



**TWIN 56mm THROTTLE BODY #3501**  
**1987-96 FORD F-SERIES 302/351w**  
**TWIN 61mm THROTTLE BODY**  
**1987-03 FORD F SERIES 460 #3502**  
**1987-96 FORD F SERIES 302/351w #3503**

## INSTALLATION INSTRUCTIONS

- STEP 1** Disconnect negative cable
- STEP 2** Disconnect air inlet, vacuum and water passage lines from stock throttle body. Disconnect The throttle cables from the throttle body linkage.
- STEP 3** **302/351 engines:** Disconnect the idle bypass electrical connection on the driver side Of throttle body.  
**460 engines:** Idle bypass valve is located on intake manifold and does not require Disconnecting.
- STEP 4** Remove the four (4) mounting bolts attaching the throttle body to the intake manifold. Remove throttle body and old gasket. Clean intake surface of old gasket material.
- STEP 5** Remove Throttle Position Sensor (TPS) from old throttle body and install on the BBK Throttle body.  
**302/351w engines:** Remove and reinstall Idle Air Bypass Solenoid onto the BBK throttle Body using supplied gasket.
- STEP 6** Reinstall BBK throttle body in reverse order. If any vacuum ports are not used in your Application, simply install a rubber vacuum plug on the unused port/s.
- STEP 7** With everything reconnected, start engine and let it come up to temperature.
- STEP 8** Shut off engine and disconnect the Idle Air Bypass electrical connector.
- STEP 9** Restart engine and manually adjust idle to desired RPM using the idle set screw. Shut off engine.
- STEP 10** Using a voltmeter, turn ignition key to the ON position and read the voltage at the GREEN WIRE at the TPS sensor. Voltage reading should be .8 – 1.0 volts.  
 To readjust TPS to get that reading, simply loosen the TPS mounting screws and turn TPS To set voltage.
- STEP 11** Reconnect the Idle Air Bypass electrical connector.

***These throttle bodies are 50 state legal and carry California CARB EO# D-245-15 (effective 2/25/10)***

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IMPORTANT- All appropriate safety equipment and gear must be used during the installation of this or any BBK Performance products or any time you work on a vehicle. BBK Performance Inc. accepts no responsibility for injuries or damage caused by or during the installation of this product.