

CorkSport Silicone Coolant Hoses 2010+ Mazdaspeed 3



WARNING: Coolant can be very dangerous to pets. It tastes sweet to them but ingesting it can be fatal. Be sure not to leave any -- even a small puddle -- where an animal could drink it.



Note: Always wear safety Glasses when working on vehicles or exposing yourself to vehicle fluids.



Note: These instructions were made using the stock spring clamps. Band clamps have been included for the two larger hoses to ensure a secure fit.



Note: Wait for the engine to cool down for at least 20 minutes before beginning any work on the cooling system.



Note: These instructions are for replacing the coolant hoses only. You may find it easier to install these with the undertray and/or the intake removed.

Part Number: Axl-6-092 Time Estimate: 90-120 Min Wrench Rating: 3/5	Model Mazda 3	Year 2010+	Trim Mazdaspeed 3 (2.3L DISI Engine)
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TOOLING LIST:
10mm long socket
Pliers
Antifreeze
Coolant Catch Can
Safety Glasses
3/8" drive ratcheting wrench

PARTS LIST:
CorkSport Silicone Upper Radiator Hose
CorkSport Silicone Lower Radiator Hose
CorkSport Silicone Radiator Overflow Hose
CorkSport Silicone Engine Overflow Hose
(4) 38-43mm T-bolt Clamps







For help with installation, call 360-260-CORK (2675)

Installation Instructions:

Corksport Silicone Coolant Hoses

2010+ MazdaSpeed3

How the Instructions Work

To best cover all of our customers experience levels and familiarity with the systems on their Mazda, we have broken our instructions down into numbered steps, each of which has the core information in the header with additional detail as needed depending on your experience. If you have a high level of experience, you can just use the checklist below and then skip to the step number where you need help or assistance. Video assistance may also be available for certain steps and is indicated by the HD icon:  Areas where there is a safety concern are indicated by the warning icon:  Cautionary areas (where parts are fragile, etc) are indicated by the caution icon:  Key tips are indicated with the light bulb icon: 


Overview/Checklist:

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


1. Allow The Engine to Cool Down

 **Warning:** Wait at least 20 minutes after turning the engine off before attempting installation as the coolant will be hot.

2. Remove & Install the Overflow Tank Lines

- 2a) Remove both overflow lines from the overflow bottle using the pliers.
- 2b) Remove the two (2) lines from the radiator clips that hold them in place.
- 2c) Install the two (2) silicone overflow lines using the factory spring clamps and pliers.
-  **Note:** Either line can attach to either overflow bottle nipple.
- 2d) Remove the engine overflow line from the engine and install the silicone line utilizing the factory spring clamp and pliers.
- 2e) Remove the radiator overflow line from the radiator and install the silicone line utilizing the factory spring clamp and pliers.

3. Remove & Install the Upper Coolant Hose

- 3a) Remove the upper coolant hose from the intake side of the engine using the pliers.
-  **Note:** Be sure to have the coolant catch can in place to catch any coolant.
- 3b) Remove the upper coolant hose from the radiator by using the pliers.
- 3c) Install the silicone upper coolant hose by installing the radiator and engine sides of the hose using the supplied band clamps and 10mm long socket with 3/8" drive ratchet.







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Overview/Checklist:

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

4. Remove & Install the Lower Coolant Hose

- 4a) Remove the lower coolant hose from the passenger side of the radiator.
- 4b) Remove the lower coolant hose from the passenger side of the engine.
- 4c) Remove the lower coolant hose from the overflow bottle.
-  Note: You may choose to unclip the overflow bottle to gain access to the lower hose.
- 4d) Install the larger diameter straight section of the lower coolant hose onto the engine.
- 4e) Install the larger diameter curved section of the lower coolant hose onto the radiator.
- 4f) Install the longer, final section of the hose onto the coolant overflow bottle return.

5. Refill Vehicle With Coolant

- 5a) Remove the overflow fill cap and fill with a 50/50 mix of coolant and water up to the max fill line and replace the cap.
-  Note: Personal preference may be a 50/50 mix of coolant and either deionized water or distilled water.
- 5b) Start the engine and let it come up to operating temperature. Check coolant hoses for leaks. Shut off the engine and let it cool down. Top off coolant if needed.
- 5c) Enjoy your new CorkSport Silicone Coolant Hoses.

Installation Instructions:

CorkSport Silicone Coolant Hoses 2010+ Mazdaspeed 3

1: Allow The Engine to Cool Down



Warning: Wait for the engine to cool down for at least 20 minutes, before beginning any work on the cooling system. Antifreeze inside the radiator can reach temperatures over 200 degrees F. Place a large pan or wide bucket on the ground under the hoses to catch the coolant.

2: Remove & Install the Overflow Tank lines

A) Using the pliers, remove both (2) the engine and radiator overflow lines by squeezing the spring clamp and pulling the hoses off of the overflow bottle nipples (See **Figure 1A** below).

B) Remove the lines from the clips holding them in place along the top of the radiator support and let them drain into the coolant catch can.

 Note: Either line can attach to either overflow bottle nipple.

