

CorkSport Performance

AXO-6-127-10 Rear Motor Mount

Installation Instructions for the CorkSport Performance Rear Motor Mount for the 2019+ Mazda 3 and 2020+ CX-30.

Written By: Cody Dunton



INTRODUCTION

In this installation guide we have provided step by step instructions to install the CorkSport Performance Rear Motor Mount

Advisory:

- Working under the vehicle requires a safe and sturdy location for the vehicle to sit on jackstands.
- Reference the owner's manual for proper lifting and jack stand locations
- Engine components will be hot after vehicle use, let the vehicle cool for at least 30 minutes or use a fan to cool the underside of the engine before starting project

TOOLS:

- Hydraulic Jack (1)
- Jack Stand (2)
- 3/8" Drive Ratchet (1)
- Breaker Bar (1)
- Torque Wrench (1)
- Flathead Screwdriver (1)
- 10mm Socket - Deep (1)
- 17mm Socket - Deep (1)
- 19mm Socket - Deep (1)
- 22mm Socket - Deep (1)
- 22mm wrench (1)

PARTS:

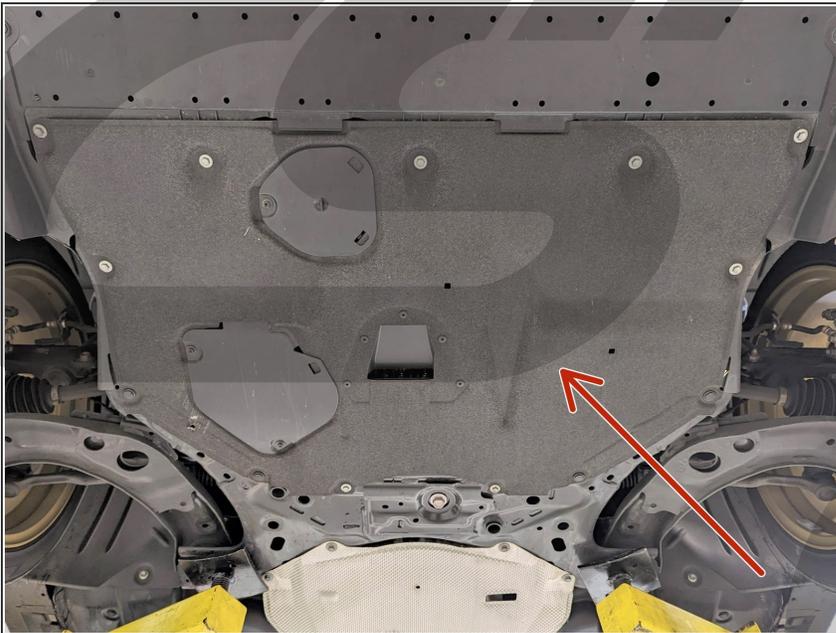
- AXO-6-127-21 Rear Motor Mount (1)
- M14x2.0x110mm Bolt - Stainless Steel (1)
- M14x2.0 Locknut - Stainless Steel (1)
- M14x44mm Washer - Stainless Steel (2)

Step 1 — Getting Started



- First and foremost; **THANK YOU** for becoming a part of the CorkSport Family. We hope to bring you the highest level of Parts, Customer Service, & Support
- ⓘ How To Use These Instructions
 - The instruction format will relate colored marking in the image to the color dot in the text to the right of the image
 - ⓘ Assistance from another person is recommended for some portions of the install.

Step 2 — Lifting the Car



- ⚠ Ensure the vehicle is parked on a level surface before proceeding.
- ⚠ Be sure to reference your owner's manual for jack points and the jack manufacturer's instructions for proper practices.
- Using OEM lifting locations, start by lifting up the front of the car using the hydraulic jack and jack stands to access the OEM Splash Guard.

