

Stack Racing Throttle Body (86-93 5.0L)



The below installation instructions work for the following products:

- [Stack Racing 70mm Throttle Body \(86-93 5.0L\)](#)
- [Stack Racing 75mm Throttle Body \(86-93 5.0L\)](#)



Please read through the instructions carefully before starting this project. Take the time to get all the materials together as well as all the safety equipment.

Throttle Body Kit - Parts Included

- (1) Throttle Body
- (1) Gasket – Throttle Body to EGR Spacer
- (1) Gasket – IAC Position Sensor to Throttle Body
- (1) Rubber O-Ring – TPS Sensor to Throttle Body
- (2) Screws – TPS Sensor to Throttle Body

EGR Spacer Kit - Parts Included

- (1) EGR Spacer
- (1) Gasket – EGR Spacer to Intake Manifold
- (1) Gasket – EGR Spacer to Throttle Body
- (1) Gasket – EGR Valve to EGR Spacer
- (1) Stud – 5/16" x 1 1/2
- (1) Stud – 3/8" x 1 1/2
- (1) Nut – 5/16"-24
- (1) Nut – 3/8"-24
- (1) Washer – 5/16" locking
- (1) Washer – 3/8" locking

Tools Needed

- Standard Ratchet Set
- Phillips Head Screwdriver

Installation:

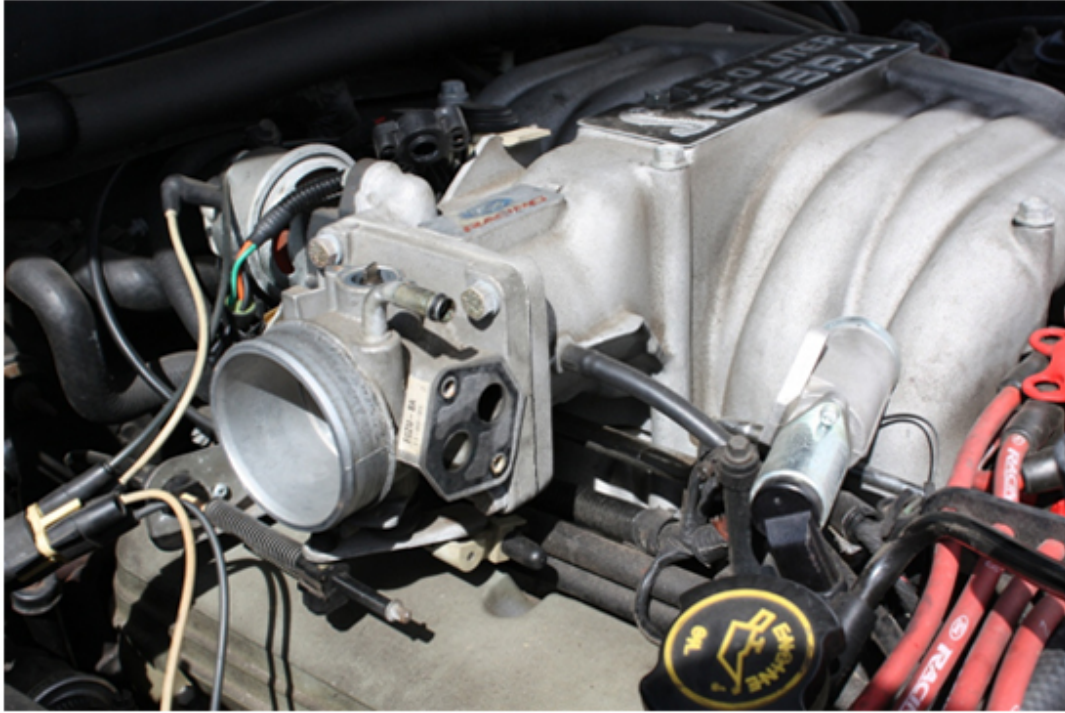
1. Disconnect negative (-) battery terminal.
2. Loosen clamps on upper portion of air inlet duct between the MAF and throttle body and remove duct.



3. Disconnect TPS Sensor and IAC sensor and remove from throttle body. Also remove breather tube from throttle body at this point.



4. Disconnect EGR position sensor from EGR valve. Also remove vacuum line from the EGR valve and carefully remove the two coolant hoses connected to the EGR spacer. Be careful as there may still be some coolant left over in the hoses.
5. Disconnect throttle linkage underneath throttle body.



6. Remove the four nuts that secure the throttle body and spacer to the intake manifold. Slide the throttle body and spacer off of the studs.



7. Remove EGR valve from old spacer and install on new spacer using the supplied gasket.

8. Slide new EGR spacer and throttle body onto studs in this order:
 1. EGR spacer gasket
 2. EGR spacer
 3. Throttle body gasket
 4. Throttle body
- Torque throttle body nuts to 12-18 ft-lbs.



9. Re-install the TPS sensor using supplied o-ring, and re-install the IAC sensor using supplied gasket.



10. Re-install air inlet duct and tighten clamps.



11. Re-install the negative (-) battery terminal and reset the engine's idle speed.

Setting the Engine Idle Speed

1. Make sure ignition is turned OFF.
2. Disconnect the IAC connector.
3. Start engine and let the car warm up to operating temperature.
4. Turn the throttle plate stop screw counter-clockwise until idle is at ~650 rpm. **Note:** Modified engines may require a higher base idle rpm.
5. Turn off the engine and reconnect IAC connector.

Setting the TPS Voltage

1. Turn key to ON position but do not start engine.
2. Using a digital voltmeter, measure the voltage between the green and black wires.
3. The voltage should read between 0.8v and 1.0v. A reading of 0.9 to 0.95 is ideal.
4. The TPS can be adjusted by loosening the two screws in on the throttle body and rotating it.
5. Once the proper setting is achieved, tighten the screws.
6. Re-check voltage after screws are tightened to make sure the TPS has not moved.

Installation instructions provided by Stack Racing

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