



Throttle Body Installation Instructions for GM LS Race Series

860007 (Silver) & 860008 (Black) – 90MM
860001 (Silver) & 860004 (Black) – 92MM
860002 (Silver) & 860005 (Black) – 102MM

Ford 5.0L Coyote Race Series

860009 (Silver) & 860010 (Black) – 90MM

Kit Contents:

□ (1) Throttle Body □ (4) Throttle Body Mounting Bolts □ Installation Instructions

Installation Instructions:

1. Please read through the entire instruction sheet to familiarize yourself with the parts of the vehicle the installation will cover.
2. Disconnect the negative battery terminal.
3. Remove the air inlet tube, all vacuum hoses, and electrical connectors from the stock throttle body. Mark all hoses and wires to ensure that they are installed correctly on the new throttle body.
4. Disconnect the throttle linkage by opening the throttle manually and slipping the cable from the cam groove on the linkage.
5. Remove the (x4) nuts securing the throttle body to the intake manifold and remove it.

FOR GM LS ENGINES:

When using Holley EFI LSx Main Wiring Harnesses

Necessary Wiring changes to work with Chrysler style IAC (Holley PN **543-105**)

1. Remove the following pins from the J1A ECU connector (34 pin):

B1 – Purple/Blue wire

B8 - Purple/White wire

To remove pins, push up on the single white “tab” on the connector. This will allow the pins to be pulled from the back of the connector. No tools are needed other than a small screwdriver/pick to push the white tab up.

NOTE: The wire colors indicate a purple wire with the accompanying color that is a stripe color on the purple wire

2. Re-insert the pins into the ECU as follows:

B1 – Purple/White wire

B8 – Purple/Blue wire

The end result is swapping of pins A and C of the IAC connector

When using a factory GM ECU/wiring harness

Wiring changes needed to work with Chrysler style IAC (Holley PN **543-105**):

- 1) The wires will have to be cut near the IAC and re-connected back together. It is advised to use some type of butt-splice connector. Using masking tape, or something similar, label each of the following wires as follows. Make sure the label 1, 2, 3 is on the end connected to the ECU (not on the side that will remain with the IAC connector). The pin letters are on the IAC connector (A-B-C-D).

Pin A – Label “1”

Pin B – Do NOT cut or label, this wire is correct as-is

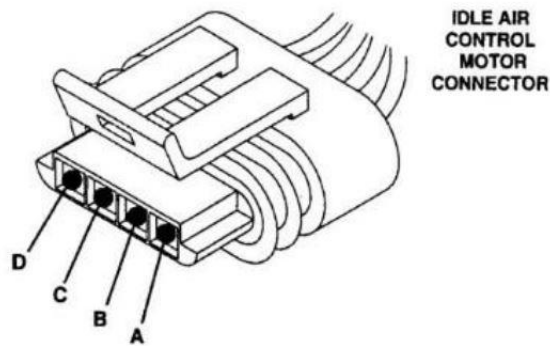
Pin C – Label “3”

Pin D – Do NOT cut or label, this wire is correct as-is

- 2) Cut these wires (Pin A, C) a short distance near the IAC connector, such that they can be re-connected with the butt-splice. Reconnect them together using the following:
 - Connect Pin A to wire labeled “3”
 - Connect Pin C to wire labeled “1”

The end result is swapping pins A and C of the IAC connector

GM Wiring Pin Out Instructions:



CAV	FUNCTION
A	IAC #4 Driver
B	IAC #3 Driver
C	IAC #2 Driver
D	IAC #1 Driver

FOR FORD COYOTE ENGINES:

6. This IAC will not work with factory OEM harness or Holley Plug-N-Play Ford EFI harness. Will work in conjunction with Holley EFI universal wiring harness ONLY. Our universal EFI harness can be configured to work with P/N **543-105** IAC.

7. Attach the IAC and TPS to the new throttle body. Make sure each O-ring is in the groove and does not slip out while installing. Torque bolts to **18 in/lbs. (1.5 ft/lbs)**.

8. Make certain the gasket-mating surface on the intake manifold is clean and free of debris. Using the included bolts, attach the throttle body to the intake manifold. Torque nuts and bolts down to **89 in/lbs (7 ft/lbs)**.

9. Slip the throttle cable on the linkage arm.

10. Observe the throttle body (while an assistant presses and releases the gas pedal) to ensure that the throttle blade opens and closes while also operating smoothly.

11. Re-attach the air inlet tube, all vacuum hoses, and electrical connectors on the new throttle body.

12. Re-connect the negative battery terminal.

13. Start the engine and check for loose connections or vacuum leaks, etc.

14. After the engine is warmed up, check the idle speed (refer to owner's manual).

15. Double-check all fasteners, clamps, and electrical connections to ensure they are all secure.

Any questions?

Please contact Technical Service: **1-866-464-6553** or **270-781-9741**.

For online help, please refer to the website: **www.holley.com**.

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The regulation of emissions production, noise levels, and safety standards is undertaken by the federal government, each of the fifty state legislatures, and by many local municipalities, towns, and counties.

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