

62mm Throttle body kit installation instructions

62mm Throttle Body Kit includes:

One 62mm throttle body
Two stainless steel throttle plate screws

One 62mm throttle plate
One new throttle body gasket

Time for install:

Two hours

Tools required:

Torx bit driver T20 (some require tamper proof version)
10mm socket & ratchet (to remove throttle body)
Hacksaw

Allen wrench 3/32"
Metal file

Suggested items:

Safety glasses
Grease (high temp)

Gloves,
Loctite.

Carburetor cleaner

Suggestions:

Please read the instructions before starting this job. If you have any questions, please contact us (415-225-7678). This throttle body is a kit that requires work from you to install, please don't be afraid to ask if you have a problem.

Some factory throttle bodies use a lot of Loctite on the sensor screws which can make the removal quite difficult. If this is a problem, we strongly recommend starting this job after you have driven your Jeep. The heat will aid in the removal of the screws on the throttle body. You may also place the throttle body in your oven at 250°F to aid removal of screws.

Please **DO NOT** use any silicon sealant or silicon oils on or near the air intake or throttle body. Regular silicon sealant and silicon oil will cause damage to the O2 sensors. We recommend no use of sealant, but if you do make sure the sealant is marked "O2 Sensor Safe."

Instructions:

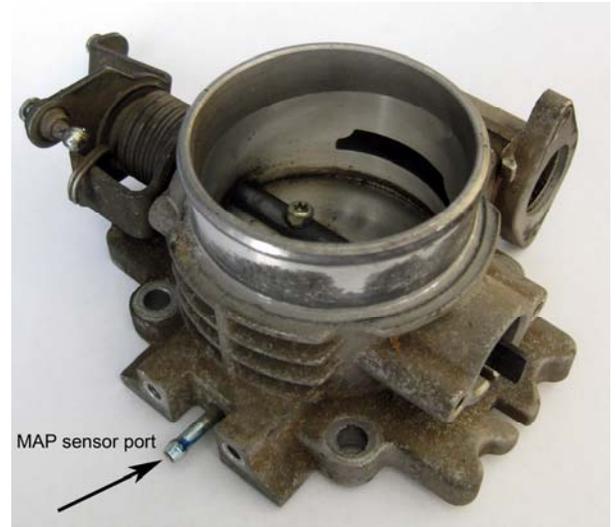
Step 1: Remove air intake tube and disconnect the connectors from the sensors. (The connectors will come off easier if they are clean. If necessary use a little WD-40 or equivalent to clean off the connectors).

Step 2: Remove the four 10mm bolts holding down the throttle body to the manifold. Remove throttle body and gasket.

Step 3: Place a rag over the opening on the manifold to prevent debris from falling in then remove sensors from the throttle

Step 4: Your throttle body should now be stripped like the photo below. Note: not all throttle bodies will have a port for the MAP sensor. (See picture 1)

Step 5: Locate the 4 screws on the IAC housing & remove. If you do not have a tamper-proof T-20 bit you can take a punch and knock out the center tip on the screw. Once the tip is removed, you will be able to use a standard T-20 Torx bit to remove these screws. Sometimes these screws are tight and require additional heat to loosen. If necessary you can place the throttle body in the oven or carefully use a torch on the corners of the IAC housing. Do not force these screws out or use a drill because you may break off the heads. If they are frozen, please feel free to contact us for help. (See picture 2)



Picture 1



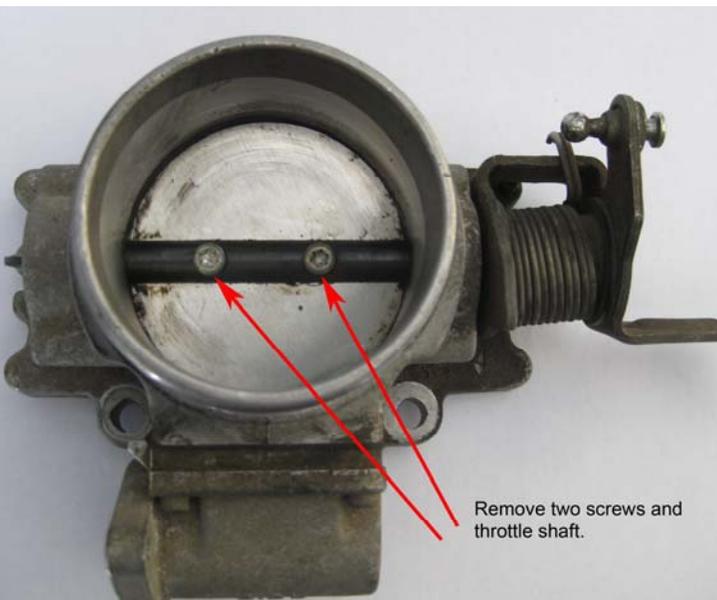
Picture 2

Step 6: Carefully remove the IAC housing from the rest of the throttle body. This will be a good time to clean out the housing with carburetor cleaner. Pay special attention to the gasket. This gasket will be reused for the install on the new throttle body housing. If you should damage this gasket you may use a little O2 sensor safe sealant to patch up the gasket.

