

CorkSport Performance

CX50-8-100 Skid Plate

Installation Instructions for the CorkSport Performance Skid Plate for the 2023+ Mazda CX-50.

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INTRODUCTION

In this installation guide we have provided step by step instructions to install the CorkSport Performance Skid Plate

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)
- 1/4" or 3/8" Drive Ratchet (1)
- 4mm Allen Socket (1)
- 8mm Socket (1)
- 10mm Socket - Deep (1)
- 13mm or 1/2" Socket (1)
- 14mm Socket - Deep (1)
- 16mm or 5/8" Socket (1)
- Wrench, 10mm (1)
- Wrench, 14mm (1)
- Flathead Screwdriver (1)
- 15/16" Drill Bit (1)
- Cordless Power Drill (1)
- Blue Threadlocker (1)

PARTS:

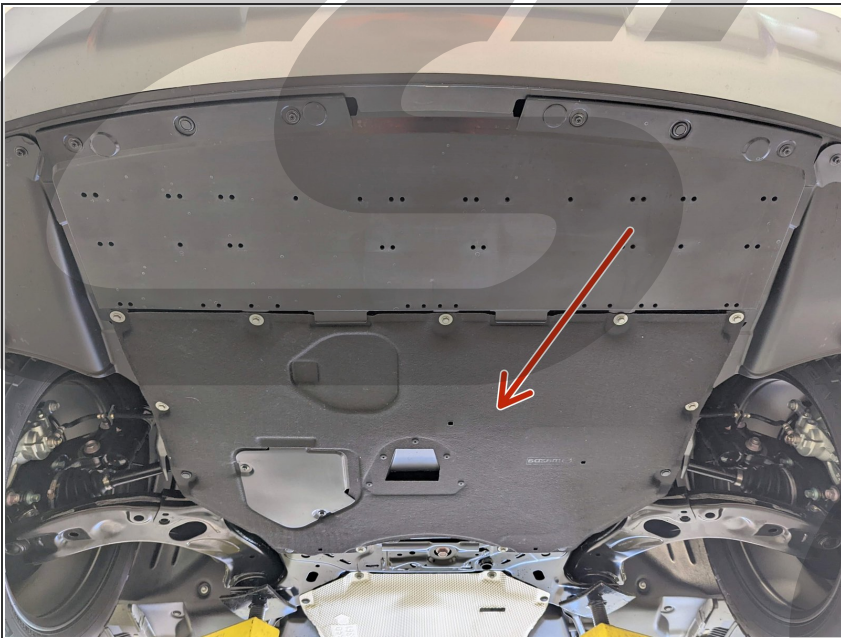
- CX50-8-100-21 Rear Skid Plate (1)
- CX50-8-100-22 Front Skid Plate (1)
- CX50-8-100-23 Oil Cover (1)
- AXO-8-100-24 Air Deflector (1)
- CX50-8-100 Hardware Kit (1)

Step 1 — Getting Started



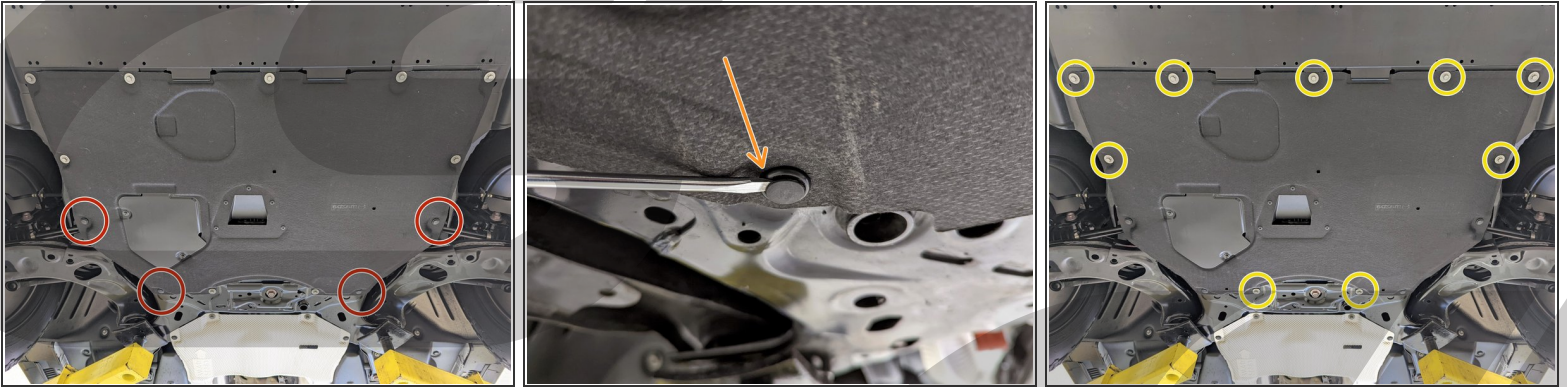
- First and foremost; **THANK YOU** for becoming a part of the CorkSport Family. We hope to bring you the highest level of Parts, Customer Service, & Support
- ⓘ How To Use These Instructions
 - The instruction format will relate colored marking in the image to the color dot in the text to the right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

