

CorkSport Mazdaspeed Protégé Intercooler Hoses

2002-2003.5 Mazdaspeed Protégé



Thank you for purchasing the **CorkSport Mazdaspeed Protégé Intercooler Hose Kit**. This kit has been designed and tested to be a direct bolt-on replacement for the OEM intercooler hot and cold pipe. By installing the CorkSport Mazdaspeed Protégé Intercooler Hose Kit, you should expect to see improved throttle response and better flow capacity. We hope you enjoy your new replacement hoses. Please let us know your feedback by submitting a review at www.corksport.com/corksport-mazdaspeed-protége-intercooler-hose-kit.html

Pre-Installation Notes:



Make sure your vehicle is completely cooled down prior to starting installation. If you are going to work on your car within an hour or two of having driven it, use a fan to cool off the car.



These instructions were written for reference only and the use of a factory service manual is recommended. Please read these instructions thoroughly prior to starting installation



How our instructions work: To best cover all of our customers experience levels, we have included an overview checklist for the more technically advanced users along with step-by-step instructions for customers that require additional detail.



These installation instructions are for use with a 2002-2003.5 Mazdaspeed Protégé.

Materials and Time:



General Info.

Part #: 99p-6-210
Time Est: 1-1.5 hours
Wrench Rating: 2/5



Tooling List

3/8" Drive Ratchet
10mm Socket
Phillips Screwdriver
Pliers
Silicone Spray



Parts List

CorkSport Intercooler Hose Set
Three (3) 57-65 T-Bolt Clamps
One (1) 70-78 T-Bolt Clamps

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Checklist

This is an overview of each step in the build. You can use this as a reference and a checklist as you button up the work on your car


1. Remove the Factory Intercooler Piping

 These instructions are made for all 2002-2003.5 Mazdaspeed Protégés.

- 1a) Let the engine cool off
- 1b) Remove the stock clamp on the by-pass valve (BPV) hose (circled in **Figure 1a**)
- 1c) Slide the heat shielding up on the turbo connection on the stock hot-pipe (turbo to intercooler pipe) (see **Figure 1c**)
- 1d) Disconnect the stock hot-pipe from the turbocharger
- 1e) Disconnect the hot-pipe from the top of the intercooler and remove from vehicle
- 1f) Unbolt the vacuum solenoid from the cold-pipe (intercooler to throttle body pipe)
- 1g) Loosen the clamp on the cold-pipe/throttle body connection and remove the pipe
- 1h) Unclip the two electrical connections from the air box (red circles in **Figure 1f**)
- 1i) Loosen the clamp connecting the intake to the air box.
- 1j) Remove the air box by removing the 10mm bolt and 10mm nut (circled in **green** in **Figure 1f**)
- 1k) Disconnect the cold-pipe from the intercooler
- 1l) Remove the cold-pipe from the car

2. Install the CorkSport Intercooler Hoses

- 2a) Install the 70-78mm and 57-68mm clamp onto the CorkSport cold-pipe (see **Figure 2a**)
- 2b) Install the cold-pipe onto the throttle body (see **Figure 2b**)
- 2c) Install the pipe onto the bottom of the intercooler (see **Figure 2c**)
- 2d) Install two (2) 57-65mm T-Bolt clamps onto the CorkSport hot-pipe
- 2e) Install hot pipe and Slide the stock heat shielding over the CorkSport hot-pipe (see **Figure 2d**)
- 2f) Install the hot-pipe onto the top side of the intercooler (see **Figure 2d**)
- 2g) Install the hot-pipe onto the turbocharger (see **Figure 2f**)
- 2h) Connect the factory BPV hose to the aluminum tube on the CorkSport hot-pipe (see **Figure 2g**)
- 2i) Reinstall the air box (see **Figure 2h**)
- 2j) Reconnect the intake using the factory clamp (see **Figure 2h**)
- 2k) Reconnect the two electrical connections (see **Figure 2h**)
- 2l) Relocate the vacuum lines and solenoid

