

INSTALLATION INSTRUCTIONS

PART NUMBER: GRMS-8M-K30

CARB #: D-607

INTAKE SYSTEM

APPLICABLE MODELS: 04-05 Mazda RX-8 1.8RTR (All Models)

CONTENTS

Vacuum Cap X 1

1/4" Flat Washer X 2

Nut X 4 (M6 x 1.0) X 2

M6 Flat Washer X 2

1 Inch Spacer X 2

Reducer Coupler X 1

Filter Sock X 1

Bolt X 2 (8-32 x 5/16")

Screened Coupler X 2

Reducing Hump Coupler X 1

Upper Intake Pipe X 1

Long Middle Intake Pipe X 1

Short Middle Intake Pipe X 1

Lower Intake Pipe X 1

Air Filter X 1 Part #: 21-2109DMZD

#48 Hose Clamp X 1

#56 Hose Clamp X 2

#60 Hose Clamp X 6

Installation Instructions, Warranty Sheet, and Vacuum Routing Sticker X 1

TOOLS REQUIRED

8,10,12, &13mm Sockets Ratchet 6" & 11" Extensions Phillips Head Screwdriver Flat Head Screwdriver 10mm Wrench Safety Glasses

Note: Mazdaspeed
Accessories carry a different
warranty than Genuine
Mazda Accessories. Review
the applicable warranty
statement with your
Mazdaspeed dealer. This
product is sold under the
Mazdaspeed Green
Warranty Statement.

PRE INSTALLATION

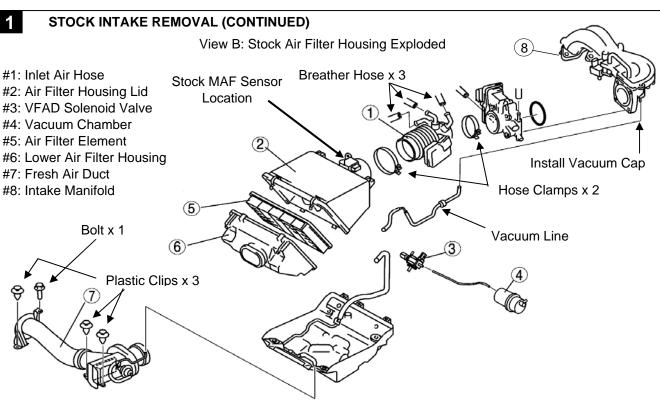
- 1. Read entire instruction sheet before proceeding.
- 2. Run OBD II diagnostics and repair or replace any malfunctioning components before installation.
- 3. Make sure vehicle is parked on a level surface and set the parking brake.
- 4. Disconnect both battery terminals.
- 5. If engine has run within the past two hours let it cool down.
- 6. Chock the rear wheels, and use properly rated jack stands when lifting the vehicle
- 7. Wear eye protection.

View A: Inlet Tube Assembled MAF Sensor Inlet Tube Throttle Body

1 STOCK INTAKE REMOVAL

- Start by removing the engine cover. Gently lift up at the base then pull the cover towards the front of the car.
- 2. Remove the strut tower brace.
- 3. Remove the three hoses attached to the inlet tube secured to the throttle body (View B, #1).
- Loosen hose clamp at the throttle body and the air box (View B). Then remove the inlet tube.
- 5. Unplug the MAF sensor and the wire mount.
- Gently pull up on air box, but do not completely remove. Unplug the vaccum soloniod (View B, #3) and the vacuum line attached to it.
- 7. Disconnect the vacuum line (View B) from the intake manifold (View B, #8).
- 8. Unclasp and remove the vacuum assembly from the air box (View B, #3 & #4). Unclip the wire mount from the air box.

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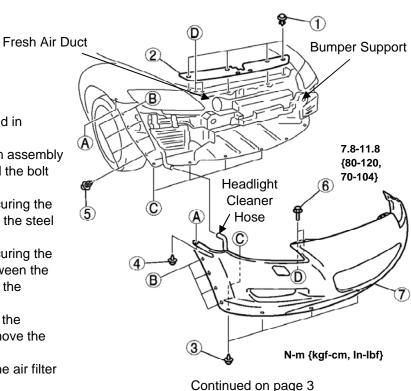


- 9. Lift up and gently remove the air box from the vehicle (View B, #2, #5, & #6)
- 10. Remove both front wheels to access the fender liners for bumper removal.
- 11. Disconnect the front fog light connectors for vehicles equiped with fog lights.
- 12. Remove the front side marker lights.

Table A for View C: Bumper	
1	Fastener A
2	Seal Plate
3	Screw A
4	Screw B
5	Fastener B & C
6	Bolt
7	Front Bumper

13. Remove the parts in the order indicated in Table A.

- 14. Remove the fresh air duct and vacuum assembly by removing the three plastic clips and the bolt securing it to the chassis (View B,#7).
- 15. Remove the fasteners (View D, A) securing the energy-absorbing foam (View D, #2) to the steel bumper support (View D, #1).
- 16. Remove the fasteners (View D, B) securing the front bumper retainer (View D, #3) between the steel bumper support (View D, #1) and the chassis.
- 17. Remove the 8 bolts (View D) securing the bumper support to the chassis and remove the bumper support.
- 18. Remove the stock MAF sensor from the air filter housing lid (View B. #2).