Step 2 — Lifting the Car



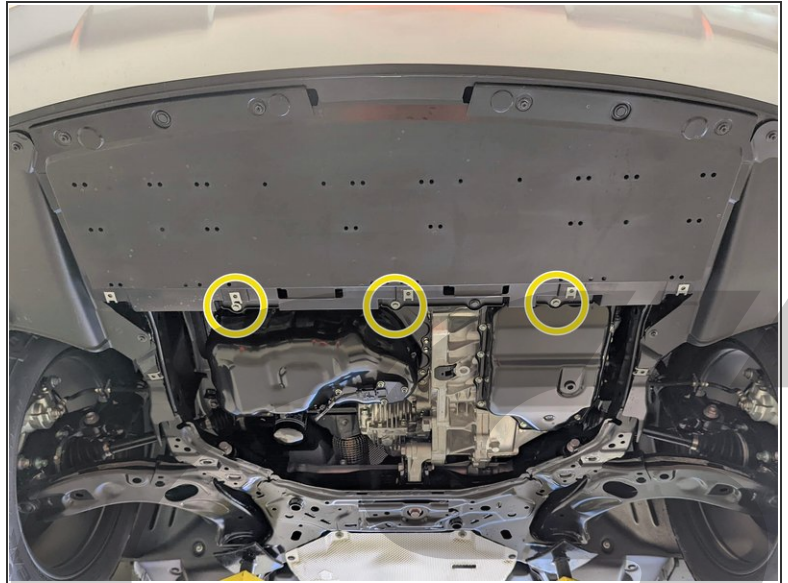
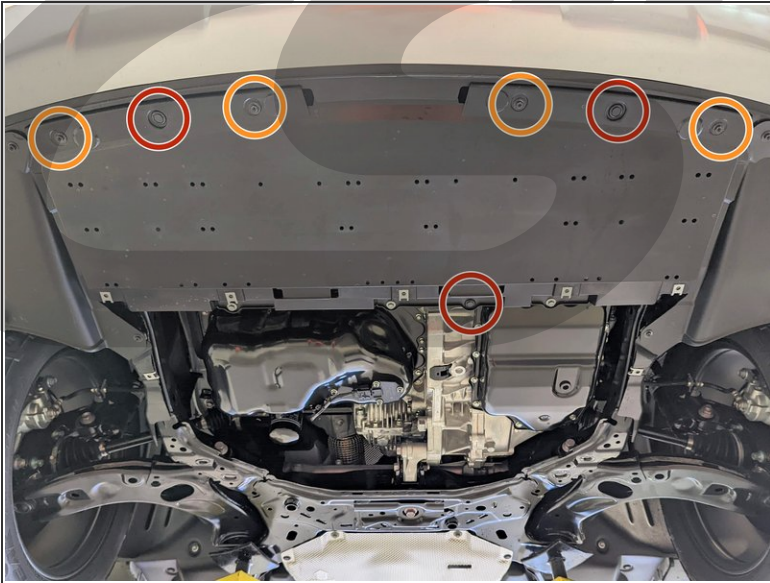
- ⚠ Ensure the vehicle is parked on a level surface before proceeding.
- ⚠ Be sure to reference your owner's manual for jack points and the jack manufacturer's instructions for proper practices.
- Using OEM lifting locations, start by lifting up the front of the car using the hydraulic jack and jack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

