

INSTALLATION INSTRUCTIONS



CORKSPORT **Boost/Vacuum Block**

General Application

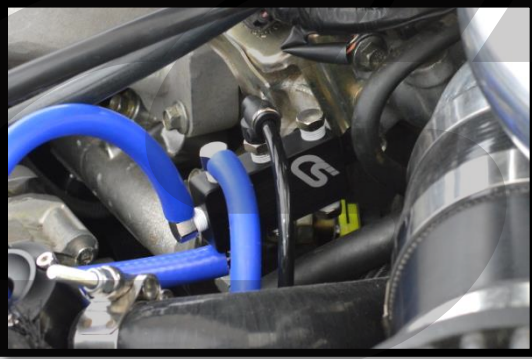
PART #: GEN-6-533-10 & -11

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deliver - every time.*

CORKSPORT.COM




CORKSPORT **Boost/Vacuum** **Block** *General Application*

PRODUCT DESCRIPTION:


The CorkSport Vacuum Block enables you to organize your vacuum/boost sources to improve the look of that engine bay. At just over 1/2 the size of a credit card, the CS distribution block fits just about anywhere so you can decide just how you want to route your vacuum lines. Say goodbye to having to tee into your existing lines for boost gauges, aux fueling controllers, or other add-ons and simply use one of the 7 ports of the CS vacuum block.

Please let us know your feedback of the by submitting a review at: <https://corksport.com/vacuum-boost-distribution-block.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.**

 **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 2007 Mazdaspeed 6. Other years and/or models will be similar.**

 **These instructions were written as a general guide for installing the CS Boost/Vacuum Block. As every build is different, you may need to choose different fittings, a different mounting location, or different hose routing to work best on your car.**

MATERIALS & TIME:

GENERAL INFO:



Time Est:
1hr



Difficulty:
2/5



CEL:
No



Warranty:
2-Year

TOOLING LIST:

- 8mm Wrench
- 10mm Wrench
- 11mm Wrench
- 12mm Wrench
- 13mm Wrench
- 8mm socket
- 10mm Socket
- 12mm Socket
- 1/4" or 3/8" drive Ratchet
- PTFE Thread Sealant

PARTS LIST:

- One (1) CorkSport Boost/Vacuum Block
 - Four (4) 1/8" NPT Plugs
- Optional Fittings Kit:
- One (1) 1/8" NPT 90° Push Fitting
 - One (1) 1/8" NPT Straight Push Fitting
 - Two (2) 1/8" NPT 90° Barb 3/16" ID
 - One (1) 1/8" NPT 90° Barb 1/4" ID

OPTIONAL PARTS:

(as needed to suit your car)

- Misc 1/8" NPT Fittings
- 3/16" ID Vacuum Hose
- 1/4" ID Vacuum Hose
- Misc M6/M8 Mounting Hardware

ORDER OF OPERATIONS & TABLE OF CONTENTS:



CORKSPORT VACUUM/BOOST BLOCK INSTALLATION PLAN

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CORKSPORT VACUUM/BOOST BLOCK INSTALLATION

Section 3: NPT Fitting Preparation and Installation

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Section 4: CorkSport Vacuum/Boost Block Installation

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DETAILED INSTRUCTIONS:

1. Mounting Location Plan

NOTE These instructions were written as a general guide for installing the CS Boost/Vacuum Block. As every build is different, you may need to choose different fittings, a different mounting location, or different hose routing to work best on your car.

- a) Find an available location in the engine bay that fits the vacuum block well. Ensure good access to your required ports and plenty of room for vacuum fittings and hose routing. Potential mounting locations for Mazdaspeeds:
- Lower fuel pump housing mounting bolt (shown in **Figure 1a**)
 - BPV mounting bolt
 - T-Bolt Clamp mounting stud
 - Top of fuel pump housing (works best with a wire tuck)

NOTE The vacuum block is sized to work with M6 or M8 mounting hardware. If using an existing bolt/stud, ensure there is plenty of thread engagement once the vacuum block is installed. Longer hardware will be required for certain mounting locations.

