

MAZDA SPEED



















PERFORMANCE ACCESSORIES

INSTALLATION INSTRUCTIONS

PART NUMBER:
GRMS-8M-L29
CARB #: D-607-1

INTAKE SYSTEM

APPLICABLE MODELS:
2007 Mazdaspeed 3 2.3LT
(All Models)

CONTENTS				TOOLS REQUIRED	
	Nut X 2 (6MM x 1.0)		Bolt X 2 (M6 x 20)	TOOLS REQUIRED 10mm Socket 8mm Socket Ratchet 6" Extension 11" Extension Phillips Head Screwdriver Flat Head Screwdriver 10mm Wrench 3.5mm Allen Wrench Safety Glasses	
	Fender Washer X 1 (6MM)		Bolt X 3 (M6 x 12)		
	Rubber Mount M6X 1		Ballast Bracket X 1		
	45 Degree Coupler X 1		Splash Shield X 1		
	Bolt X 2 (8-32 x 5/16")		#40 Hose Clamp X 1		
	Straight Coupler X 1		#44 Hose Clamp X 3		
	Upper Intake Pipe X 1		#48 Hose Clamp X 1		
	Lower Intake Pipe X 1		Installation Instructions and Warranty Sheet X 1		
	Air Filter X 1 Part #: GRMS-8M-L10		Air Filter Cleaning Kit		

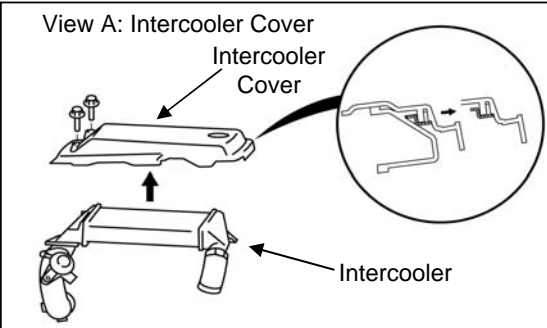
Note: Mazdaspeed Accessories carry a different warranty than Genuine Mazda Accessories. Review the applicable warranty statement with your Mazdaspeed dealer. This product is sold under the Mazdaspeed Green Warranty Statement.

0 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.

1 STOCK INTAKE REMOVAL

1. Remove the front driver side wheel
2. Remove plastic intercooler cover by removing the 2 bolts securing it to the intake manifold (View A).
3. Disconnect the plastic breather hose from the inlet tube (View B). This is done by squeezing the blue retaining clip and pulling on the breather hose.
4. Disconnect the MAF sensor wiring harness from the sensor (View B, #2).
5. Unclip the two metal retaining straps securing the air filter housing lid (View B, #3) to the lower air box housing (View B, #5).
6. Loosen the hose clamp securing the inlet tube to the turbo inlet pipe.
7. Remove the air box lid and inlet tube as an assembly (View B, #1 & #3).
8. Remove the stock air filter (View B, #4).