Step 3 — Removing the OEM Rear Section



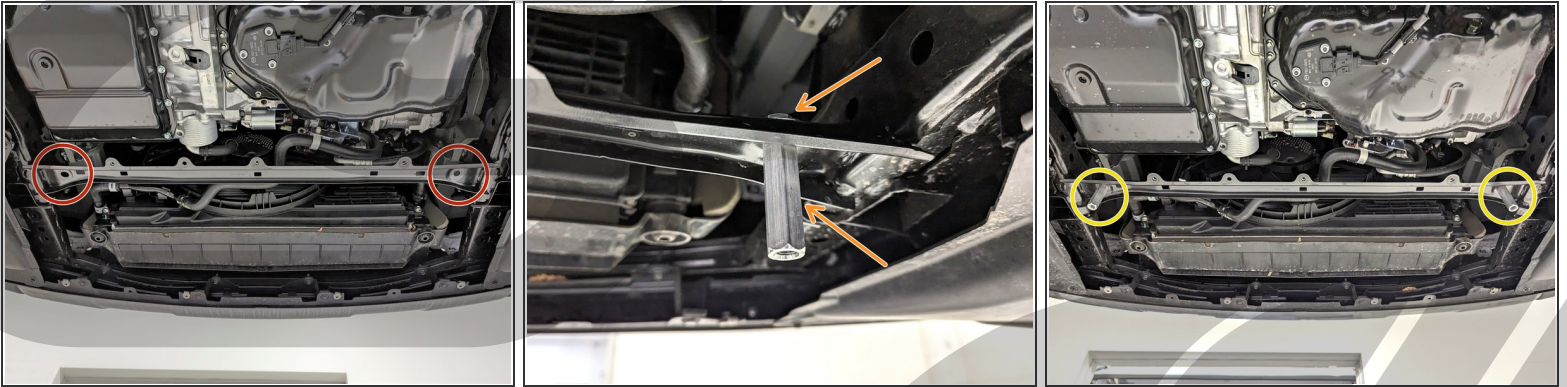
- Using a flathead screwdriver remove the 4 plastic clips.
- Remove them by prying down on the center section until it pops out and then remove by hand.
- ⓘ The plastic clips can be difficult to remove due to road debris collecting in them. If this is the case slowly work around the center of the clip, 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 circled 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 — Removing the OEM Front Section



- Remove the 3 plastic clips circled.
 - Using an 8mm socket and ratchet, remove the 4 screws.
 - Now remove the 3, 10mm bolts that are circled.
- ⓘ When removing the last bolt make sure to hold the front section in place so it does not fall.

Step 5 — Installing the M10 Standoffs in the Cross Bar



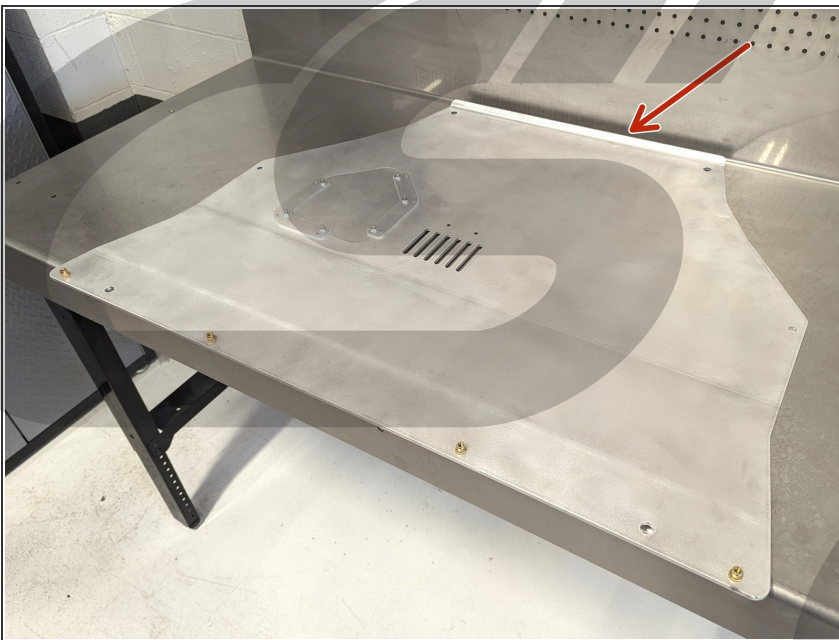
- Locate the two holes in the cross bar that are circled.
- Take one of the supplied M10 threaded standoffs along with a supplied M10 flange bolt and install as shown leaving it hand tight.
- Repeat the previous step on the opposite side.
 - ⓘ On the side with the slotted hole install the standoff in the middle of the slot.
- Using a 14mm wrench and a 16mm or 5/8in socket and ratchet, tighten down the standoffs to **30 ft-lbs**