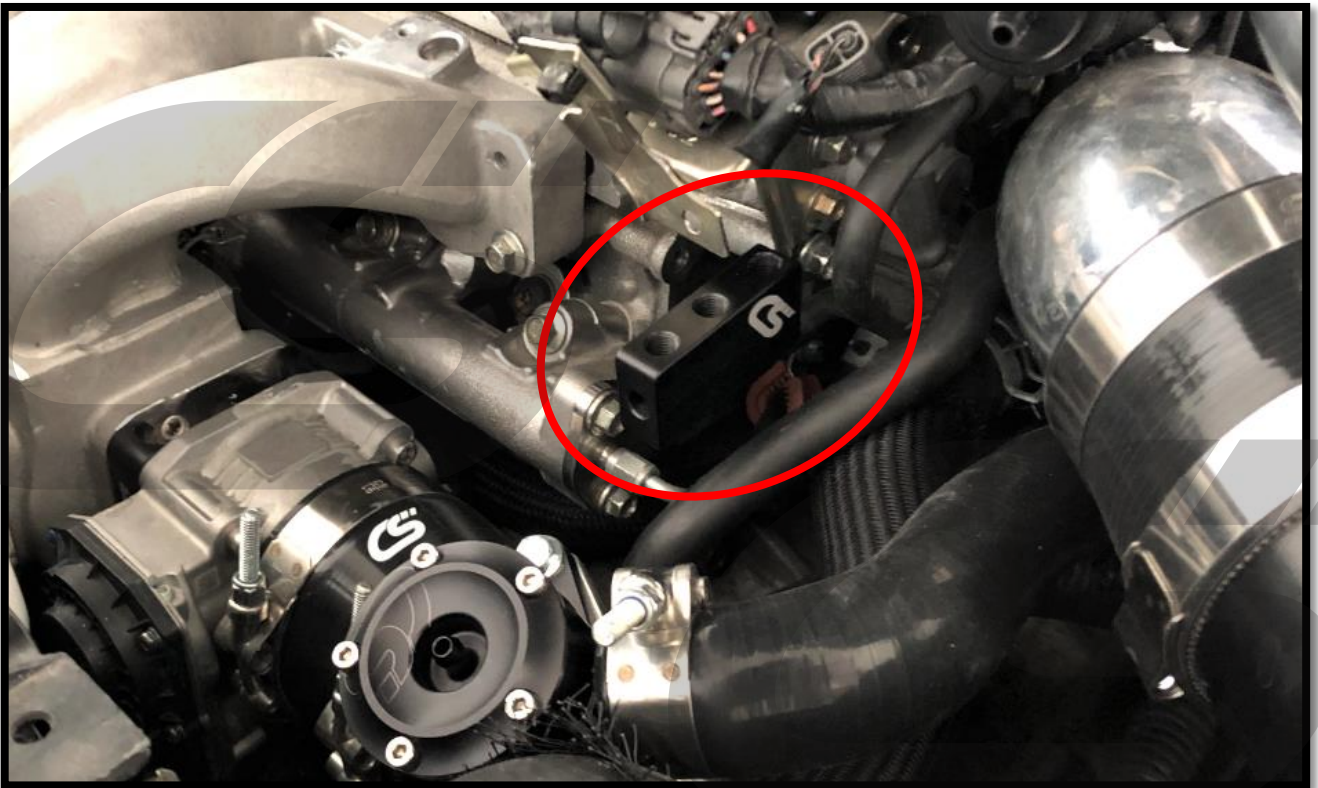


Figure 1a

DETAILED INSTRUCTIONS:

2. Fitting and Hose Routing Plan

- Determine which vacuum/boost sources you would like to stem from your CS vacuum/boost block. The installation shown in **Figure 2a** below, was planned for the intake manifold as the source, with outlets for the bypass valve, a methanol controller, and a boost gauge.
- We recommend using the intake manifold as your vacuum/boost source using a 1/4" ID fitting and hose. Take this into account when planning out your hose routing.
- For each port on the CS vacuum/boost block, plan what hose/fitting you will use and where they will route.

NOTE The three upper and lower ports of the CS vacuum/boost block do not have even hole spacing. This is to allow for extra clearance for different NPT fittings. Ensure your fittings can be tightened properly while planning out your boost block install.

NOTE At this stage, evaluate if you need extra fittings, vacuum hose, or plugs. All ports on the CS vacuum/boost block use 1/8"-27 NPT threads. If you purchase your own fittings, ensure they match this thread specification.

! We do not recommend running the intake manifold to brake booster hose or the intake manifold to EVAP hose from the CS vacuum/boost block. A separate hose to the brake booster guarantees good braking performance. A separate hose to the EVAP keeps things a little safer by helping prevent fuel vapors from entering your BPV, fuel controllers, or boost gauge sensor.