 **This completes the installation of your CorkSport Intercooler Hoses. Take your vehicle for a test drive. If you experience any loss of power or a check engine light, recheck all connections to the hoses and make sure they are fully secured.**

Detailed Instructions

1. Remove the Factory Intercooler Piping

- A) **Let the engine cool off thoroughly.** If needed, use a fan to cool off the intercooler piping and turbo.
- B) **Remove the stock clamp on the by-pass valve (BPV) hose.** Use pliers to squeeze the clamp (circled in **Figure 1a**) and slide it back on the hose. Slide the hose off of the stock intercooler piping.
- C) **Slide the heat shielding up on the turbo connection** (see **Figure 1c**) on the stock hot pipe (turbo to intercooler pipe) to reveal the clamp holding the pipe onto the turbo. The location of the turbo connection of the hot-pipe is circled in **green** in **Figure 1b**.
- D) **Disconnect the stock hot pipe from the turbocharger** by loosening the clamp with a Phillips screwdriver. Pull up on the pipe to free it from the turbo.
- E) **Disconnect the hot-pipe from the top of the intercooler.** The intercooler connection of the hot-pipe is circled in **red** in **Figure 1b**. Loosen the clamp on the hot pipe. Rotate the pipe up. To remove the pipe wiggle it back on the connection and push down. [If you need help removing this pipe please see a video here.](#) Remove the stock rubber band on this connection.
- F) **Unbolt the vacuum solenoid from the cold-pipe** (intercooler to throttle body pipe) just before the throttle body, using a 10mm socket. The location of the solenoid is circled in **Figure 1d**. Set this solenoid and vacuum lines out of the way.

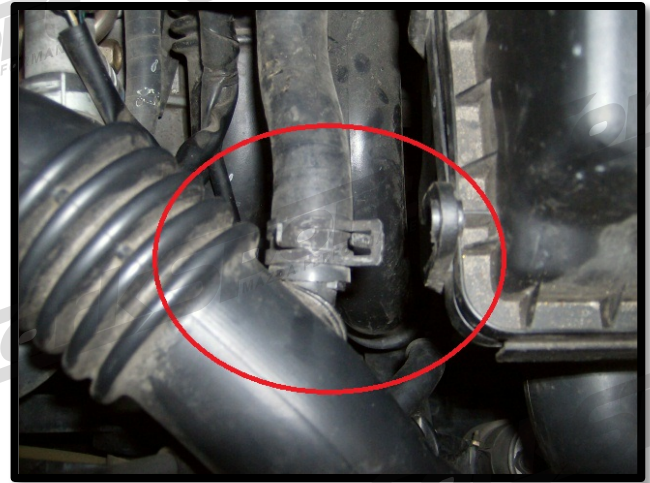


Figure 1a

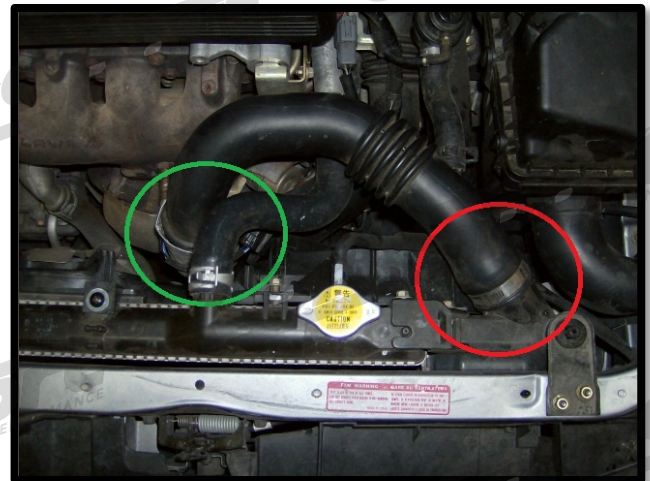


Figure 1b



Figure 1c




Figure 1d

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1. Remove the Factory Intercooler Piping (Continued)

G) Loosen the clamp on the cold pipe/throttle body connection (circled in red in Figure 1e). Pull the pipe towards the front of the car to remove.