Step 6 — Installing the Standoffs in the Subframe



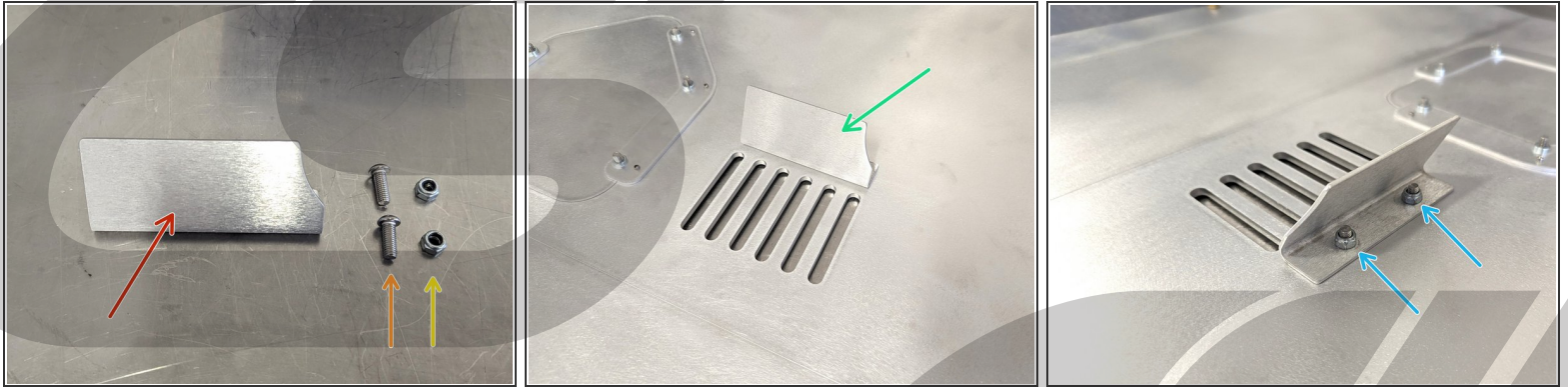
- Locate the two holes in the subframe shown.
- Take the remaining 2 supplied M10 standoffs and thread them onto the ends of the bolts that are in each hole.
- Using a 16mm or 5/8in socket and ratchet, tighten down the standoffs to **30 ft-lbs**

Step 7 — Assembling the CS Skid Plate - Part A



- Take the CorkSport Rear Skid Plate section and place it on a flat surface so that the bend at the back is angled up.

Step 8 — Assembling the CS Skid Plate - Part B



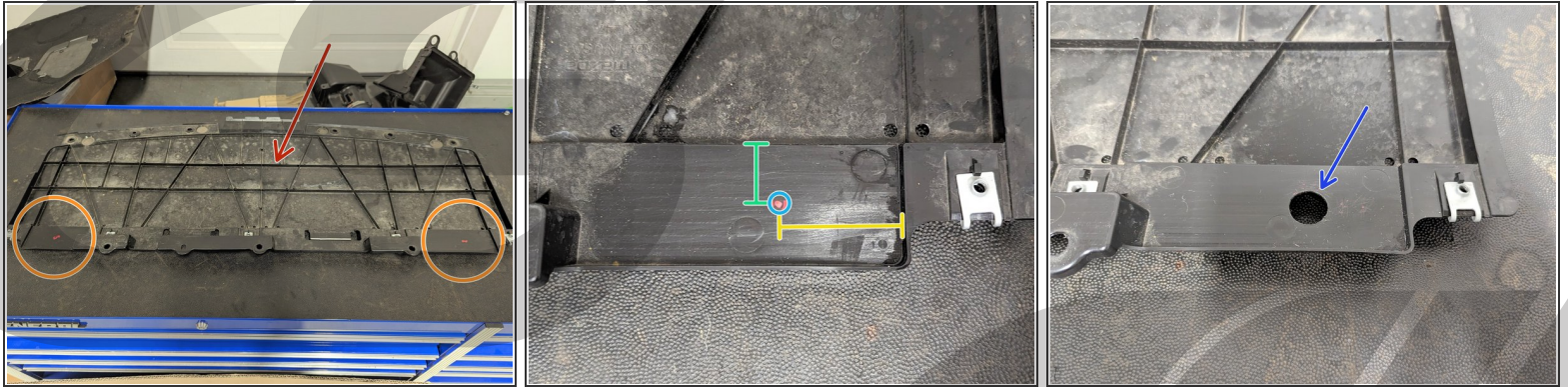
- Gather the following supplied parts for the next step in assembling the Rear Skid Plate Section:
 - Air Deflector
 - 2x M6 Allen Head Bolts
 - 2x M6 Nyloc Nuts
- Now take the air deflector and place it on top of the Rear Skid Plate Section as shown, lining up the two holes in both pieces.
- Install the 2 Allen head screws from the bottom of the skid plate and thread on the nyloc nuts on the top side as shown. Tighten the hardware using a 10mm wrench and a 4mm Allen wrench/socket until snug.

Step 9 — What Skid Plate Are You Installing?



