

Thank you for purchasing the Track Dog Racing Idle Air Hose Kit (IAH). The following hose kit is for 1990 to 2000 Miatas using the Jackson Racing M45 superchargers (JRSC). In 2001 JRSC used a smaller IAH that is not as intrusive in the engine area as the 3/4" in earlier models. Most JRSC setups have the 3/4" IAH strung over the fender taking up valuable space and giving the car an incomplete appearance. The TDR Idle Air Hose Kit is designed to redirect the IAH behind the mass flow unit to improve appearance and provide more valuable space for a high performance air filter such as from TDR.

Provided in the kit is our new silicone tape that bonds to itself. This is an excellent product that lends itself to a multitude of applications including wiring and in this application, sealing the hose connection. Visit Track Dog Racing for more information. Installation should take about 10 minutes.



Photo A: Bypass Kit 1 supercharger intake side



Photo B: Bypass Kit 2 dummy throttle body side

1. Disconnect the 3/4" IAH from the air intake pipe and reroute between the header and the fender area. Bring the IAH hose up under the air intake pipe with enough hose to make the connection with the new Bypass Kit.
2. Insert the 3/4" plastic hose fitting into your hose and the Bypass Hose.
3. The Silicone Tape provided seals on its self and does not have adhesives that will become gummy from heat. In fact this Silicone Tape will take up to around 400 F so you know it is good stuff.
4. Use about 6" of the Silicone Tape to get started. You can cut the tape or tear the tape which ever you prefer. Pull the clear backing off the Silicone Tape. Do not let it touch its self as it will want to bond. Because there is no adhesive the tape must bond to itself. Start and finish with the silicone tape on its self.

5. Hold the Silicone Tape on to the IAH and stretch the tape as you wrap around the fitting and hose. As soon as the Silicone Tape touches it will bond. Continue to wrap the Silicone Tape and finish the wrap so it will be on its self as shown in Photo C.
6. Add the remaining Silicone Tape by first letting the tape touch the existing tape to begin the bonding and then stretch and wrap the Silicone Tape as shown in Photo D. Good stuff, huh? No scratches to the fender area from clamps.
7. Cut off about 3/4" from one end of the Bypass Hose as shown in Photo E, this reduces the amount of hose resting on the fender.
8. Attach the Bypass Hose to the intake manifold fitting using your existing 3/4" hose clamp as shown in Photo F.



Photo C: Put silicone tape over hose connection



Photo D: Silicone tape complete



Photo E: Cut 3/4" off the intake fitting side



Photo F: Attach bypass hose using existing clamp

9. Pull the slack out of the IAH and confirm that the IAH does not rest on the header. If you do not have the Track Dog Racing Header Shield we strongly recommend it to eliminate most of the heat transfer from the exhaust header into the supercharger, throttle cable assemble and heat into the engine compartment.
10. Run the IAH about a 1/3 of the way down from the top of the radiator to make it less obvious. If you have the IAH Check Valve (good for about .5 PSI, some JRSC did not have them, contact TDR) a good installation spot is between the two radiator fans as shown in Photo J. Be sure you install the Check Valve the right direction; it should allow air to suck into the dummy throttle body (DTB).
11. If you have the Bypass IAH Kit 2 then you also have the 90 deg. hose fitting for the dummy throttle body as shown in Photo B. The IAH Kit 2 comes standard on the TDR Intercooler kits.



Photo G: Apply silicone tape around fitting



Photo H: IAH attached to dummy throttle body



Photo I: Cut IAH to proper length











Photo J: Attach IAH to check valve.

12. Attach the 3/4" plastic hose fitting to the 90 deg. hose and the 3/4" IAH hose as shown in Photo G. Cut to length the IAH as necessary.
13. Attach the Silicone Tape to seal off the fitting using the same method in Steps 4-6 above.
14. Our usually placement for the Check Valve is between the radiators as shown in Photo J. Cut the IAH hose to the length necessary to allow ample room to attach.
15. Install the Check Valve to the section of hose that will go to the dummy throttle body and secure with a clamp.
16. Attach the 90 deg. IAH hose to the dummy throttle body and secure as shown in Photo H.
17. Cut the remaining IAH hose to length, but make sure you have ample space around the power steering, header and other areas of concern. Secure with hose clamp when complete.

This completes the installation of the Bypass Hose Kit that improves the appearance of the JR Supercharger setup. We also have many other TDR upgrades that you might want to consider including the Air Filter Kit, Heat Shield, A/A Intercooler just to name a few.

We hope you will be pleased with our products and will consider us a gain for your next upgrade. If at any time you need assistance please feel free to contact us by phone or email at [support@trackdogracing.com](mailto:support@trackdogracing.com).

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TDR Heat Shield	Air Filter Kits	A/A Intercooler Kits	Fuel Injector Kits
			
'90-97 Radiator Cover	Console Gauge Kit	Belt Tensioner Bracket	SC Oil Replacement Kit