



Cold Air Intake for Jackson Racing Superchargers 94-97 1.8L Miatas

Packing List:

The Following Parts should be in your intake kit when it arrives. If you can not find all of the parts listed below, please contact DDMWorks, or Rspeed for assistance.

1. Stainless Steel Intake Box
2. Stainless Steel Lid
3. 3" Inlet Uni Foam Filter
4. Bag of Installation hardware
 - 1 10mm Hex Head bolt short
 - 1 10mm Hex Head bolt long
 - 2 Flat Washers small
 - 2 Lock Washers small
 - 1 Nylon 7/8" Spacer
5. 3" to 2 3/4" reducer and clamp
6. Bag of Hardware for Lid Installation
 - 4 Pan head Phillips bolts

Please note: At time of this printing the pictures included are of a 1.6L installation. The installation is very similar and the pictures are still helpful to the installation. Once we are able to update these instructions with new pictures we will do so. If you have any questions about your installation do not hesitate to contact us.

DDMWorks

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This Cold Air intake improves on the Jackson Racing Supercharger by supplying cold air to the supercharger, increasing the power potential of the kit.

Installation time of the Cold air intake depends on you and your mechanical skills. It is suggested that you read through these directions a few times to familiarize yourself with the components of the kit, and your car.

If you are pretty handy with tools the intake can be installed in under 30 minutes, however we suggest that you schedule at least an hour for the install.

Tools you will need:

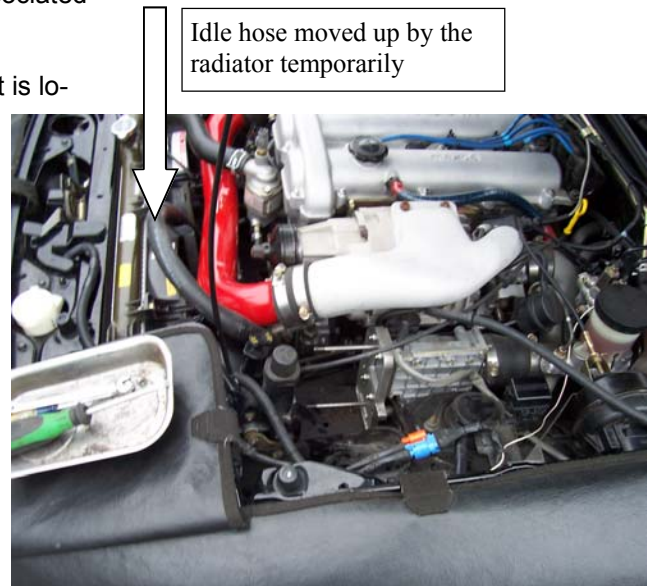
| | |
|--------------|--------------------------|
| Wrenches: | 10mm |
| Sockets: | 8mm, 10mm sockets |
| | Socket wrench |
| | Long 8" socket extension |
| Screwdriver: | Phillips, Flat Head |
| Misc: | 5mm hex key wrench |



Removal of Stock Filter Assembly

We will begin by removing the stock filter assembly and associated plumbing.

1. Loosen the hose clamp on the Idle Air Control hose that is located just under the brake master cylinder. It is a 3/4" inch hose. Once the hose clamp is loose pull the hose off and secure it close to the radiator, we just want it out of the way for now.
2. Now loosen the two nuts on the front of the stock air filter, this will require a 10mm wrench or socket depending on what you can fit in there. Once the two nuts are removed, remove the cast aluminum cover plate and filter from the car. These parts will not be re-used. Your car should look like the picture to the right at this point.
3. There is a hex head bolt in the aluminum plate attached to the front of Air Flow meter, using a 5mm hex key, remove this bolt and set it aside, it will not be re-used. Now loosen the hose clamp holding the reducer pipe to the air flow meter and remove the reducer hose, leaving the air flow meter in place.
4. We are now ready to begin installing the new cold air intake.

