

Ms RAM AIR SYSTEM

CARBON DUCT INTAKE KIT

Installation Instructions

FR-0142

TOYOTA GR YARIS (GXPA16) 1.6TURBO

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.



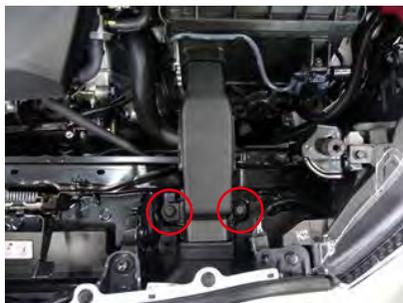
CAUTION

- Please read the entire instruction manual before proceeding.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts and our installation manual for future use.
- GruppeM Inc. will not be held responsible for installations to any motor vehicle model other than the one specified.

PARTS LIST

| | | | |
|-------------------|------------------|---------------------|-----------------------------|
| | | | |
| Air duct x1 | Chamber box x1 | Conversion plate x1 | Bolt A(M6-20) x6 |
| | | | |
| Filter x1 | V clamp x1 | O-ring x1 | Bolt B(M6-25) x1 |
| | | | |
| Sensor adapter x1 | Braces A x1 | Grommet x1 | Bolt C(M6-30) x2 |
| | | | |
| Funnel x1 | Braces B x1 | 30mm Spacer x1 | Bolt D(M6-50) x1 |
| | | | |
| Tie wrap x1 | aluminum stud x4 | Rubber cap x1 | Bolt E(M4-12) x2 |
| | | | |
| | | M4 Spacer x2 | Countersunk screw (M4-8) x2 |

Install Ram Air System



1. Remove the two clips and remove the introduction duct.



2. Remove the air mass sensor coupler and remove the wiring clip from the filter box.



3. Loosen the suction hose band and remove the upper part of the factory filter box and the intake hose.



4. Remove the vacuum hose. Attach the attached rubber cap to the removed part.



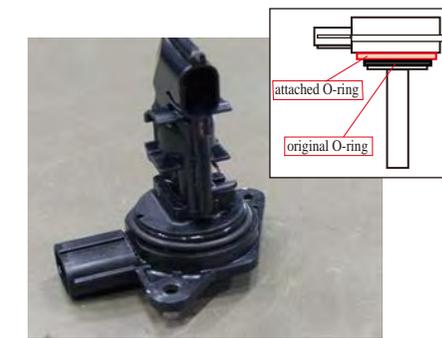
5. Remove the bottom of the cleaner box and remove the actuator from the filter box.



6. Loosen the hose band, remove the suction hose from the filter box, and remove the air mass sensor from the filter box.



7. Attach the adapter plate to the sensor housing with 2 countersunk screws. Pay attention to the orientation of the conversion plate.



8. Install the attached O-ring on the air mass sensor, over the factory O-ring as illustrated in red.



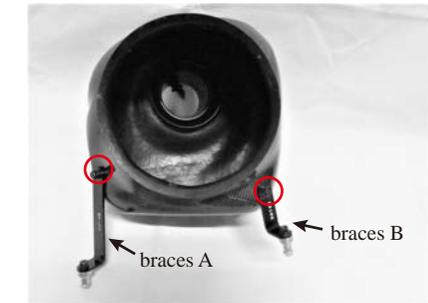
9. Insert the 2 x M4 spacers between the sensor adapter and the sensor, and attach with 2 x E bolts.



10. Secure the sensor adapter and funnel so that they are sandwiched between the chamber boxes.



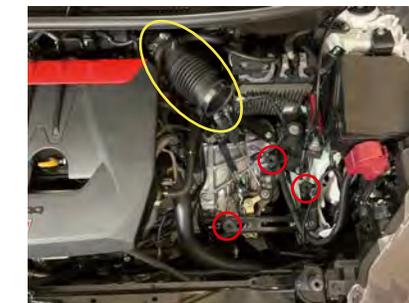
11. Attach the aluminum studs to each braces A and B. Secure with 2 x C bolts.



12. Temporarily fasten each brace to the chamber box with bolt A in two places.



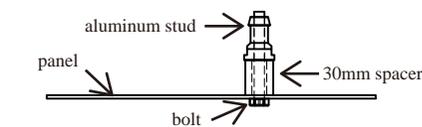
13. Attach the aluminum stud to the chamber box with bolt B.



14. Install the intake hose and secure it with the hose band. Install the chamber box so that the aluminum studs are placed inside the rubber bushing while inserting the air mass adapter.



15. Tighten each brace. Tighten the hose band. Install the air mass sensor coupler and secure the wiring with tie wraps.



16. Secure to the body panel with spacers, bolts D and aluminum studs.



17. Install the grommet on the back of the air duct.



18. Insert the aluminum stud into the grommet, secure the chamber box to air duct with the V clamp. Attach the connector of the actuator and fix it with the attached tie wrap.