



Cold Air Intake for Jackson Racing Superchargers 90-93 1.6L 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 Stainless Steel "L" Bracket
- 4 Molded Plastic Square to Round Adapter
- 5 3" Inlet Uni Foam Filter
- 6 Bag of Installation hardware
 - 1 10mm Hex Head bolts Short
 - 1 10mm Hex Head bolt Long
 - 1 13mm Hex Head bolt
 - 2 Flat Washers small
 - 2 Lock Washers small
 - 1 Flat Washer Large
 - 1 Lock Washer Large
 - 1 Nylon 1/2" Spacer
 - 1 Nylon 3/8" Spacer
- 7 Bag of Hardware for Lid Installation
 - 4 Acorn Nut bolts

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Cold Air Intake for Jackson Racing Superchargers 90-93 1.6L Miatas

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:

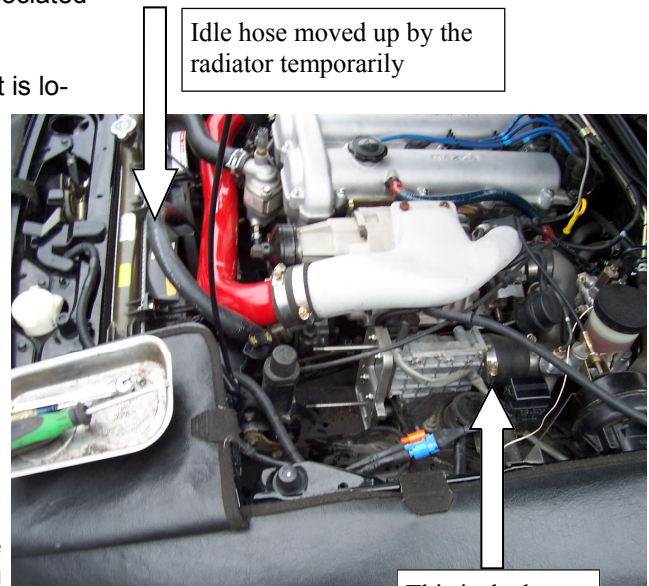
Wrenches: 10mm
Sockets: 8mm, 10mm, 13mm sockets
Socket wrench
Long 8" socket extension
Screwdriver: Short Phillips, Flat Head
Misc: 5mm hex key wrench



Removal of Stock Filter Assembly

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

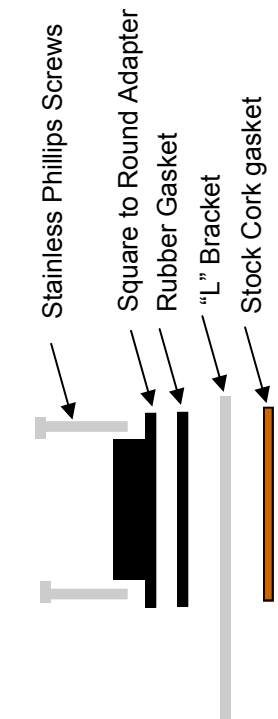
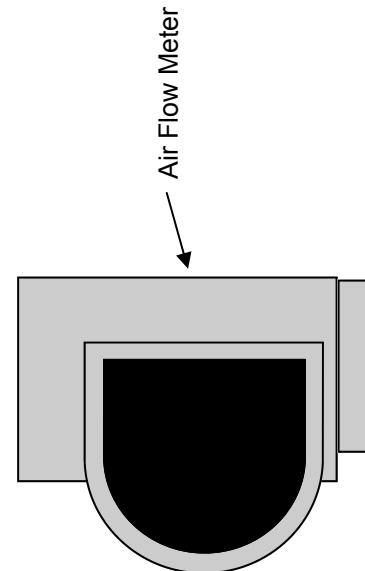
1. Loosen the hose clamp on the Idle Air Control hose that is located just under the brake master cylinder. It is a 3/4" inch hose. Once the hose clamp is loose pull the hose off and secure it close to the radiator, we just want it out of the way for now.
2. Now loosen the two nuts on the front of the 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 remove the Air Flow meter by loosening the hose clamp that attaches the meter, once loosened you should be able to pull the meter towards the front of the car and out of the hose connector. Do not pull too hard on the meter as there is still a wire attached.
4. To remove the connector from the meter, use a small blade screwdriver to remove the clip holding the connector on the meter. You should now be able to remove the meter from the car.

