

3.3 POWERTRAIN INTERFACE MODULE (PIM)

PIM REPLACEMENT

If the diagnostic procedures call for the PIM to be replaced, it should be checked first to ensure it is the correct part. If it is, remove the faulty unit and install the new PIM.

IMPORTANT: To prevent internal PIM damage, the ignition must be OFF when disconnecting or reconnecting power to the PIM.

IMPORTANT: Remove any debris from the PIM connector surfaces before servicing the PIM. Inspect the PIM module connector when diagnosing/replacing the PIM.

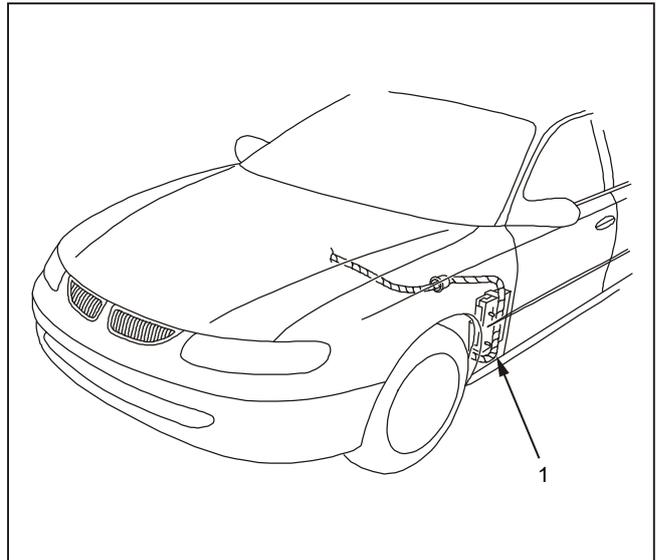
NOTE: Do not touch the connector pins or soldered components on the circuit board in order to prevent possible electrostatic discharge (ESD) damage to the PIM.

REMOVE

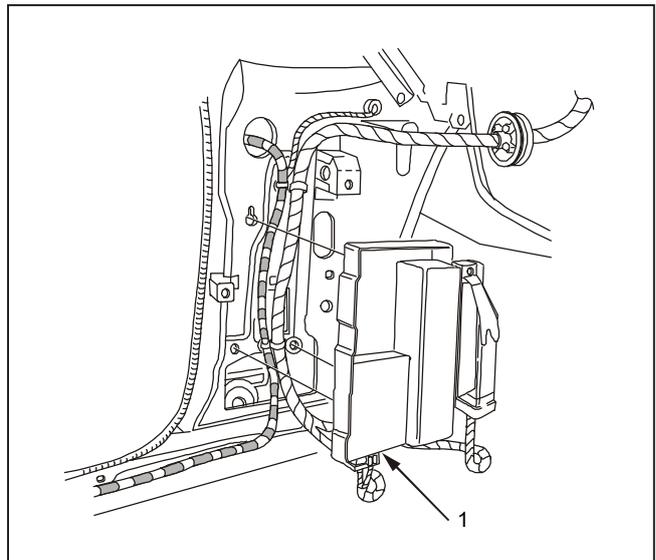
1. Ignition OFF.
2. Remove left hand front shroud panel lower trim assembly (kick panel trim).
3. Remove PIM (1) from mounting bracket.
4. Remove wiring harness connector from PIM.

REINSTALL

1. Install wiring harness connector to PIM.
2. Install PIM to the mounting bracket.
3. Install the left hand front shroud panel lower trim assembly (kick panel trim).



Powertrain Interface Module (PIM) Location



Powertrain Interface Module (PIM)

PCM/PIM/BCM SECURITY LINK

Once the PCM, PIM and/ or BCM have been replaced, the modules must be security linked to each other. If the procedure is not performed, the vehicle will not crank or run.

This linking procedure is found under the BODY CONTROL MODULE of TECH 2 and is performed as follows:

- Connect TECH 2 to DLC and select:
 - Diagnostic / (X) 1999 / VT Commodore / Body / Body Control Module / Security / BCM Link to PCM/PIM.
- The procedure 'BCM Link to PCM/PIM' will first ask to select the installed engine. If V8 GEN III is selected a 'TIS program approve' is required.
- Connect TECH 2 to TIS terminal and select 'Program Approve'.

After returning to the vehicle, select again the linking procedure. BCM and PIM are linked first, followed by the PCM-PIM, which is performed automatically.

For additional information regarding TECH 2 and TECH 2 test modes (including this linking procedure), refer to TECH 2 DIAGNOSIS FOR BCM in [Section 12J-1 Low Series BCM](#) in or [Section 12J-2 High Series BCM](#) of the VT Series II Service Information.

FUNCTIONAL CHECK

1. Start the engine and idle for one minute.
2. Use the Tech 2 scan tool to check for any PIM DTCs
3. If any PIM DTC set, refer to appropriate PIM DTC table.