

**NOTE:** Idle will run high on some vehicles but will readjust once the ECU learns to properly control the idle (this can take up to 800 miles on some vehicles).

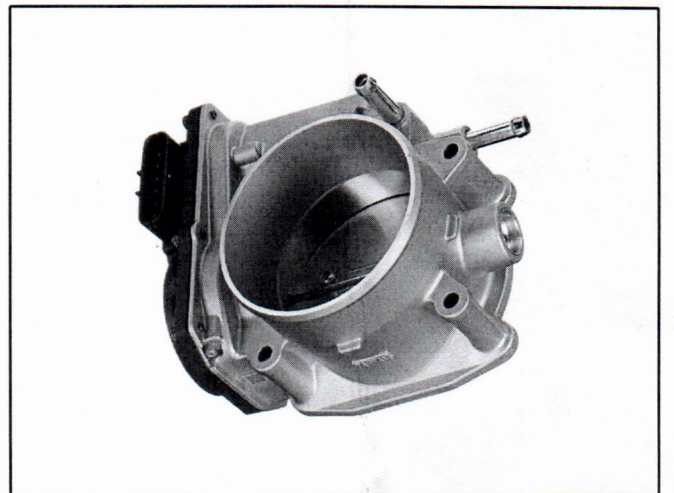
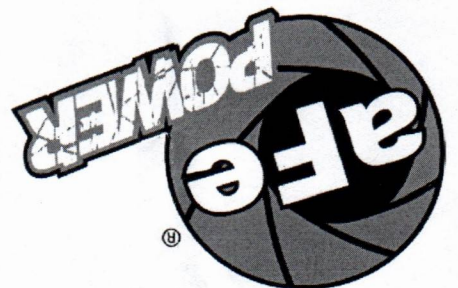
Warranty Information available at <https://atepower.com/contact#warranty>

**Emissions Disclaimer:** This product is not currently CARB exempt and is not available for purchase in California or for use on any vehicle registered with the California Department of Motor Vehicles.

# **advanced FLOW engineering**

**Instruction Manual P/N: 46-39103**

**76mm Throttle Body for 1GR-FE Single VVT-i Engine**  
 Toyota 4Runner 2003-2009 V6-4.0L 1GR-FE  
 Toyota FJ Cruiser 2007-2009 V6-4.0L 1GR-FE  
 Toyota Tacoma 2005-2015 V6-4.0L 1GR-FE  
 Toyota Tundra 2005-2011 V6-4.0L 1GR-FE



| Qty. | Part Description                      |
|------|---------------------------------------|
| 1    | 76mm Throttle Body                    |
| 4    | M6 x 1.0mm x 16mm Screws, Socket Head |
| 1    | Throttle Body Adaptor, 65mm to 76mm   |
| 1    | Throttle Body Gasket                  |

- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- For technical support please call 951-493-7185.
- Ensure you have all necessary tools before proceeding.
- Ensure that your vehicle is cooled off before proceeding.
- Retain factory parts for future use.

1. Disconnect the battery.
2. Remove the (2) nuts securing the engine cover and remove the cover.
3. Remove the air intake system from the vehicle.

**NOTE:** It is highly recommended to install an aFe Cold Air Intake system as the OEM intake tube coupling will not stretch over the larger size throttle body and special brackets will be needed to offset the air cleaner assembly.

4. Pinch the coolant by-pass hoses with a hose pinch plier and disconnect the hoses.
5. Disconnect the electrical connector from the factory throttle body.
6. Remove the four (4) screws retaining the throttle body. Put these aside to reuse later.
7. Remove the factory throttle body.
8. Clean the gasket surface at the intake manifold and replace the gasket if necessary (not supplied).
9. Install the supplied aFe Throttle Body Adaptor onto the intake manifold using the supplied four (4) M6 x 1.0mm x 16mm socket head cap screws. Tighten to factory specifications (9 ft/lbf or 11 Nm).
10. Install the supplied aFe 76mm Throttle Body and Gasket onto the aFe Throttle Body Adaptor using the four (4) screws removed earlier. Tighten to factory specifications (9 ft/lbf or 11 Nm).
11. Connect the electrical connector to the aFe 76mm Throttle Body.
12. Connect the coolant by-pass hoses.
13. Install the air intake system back into the vehicle.
14. Reinstall the engine cover.
15. Reconnect the battery.
16. Installation is now complete.

**NOTE: Check all screws, clamps, and connectors are secure after 100-200 miles**