

1986-93 SVE 70MM THROTTLE BODY & EGR SPACER INSTALLATION - 5.0L

Throttle Body Removal:

1. Raise the hood and ensure the engine is cool to the touch. Disconnect the negative battery cable.

2. Loosen the clamps and remove your air inlet tube. Disconnect the throttle position sensor and pry the sensor free from the throttle cable bracket. Disconnect the EGR vacuum line and unplug the electrical connector. (Figure 1)

3. Unplug the idle air control (IAC) valve connector. Disconnect the PCV hose from the throttle body. Remove the two idle air control bolts and remove the IAC. (Figure 2)

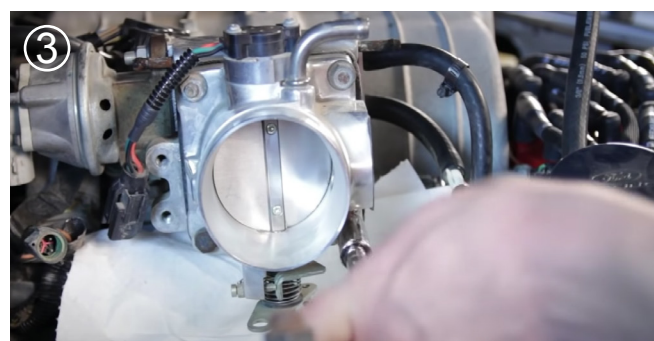
4. Remove the two throttle cable bracket bolts and unclip the throttle cable from the throttle body.
Note: Automatic applications will have to remove the throttle valve kick-down cable from the throttle body lever.

5. Disconnect the EGR spacer coolant hoses. Remove the four throttle body retaining nuts. Then you can remove the throttle body and EGR spacer.
Note: A couple of sharp hits to the throttle body may be needed to knock it loose. (Figure 3)

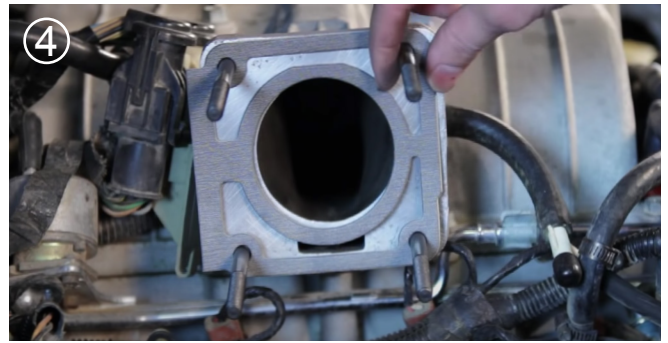
Throttle Body Installation:

Note: If your studs are corroded or broken, remove them from the intake manifold. Clean the threads and the mating surface, and install the new bolts.

1. Remove the EGR valve from the old EGR spacer. Clean the EGR valve mating surface. Position the new EGR gasket onto the new EGR spacer, and install the EGR valve. Tighten the hardware.



2. Position the EGR spacer to intake gasket onto the intake. Slide on the EGR spacer, followed by the throttle body to EGR spacer gasket, and finally the throttle body. (Figure 4)



3. Install the four throttle body retaining nuts and torque these to 12-18 lb-ft. Clip the throttle cable onto the throttle body. Reinstall the two throttle cable bracket bolts. Note: Automatic applications need to reinstall the throttle valve kick-down cable. (Figure 5)



4. Plug-in the EGR connector and reconnect the EGR vacuum line. Hook up the EGR spacer coolant hoses. Reinstall the idle air control valve and plug in the connector. Reconnect the PCV hose.

5. Remove the throttle position sensor from the old throttle body, and install it on the new throttle body. Reconnect the throttle position sensor connector. Reinstall your air inlet tube and tighten the clamps. Reconnect the negative battery cable. (Figure 6)