Step 7: Install the IAC housing & gasket to the new throttle body and tighten screws. **DO NOT OVER TIGHTEN SCREWS.** Screws only require a little torque (10FT/LBS) or just tighten by screwdriver (See picture 3).



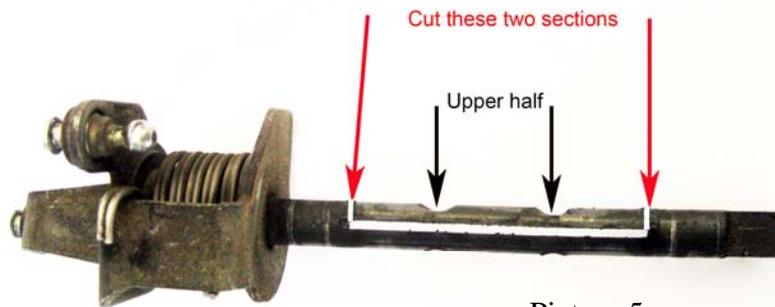
Picture 3



Step 8: Remove the two screws holding down the stock throttle plate. Once removed you may now turn the throttle shaft to remove the throttle plate. When the throttle plate is removed you will be able to remove the throttle shaft by just pulling the throttle shaft out (See picture 4).

Picture 4

Step 9: The throttle shaft will need the upper section cut off with a hacksaw. Please make sure you are cutting the correct part of the throttle shaft as shown in the picture. The upper section that will be cut and have a pocket area that is quite different from the lower section. When cutting away the upper section take care not to cut into the lower section. You may want to stick in a thin piece of metal or cardboard to protect the lower surface. Once the upper part is cut away it should look like the photo below. **Double check this step and take your time. It is always easier to remove metal then to add metal** (See picture 5).



Picture 5

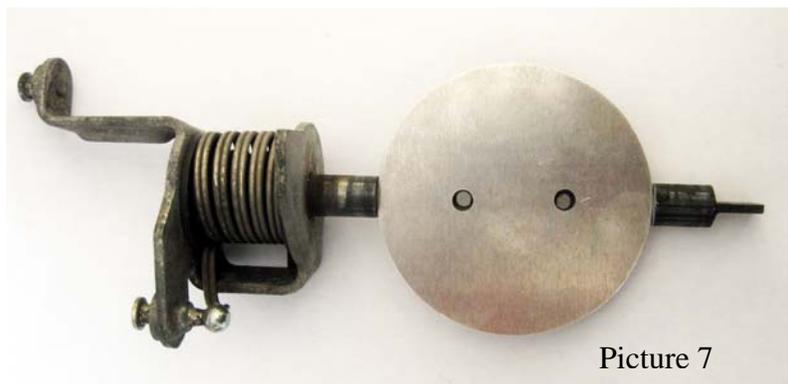


Picture 6

Step 10: Now that the upper section of the shaft is removed, use a file and smooth the cut edges. You may want a file that is smooth on the sides to make sure it will not remove material from the lower section. Try to square both sides as much as possible (See picture 6).

Step 11: Take the new throttle plate and check the fit to the throttle shaft. If the plate is too tight you will need to remove more material using your file. The fit should be very close and not much filing will be required. Do not attach plate. (See picture 7).

Step 12: Once the new throttle plate fits on the shaft, smooth up all the edges. You may want to touch up the exposed metal with a little paint or gun bluing. This is also a good time to clean the shaft with carburetor cleaner and inspect the parts for wear.