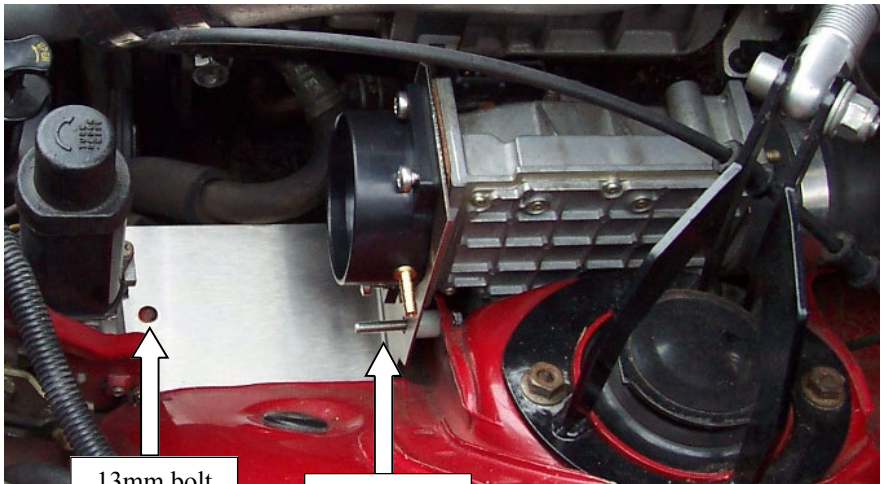


Idle hose moved up by the radiator temporarily

This is the hose clamp you will need to remove, to remove the Air Flow Meter

Installation of Cold Air intake Bracket


1. Now you will need to remove the aluminum plate still attached to the Air Flow Meter. Use your 10mm socket to remove the four nuts holding the plate to the meter. Remove the plate, it will not be re-used in the installation. Some of the earlier supercharger kits also have a rubber hose attached to the plate you just removed, if you does, remove the hose from the plate and move the hose out of the way for now.
2. Next we will need to remove the 4 studs that go into the Air Flow meter. Using a pair of pliers, grab the studs near the base of the meter and gently twist all four of them out. Set the meter aside for now.
3. Now find the long 45mm bolt that is included in the new hardware bag that came with your kit. Install this bolt through the same hole that you removed the hex head bolt from in the earlier step, except we want to install the bolt from the back of the shock support so the bolt is facing towards the front of the car. Tighten the bolt using a 10 mm socket. Find the two plastic spacers that came with the kit, you need to slide the taller of the two spacers over the front of the bolt you just installed.
4. Now put the Air Flow meter back into the car, slip the meter back into the rubber connector.
5. There should be a cork gasket that was on the back of one of the aluminum plates on the stock intake, you will need that for the next step.
6. For the next step you will need the "L" bracket that came with your kit, the square to round adapter, the square to round gasket and the 4 Phillips head stainless screws that came with your kit.
7. Put a stainless screw through the front of the square to round adapter, then slide on the rubber gasket, then the "L" bracket and then the original cork gasket. You should have sandwich that looks like this: 
8. Install the sandwich of items you just made into the car, and hand tighten the four stainless screws into the air flow meter. Make sure that when you slide "L" bracket into place that the 45 mm bolt that you installed earlier slides through the hole in the "L" bracket that is made for it.
9. Your install should look like the picture to the right at this point: 
10. Find the one 13mm bolt that is in your hardware bag and the lock washer and regular washer that goes with it. This bolt will be installed in the big hole near the front of the "L" bracket. You may need to push back on the "L" bracket a little to align everything in place, once the bolt is hand started in the hole, tighten it down with the 13mm socket.
11. Slide the shorter plastic spacer in your hardware bag onto the front of the 45 mm bolt. Make sure all of the bolts and screws are tight, it is time to install the cold air box

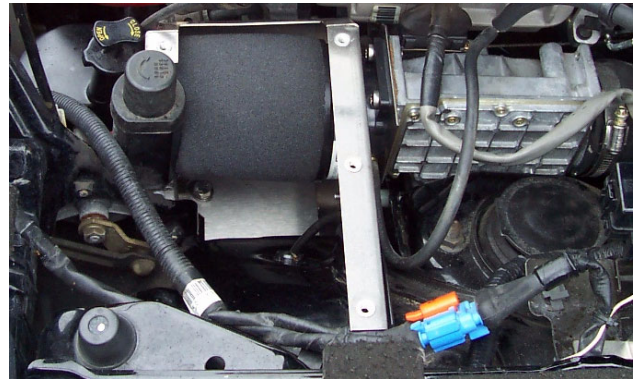


13mm bolt goes here

Second plastic spacer goes here

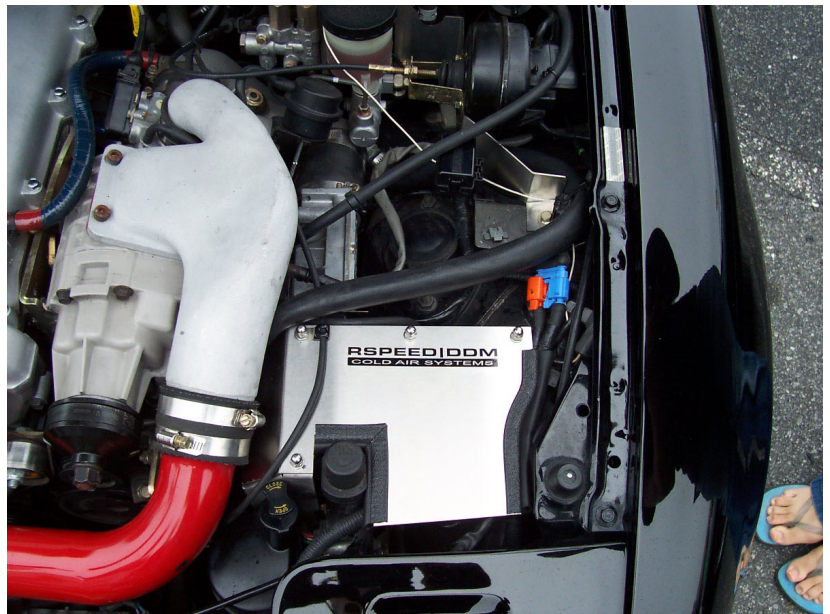
Installation of the Cold Air Box

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. Now find the cold air box in your kit, the big hole on the back will go over the square to round adapter we installed previously. There is also a small hole for the 45mm bolt we installed previously to go through.
4. Carefully place the cold air box into the car making sure 45mm bolt goes through the proper hole and the square to round adapter goes through the bigger hole. 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 10mm nut, lock washer and flat washer in your hardware kit, install these on the 45mm bolt, securing the back of the box.
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 square to round adapter, 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. Your car should look like this at this point: 
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 and washers. 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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