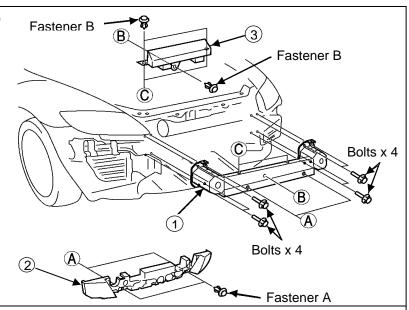
View C: Bumper Removal / Installation

1 Stock Intake Removal (Continued)

View D: Steel Bumper Support

Bolts 17.7-26.4 {1.81-2.69, 13.1-19.4} N-m {kgf-cm, ft-lbf}

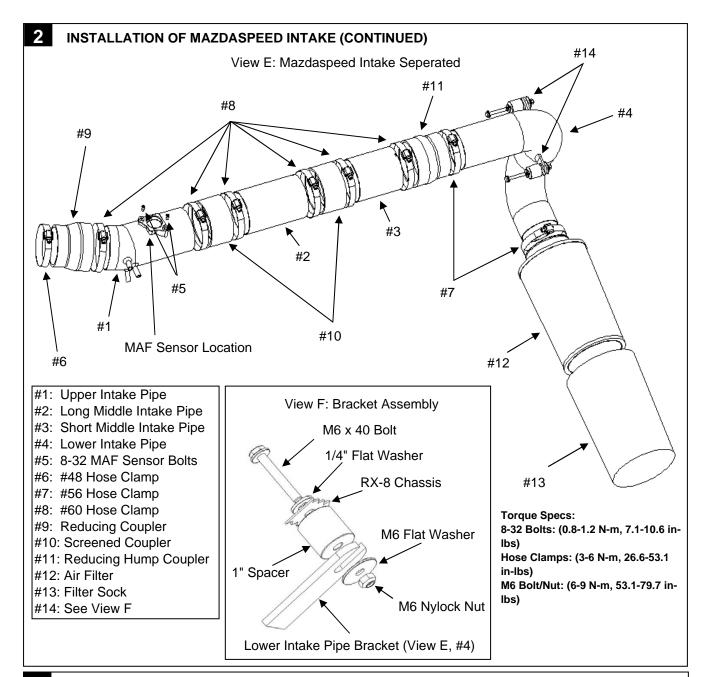
#1 Steel Bumper Support #2 Energy-Absorbing Foam #3 Front Bumper Retainer



2 INSTALATION OF MAZDASPEED INTAKE

Note: Applicable torque values provided in illustrations.

- 1. Install the supplied vacuum cap onto the intake manifold where the vacuum line was removed (View B).
- 2. Install the reducing coupler (View E, #9) onto the throttle body and secure using the supplied #48 hose clamp (View E, #6).
- 3. Install the MAF sensor into the upper intake pipe (View E, #1) and secure using the two supplied 8-32 bolts (View E, #5).
- 4. Install the upper intake pipe into the reducing coupler installed in step 2.2. Secure using a #60 hose clamp (View E, #8). Be sure the end with the three nipples is towards the throttle body.
- 5. Plug the MAF sensor into the wiring harness. Connect the three stock hoses to the upper intake pipe nipples in their corresponding locations.
- 6. Install the first of two screened couplers (View E, #10) onto the end of the upper intake pipe. Use a #60 hose clamp to secure.
- 7. Slide the long middle intake pipe (View E, #2) into the end of the screened coupler on the upper intake pipe. Secure the pipe using a #60 hose clamp.
- 8. Install the second of two screened couplers (View E, #10) onto the end of the long middle intake pipe. Use a #60 hose clamp to secure.
- 9. Slide the short middle intake pipe (View E, #3) into the end of the screened coupler on the long middle intake pipe. Secure the pipe using a #60 hose clamp.
- 10. Attach and secure the reducing hump coupler (View E, #11) to the end of the short middle intake pipe with a #60 hose clamp. Adjust all three pipes to align with the opening in the chassis.
- 11. Looking at the front of the vehicle, locate the two small holes on the lower left and right side for the lower inlet pipe mounting supports. From the inside of the chassis insert the two M6 bolts along with two 1/4" washers. Install the 1" spacers onto the bolts (View F).
- 12. Insert the lower intake pipe (View E, #4) into the end of the reducer hump coupler. Align both brackets with the bolts and spacers from the previous step. Once aligned, check for clearance around the opening and secure the pipe brackets with the M6 fender washers and nuts (View F). Secure the pipe to the reducing hump coupler using a #56 hose clamp (View E, #7).
- 13. Install the filter sock (View E, #13) over the end of the air filter (View E, #12). The elastic on the filter sock will hold the it to the filter.
- 14. Install the filter on to the end of the lower intake pipe. Push the filter over the pipe until the stop in the filter is reached and install one hose clamp to secure the filter onto the inlet pipe.
- 15. Reinstall the steel bumper support using the 8 previously removed bolts (See View D). Note: the front bumper retainer will not be reused. Check that the filter is not touching any part of the vehicle.
- 16. Reinstall the bumper by repeating the steps in Table A starting at step 7 and working back to step 1.
- 17. Plug in the fog lights (if equipped) and side marker light connectors.
- 18. Reinstall the plastic splash shields to the chassis and the bumper and reinstall both front wheels.
- 19. On the radiator support, next to the fan belt routing, install the supplied vacuum routing sticker.



3 POST INSTALLATION INSPECTION / CLEAN-UP

- 1. Inspect all connection points.
 - Two aluminum spacers
 - MAF sensor harness and three hoses on upper intake pipe
 - Throttle body coupler
- 2. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened, including the wheel and fender liner. Start engine and perform a final inspection before driving the vehicle.
- 3. Wipe finger prints off of the intake pipe with soft cloth.
- 4. Return original intake and installation instructions to customer.
- 5. Note: Clean your filter every 20,000 miles per the instructions on the included filter cleaning kit.
- 6. Caution: If you anticipate traversing deep water, remove this system and replace it with the original equipment intake system. All warrantees are null and void if water is ingested into the intake system.