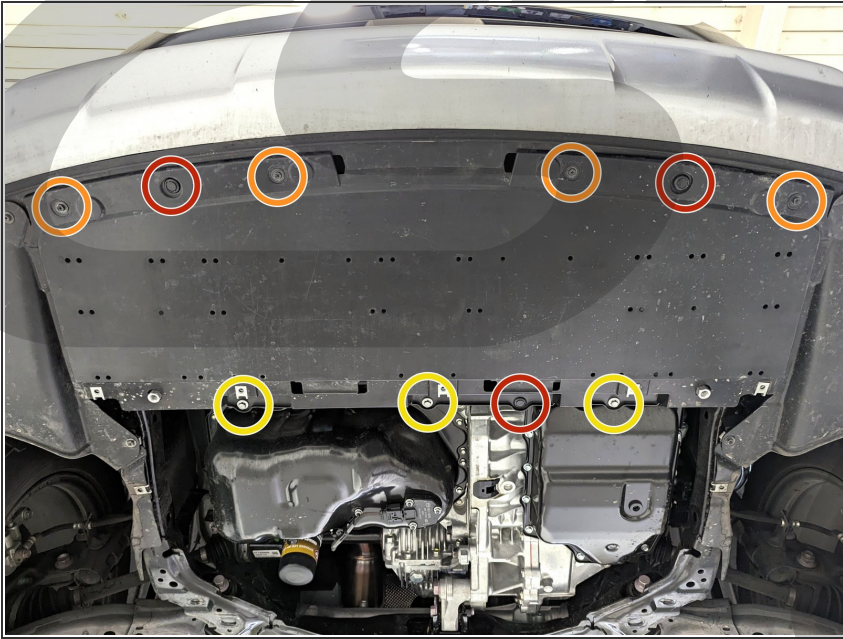
- If you are only installing the CS Rear Skid Plate and keeping the OEM front section, refer to **Steps 10-15**.
- If you are installing both the CS Front and Rear Skid Plate, skip to **Step 16**.

Step 10 — Drilling Clearance Holes in the OEM Front Section



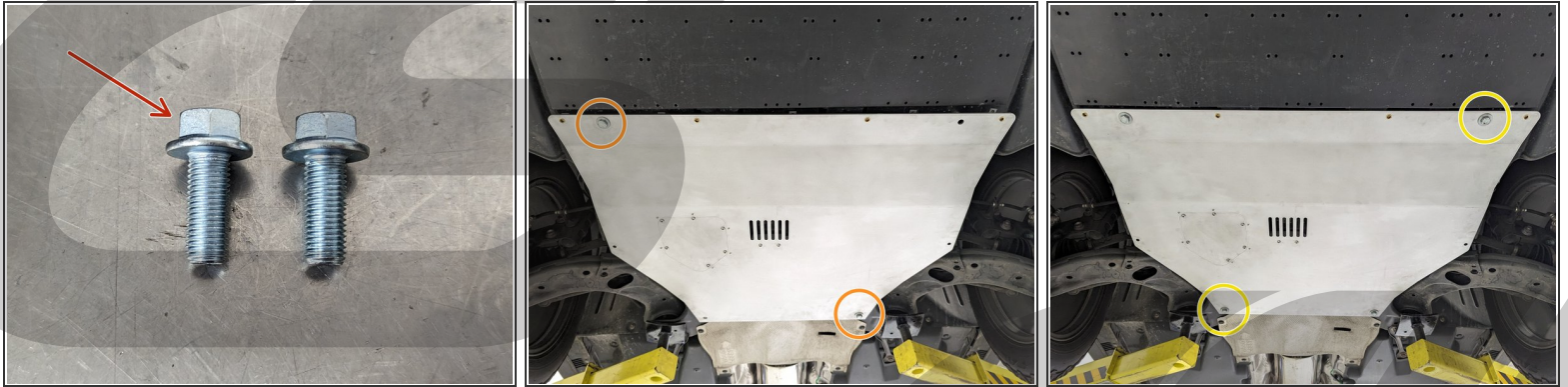
- Place the OEM front section on a table with the side shown facing up.
- The locations circled will be referenced in the following steps.
- Starting on the right side of the front section, measure horizontally 55mm or $\sim 2 \frac{3}{16}$ in from the edge shown.
- Now measure down vertically from the edge shown to 30mm or $1 \frac{3}{16}$ in.
- The point where the two measurements meet is the location where the front section will need to be drilled.
- Using a drill and a $\frac{15}{16}$ in drill bit, drill through the plastic at the marked location.
- Repeat the last 4 steps on the left side of the front section.

