

## 2012 -Up 3.6L Throttle Body Spacer (JK) 2dr, 4dr

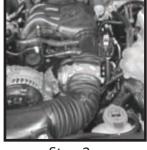
Item List:

- (1) Aluminum Spacer
- (1) Gasket
- (2) M6 x 60 Shank bolts (Long)
- (2) M6 X 55 Shank bolts (Short)
- (4) M6 Flat Washer



- Step 1: Engine Must Be Cool. Remove engine cover
- Step 1: unscrew 3" hose clamp at air intake box and throttle body.
- Step 3: Remove the (2) M10 bolts securing intake tube to top of radiator. Place off to the side.







Do not disconnect air sensor.

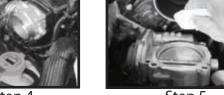
Step 1

Step 2

Step 3

- Step 4: Remove (4) T-20 Torx head bolts from throttle body. DO NOT DISCARD. Bolts should be reused if vehicle is to be returned to factory configuration at a later date. .
- Step 5: Remove throttle body and set below intake. Clean intake and throttle body.
- Step 6: Place Spacer and gasket onto intake manifold with notch facing toward the front of the vehicle.

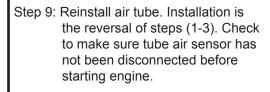








- Step 7: Place Throttle body onto spacer making sure gasket is seated correctly in throttle body flange. Install the top M6 x 55 (short) shank bolts and washers. Start threads but do not tighten.
- Step 8: Install lower M6 x 60 (long) shank bolts and washers. Start threads and inspect gasket position. Carefully tighten bolts working in a cross pattern. Snug bolts but DO NOT OVER TIGHTEN.









Step 8



Step 9

RUGGED RIDGE FUEL SYSTEMS THROTTLE BODIES