



Installation Instructions

70381

ShiftPlus Electronic Shift Improver for Ford Transmissions:

- AODE / 4R70W (1994-1997)
- 4R44E / 4R55E (1995-1997)
- E4OD (1994-1997)

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The **B&M ShiftPlus Electronic Shift Improver** will give your transmission firmer and more positive shifts. This model is designed to work on most Ford vehicles equipped with the electronic automatic transmissions listed above. These transmissions can be easily identified by reviewing the build code decal, typically found on the driver's door frame. Look for a letter under the heading "TR" or "Trans." If this letter is "D," "E," "H," "L," "P," "U," or "V," this unit should work.

Installation can be accomplished by anyone with average mechanical experience. Before starting, take a moment to read and understand these instructions. Note the tool list at the end of the instructions.

CAUTION: The B&M ShiftPlus Electronic Shift Improver is not a remedy for an ailing transmission. If your transmission slips, chatters or is generally in poor condition, the installation of this device may make it worse.

In addition to your **B&M ShiftPlus Electronic Shift Improver**, please consider installing a **B&M Super-Cooler Automatic Transmission Cooler** as well. Overheating is a major cause of transmission failure.

B&M SuperCoolers are a cost-effective safeguard against overheating, and are especially recommended if your transmission sees heavy-duty or high-performance use (towing, racing, etc.).

INSTALLATION

STEP 1. Disconnect the negative battery cable.

STEP 2. Choose the intended location of your wiring connections. The vehicle's computer—also known as the Powertrain Control Module (PCM) or Engine Electronic Control (EEC)—is typically located under the hood or behind the passenger-side kick panel, and it is usually easiest to access. But the connections can also be made at the transmission harness plug.

STEP 3. Inside the vehicle, choose where you will mount the control switch and the processor housing. The processor location should have adequate air circulation, as it will get warm during normal operation. Also, the wires must reach the intended connection point. Pass the wires through an existing hole or gap in the firewall, or drill a 3/16" hole, if needed.

STEP 4. Clean both the control switch's mounting face (no B&M logo), and the intended mounting surface, with rubbing alcohol and a cotton ball. Attach the supplied "loop" tape to the switch, and attach the "hook" tape to the mounting surface. Repeat for the processor housing location. **NOTE: For best results, allow all tapes to cure for 24 hours before attaching the switch and processor housing to their mounting locations.**

STEP 5. Carefully route the unit's wire through the firewall to the intended connection point. Should your installation require longer wire, use stranded 18-20 AWG wire, make the connections with solder, and protect the connections with heat-shrink tubing or electrical tape.

STEP 6 (for connection at the PCM). Four small tabs secure the plastic cover over the wires coming into the PCM connector. Carefully remove this cover, then loosen the bolt securing the connector to the PCM, and remove the connector from the PCM. This will allow you to read the pin numbers stamped onto the connector.

STEP 7. Use Figs. 1 or 2 to identify the PCM wires to which the ShiftPlus wires will be connected. (For a connection at the transmission harness, use Fig. 3.)

CAUTION: Severe engine damage may result if the wires are not correctly identified according to Figs. 1-3.

Vehicles with an EEC-IV computer (Fig 1): Locate the red wire attached either to pin #37 (for gasoline engines) or pin #35 (for diesels), and connect the ShiftPlus unit's red wire to it using the supplied Scotchlok® connector. Then locate the white wire with yellow stripe attached to pin #38, and connect the unit's black wire to it using the supplied Scotchlok® connector.

Vehicles with an EEC-V computer (Fig. 2): Locate the red wire attached to pin #97, and connect the ShiftPlus unit's red wire to it using the supplied Scotchlok® connector. Then locate the white wire with the yellow stripe attached to pin #81, and connect the unit's black wire to it using the supplied Scotchlok® connector.

STEP 8. Tape the connections using black electrical tape, and use the supplied tie wraps to secure the wire away from hot or moving parts.

STEP 9. Reconnect the negative battery cable.

SHIFTPLUS SETTINGS

In Position 1 (single dot), the ShiftPlus provides firmer shifts than stock. In Position 2 (two dots), the unit provides the firmest shifts. The center position (Off) returns the shifts to stock firmness.

NOTE: Due to increased loads placed on the transmission pump, B&M recommends not using Position 2 for normal, everyday driving.