C) Using the pliers, install the spring clamps onto the CorkSport Silicone Coolant hoses and install the hoses onto the overflow bottle. (See **Figure 1B** below).



Figure 1A



Figure 1B

D) Remove the engine overflow line from the engine once it has stopped draining coolant (**Figure 2A**) and install the engine overflow silicone line utilizing the factory spring clamp (**Figure 2B**).



Figure 2A



Figure 2B

Installation Instructions: Corksport Silicone Coolant Hoses 2010+ Mazdaspeed 3

E) Remove the radiator overflow line from the radiator once it has stopped draining (Figure 3A) and install the radiator overflow silicone line utilizing the factory spring clamp (Figure 3B).



Figure 3A



Figure 3B

3: Remove & Install the Upper Coolant Hose

- A) Remove the upper coolant hose from the driver's side of the engine by removing the factory spring clamp (larger diameter hose in Figure 2A).
- ⚠ Note: Be sure to have the coolant catch can in place under the line as there will be coolant in the line.
- B) Remove the upper coolant hose from the driver's side of the radiator by removing the factory spring clamp (larger diameter hose in Figure 4A).
- C) Install the silicone upper coolant hose by installing the radiator and engine side of the hose (Figures 4B & 4C respectively) using two (2) of the supplied T-bolt clamps and 10mm socket and ratchet.
- ⚠ Note: You may also use the stock spring clamps, as shown in the pictures, but they may be more difficult to put on than the T-bolt clamps (not shown in images). Additionally, Figure 4C shows the retaining clip that holds the overflow hose to the upper coolant hose. This is optional to put onto the new silicone hoses as they are more rigid than the factory hoses.

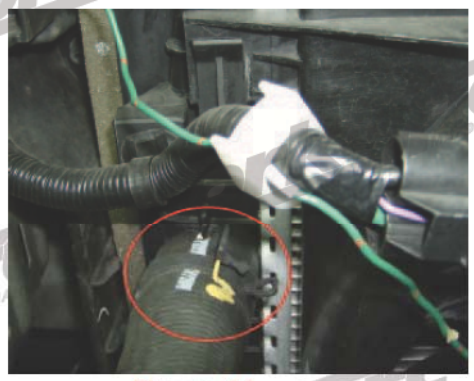


Figure 4A

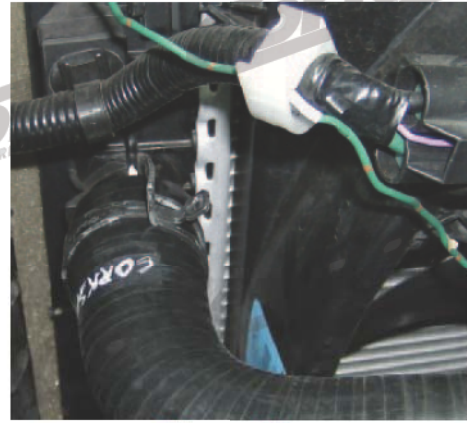


Figure 4B



Figure 4C

Installation Instructions:

Corksport Silicone Coolant Hoses 2010+ Mazdaspeed 3

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4: Remove & Install the Lower Coolant Hose

A) Remove the lower coolant hose from the passenger side of the radiator by removing the factory spring clamp (red circle in **Figure 5A**) using the pliers.

B) Remove the lower coolant hose from the passenger side of the engine by removing the factory spring clamp (red circle in **Figure 5B**) using the pliers.

C) Remove the lower coolant hose from the overflow bottle by removing the factory spring clamp using the pliers (**Figure 5C**).

Note: The lower coolant hose is hard to see as it is on the bottom of the overflow bottle. You may choose to unclip the overflow bottle to gain better access to the bottom of it.



Figure 5A



Figure 5B



Figure 5C

D) Install the larger diameter straight section of the lower coolant hose onto the engine using the supplied T-bolt clamp (**Figure 6A**) and 10mm long socket with ratchet.

Note: Be sure that the rest of the hoses are in the right orientation before tightening the T-bolt clamp.



Figure 6A

Installation Instructions: CorkSport Silicone Coolant Hoses 2010+ Mazdaspeed 3

4: Remove & Install the Lower Coolant Hose - Continued

E) Install the larger diameter curved section of the lower coolant hose onto the radiator using the supplied T-bolt clamp (Figure 6B) and 10mm long socket and ratchet.



Figure 6B



Figure 6C

F) Install the longer final section of the hose onto the coolant overflow bottle return nipple using the factory spring clip and pliers (Figure 6C).

5: Refill Vehicle With Coolant

A) Remove the overflow fill cap (red circle in Figure 7) and fill with a 50/50 mix of coolant and water up to the Max fill line (green oval in Figure 7) and replace the cap.

⚠ Note: Personal preference may be a 50/50 mix of coolant and either deionized water or distilled water.

B) Start the engine and let it come up to operating temperature (2-3 minutes). While the vehicle is idling, check and make sure that all connections are secure and no coolant is leaking. Also, the coolant level may drop while the engine purges any air bubbles. If the coolant level drops, let the car cool down, unscrew the coolant cap, and refill to the Max line.

C) Enjoy your new CorkSport Silicone Coolant Hoses.



Figure 7