

**Flyin' Miata**  
*We make Miatas fly!*



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### **FM throttle body adapter plate**

The FM TB adapter was conceived to make installing a 1.8 engine into a 1.6 chassis much easier by allowing the use of the 1.6 throttle body on the 1.8 intake manifold.

To start, stuff some rags into the 1.8 intake plenum.

Slide the adapter plate onto the stock studs on the 1.8. You should be able to read the Flyin' Miata logo without standing on your head if you have it in the right direction and you're looking at the front of it. Also, the two countersunk holes will be facing you.

Using the countersunk holes as a guide, drill two 5mm or 3/16" holes into the intake manifold. Remove the adapter plate and tap both holes using a 6mmx1.0mm tap. Clean any shavings, etc very carefully.

Remove the upper two studs from the manifold (the ones that held the original throttle body).

Apply a very light coating of silicone sealant on the rear face of the adapter and a drop of blue loctite on the threads of the two 6mm socket head bolts. Screw the two upper 8mm bolts in temporarily just to line the holes up and then install the two 6mm socket heads in the countersunk holes and tighten them.

There is a recess in the intake manifold casting on the right side as you look at the TB mounting surface. This should be filled with JB Weld for best airflow.

Remove the temporarily installed 8mm bolts.

Using stock TB gasket, install the 1.6 throttle body using the stock 8mm bolts in the top two holes and the provided 8mmx40x1.25mm bolts and washers in the lower two holes.

Notes: Obviously, the adapter will require some adaptation in the throttle body inlet tube to make up for the thickness of the spacer. You will also need to fabricate a simple bracket to relocate your stock throttle cable bracket back on the intake manifold - these parts are also available through FM. Please feel free to call or email with any suggestions to improve either our directions or the product.