 Watch out for the strut bar when removing the pipe from the throttle body as it will break if it comes in contact with the strut bar.

H) Unclip the two electrical connections running to the factory airbox (points of connection shown in red circles in Figure 1f, but connections removed already). Remember which connection goes where for when you reinstall them.

I) Loosen the clamp connecting the intake to the airbox. (See blue circle in Figure 1f)

J) Remove the air box by removing the 10mm bolt and 10mm nut that are circled in green in Figure 1f. Pull out the airbox and set off to the side.

K) Disconnect the cold-pipe from the intercooler. Loosen the clamp connecting the cold-pipe to the bottom of the intercooler (shown in Figure 1g, looking down from the air box). Remove the cold-pipe by pushing down on the pipe. [For a how-to please see this video.](#) Remove the stock rubber band on this connection.

L) Remove the cold-pipe from the car.

2. Install the CorkSport Intercooler Hoses

A) Install the provided T-Bolt clamps onto the cold-pipe (shown in Figure 2a). The 70-78mm clamp goes on the throttle body side of the piping. The 57-65mm clamp goes on the intercooler side of the piping.



Figure 1e

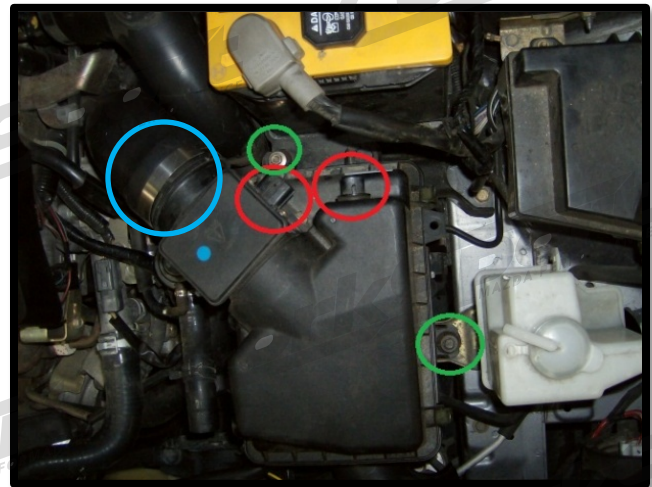


Figure 1f



Figure 2a



Figure 1g

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2. Install the CorkSport Intercooler Hoses (continued)

- B) Install the pipe onto the throttle body.** Tighten the clamp using a 10mm socket (see **Figure 2b**).
- C) Install the pipe onto the bottom of the intercooler.** Tighten the clamp using a 10mm socket (see **Figure 2c**).
- D) Install the remaining two (2) 57-65mm T-Bolt clamps** onto the CorkSport hot-pipe
- E) Install pipe then slide the stock heat shielding over the hose** to help protect the intercooler piping from the heat of the exhaust manifold and turbocharger (see **Figure 2d** showing hose installed with shield).
- F) Install the hot-pipe onto the top side of the intercooler.** Tighten the T-Bolt clamp using a 10mm socket (see **Figure 2e**).



Figure 2b



Figure 2c



Figure 2d



Figure 2e

- G) Install the hot-piping onto the turbocharger.** Tighten the T-bolt clamp using a 10mm socket (see **Figure 2f**).

- H) Connect the factory BPV hose to the aluminum tube on the CorkSport hot-pipe.** Using pliers move the factory clamp to the end of the hose to clamp onto the aluminum tube (see **Figure 2g** to see how it looks installed).