TOOL LIST
Common pliers
Crimping pliers
Electric drill & 3/16" bit
10mm socket, drive & extension
Rubbing alcohol and cotton balls
Electrical tape

KIT CONTENTS
1 ShiftPlus controller
2 pairs hook & loop tapes
2 pairs Scotchlok® connectors
2 tie wraps

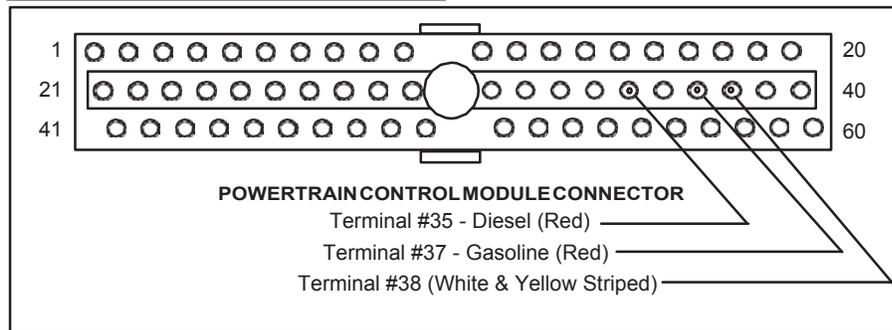


Figure 1 (EEC-IV)

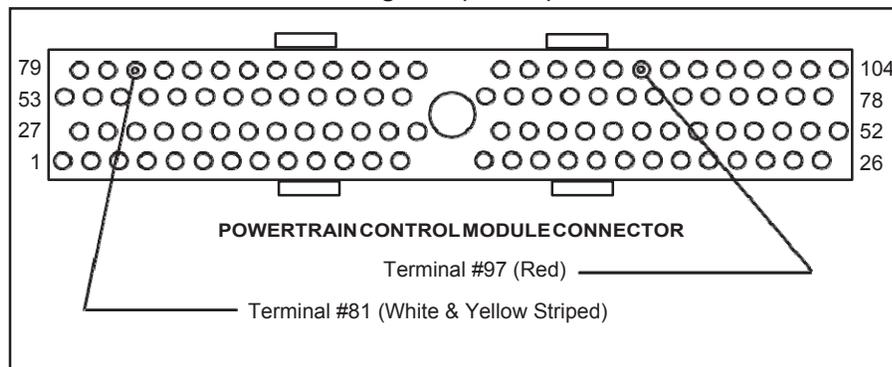


Figure 2 (EEC-V)

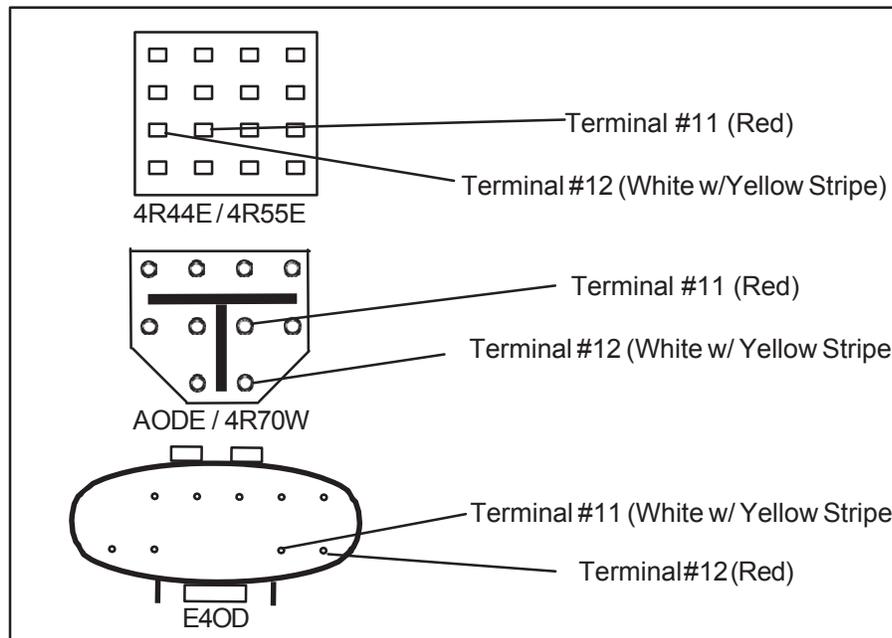


Figure 3 (connection at transmission)