Step 11 — Reinstalling the OEM Front Section



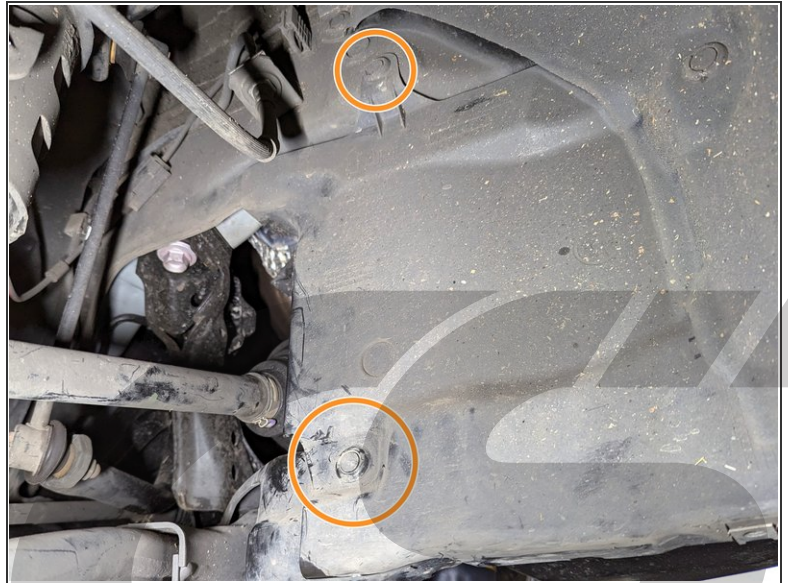
- Reinstall the front section using the 3 plastic clips that were removed earlier in the locations circled.
- Using an 8mm socket and ratchet, reinstall the 4 screws and tighten until snug.
- Reinstall the 3, 10mm bolts in the locations shown.

Step 12 — Installing the Rear Skid Plate - Part A



- Gather 2 supplied M10 Flange Bolts to install the Rear Skid Plate Section
- Lift the Rear Section into position and start the flange bolts by hand in the locations shown, leaving them loose
 - ⓘ We recommend two people for the install of the rear section since it is much heavier than the stock cover.
- Thread in the remaining 2 supplied M10 flange bolts into the locations shown
- Tighten the 4 bolts using a 14mm socket and ratchet until they are snug and then torque to **30ft-lbs.**

Step 13 — Installing the Rear Skid Plate - Part B



- Locate the two holes that are circled as they will be referenced in the following steps.
- Remove the two plastic clips holding the inner fender cover with a flat blade screw driver to gain better access to the location in the following steps.
- ① Repeat step on the opposite side of the vehicle.

Step 14 — Installing the Rear Skid Plate - Part C



- Place one of the supplied round M6 spacers between the skid plate and the subframe.
- Install one of the supplied 110mm long M6 bolts and supplied washers from the skid plate side as shown, holding it with one hand while completing the following step
 - ⓘ Make sure that the bolt goes straight up as there are multiple holes in the subframe
- Secure the bolt and spacer with a supplied washer and M6 serrated flange nut as shown
 - ⓘ The location can be difficult to access. It may be easier if you turn the wheel to one side to give you more room.
- Hold the nut with a 10mm wrench while tightening the bolt with a 10mm socket and ratchet until it is snug
- Reinstall the 2 plastic clips into the inner fender cover
- Repeat this step on the opposite side of the vehicle

Step 15 — Installation of Rear Skid Plate Completed



- This completes your install of the CS Rear Skid Plate and you can skip to **Step 23**.

Step 16 — What Skid Plate Are You Installing?



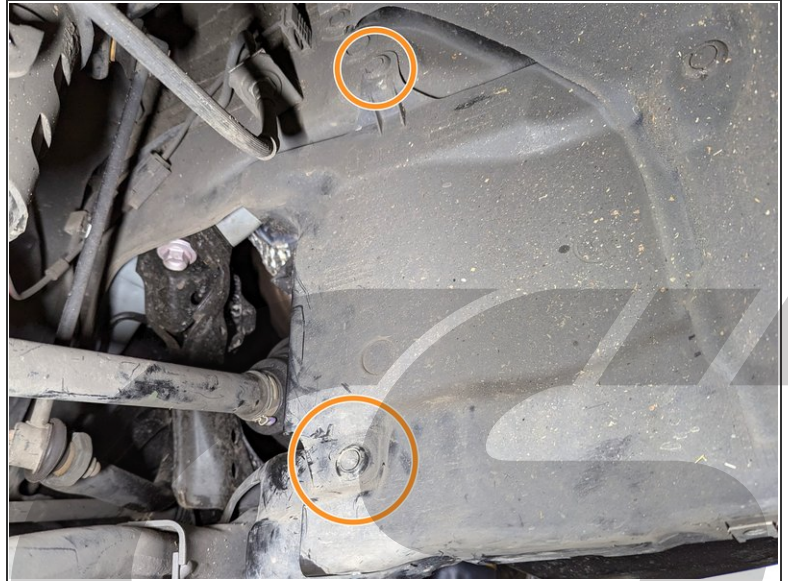
- **Steps 17-22** are for installing both the CS Front and Rear Skid Plate.