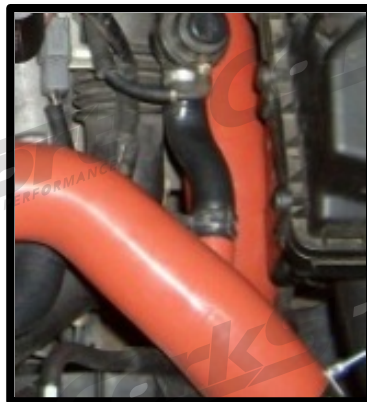


Figure 2g

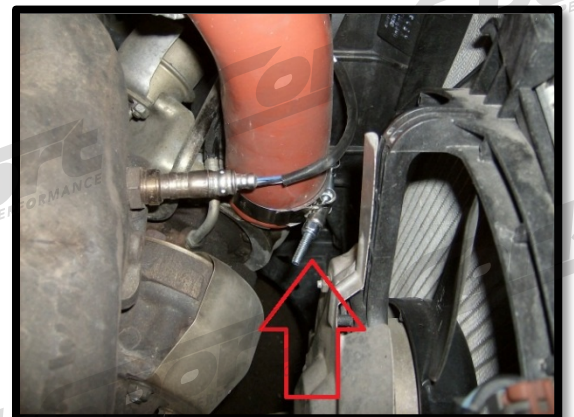


Figure 2f

2. Install the CorkSport Intercooler Hoses (continued)

- I) Reinstall the air box by setting it into place and reinstalling the bolt and nut using a 10mm socket. The bolt is circled in red and the nut is shown by the red arrow in Figure 2h.
- J) Reconnect the intake using the factory clamp. Tighten the clamp (blue arrow in Figure 2h).
- K) Reconnect the two electrical connections to the air box (green circles in Figure 2h).
- L) Relocate the vacuum lines and solenoid to another location.

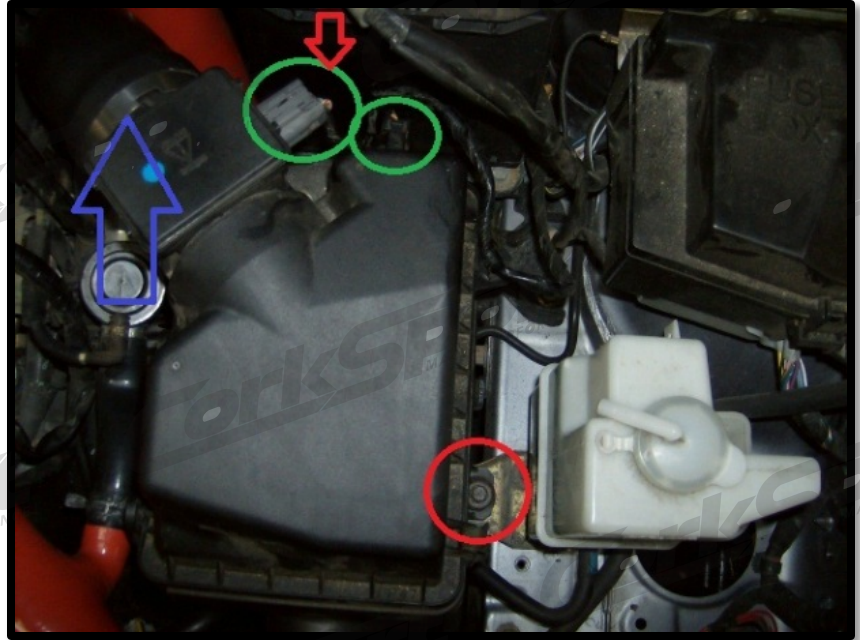


Figure 2h



This completes the installation of your CorkSport Intercooler Hoses. Take your vehicle for a test drive. If you experience any loss of power or a check engine light, recheck all connections to the hoses and make sure they are fully secured.

What's Next:

[CorkSport Mazdaspeed Protégé Skid Tray](#)



Get solid protection against rocks and road debris and prevent damage to key components of your Protégé undercarriage with the CorkSport 2001-2003 Protégé Skid Plate. Made from 0.090" precision machined aluminum, the CorkSport Skid Plate will provide maximum protection while adding minimal weight to the body of your vehicle. This one-piece precision bent skid plate is angled for a tight fit and structural rigidity and is CAD designed to mount further back on the sub frame with extra attachment points so it won't snag or hang up on objects under your vehicle.