



Clearing Adaptation on the E46 M3

Application: E46 M3 with the Active Autowerke Supercharger

What is Adaptation: The DME of the E46 M3 has the capability to make changes to fuel, ignition, part throttle, fuel trim and other parameters all based on driving conditions, driving styles, fuel octane, altitude, and a lot more. These changes are all done automatically and the DME has now adapted to your style of driving.

Problem: When your E46 M3 is normally aspirated, the engine current DME parameters are not well suited to being forced fed by a supercharger. With a Active Autowerke supercharger now installed, there will be greater changes being made rapidly to all the maps; the DME will be trying to adapt back to the old tables as if the M3 is still normally aspirated.

Occurrences like a oscillating idle, stalling conditions, harsher shift condition on SMG models are just some of the situations that can be expected if adaptation is not proper cleared.

Correction:

The Fuel Trim tables need to be cleared and reset to ZERO.

Procedure: A BMW dealer or qualified independent BMW service facility using these diagnostic tools can clear adaptation. DIS, GT1 or a Modic 3

- 1) Have the most current Active Autowerke software update installed
- 2) Read; note; then clear all FAULT CODES
- 3) CLEAR ADAPTATIONS to the Fuel Trim.

Below are some tables showing Fuel Trim with adaptation before and after. Once the adaptations are cleared, the fuel trims will start over from "0". This is the recommended corrective procedure.