Step 17 — Installing the Rear Skid Plate - Part A



- Gather 2 supplied M10 Flange Bolts to install the Rear Skid Plate Section
- Lift the Rear Section into position and start the flange bolts by hand in the locations shown, leaving them loose
 - ⓘ We recommend two people for the install of the rear section since it is much heavier than the stock cover.
- Thread in the remaining 2 supplied M10 flange bolts into the locations shown
- Tighten the 4 bolts using a 14mm socket and ratchet until they are snug and then torque to **30ft-lbs.**

Step 18 — Installing the Rear Skid Plate - Part B



- Locate the two holes that are circled as they will be referenced in the following steps.
- Remove the two plastic clips holding the inner fender cover with a flat blade screw driver to gain better access to the location in the following steps.
- ① Repeat step on the opposite side of the vehicle.

Step 19 — Installing the Rear Skid Plate - Part C



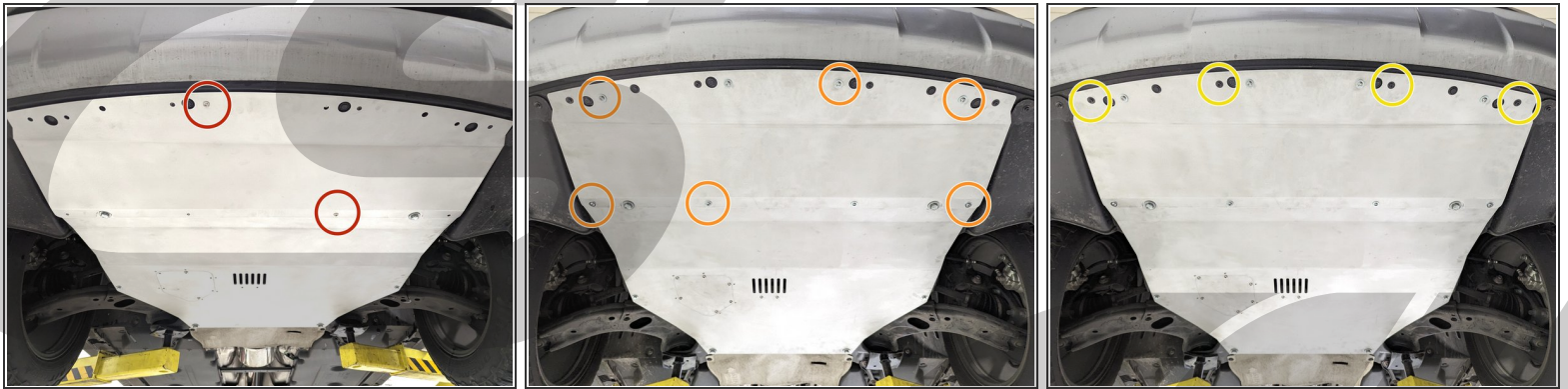
- Place one of the supplied round M6 spacers between the skid plate and the subframe.
- Install one of the supplied 110mm long M6 bolts and supplied washers from the skid plate side as shown, holding it with one hand while completing the following step
 - ⓘ Make sure that the bolt goes straight up, as there are multiple holes in the subframe
- Secure the bolt and spacer with a supplied washer and M6 serrated flange nut as shown
 - ⓘ The location can be difficult to access. It may be easier if you turn the wheel to one side to give you more room.
- Hold the nut with a 10mm wrench while tightening the bolt with a 10mm socket and ratchet until it is snug
- Reinstall the 2 plastic clips into the inner fender cover
- Repeat this step on the opposite side of the vehicle