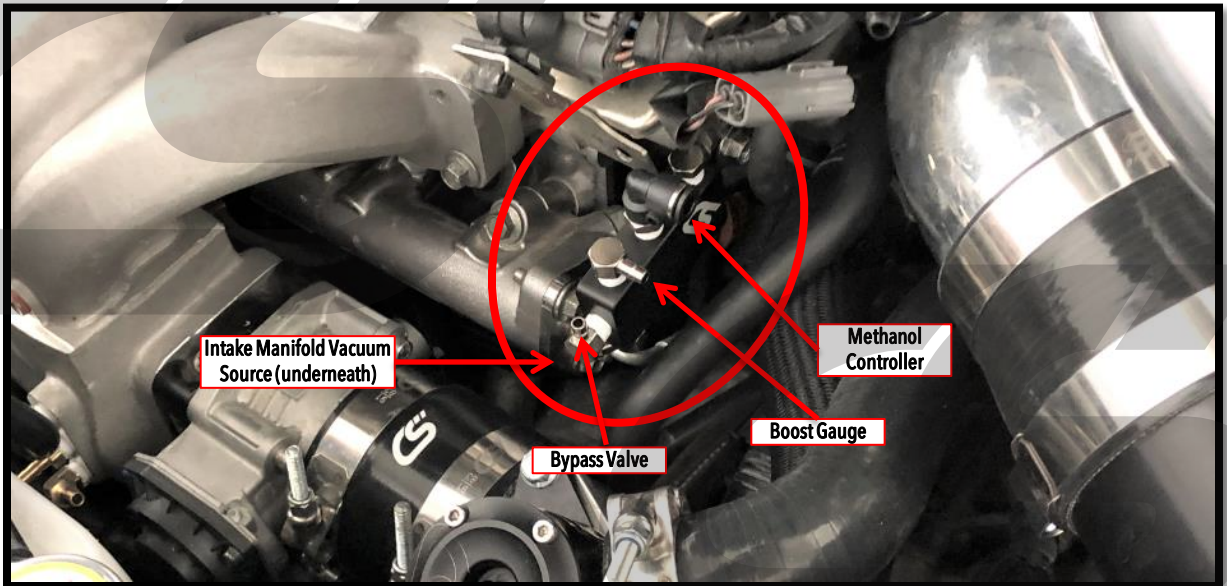


Figure 2a

DETAILED INSTRUCTIONS:

3. Preparing and Installing the NPT Fittings

- a) Before installing any fittings in your CS vacuum/boost block, ensure you wrap the threads in PTFE thread tape to prevent any vacuum leaks. Two to three wraps of the PTFE tape is sufficient to prevent leaks in most cases. Tape shown and prepared fitting shown in **Figure 3a**.
- b) For each fitting, start by threading them in hand tight. This ensures no cross threading.
- c) To complete install, tighten each fitting half a turn past hand tight. In most cases, the fittings will not sit flush to the vacuum block. This is OK. Fitting shown fully installed in **Figure 3b**.

NOTE You can tighten further than half a turn in order to get the orientation of the fitting to work with your hose routing plan. Do not force the fittings tighter than about one turn past hand tight as you risk breaking the fittings.



Figure 3a



Figure 3b

DETAILED INSTRUCTIONS:

4. CorkSport Vacuum/Boost Block Installation

- a) **Install the CS vacuum/boost block with all fittings into your desired mounting position.** Ensure there is clearance around each fitting. If your fittings do not align with your desired hose routing as intended, remove the vacuum/boost block and adjust as needed.
- b) **Route each hose to your desired vacuum/boost reference.** Ensure there is clearance around each hose and that none of the hoses are kinked. Completed install shown in **Figure 4a**.



During the first week of driving, monitor your fuel trims to ensure you do not have a vacuum leak. Erratic or inconsistent fuel trims are a likely indicator of a vacuum leak.



Figure 4a



**This completes the installation of your CorkSport Vacuum/Boost Block
Enjoy the cleaned up engine bay!**

WHAT'S NEXT?

CorkSport Mazdaspeed Turbocharger

Give 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!

FREE MAP SENSOR



CorkSport 72mm Throttle Body

Introducing the first and only performance throttle body for the MZR DISI that offers no sacrifices. By taking a ground-up approach we were able to succeed in making a throttle body that performs better than OE while retaining OE fitment and daily drivability. With easy installation and drop in fitment, you are sure to enjoy the gains from the CorkSport Throttle Body.



CorkSport Oil Catch Can

Enhance the reliability of your engine, improve performance, and improve fuel economy with the CorkSport Oil Catch Can. By adding an oil catch can, you will increase the longevity of your engine by helping keep unclean crankcase vapors and oil out of the engine's intake. Made of billet aluminum for strength, the CorkSport Oil Catch Can includes everything you need for a complete install. Don't let your Mazda get contaminated by sediment, crankcase vapors, or unclean oil. With the CorkSport Oil Catch Can you will remove unwanted debris that would normally contaminate the intake tract. This allows for cleaner air entering the engine, lower detonation rates and increases longevity.