Step 3 — Removing the Rear Splash Guard Section



- Using a flathead screwdriver remove the 4 plastic clips.
- Remove them by prying down on the center section until it pops out and then remove by hand.
- ⓘ The plastic clips can be difficult to remove due to road debris collecting in them. If this is the case slowly work around the center of the clip, prying evenly until they free up.
- Using a 10mm socket and ratchet, remove the 9 bolts that secure the OEM Rear Section to the subframe, starting from the ones that are circle at the top of the picture and working your way down.
- ⓘ When removing the last bolt make sure to hold the rear section in place so it does not fall.

Step 4 — Different Rear Motor Mount Types



- There are two different Front Motor Mount Brackets depending on if your Mazda has 2WD or AWD and the differences can be seen below:
 - AWD Front Bracket
 - 2WD Front Bracket
- The only difference between the two is the removal of the AWD OEM RMM which is detailed in the following steps. Installation of the CorkSport RMM is the same for both options.

Step 5 — Removing the OEM Rear Motor Mount - Part 1



- Locate the rear motor mount.
- Using a 17mm socket with a breaker bar remove the bolt shown.
- Now remove the 3 17mm bolts in the Front Bracket.
- Break loose and remove the bolt shown using a 19mm socket.

Step 6 — Removing the OEM Rear Motor Mount - Part 2



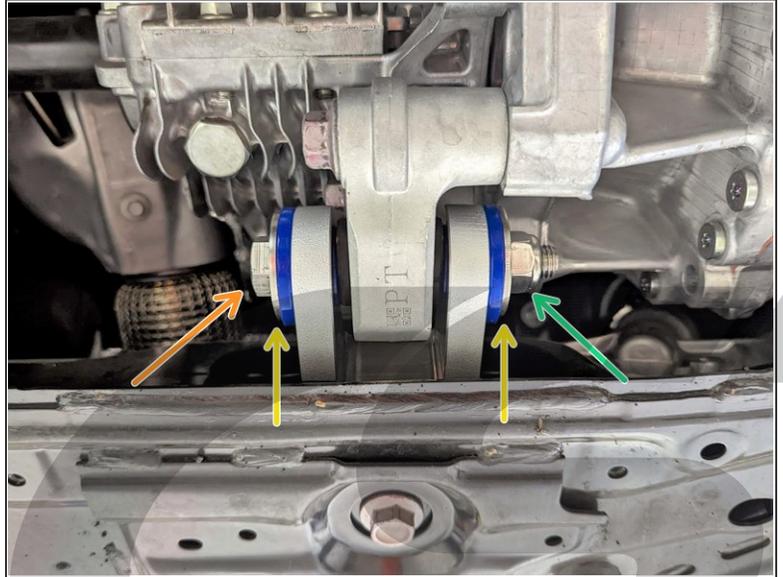
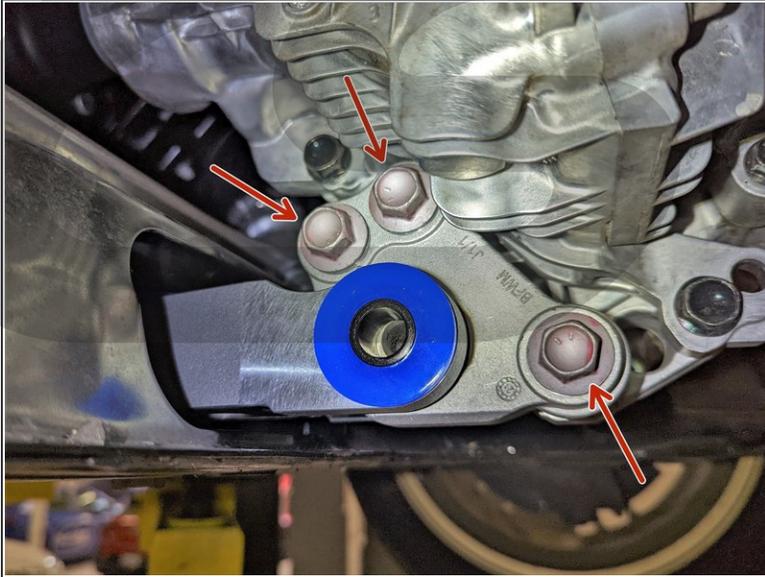
- The first two steps are only necessary for the removal of the AWD OEM RMM. You can skip to the last step if you are installing on a 2WD car.
- Slide the OEM Rear Motor Mount back as far as it will go.
- Rotate the OEM Front Bracket clockwise until it is in the position shown.
- The OEM Rear Motor Mount assembly can now be slid forward and removed from the subframe.

