

Installation Instructions

ORS-0128

ALPINE A110 DFM5P EG: M5P 1.8 Turbo

PARTS LIST

carbon case

carbon scoop

filter

Thank you for buying the 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 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.

Installation of ram air system

*It is a product that can process the engine hood to further increase the air chamber capacity when pursuing more power in engine tuning vehicles and racing vehicles.

Please refer to the attached additional instructions for processing and installation.



1. Remove 3 bolts from inside the trunk.



4. Loosen the 4 bolts and remove the top of the box.



2. Loosen the bolts and remove the engine cover.



5. Remove the air mass sensor by loosening the four bolts from the top of the box.



carbon panel (L)

carbon panel (S)

funnel adapter

sponge tape

A

Bolt A(M6-20) x4

(Ammini)

Bolt B(M6-25) x3

Bolt C(M4-15) x3

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a

aluminum stud x3

Bolt D(M5-15) x4

plastic washer x4

3. Remove the wire clamp and sensor coupler and loosen the suction hose band.



6. Loosen the hose band and remove the bottom of the box.



7. Fix the aluminum stud x3 to the carbon case with the bolt (B) x3.



10. Remove the carbon scoop and place the carbon case in the engine room.



13. Attach the filter to the funnel adapter and tighten the hose band.



16.Remove the 4 bolts from the engine cover. If you remove the spring washer behind the bolt, you can disassemble it and remove it.



17. Attach the engine cover to the vehicle and fix the red circle mark with the original bolt.



9. Fix the carbon scoop and the carbon case with bolts (C) x3, and paste the sponge tape on the red line in the above figure.



12.Install the wire clamp and sensor coupler, and tighten the suction hose band.



15. Secure the carbon panels (L) and (S) with 4x bolts (D) and 4x plastic washers.



18.Fix the carbon panels (L) and (S) using the 4 genuine bolts that were disassembled. (Use only bolts, not washers)

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11. Tighten the hose band of the introduction duct.

8.Insert the funnel adapter into the case and

fix the air mass sensor from the outside of



14.Reinstall the carbon scoop.



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Please refer to the following description for processing and installation.



(1) Install up to the carbon panel once in the same way up to step 18 of the instruction manual. We will mark the cut line to cut the engine cover.



(2) Remove the original bolt and bolt (D)x4 while holding down the carbon panel (S).



(3) Remove the carbon panel (L) while holding down the carbon panel (S).



(4) Mark the semicircular part on

the front side of the panel (S).



(6) The semicircular line is marked.



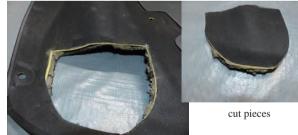
(9) Cut along the marked line.



(11) Finish the cut section with tape or the like.



(7) Connect the ends of the lines with straight lines



(10) It is in a cut state.



(12) Finished cut cross section.



(5) Mark the line on the engine cover so that it does not shift.



(8) The state where the ends of the line are connected with a straight line.





(13) Attach the engine cover and carbon panels (L) and (S) to complete the work.