

INSTALLATION INSTRUCTIONS



CORKSPORT Coolant Temperature Sensor Housing *General Application*

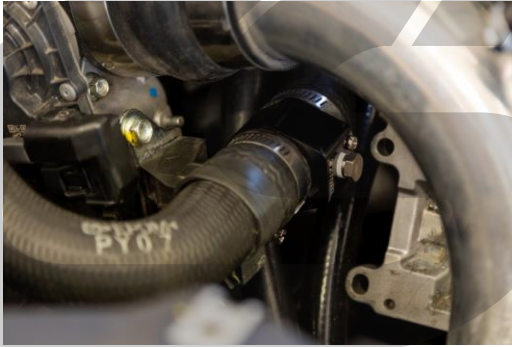
PART #: GEN-9-349-10

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CORKSPORT Coolant Sensor Housing *General Application*

PRODUCT DESCRIPTION:

Want to add a Corksport coolant temperature gauge and need a way to install the sensor? Well that's exactly what the Coolant Temperature Sensor Housing is designed to do. With a diameter of 32mm it fits most of the radiator coolant hoses found on a Mazda. Made from aluminum and anodized black to provided a clean aesthetic inside of the engine bay. <https://corksport.com/mazda-32mm-coolant-temperature-adapter-port.html>

PRE-INSTALLATION NOTES:



Verify that the car is on a level surface before proceeding. Use appropriate load rated jack stands to support the vehicle.



Do not remove the radiator cap or radiator drain plug while the engine is running or when the engine and radiator are hot. Wait until the motor has cooled down to start installation.



These instructions were written for reference only and the use of a factory service manual is recommended.



How our instructions work: To best cover all of our customers experience levels, we have included a table of contents/order of operations along with step-by-step instructions.



These instructions were written using a 2018 Mazda 3 upper radiator hose. Other models will share the same procedure.

MATERIALS & TIME:

GENERAL INFO:



Time Est:
1hr



Difficulty:
2/5



CEL:
No



Warranty:
2-Year

TOOLING LIST:

- Hydraulic Jack
- Jack Stands
- Drain Pan
- Pliers
- Marker
- Hose Cutter or Utility Knife
- 1/4" Drive Ratchet
- 7mm Socket
- Flathead Screwdriver




PARTS LIST:

- One (1) CorkSport Coolant Sensor Housing
- Two (2) 3/4" - 1 3/4" Hose Clamps

ADDITIONAL PARTS:

- Engine Coolant

ORDER OF OPERATIONS & TABLE OF CONTENTS:

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DETAILED INSTRUCTIONS:

1. Drain Engine Coolant



Verify that the car is on a level surface before proceeding. Use appropriate load rated hydraulic jack and jack stands to support the vehicle.

a) **Engage the parking brake and raise the front of the vehicle with a hydraulic floor jack**, then support with jack stands.



Please refer to the owners manual for proper jack stand location.

b) **Remove the engine under tray** to gain access to the radiator drain plug using the necessary tools for your specific application.

c) **Place a drain pan under the radiator** positioned below the radiator drain plug.



Do not remove the radiator cap or radiator drain plug while the engine is running or when the engine and radiator are hot. Wait until the motor has cooled down to continue.

d) **Undo the radiator cap and loosen the radiator drain plug** and empty the coolant into the drain pan.

e) **Tighten the drain plug** after the coolant has finished draining.

2. Select the Correct Radiator Hose



This step is unique to your car and will vary depending on how your cooling system is designed.

a) **Determine which radiator hose has the coolant flow going from the engine to the radiator.** By selecting this radiator hose it will provide an accurate engine temperature. If the other radiator hose is selected then the coolant sensor will read the temperature leaving the radiator which will be lower than the engine temperature.



To select the radiator hose that flows from the engine to the radiator the following options can be used to determine which is the correct hose:

- The first option is to use the factory service manual and find the coolant flow chart to determine which radiator hose is correct.
- The other option is to start your car and feel which radiator hose heats up first.



Be careful when feeling the radiator hoses because they will get hot. Also do not put your hands near any fans or belts.

DETAILED INSTRUCTIONS:

3. Pick the Coolant Sensor Housing Location

f) After you have identified the correct radiator hose find a **straight section** in the radiator hose that is **~2.75in or 70mm long** that you want to place the coolant sensor housing in.



Double check to make sure that you have enough wire length for the coolant sensor to make it back to the coolant gauge.

g) Mark the outer edges of the coolant sensor housing on the hose as shown in **Figure 3a**.

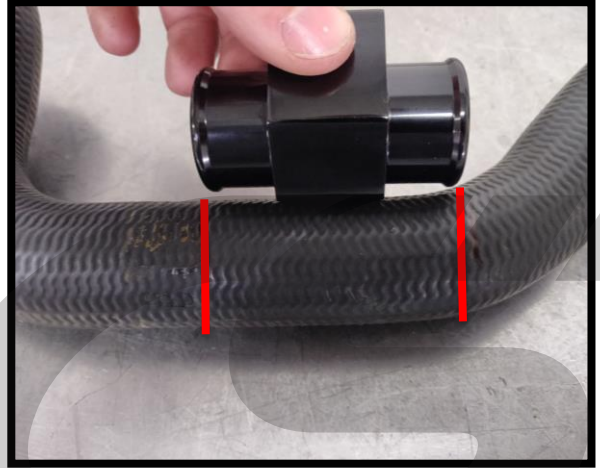


Figure 3a

4. Installing the CorkSport Coolant Sensor Housing

a) If there is enough room with the radiator hose still installed in the car you can install it there, **otherwise remove the radiator hose for the coolant sensor housing install.**

b) Line up the coolant sensor housing with the marks made in the previous step and mark the inner edges of the housing as shown in **Figure 4a** with the **blue lines**. This will be the section of radiator hose that will be cut out.