Picture 7

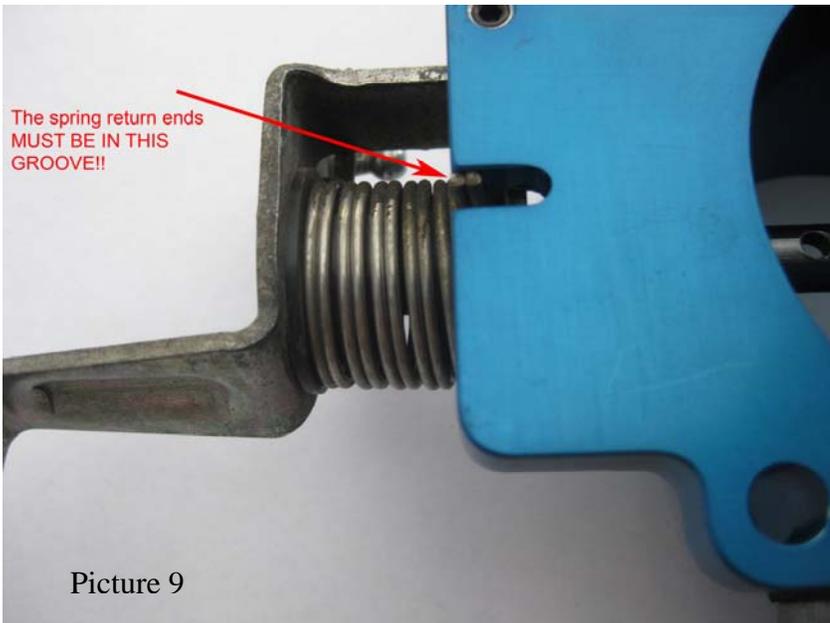
Step 13: Apply some grease on the new throttle body to the two new roller bearings. Make sure you get some grease on all the rollers. A thin coat on the throttle shaft will help the install also. We recommend using high temp grease and a toothpick to apply grease on the rollers.



Throttle cable attach point

Picture 8

Step 14: The throttle shaft is now ready to be installed. When looking at the lettering on the throttle body, the attach points for the throttle cables will be to the left. Make sure the throttle shaft is placed the correct way (See picture 8).



Picture 9

Step 15: Make sure the spring return is in the correct position before sliding your throttle shaft in all the way. The end of the spring will slightly stick out and need to fall into the spring groove as noted in the picture below. **If the spring end is not in this groove it will not work correctly and may cause your throttle can get stuck open.** (See picture 9).

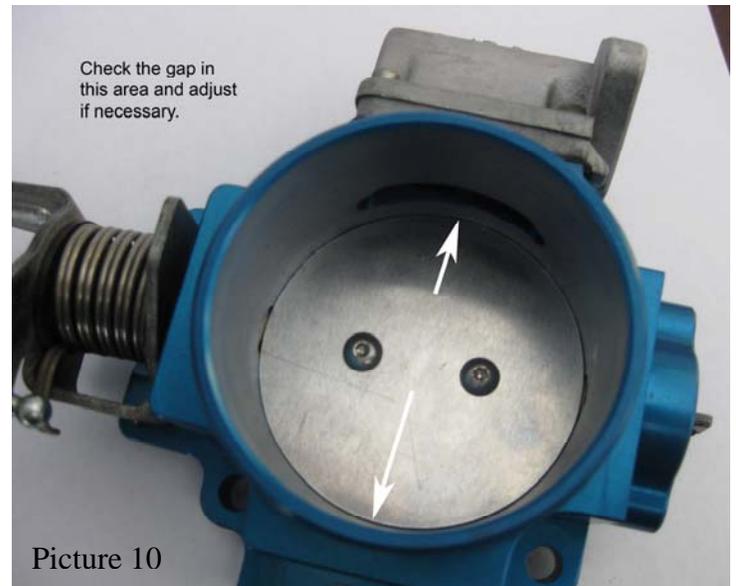
Step 16: Slide the throttle shaft in all the way. If the shaft is a little tight, you may twist the shaft if necessary. Once the shaft is all the way in you should feel the spring return pull the shaft back to the closed position. There should be no binding or drag on the shaft. If there is

any drag, binding or lack of spring return, double check the spring tabs or contact us for help.

Step 17: With the shaft in place and at the closed position place the new throttle plate on the shaft and install the new screws. Do not tighten the screws all the way because you will want to check the alignment of the plate and adjust the throttle opening. Tighten the screws enough to hold the throttle plate in place

Note: On some shafts the screws may be tight so work the screw in: Turn the screws until they are tight and then back off the screw one turn and then start tightening again. Repeat this process until the screws are down).

Step 18: Check the throttle plate and make sure it is not tilted to one side. You may open the throttle a little to wiggle it if necessary. Once the plate is centered, tighten down the screws and check for binding. (see picture 10).