Step 7 — Installing the CorkSport Rear Motor Mount - Part 1



- Clean off any debris that are on the RMM mounting surfaces inside the subframe.
- Orientate the CS RMM so that the etched logo is facing down on the drivers side of the car as shown.
- Push the CS RMM into the subframe until it lines up with the mounting hole.
- Reinstall the OEM 19mm bolt until it is snug.

Step 8 — Installing the CorkSport Rear Motor Mount - Part 2



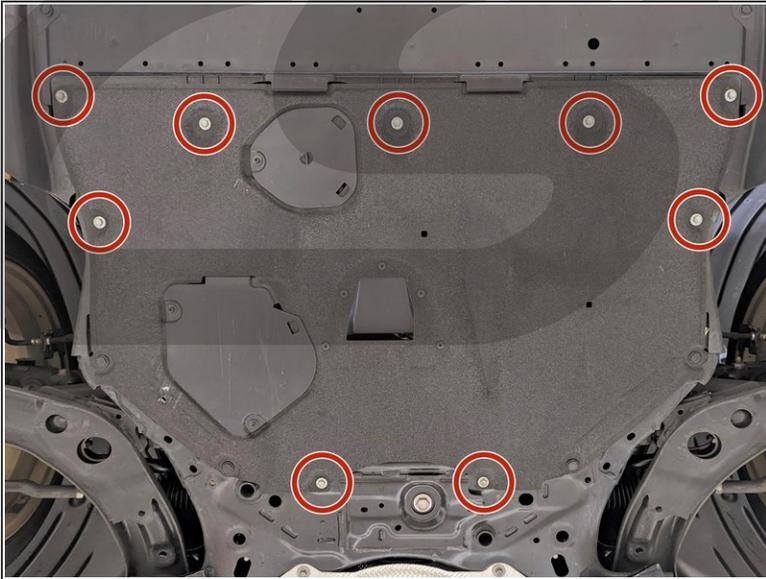
- Reinstall the OEM Front Bracket using the 3 17mm bolts and tighten them until they are snug.
- Take the included M14 stainless steel hardware and connect the CS RMM to the OEM Front Bracket as follows:
 - Bolt
 - Washers
 - Nylon Lock Nut
 - ⓘ Anti-seize can be applied to the bolt after it is installed through the CS RMM if desired.
- Tighten the bolt and nut until they are snug using a 22mm socket and wrench.

Step 9 — Installing the CorkSport Rear Motor Mount - Part 3



- Now using a 17mm socket and torque wrench, tighten the 3 bolts to **65-70ft-lbs** in the following order:
 - Bolt 1
 - Bolt 2
 - Bolt 3
- Next tighten the 19mm bolt to **110-120ft-lbs**
- Tighten the 22mm bolt and nut to **70-75ft-lbs**

Step 10 — Reinstalling the Rear Splash Guard Section



- Using a 10mm socket and ratchet, install the 9 bolts that secure the OEM Rear Section to the subframe and torque to **80-100in-lbs**.
- Reinstall the 4 plastic clips in the locations shown.

Step 11 — Installation Complete



- This completes your installation of the CorkSport Performance Rear Motor Mount!
- ⓘ Listen for any strange noises upon first drive. If any are present, inspect the hardware for proper torque.
- Contact us with any questions or concerns at sales@corksport.com or (360) 260-2675.
- Please leave a review here: <https://corksport.com/>
- Share your experience using #CorkSport on Instagram, Facebook, and Twitter.