c) Cut the two inner **blue lines** either with a hose cutter or utility knife as shown in **Figure 4b**

Figure 4a

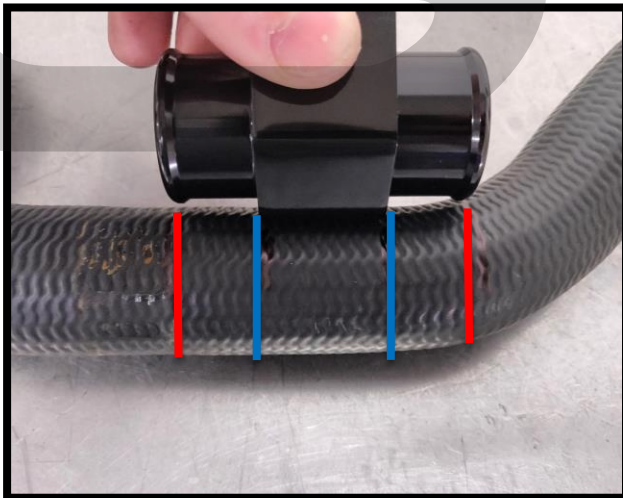


Figure 4b

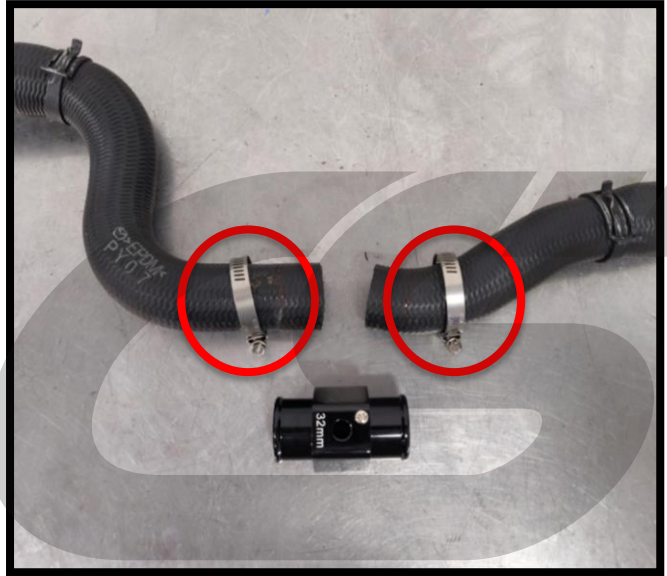


DETAILED INSTRUCTIONS:

4. Installing the CorkSport Coolant Sensor Housing (continued)

- d) Place the two included hose clamps over each end of the radiator hose as seen in **Figure 4c**.
- e) Install the coolant sensor housing in to the radiator hoses and orientate the top of the housing to where you want the sensor to be located at. Once in the desired position **tighten down the hose clamps with either a 7mm socket and ratchet or using a flat blade until both are snug as shown in Figure 4d**.
- f) Install your coolant sensor in the housing using Teflon tape or other thread sealant and tighten until snug.

Figure 4c



5. Reinstall Radiator Hose and Refill Coolant

- a) Reinstall the radiator hose in the reverse order it was removed in.
- b) Refill the engine coolant and check for any leaks.
- c) After the coolant is topped off **put the radiator cap back on and start the car**.



On first startup, check for any coolant leaks. Monitor engine temperatures for the first few drives to ensure no air bubbles or leaks in the system. Double check coolant level and top it off if needed.

- e) Reinstall the engine under tray

Figure 4d



**This completes the installation of your CorkSport Coolant Sensor Housing.
Enjoy the accurate coolant temps!**

WHAT'S NEXT?

CorkSport Adjustable Shock/Strut Assembled Package

Improve the ride and handling of your Mazdaspeed 3 with the CorkSport Adjustable Struts and Shocks, lowering springs, and camber plates. We've taken our performance lowering springs, rebound adjustable struts/shocks, and camber plates and combined them with quality OE pivot bearings, bump stops, and dust boots to create a complete package deal. This package deal comes to your door pre-assembled and ready to install. No need to fight with a spring compressor or risk damaging the OE components that would typically be reused. All this and a savings of \$70 vs. purchasing separately.



CorkSport Mazdaspeed Turbocharger

Experience a boost in performance with our drop-in Mazdaspeed turbocharger. It easily bolts in and replaces your undersized OEM turbo with NO mechanical modifications. The CorkSport turbo supports a range of 250-450 horsepower in your Mazdaspeed. If your Mazdaspeed 3 or Mazdaspeed 6 turbo is worn out or is smoking, you need our turbo. Add the power without the hassle today!



CorkSport Mazdaspeed Camshafts

The CorkSport Mazdaspeed Performance Camshafts are developed with the latest design, manufacturing, and casting technologies and ground to CNC precision for the best performance for your Mazdaspeed. Near factory idling cams for the daily driver and even the aggressive track driver bringing improvement in throttle response and torque to your Mazdaspeed.