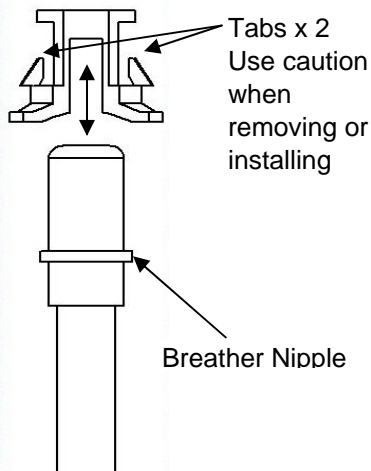
Continued on page 2

1 STOCK INTAKE REMOVAL (CONTINUED)

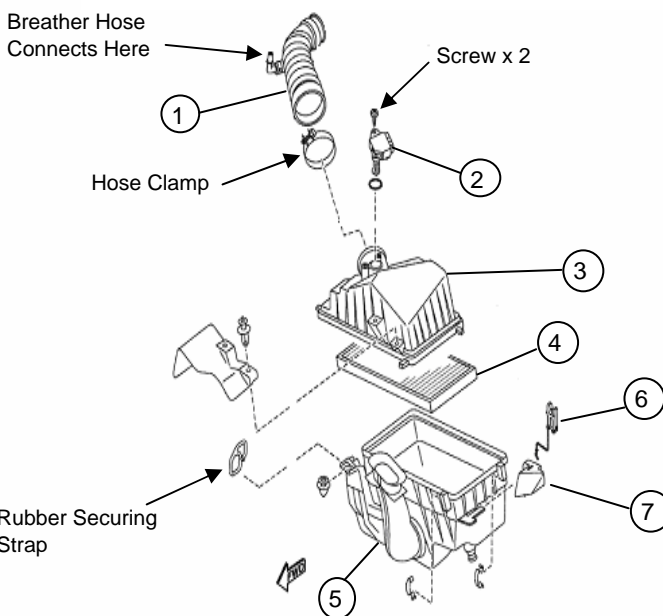
8. Remove the rubber strap securing the front of the lower housing by pulling up on the loop (View D).
9. Remove the check tab (View B, #6), then slide the rubber isolator (View B, #7) rearward. Lift up on the lower air filter housing and remove.
10. Remove the two bolts securing the fuel pump resistor ballast to the driver's side frame rail.
11. Remove the two screws securing the MAF sensor to the air box lid. Be careful not to damage the sensor.
12. From the inlet pipe that was previously removed, remove the blue plastic breather hose clip from the breather nipple by carefully prying up on the two small tabs on both sides of the clip (View C).
13. From underneath the vehicle remove the seven bolts and two plastic connectors holding the center splash shield in place and remove shield.
14. Remove the two bolts and plastic screw connector for the inner-wheel house splash shield. Remove shield.
15. Remove three bolts and the two plastic screw connectors for the inner fender liner. Bend the lining such that it allows access to the area behind the bumper / fender area.
16. Remove bolt, attachment clip and plastic screw connector for the air director located behind the left fog lamp / headlamp housing (View E). Remove the air director.

- #1 Inlet Tube
- #2 MAF Sensor
- #3 Air Filter Housing Lid
- #4 Air Filter
- #5 Lower Air Filter Housing
- #6 Check Tab
- #7 Rubber Isolator

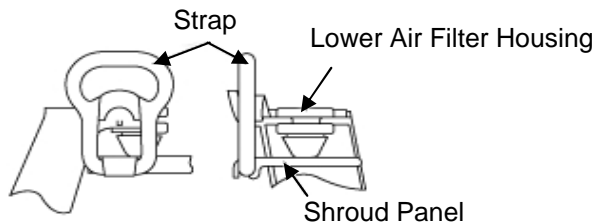
View C: Retaining Clip Removal and Installation



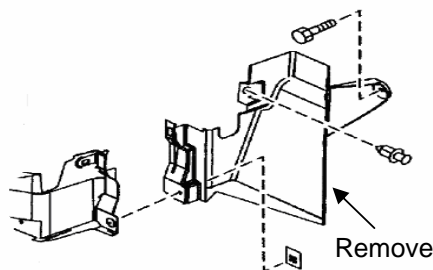
View B: Stock Air Filter Housing Exploded



