



## Electronic Throttle Control (ETC) Throttle Body Part # 1757

### INSTALLATION INSTRUCTIONS

#### !CAUTION!

*This installation involves disconnecting coolant hoses. Be sure to give the engine plenty of time to cool before beginning.*

#### Included in this Kit:

BBK throttle body, 3 Allen head mounting bolts, and 4 Phillips head screws, Puller tool (2 Allen heads, and 2 self tapping screws).

#### Tools Required:

1/4" Ratchet	6" Extension
4mm, 8mm, and 9mm Short Sockets	10mm Deep Socket
T-25 Torx	5mm, 4mm Allen Wrenches
Pliers	Vise Grips (recommended)
Phillips Screwdriver	Drill with a 3/16" Bit

#### Removal

- Step 1** Disconnect negative (-) battery terminal.
- Step 2** Remove decorative cover from top of intake.
- Step 3** Separate the coolant hose retaining clip from the bottom of the intake air inlet hose, loosen the hose clamps at the throttle body, and at the mass air meter. Remove the intake hose assembly from the vehicle.
- Step 4** (See Photo) Unplug the throttle body electric motor by removing the gray colored locking clip, and then squeezing the tab on the wiring connector while pulling it from the motor housing.
- Step 5** (See Photo) Using pliers remove the coolant pass through hoses from the bottom of the throttle body by squeezing the tabs on the hose clamps together and pulling the hoses away from the throttle body.



Removal Step 4



Removal Step 5

#### NOTE

*To prevent the spillage of coolant, we recommend gently clamping vise grip type pliers onto the hoses before removing.*

- Step 6** Unbolt and remove the throttle body.

#### NOTE

*Be careful not to damage the throttle body motor housing as you will be re-using it.*

- Step 7** Using a 4mm socket remove the throttle body mounting studs from the intake manifold.



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## Assembly

**Step 1** (See Photo) Using a drill with a 3/16 bit **CAREFULLY** drill out the rivets that attach the throttle body motor housing to the throttle body.

**Step 2** Remove the motor housing from the throttle body by gently and evenly prying the plastic housing up from the throttle body.

**Step 3** (See Photo) Remove the round idler gear from the throttle body.

### NOTE

*Rotation orientation is not critical on assembly.*

**Step 4** Using a T-25 Torx, unbolt the motor from the throttle body.

**Step 5** (See Photos) Using the puller tool remove the motor.

### NOTE

*To use the puller; lay it flat over the top of the motor. Put the self-tapping screws through the small puller holes and tighten them with a 7/16 socket into the small holes on top of the motor until the screw heads touch the puller. Insert the 4mm Allen heads into the threaded holes on the puller and tighten them evenly against the throttle body. This will pull the motor straight up and out.*

*The BBK throttle body is designed to accept the motor with or without the circular clip*

**Step 6** Install the motor into the BBK throttle body and tighten the Torx bolts.

**Step 7** Install the idler gear onto the BBK throttle body insuring engagement onto the other gears.

**Step 8** Install the motor housing, be sure to note the electrical contacts. Be careful not to bend them while sliding the housing into place. Insert and tighten the supplied Phillips head screws around the housing.

## Installation

**Step 1** Connect the coolant pass through hoses to the BBK throttle body.

**Step 2** Using a 5mm Allen wrench and the supplied bolts, install the throttle body onto the intake manifold.

**Step 3** Plug in the throttle body motor wiring connector, and re-insert the gray retaining clip.

**Step 4** Re-install the intake air inlet hose and attach the coolant hose to the locating clip.

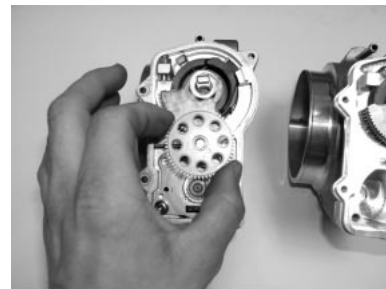
**Step 5** Re-install the decorative intake cover.

**Step 6** Connect negative battery cable.

**Step 7** **Start your engine and let it idle completely uninterrupted for approx. 20 minutes before driving. This will give the engine management computer time to adapt to the BBK throttle body at normal operating temperatures.**



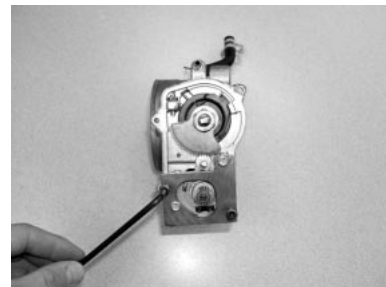
Assembly Step 1



Assembly Step 3



Assembly Step 5



Assembly Step 5