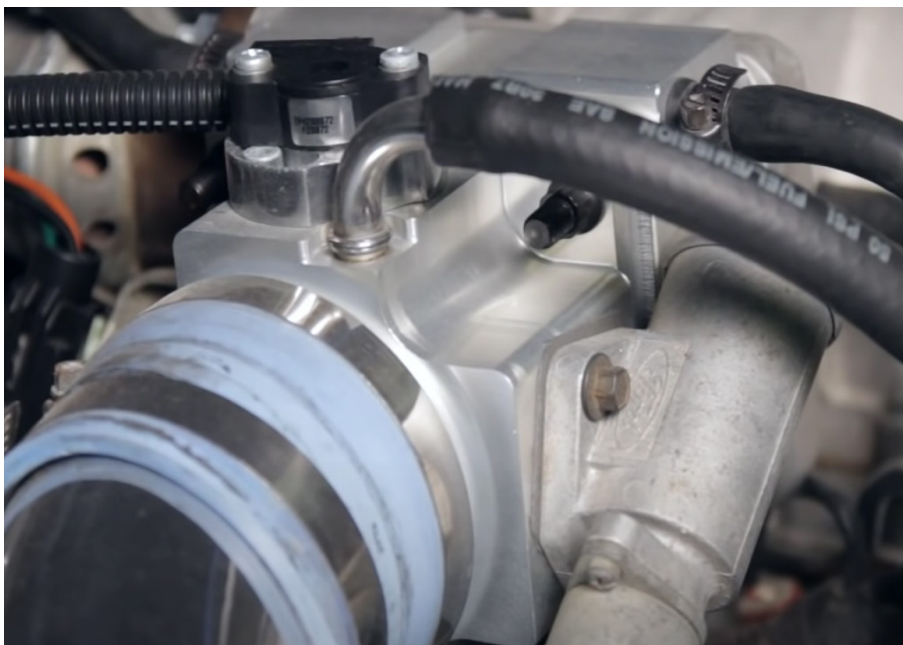
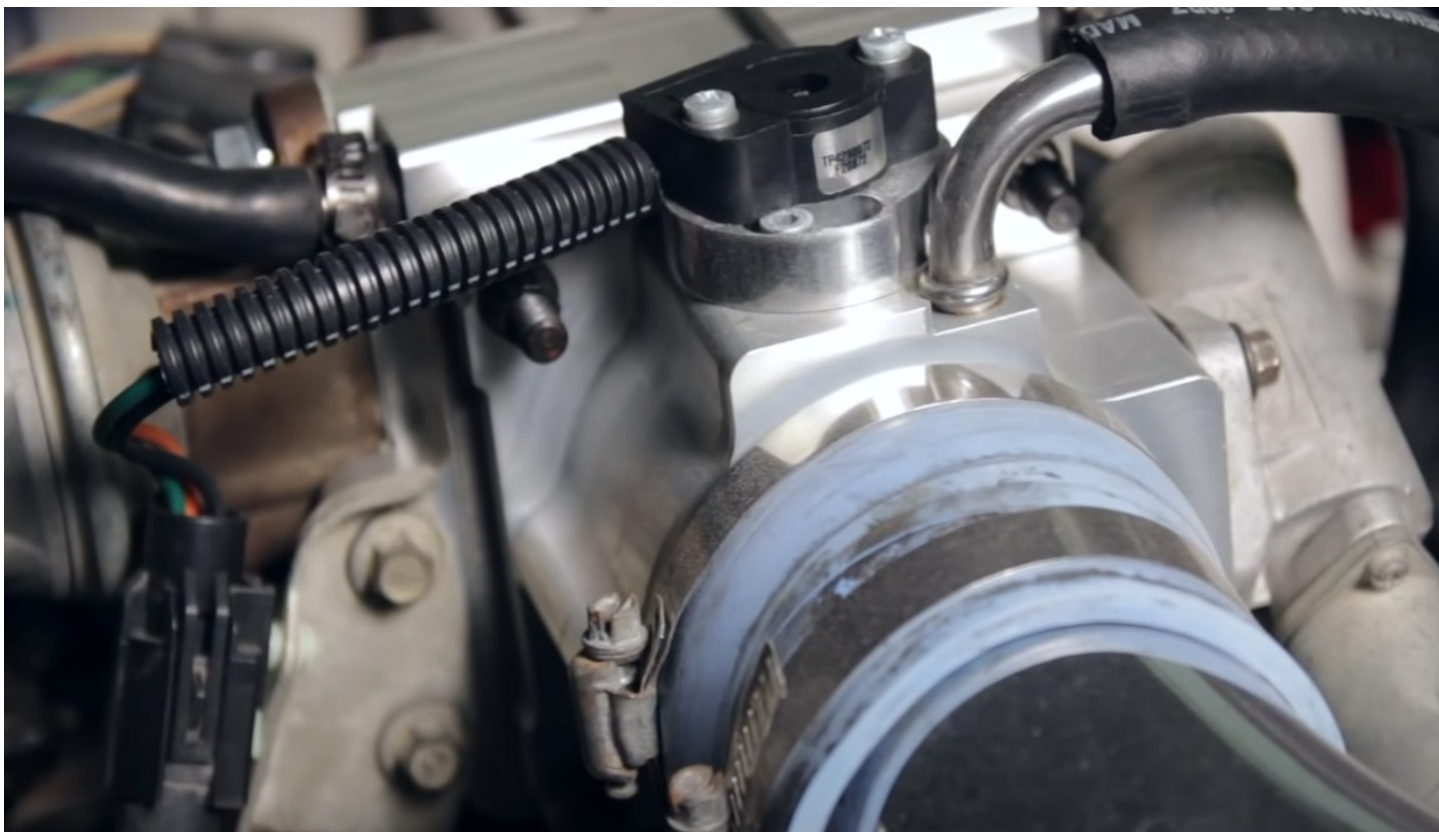


6. Set the idle speed by using the following sequence:

1. Turn the ignition switch to the OFF position.
2. Turn the throttle plate stop screw control 5 turns clockwise from the fully closed position.
3. Disconnect the idle air control (IAC) valve.
4. Run the engine until it is at operating temperature.
5. Turn the throttle plate stop screw counterclockwise until the desired idle speed setting is obtained. Note: Increased idle speed may be required if the engine has been modified.
6. Turn the engine off and reconnect the idle speed control connector.

7. Set the throttle position sensor voltage by using the following sequence:

1. Turn the key to the ON position, but do not start the vehicle.
2. Turn on your Digital Volt/Ohm Meter (DVOM) and set it to DC volts.
3. "Tap" the GY/W (grey/white) voltage feed wire on the TPS with the red lead of the DVOM. Note: Wire color may differ depending on the TPS sensor.
4. Place the black lead of the DVOM on a good grounded source within the engine bay.
5. Loosen the retaining screws on the throttle position sensor and rotate the sensor clockwise or counter-clockwise to make adjustments.
6. The voltage needs to be below 1.0V. Between .75V and .98V is acceptable.
7. Carefully tighten the screws on the TPS & recheck the voltage.



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