Congratulations on the purchase of your Summit Racing® 103mm LS Series Electronic Drive-By-Wire Billet Throttle Body.

Bill Of Materials:

(1) 103mm LS Series Electronic Drive-By-Wire Billet Throttle Body
(4) 6M-1.0 x 40 Bolts

Important Information:

Carefully read these instructions before installing your Summit Racing® 103mm LS Series Electronic Drive-By-Wire Billet Throttle Body. If you are not qualified or experienced at performing this type of installation, it is highly recommended that you this product installed by a qualified automotive mechanic. These instructions contain warnings that must be observed otherwise your vehicle could be rendered unsafe and not street legal. State and Federal regulations concerning Emissions, should be checked in your area.

About:

This product is designed and intended to be a performance upgrade and increase airflow to your LS powered engine. It uses a factory 6 pin style connector. Before attempting this installation, please confirm you are using the correct wiring harness.

Installation Instructions for 103mm LS Series Electronic Drive-By-Wire Billet Throttle Body
1. Disconnect the negative terminal from the battery

2. Disconnect and remove your factory or aftermarket intake system connected to your existing throttle body. **Please note:** Your new Summit Racing® 103mm LS Series Electronic Drive-By-Wire Billet Throttle Body requires a 4” intake tube or larger diameter in order to achieve maximum airflow to the inlet.

3. Disconnect the wiring harness from the existing throttle body. Confirm it is a 6-pin design before moving forward.

4. Take out the throttle body by removing the (4) bolts fastening your existing throttle body to the manifold. **Please note:** Store your original throttle body and bolts removed as they are no longer used.

5. Install your new Summit Racing® 103mm LS Series Electronic Drive-By-Wire Billet Throttle Body using the newly supplied 6M-1.0 x 40 **Please note:** A gasket is supplied with this kit but is not required if you are running the factory O-ring in the manifold.

6. Re-install the components removed in Step 2 taking into consideration the note on proper sizing of the inlet.

7. Re-connect the negative terminal to the battery.

8. Perform the engine idle re-learn procedure list below.

   **Engine Idle Re-Learn Procedure**

   After installing Your new Summit Racing® 103mm LS Series Electronic Drive-By-Wire Billet Throttle Body you will need to complete the idle re-learn procedure for your vehicle’s computer to maximize drivability and performance. Failure to perform this procedure may result in poor drivability and a decrease in performance. **Please note:** This procedure is intended for factory ECU operation. If you are running any aftermarket ECU systems, simple idle tuning may be required.

   1. **Key ON - Engine OFF:** Depress throttle to wide open (full throttle) and then release. Slowly perform this procedure 3 times. This spans the throttle blade from 0 to 5 volts.

   2. **Start your vehicle's engine while stationary** (It may take several attempts and some throttle input.

   3. **Allow your vehicle to run for 5 minutes or until reaching operating temperature.** (Your engine RPM will gradually decrease to normal idle)

   4. **In some instances, custom tuning may be required to perfect the idle.** If so please consult your local GM tuning expert.