



HIGH FLOW AIRFLOW METER KIT

INSTALLATION INSTRUCTIONS

PART NUMBER D763-I500D

APPLICATION: 2000-03 M5 (E39)

PARTS LIST

<u>Qty</u>	<u>Description</u>
2	AFM Housings
2	Straight Silicone Hoses
4	#56 Hose Clamps
4	5mm x 16mm Button Head Bolts
1	Torx T-20 Tamper L-Key
2	14" Wire Ties

Notes:

- This kit must be used together with a Dinan Cold Air Intake Kit, **with aluminum intake tubes**. The kit incorporated heat shields for both air filter compartments, as well as a temperature sensor installed in right-side lower radiator inlet shroud, and wired into the engine ECU. Before installing this Airflow Meter Kit, you must confirm that these items are properly installed. If the vehicle is missing these parts, please contact your Dinan performance representative for these items, to bring the vehicle up to the required specification. Poor engine performance may result if this precaution is not followed!
- If your car is equipped with a Dinan Cold Air Intake with carbon fiber intake tubes, DO NOT install this kit! Contact Dinan for the correct kit for your car.
- Dinan engine software is also recommended for best performance. See notes below regarding the engine software.

Some mechanical skill is required to install the High Flow Airflow Meter. If you feel you don't have the requisite skill or tools, please arrange for a qualified repair facility to perform the procedure. We recommend that you read these instructions completely before proceeding so that you're familiar with all the steps before the actual installation.

If you encounter any difficulties during installation, or if these instructions are not clear to you, please call Dinan Engineering at (408) 779-8584.

FOR BEST PERFORMANCE, WE RECOMMEND THAT THIS KIT BE USED WITH THE APPROPRIATE DINAN PERFORMANCE SOFTWARE FOR YOUR VEHICLE.

There are two ways to upgrade to the appropriate Dinan software:

1. Send the ECU to Dinan. The ECU will be reprogrammed and shipped out the same day. Please contact your Dinan Performance Representative so that we may prepare for its arrival.
2. Have a Dinan Authorized Dealer Install the High Flow Air Flow Meter and update your ECU using Dinan's MIPP device. Contact your Dinan Performance Representative to locate the nearest Dealer.

INSTALLATION:

1. Remove the stock airflow meters. Be sure to save the factory-pleated hoses (with the rubber sleeves and hose clamps), as they will be reused.
2. Remove the Silicone Hoses, which are on the outlets of the Dinan Intake Tubes. These hoses & clamps will not be reused.
3. To remove the airflow sensors from the factory airflow meters, unfasten the two tamper-resistant Torx screws on each airflow meter using the supplied L wrench.
4. Carefully slide the sensors out of the stock airflow meter bodies and place them into the Dinan bodies. They can only be installed in one direction. The airflow sensor is very expensive and fragile, please be careful. To facilitate assembly, lightly coat the seal with acid-free grease.
5. Attach the two parts together using the supplied Allen bolts. Torque to 50 inch pounds.
6. Loosely connect the Dinan High Flow Airflow Meters to the Dinan Intake Tubes using the new Silicone Hoses and four #56 hose clamps. **Make sure that the flow arrows on the Airflow Meters are pointed towards the intake plenum.** Connect the wire connections to the Airflow Meters. The electrical plugs will point rearward and just above the PCV hoses in their final position.
7. Reinstall the factory-pleated hoses between the intake plenum and the Airflow Meters using hose clamps removed in Step 1. Ensure that the rubber sleeves are used between the Dinan Airflow Meters and the factory hose. Adjust the hoses as necessary so there is adequate clearance above the VANOS assemblies at the closest points.

8. Position the Intake Tubes so they don't contact any part of the headlight assemblies. Verify that there is adequate clearance with the upper radiator hose on the left side, and the AC line on the right side. You may need to bend the AC line slightly, if necessary.
9. Ensure you have the Silicone Hoses far enough on the Intake Tubes so the clamps will be tightening on the Tubes and not on the edges of the Tubes.
10. When you are satisfied with the fit of all the pieces tighten the hose clamps.
11. Use the 14" wire ties to loosely secure the Airflow Meter wires to the Airflow Meter bodies. Position the wires so they don't touch any sharp edges or the fan.
12. For best performance, we recommend that this kit be used with the appropriate Dinan performance software for your vehicle. Please contact your Dinan representative for details.

Please call Dinan Engineering's technical support hotline at (408) 779-8584 if you have any questions!