



# Job Aid –Throttle Body/Plate Cleaning

Reference No.: GOPRO TBPC 2014

**Carbon, varnish and sludge deposits tend to accumulate around the throttle body and plate.**

- These deposits are caused mainly by combustion by-products drawn in through the PCV system and the EGR system.
- These deposits reduce air flow, which is critical during warm up, idle and deceleration. Thorough cleaning can alleviate many of these pesky drivability symptoms.



## **Cautions:**

- Never spray cleaner into mass air flow sensors (see illustrations, left), honey combs, or sensitive electronic parts.
- Use cleaner sparingly, a little goes a long way!
- Never spray throttle body cleaner into the engine while it is running.
- Always use approved throttle body / air intake cleaner, never use carburetor cleaner.
- Remove throttle pedal depressor before starting vehicle.
- Always use Safety glasses



**Remove the air intake boot from the throttle body.**



**With Engine Off,** use the throttle pedal depressor to hold the gas pedal against the floorboard. This will open the throttle plate all the way to facilitate complete cleaning.

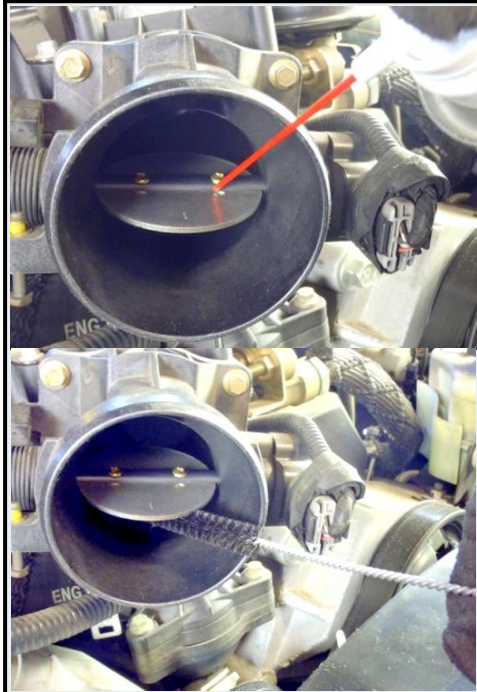
**Tip:** On “drive by wire” vehicles (vehicles that don’t have a throttle cable), leave the key in the “on” position without starting the engine.

Use the throttle depressor to hold the gas pedal to the floor.

The throttle stepper motor will open the throttle plate all the way on most vehicles.



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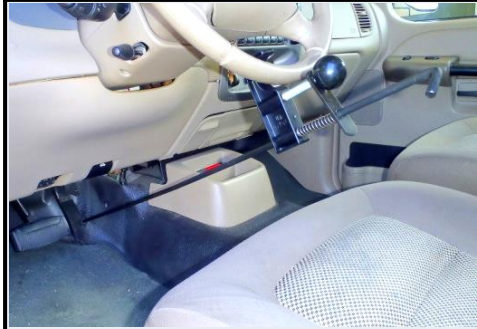
## Throttle plate and body cleaning

- Lightly spray the throttle plate and surrounding throttle body area with approved cleaner. Allow cleaner to soak for 30 seconds.
- Scrub deposits with a soft bristle throttle brush or old tooth brush (never use a wire brush), then wipe clean with a soft, clean shop rag. Very dirty throttles may require duplicate cleaning.



## Reinstall throttle boot

- Make sure the throttle boot is clamped around the entire diameter of the throttle body. If not, it will result in un-metered air entering the engine. This can create stalling, check engine lights and general poor performance.



## Remove throttle depressor before starting the vehicle!



**Start the vehicle and purge any residual cleaner from the engine before proceeding with the fuel and induction service.**