



Turner Module Install Guidelines
F10 550i, F06/F12 650i

800-280-6966

16 So. Hunt Road, Amesbury, MA 01913
☎ 978-388-7769 | ☎ 978-388-4202

Please review these guidelines before starting the install.

This kit must be installed properly to avoid damage to the components and to the vehicle itself. Do not modify the kit or the wiring harness in any way.

Contents of module kit:

- 1 Turner Performance Module with model-specific calibrations
- 1 Plug and play engine harness
 - camshaft sensor
 - TMAP boost pressure sensor, bank 1
 - TMAP boost pressure sensor, bank 2
- 1 Valet mode plug

Step 1

Turn the ignition off and remove the key from the dash. Open the hood but close all of the other doors. Because of the location of the turbos in the “V” of the engine it would be best to let the engine bay cool down before starting any work.

Wait a minimum of 5 minutes for the car to go into “sleep mode” and do not perform any other work or open any other doors while it goes to sleep. You do not have to disconnect the battery.

Discharge any static electricity by grounding yourself on a large metal object (tool chest, engine lift, etc.).

Step 2

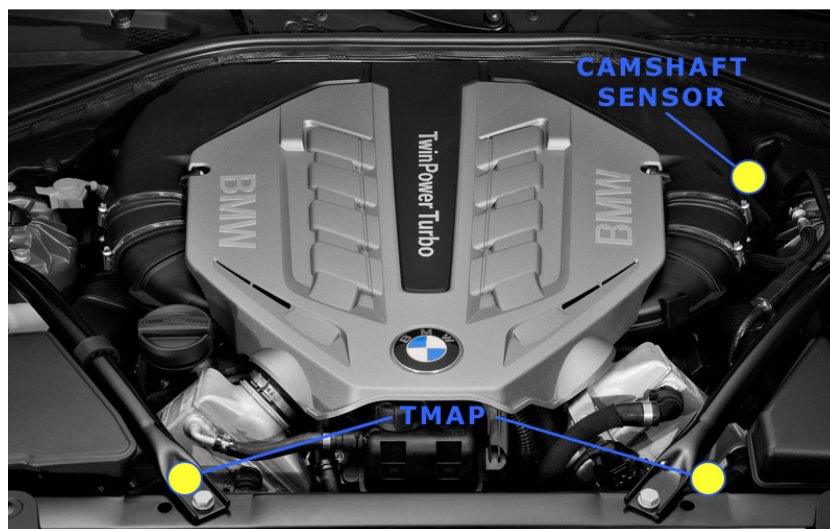
Completely remove the black strut tower bars running from the strut tower to the radiator support.

Step 3

Remove the ‘BMW TwinPower Turbo’ plastic cover for easier access. Pull gently at each corner and it will un-clip from its mounting points.

Step 4

The 550i module will plug into 3 sensors: camshaft sensor and boost pressure sensors (TMAP) located on the front of each intercooler on banks 1 and 2. Locate each sensor in your engine bay.



Step 5: TMAP sensors

The TMAP boost pressure sensors are located on the lower face of each intercooler.

There are two sensor styles – Early (2011-mid 2012) and Late (mid 2012-current). Now is the time to confirm you have the correct wiring harness for your sensors.



Early TMAP sensor

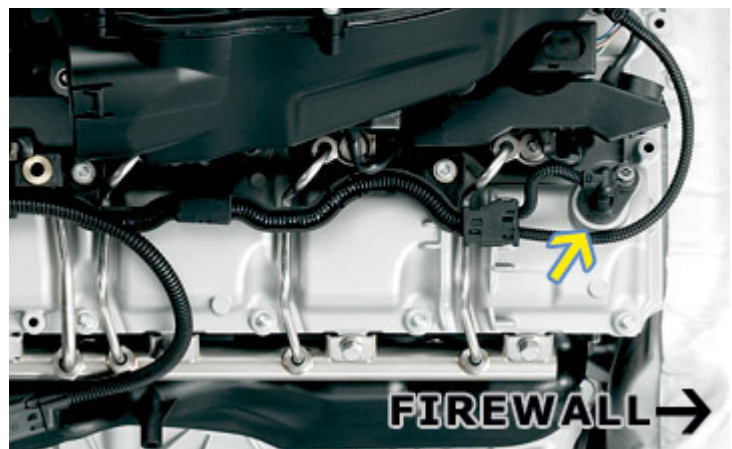
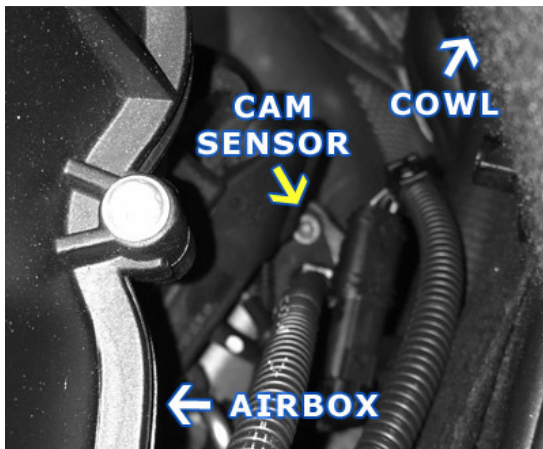


Late TMAP sensor

Locate and disconnect the plug from the TMAP sensor.
Connect the wiring harness plug to the Turner harness.
Connect the Turner harness to the TMAP sensor.

Step 6: Camshaft sensor

For this installation we use the camshaft sensor on the driver's side. It's located at the top of the valve cover and close to the cowl/firewall (see yellow arrow in photos below). Locate and disconnect the plug from the camshaft sensor. Note: we do not recommend removing the camshaft sensor unless you plan on replacing the rubber o-ring before reinstalling.
Connect the wiring harness plug to the Turner harness.
Connect the Turner harness to the camshaft sensor.



Location of cam sensor on valve cover



Step 7

Lay out and route the Turner wiring harness so it does not interfere with any other components. Use zip ties to secure the harness to existing wiring harnesses or hard parts.

Step 8

Locate the Performance Module in a place where it will be protected from water, dirt, oil, or other debris. We suggest removing the windshield cowl and using the existing empty space under there.

Extend the purple sliding lock on the large plug of the Turner harness. Plug the big connector into the Module. It will only go in one way. Then push on the purple lock to secure the plug to the Module. When fully seated the plug should not come disconnected (test this by gently tugging on the black connector).

To use the Valet connector, unplug the module from the wiring harness by gently pulling on the purple sliding lock. When disconnected, plug the Valet connector to the harness and secure with the sliding lock.

Step 9

Double check your harness connections. Reinstall the cowl covers, engine cover, and any other components that you removed or loosened. And check that the harness is secured and out of the way of any other components.

Enjoy your new power responsibly.