire.

On a 2015-2017 Ford Coyote application, this circuit runs from OBD2 port 14 to ECM terminal B-76. White wire.

If you are using our CY-11 wiring kit, this will be terminal number 117.

If you are using our CY-15 wiring kit, this will be terminal number 117.

	WHITE CAN BUS HIGH (+)	LT GREEN CAN BUS LOW (-)
RFW CY-11 KIT	PANEL NUMBER 115	PANEL NUMBER 117
2011-2014 MUSTANG / F150	ECM B-59	ECM B-58
RFW CY-15 KIT	PANEL NUMBER 115	PANEL NUMBER 117
2015-2017 MUSTANG / F150	ECM 5B-75	ECM B-76

There are 7 wires coiled together that are for the gear shift indicator lights on your dash (Dk Blue, Lt Blue, Dk Green, Lt Green, White, Brown and Yellow). Connect wires to all 7 terminal block positions and run the cable to your gear shift indicator and run to your dash indicator lights. These wires will be the power wires for each indicator. Complete your connections and ground the other side of all indicators, if necessary.

The green LED on the CY-80 module indicates proper function. Upon ignition on, LED will blink to go through self test and establishing communication on the can bus network. The green LED will continue to remain on during normal operation. At start up, CY-80 will also go through a gear shift indicator sweep of lights on and then enter an operating state.

Customer Service number: 800-292-1940