View D: Rubber Securing Strap



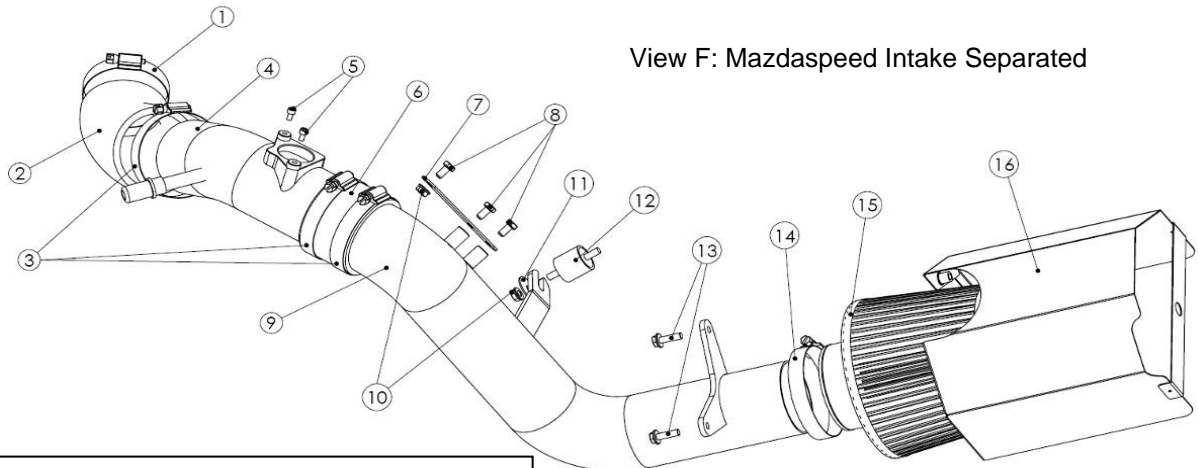
View E: Air Director



2 INSTALLATION OF MAZDASPEED INTAKE

Note: Check to make sure that the inside of the intake pipes are clean and free from any foreign objects. Install hose clamps loose for proper assembly alignment and then torque to specifications.

1. Install the 45 degree coupler (View F, #2) onto the stock turbo inlet tube and secure using a #40 hose clamp (View F, #1).
2. On the upper Intake pipe (View F, #4), install the previously removed blue plastic breather hose retaining clip by carefully sliding it over the breather nipple until it snaps into place. Refer to View C.
3. Install the previously removed MAF sensor into the upper intake pipe using the two supplied 8-32 bolts (View F, # 5).
4. Slide upper intake pipe (View F, #4) into the previously installed 45 degree coupler with the breather nipple angled towards the engine. Secure with a #44 hose clamp.
5. Install the straight coupler (View F, #6) to the end of the upper intake pipe and secure the coupler with a #44 hose clamp.
6. Locate the two threaded holes where the resistor ballast was previously removed. Thread the rubber mount (View F, #12) into the hole located towards the front of the vehicle.
7. Install the lower intake pipe (View F, #9) into the coupler attached to the upper intake pipe and use a #44 hose clamp to secure. Align the intake mounting bracket with the rubber mount installed in previous step.
8. Secure the lower intake pipe using the supplied M6 washer and nut (See View G).
9. Install the air filter (View F, # 15) on to the end of the lower intake pipe. Push the filter over the pipe until the stop in the filter is reached. Use a #48 clamp (View F, #14) to secure the filter onto the intake pipe. Torque to specifications in View F.
10. Install the aluminum splash shield onto the inlet pipe. Align the hole in the cross brace with the post on the filter end. Secure using two M6 bolts (View H). Torque to specifications in View F.
11. Attach the resistor ballast to the lower intake tube using the mounting bracket (View F,#7), three M6 bolts, and M6 nut (View I). Make sure there is no tension on the electrical connectors or wires.
12. Connect the MAF connector into the MAF sensor.
13. Install the plastic breather hose onto the upper intake pipe breather nipple. The hose will be secured by the blue retaining clip previously installed in section 2 step 2.



View F: Mazdaspeed Intake Separated

#1: #40 Hose Clamp	#9: Lower Intake Pipe
#2: 45 Degree Coupler	#10: M6 Nut
#3: #44 Hose Clamps	#11: M6 Fender Washer
#4: Upper Intake Pipe	#12: M6 Rubber Mount
#5: 8-32 Bolts	#13: M6 x 20 Bolts
#6: Straight Coupler	#14: #48 Hose Clamp
#7: Resistor Ballast Bracket	#15: Air Filter
#8: M6 x 12 Bolt	#16: Splash Shield

Torque Specs:

8-32 Bolts: (0.8-1.2 N-m, 7.1-10.6 in-lbs)

