GruppeM RAM AIR SYSTEM

Installation Instructions

FRI-0322 **BMW E92 M3**

PARTS LIST

Thank you for buying the GruppeM Ram Air System Before installation, verify that you have all of the parts in the Parts List on the right.



CAUTION

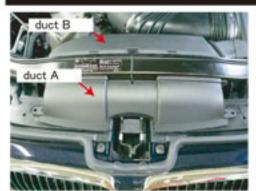
- Do not install on a road or other place that could interfere with automobile or pedestrian traffic.
- Park on flat, horizontal ground with the emergency brake on, to prevent the vehicle from rolling. Remove the key from t he ignition and let the engine cool down completely before beginning
- Wear work clothes suitable for the job. When necessary, wear protective gloves and glasses.
- After installation, regular maintenance is necessary. Periodically check for realignment, clearance, and tightening of all

components.

- GruppeM Inc. will not be held responsible for installations to any motor vehicle model other than the
- Keep these instructions in a safe place after using them.

Speeding and reckless driving are completely unacceptable. Please use this product with care, following all traffic regulations.

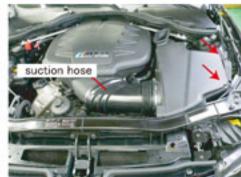
Attachment of RAM AIR SYSTEM



The original introductory ducts A and B are removed.



The air duct of an original bumper is removed. A left tire is removed and an inner fender is removed. (An arrow area is a fixed position of a bolt and a tapping screw)



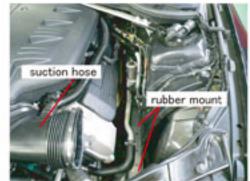
A blow by hose is left as it is, and removes a suction hose once first.

The fixed bolt of an arrow area is removed



An inner fender is removed and then an air duct is removed.





Two rubber mount which is fixing the original case removes.

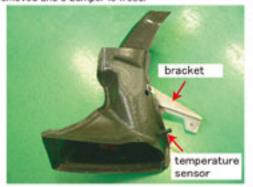
A suction hose is returned.



Because the tapping screw of the upper surfacepart is hidden by the bumper when removing an air duct, the bolt and tapping screw of an arrow area are removed and a bumper is freed.



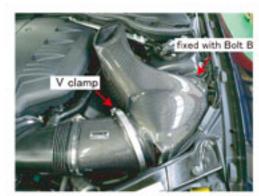
Because the tapping screw of the upper surfacepart is hidden by the bumper when removing an air duct, the bolt and tapping screw of an arrow area are removed and a bumper is freed.



The bracket for fixation and a temperature sensor are removed from an original air duct, and an attached carbon air duct is installed. (Bolt A is used)



A bumper and an inner fender are returned, a tire is installed and cars are set down.



A filter is packed into the filter case A and it fixes by V clamp.

It arranges so that a cleaner case may turn with a bottom down completely.



The tapping screw which is fixing the air duct is removed.



A carbon air duct is installed as well as original. Wiring of a temperature sensor is also connected as before.



A rain cover plate is installed inside the filter case A. (Bolt C and M4 nut use)



The filter case A is fixed with Bolt B. V clamp is fastened and done simultaneously.



The tapping screw of air duct fixation is removed and an air duct is removed.



A fixed position is fixed to the same position

The side uses attached Bolt D and an attached



The filter case B is installed in a suction hose



The carbon introduction duct B is installed and it fixes with Bolt C.



Double-stick tape is removed, the carbon introduction duct A is installed, and it fixes with Bolt C.

Finally please confirm clearance with a bonnet



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