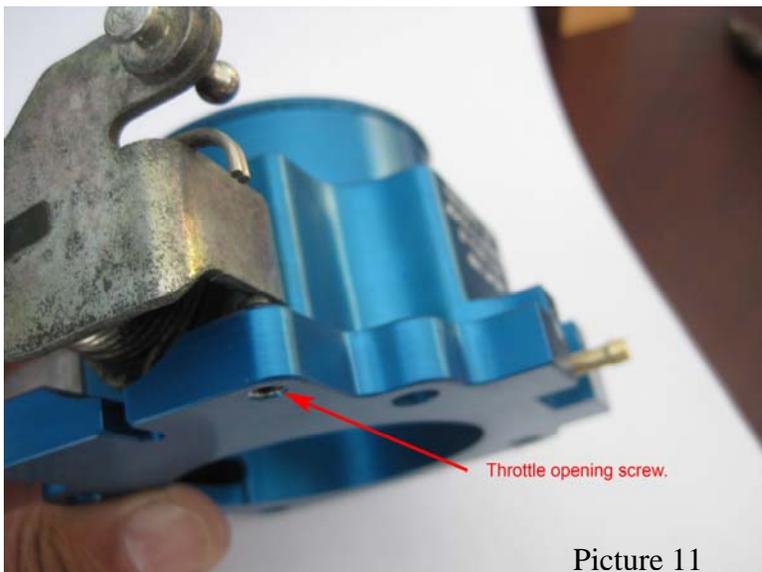


Picture 10

Let the throttle rest and slowly open the throttle. The opening should be smooth and not feel gritty. If it feels like the throttle plate is scraping the sides you will need to adjust either the plate or the set screw on the throttle body (See picture 11).

Step 19: Once the throttle plate is in proper position secure the throttle plate screws with a little Loctite. Make sure the screws are tight and properly holding down the throttle plate.

Step 20: Re-install sensors and tighten screws.



Picture 11

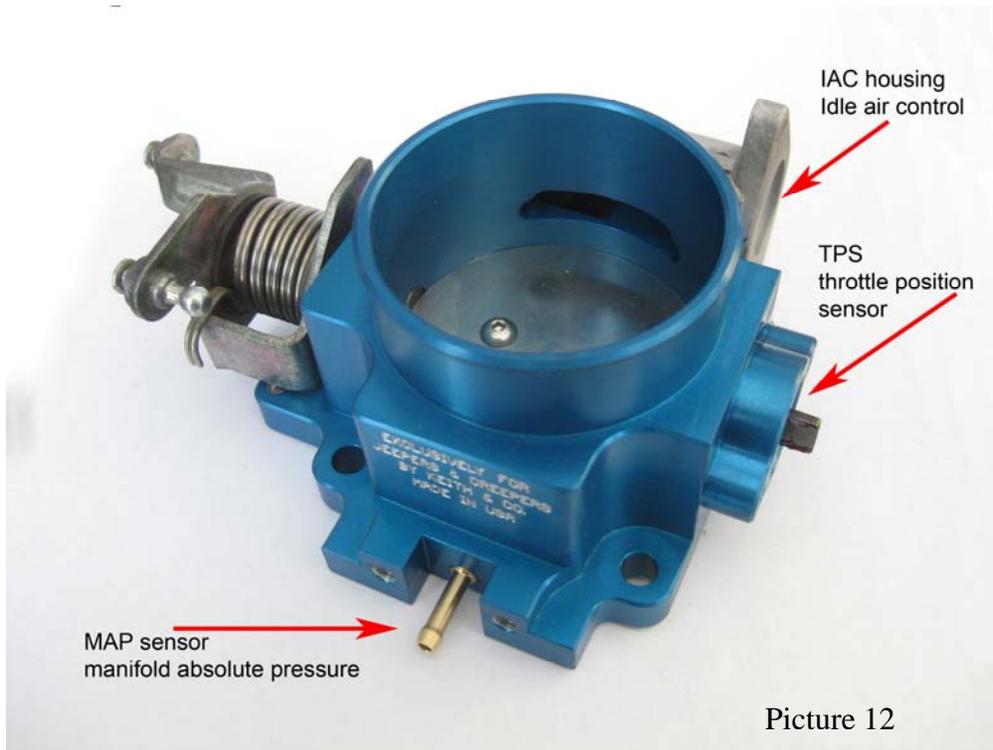
Step 21: Your throttle body is now ready to be installed on the vehicle. Re-install throttle body and gasket to the manifold. No sealant is required and do not over tighten the four bolts holding on the throttle body. Torque the bolts to 18FT/LBS.

Step 22: Re-attach throttle cables and sensors. Re-attach air intake.

Step 23: Re-connect the negative side of the battery and start engine.

Step 24: Check engine operation. You may want to let the motor idle for about five minutes in order for the computer to read your new throttle body. During this time check throttle operation by stepping on your gas pedal to make sure it's smooth and the spring return brings the engine back down.

Your installation is complete (See picture 12). Pack your tools and old throttle body parts. If need be, the old throttle body may be re-used even with the modifications done to the throttle shaft. Just remove the parts back to the stock throttle body and use the stock throttle plate.



Thank you for your purchase of our 62mm throttle body. We have designed this throttle body to offer the best performance, value and quality possible. We are proud to have an item "Made in the USA" and we hope you will be happy with this throttle body for many years to come. If you have any questions regarding our throttle body please let us know.

*Jeepers and Creepers Crew
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