

GruppeM RAM AIR SYSTEM

CARBON DUCT INTAKE KIT

Installation Instructions

FRI-0322

BMW E92 M3

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.

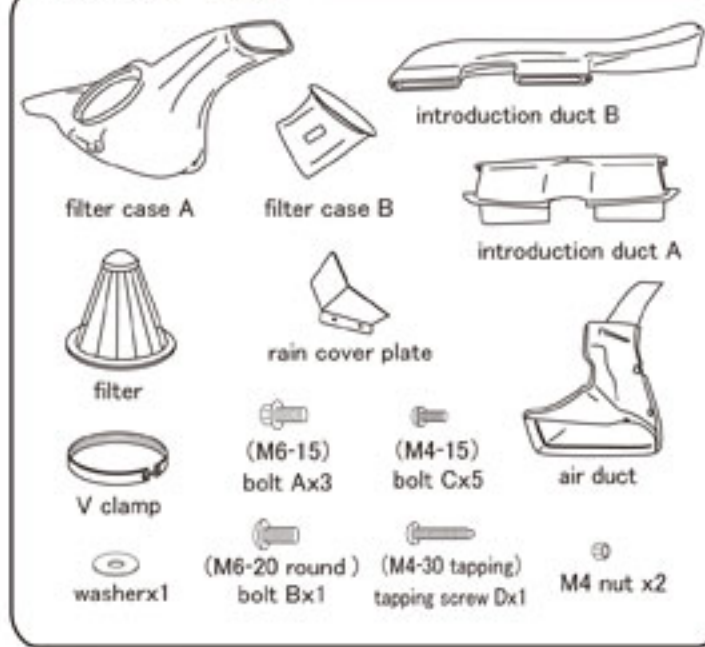


CAUTION

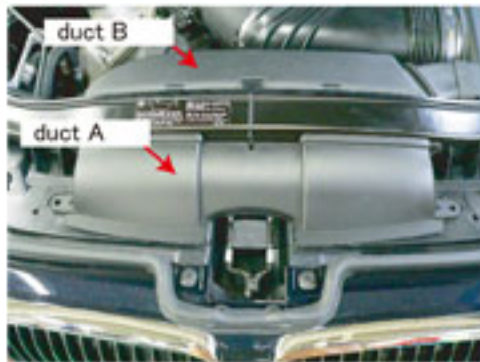
- Do not install on a road or other place that could interfere with automobile or pedestrian traffic.
- Park on flat, horizontal ground with the emergency brake on, to prevent the vehicle from rolling. Remove the key from the ignition and let the engine cool down completely before beginning installation.
- 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 one specified.
- 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.

PARTS LIST



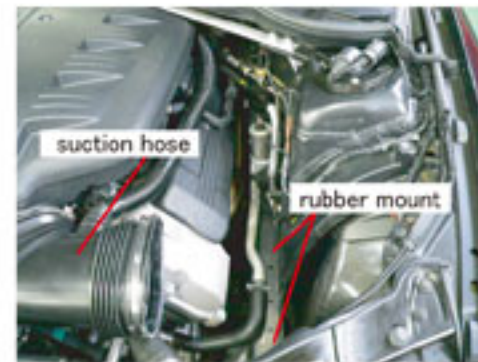
Attachment of RAM AIR SYSTEM



The original introductory ducts A and B are removed.



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 and a filter case is removed.



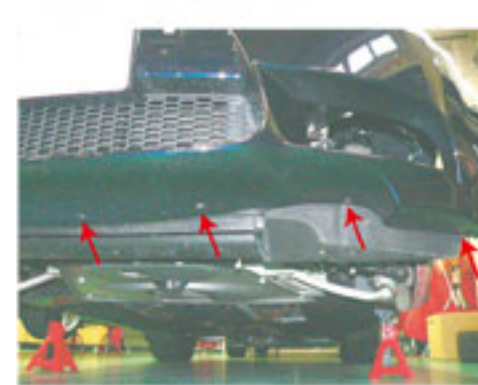
Two rubber mount which is fixing the original case removes. A suction hose is returned.



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)



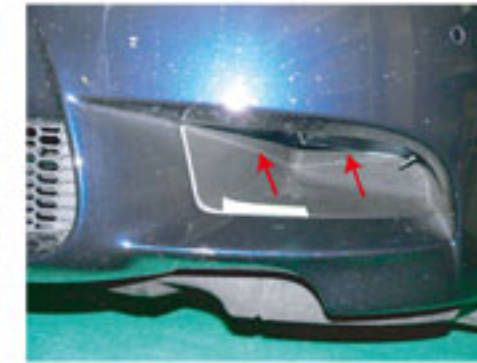
An inner fender is removed and then an air duct is removed.



Because the tapping screw of the upper surface part 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.



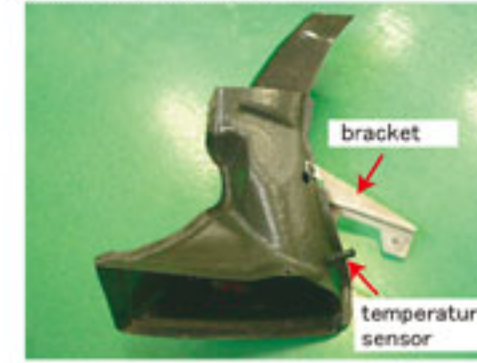
Because the tapping screw of the upper surface part is hidden by the bumper when removing an air duct, the bolt and tapping screw of an arrow area are removed and a bumper is freed.



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



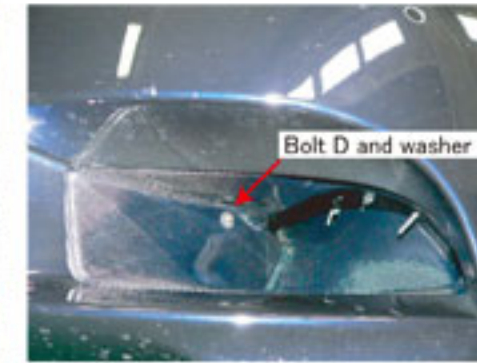
The tapping screw of air duct fixation is removed and an air duct is removed.



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)



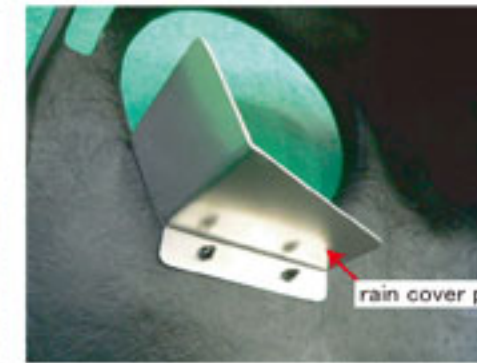
A carbon air duct is installed as well as original. Wiring of a temperature sensor is also connected as before.



A fixed position is fixed to the same position as original. The side uses attached Bolt D and an attached washer.



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



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



The filter case B is installed in a suction hose.



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 carbon introduction duct B is installed and it fixes with Bolt C. The filter case A is fixed with Bolt B. V clamp is fastened and done simultaneously.



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.