Step 20 — Installing the Front Skid Plate - Part A



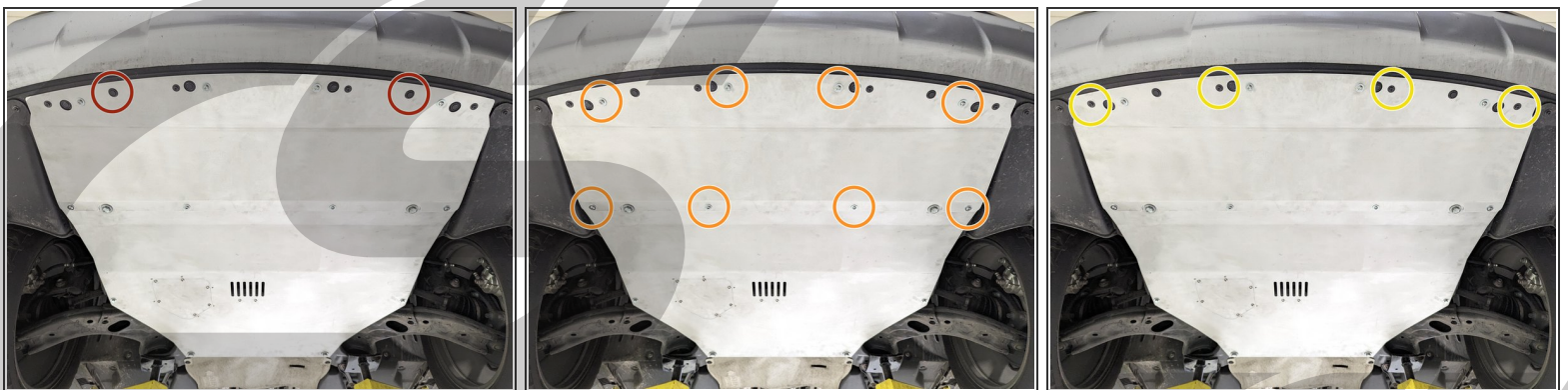
- Remove the 4, 10mm bolts that are behind the bumper and just in front of the radiator as shown
- Reinstall the 4 bolts back into the same locations from the top side and tighten until snug with a 10mm wrench
- Apply some blue threadlocker to the threads before continuing
- Install the 4 supplied M6 threaded standoffs onto the bolts with a washer in between the standoff and the plastic. Tighten using a 1/2in or 13mm socket and ratchet until they are snug
- ⓘ The plastic trim piece between the standoff and the upper bracket may deform slightly when tightening. This is normal.

Step 21 — Installing the Front Skid Plate - Part B



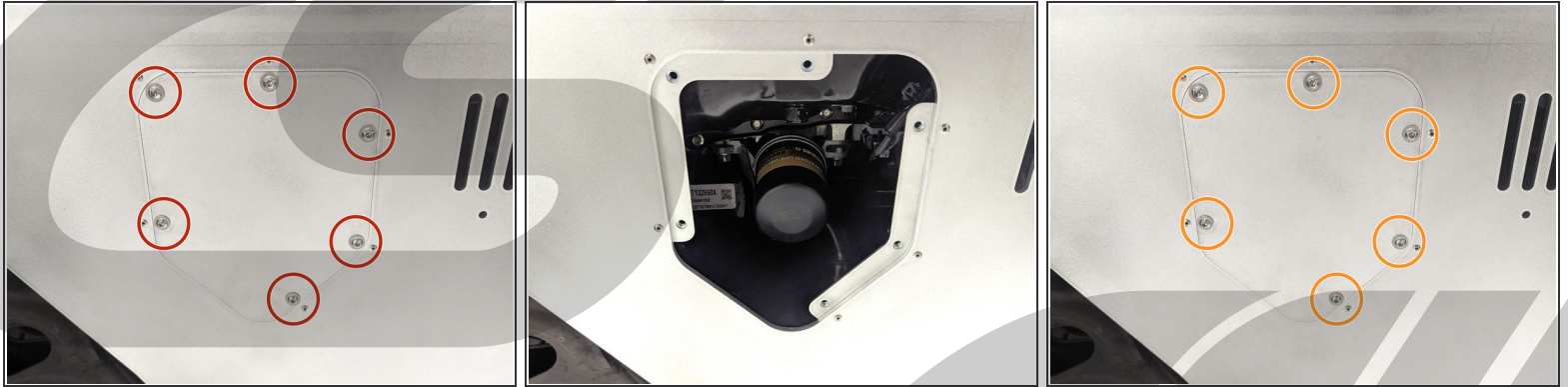
- Install the front skid plate section as shown, temporarily securing it using 2 supplied M6 Allen bolts in the locations shown, leaving them loose for now
- Install the remaining 6 M6 Allen bolts in the locations shown, leaving them loose
- Take the 4, 8mm OEM screws and reinstall them in the locations circled, leaving them loose.

Step 22 — Installing the Front Skid Plate - Part C



- Now reinstall 2 of the plastic clips that were removed from the OEM front section into the CS Front Skid Plate Section as shown.
 - ⓘ Make sure to push up on the Skid Plate around the hole where the clip is so that it goes in easy.
- Move onto tightening the 8 Allen head bolts circled to **7ft-lbs**
- Lastly tighten the four 8mm screws on the front until they are snug.
 - ⚠ These screws thread into plastic, so be sure to not overtighten them.

Step 23 — Changing Your Oil



- To access the oil drain and the oil filter, remove the 6 bolts using a 4mm Allen socket and set the cover plate aside
 - ⓘ When removing the last bolt make sure to hold the cover so it does not fall.
- Once you have finished, line the oil cover back up and reinstall the Allen bolts and tighten until they are all snug.

Step 24 — Installation Complete



- This completes your installation of the CorkSport Performance Skid Plate!
- ⓘ Listen for any strange noises upon first drive. If any are present, inspect the hardware 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.