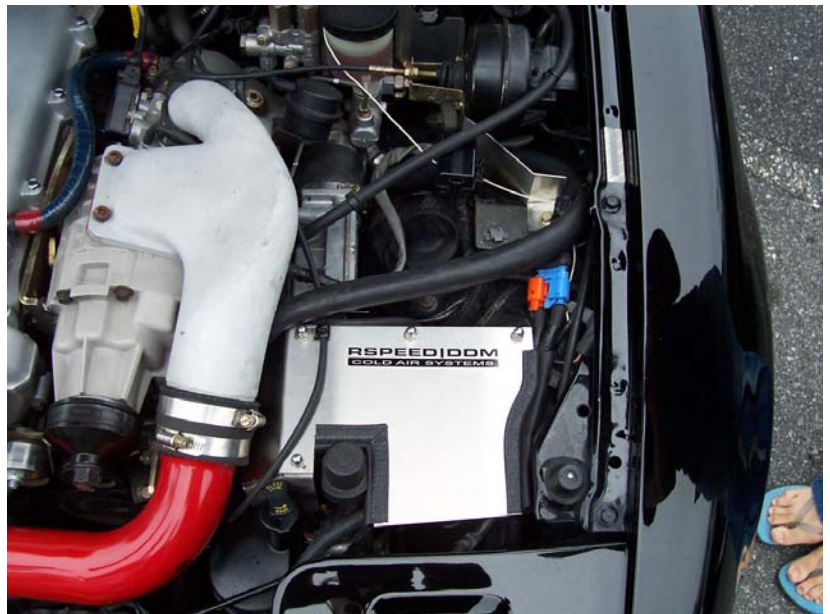


Installation of the Cold Air Box

1. If your car is equipped with power steering using your 10mm socket remove both bolts holding the reservoir in place (The reservoir is the black can sitting next to the drivers side headlight) Once the bolts are removed slide the reservoir towards the front of the car as far as you can. If your car is equipped with A/C you will see a small black wire that goes to you're A/C compressor. Remove the metal clip on this wire and secure the wire to the power steering lines (zip ties are handy for this), making sure it is out of the way of any belts
2. Loosen the hose clamps attaching the supercharger crossover tube to the supercharger outlet. Make sure the adjustment screws for the clamps are rotated away from where we will be doing the install.
3. Find the 3" to 2 3/4" reducer that is in your kit and slide it over the 3" tube that is attached to the new cold air intake. Now slide the clamp over the reducer tube you just installed and tighten it down securely.
4. Before we put the box into place, place the original hose clamp that you removed earlier from the air flow meter over the reducer we just installed, that way when we install the intake into the car it will be easy to tighten down. Carefully place the cold air box into the car, It can be a tight fit depending on the options that your car is equipped with, but it will fit. You may need to tilt and rotate the box to get it in there.
5. Once the box is in, find the long 10 mm bolt, lock washer, flat washer and the 7/8" nylon spacer in your hardware kit. Put the lock wash and then the regular washer onto the bolt and slide them up all the way to the bolt head. Now start to push the bolt through the hole in the back of the cold air intake. Once the bolt is sticking through the hole a little, put the nylon spacer onto the bolt. Then slide the bolt through the space all of the way and tighten into the same place that we took the 5mm allen bolt out of originally.
6. Now find the 10mm bolt, lock washer and flat washer in your kit and install it in the bottom front of the box, if your car is equipped with power steering this will also secure the back of your power steering reservoir.
7. Unwrap your new foam filter and slide it over the 3" tube, tighten the hose clamp securing the filter. It can be a little tight getting to the hose clamp with a screwdriver, you can use a 8mm socket to tighten it instead. The filter is pre-oiled and may have some oil residue in the rubber connector, the filter will stay on more securely if you wipe off the inside of the rubber filter connector before installing the filter.
8. Now find the cover for the Intake in your kit, and the bag of special hardware for installing it that consists of four bolts. Place the cover on the intake box and secure the cover using the hardware provided

Final Clean-up

1. Find the Idle Air Control hose that we moved out of the way earlier and route it in between the supercharger and the cover of your new intake, attaching it back to the supercharger inlet using its original hose clamp.
2. Next find the hose that we disconnected from the back of the original supercharger intake and attach it to the brass fitting on the side of the square to round adapter.
3. Plug your air flow meter back in
4. Put one of the original 10mm bolts back into the front of the power steering reservoir if your car is equipped.
5. Tighten all the hose clamps on the supercharger outlet that we loosened, and the hose clamps on the supercharger inlet going to the Air Flow Meter. It is also a good time to check the rest of the hose clamps on your system to make sure they are all tight.
6. Secure any loose wires and hoses to make sure they will not rub.



Congratulations!

You did it! With the cold air intake installed your supercharger will be able to develop more power and improve your supercharger kit. If you have any questions feel free to call or send us an email. If you have a digital camera, send us a pic of the intake installed on your car, we would love to see it!

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