

## 1. Put the ECU in Sleep Mode

Before you plug in your Turbo Tuner your ECU must be in sleep mode. To insure that the ECU is in sleep mode do one of the following:

- 1) If the engine is cold, open the hood, close the doors, lock the car and wait 30 seconds
- 2) If the engine is warm, open the hood, close the doors, lock the car and wait 20 minutes
- 3) If the engine is warm and you can't wait 20 minutes, disconnect the battery

## 2. Find the TMAP Sensor

The TMAP sensor is on the intake tube on the driver side of the engine. Its location is seven inches below the driver side, rear corner of the airbox cover. The TMAP sensor has four wires. Do not confuse the TMAP sensor with the 3-wire MAP sensor that is on top of the intake manifold. The circle in the first photo shows the location of the TMAP sensor. One of the mounting screws for the sensor is visible in the center of the photo. The end of the tape measure in the second photo is touching the TMAP sensor. The third photo shows the arm position to access the TMAP sensor. The fourth photo shows a close-up of the TMAP sensor.

On the 135i and 535i it is easier to access the TMAP sensor if you remove the airbox. See the airbox removal instructions for details on that procedure.



*The TMAP sensor is hard to see.*



*It is seven inches below the driver side rear corner of the airbox.*



*If the connection is done with the airbox in place, you have to work by feel.*



*A clear view of the TMAP sensor.*

## 3. Unplug the TMAP Connector

A USB connector is an ideal tool for releasing the lock on the TMAP connector. It has very thin metal piece that will slide under the connector lock without putting too much strain on the lock. You can also use a guitar pick or small screwdriver. Be careful to not bend up the tap too far or it will break.



*A USB connector makes a good removal tool.*



*The connector separated from the TMAP sensor.*



*The Turbo Tuner 2 connectors plug in-line between the TMAP sensor and connector.*



*The internal adjustable boost setting.*

## 4. Plug in the Turbo Tuner

Plug the large connector on the Turbo Tuner into the factory harness connector, then plug the small Turbo Tuner connector into the TMAP sensor.

## 5. Adjust the Setting

Remove the two screws on the cover. Turn the setting for your desired boost. The zero setting gives stock boost. The 50 setting adds 2 psi and is safe and conservative. The 75 setting is similar to the original Turbo Tuner. The 100 setting adds 4 psi of boost and is for 93 or higher octane fuel only.

## 6. Secure the Unit

Use the zip tie to secure the unit in an accessible location.



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# 135i and 535i Turbo Tuner Installation Airbox Removal

Unclip the fasteners on the airbox cover and remove the cover



Remove the air filter



Unclip the wire harness above the air filter box



Slide off the inlet from the front of the airbox



Loosen the hose clamp on the front round tube, slide the hose off



Loosen the hose clamp on the rear round tube, slide the hose off



Slide up the rubber holders on the three wire looms



Squeeze and unclip the vacuum connection and unhook vacuum line



The airbox is held by three rubber mounts, the front one is circled in yellow



There are three rubber mount points holding the airbox. They are at the front center, back left and back right corners. Pull up on the airbox to pop it out of these mounts. They will come loose with minimal effort. Start by lifting out the front first. Make sure all attached hoses and wires are disconnected and remove the airbox.

Lift the front of the airbox first



MAP sensor circled in yellow on the manifold is **NOT** the TMAP sensor



The TMAP sensor circled in yellow is on the intake tube before the throttle, the connector is facing down