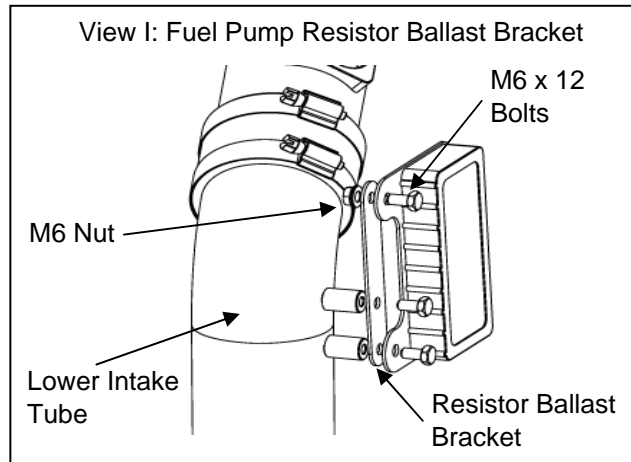
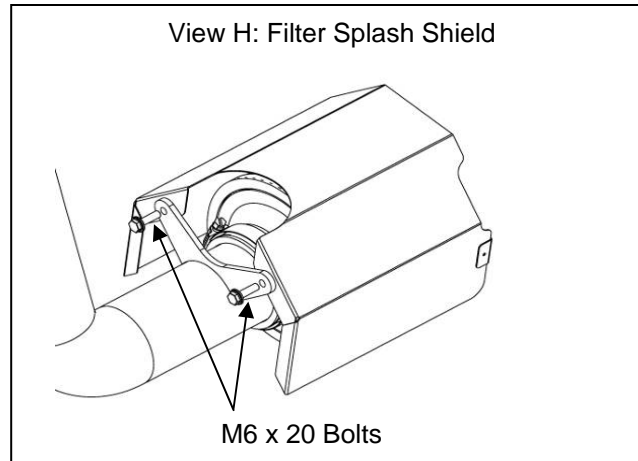
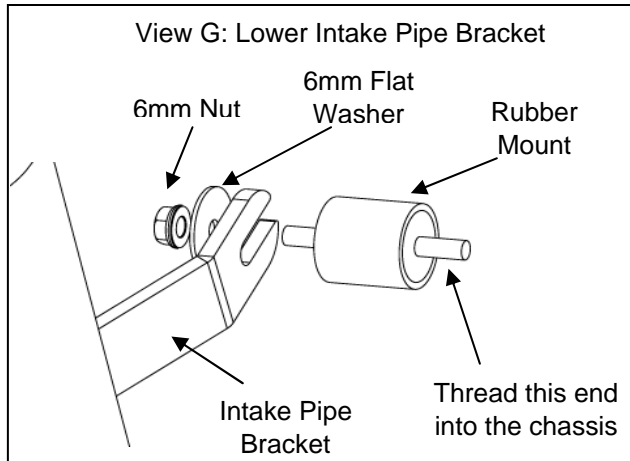
Hose Clamps: (3-6 N-m, 26.6-53.1 in-lbs)

M6 Bolt/Nut: (6-9 N-m, 53.1-79.7 in-lbs)

Continued on Page 4

2 INSTALLATION OF MAZDASPEED INTAKE (CONTINUED)

14. Check to make sure that the intake system is not touching any part of the vehicle. Position the intake for best fitment.
15. Torque all hose clamps and nut on the mounting bracket at frame rail. Loosen and re-adjust pipe if necessary for proper fit. Re-torque all attaching hardware to specifications in View F.
16. Reinstall the intercooler cover removed in section 1 step 2. (See service manual for specs).
17. Reinstall the inner fender liner and drivers side wheel. (See service manual for specs).



3 POST INSTALLATION INSPECTION / CLEAN-UP

1. Inspect all connection points for proper fit.
 - Rubber mount
 - MAF sensor harness
 - 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. Reconnect battery terminals. 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 warranties are null and void if water is ingested into the intake system.**