



## EVO-1156

### EVO MFG Chromoly Sport Cage



#### Bill of Materials

Part number	EVO-1156 Description	Quantity
EVO-12148	EVO Sport Cage A-Pillar Support Driver	1
EVO-12149	EVO Sport Cage A-Pillar Support Passenger	1
EVO-12150	EVO Sport Cage Dash Cross Member	1
EVO-12151	EVO Sport Cage Upper Cross Bar	1
EVO-12152	EVO Sport Cage Center Bar	1
EVO-12172	EVO Sport Cage Connector Plate Driver	1
EVO-12173	EVO Sport Cage Connector Plate Passenger	1
EVO-12174	EVO Sport Cage Center Bar Closeout	1
EVO-770059	EVO Sport Cage Hardware Pack	1

**Note:** This install requires trimming of interior plastic fascia and sound bar and drilling into body sheet metal. Do not install if you are not comfortable with this.

**Note:** A standard tool set, drill, drill bit set, Dremel or barrel sander and Torx Set are needed for this install. If you have a factory soft top, you will need a barrel sander or a coarse round/crescent file.

**Note:** Adding padding on all overhead areas is recommended. Split foam wraps are available online and at most hardware stores.

If applicable, it's best to test fit of raw parts before powdercoat/paint.

Before beginning install, follow your owner's manual instructions to remove the top (soft or hard) from your vehicle

Note: Do not fully tighten any bolts until all bolts are installed and threaded.

1. To remove the front doors, unplug wiring harness under the dash and release the limit strap from the metal hook on the door sill.
2. Remove the nuts on the bottom of the door hinges using a Torx size T-50.
3. Carefully lift doors out of hinges and store them in a safe place.
4. Remove the windshield visors by removing 2 screws holding each in place using T20 Torx
5. Remove the plastic fascia in the upper corners of the A-pillar windshield frame. They are held in place with panel clips and a panel/body clip tool is recommended for removal. On the side of the A-Pillar (pictured), there is a panel clip that requires unscrewing with a Phillip's screwdriver before it can be popped out with the panel clip tool.
6. If the vehicle is equipped with a microphone, it will need to be unplugged from the wiring harness on the driver side.
7. Remove plastic panels on the A-pillars along the windshield frame. These are also held in using only panel clips and a panel clip or similar tool is recommended for removal
8. Remove the panels from each side of the dash. Again, these just clip in and can be removed by applying pressure to the front of the panel (by the door sill) to lift the rear of the panel (the curved part be the air vent). You can then lift the panel and pull it off using gentle pressure (Be careful not to damage the dash clips).
9. Use a 10mm socket to remove the sound bar. It is held in with 6 bolts, 3 on each side (passenger side bolts are shown). Unplug it from the wiring harness on the top of the passenger side.



10. Unzip the fabric covering the bars over the front doors and remove the foam pads. These are held on with panel clips and can be pulled straight down and removed.



11. At the top corners of the windshield, remove the 2 bolts pictured using a 13mm socket. Save these bolts for use later.



12. If equipped, remove panel clips holding the wiring harness to the windshield frame. Wiring should be free, as shown.

13. Use a 13mm socket to remove the upper door hinge on both front doors (only remove the upper hinge).



14. Attached at the end of these instructions is the driver side drill template. Verify the scale of the template by measuring the overall length (noted on template). If the length is not 12" do not use the template.

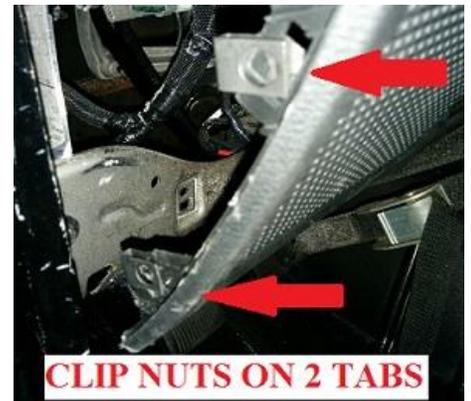
15. Only once the template has been verified, cut the template out along the outer lines and use it to mark and center punch the 3 holes on each side to drill. Align lower corner of template with the notch near the bottom of the door sill (The notch is even with the top of the lower hinge). Keeping the notch lined up, hold the edge of the template flush with the edge of the door sill. Keeping the edges flush, roll the template around the bend as shown. Carefully mark all 3 hole centers.



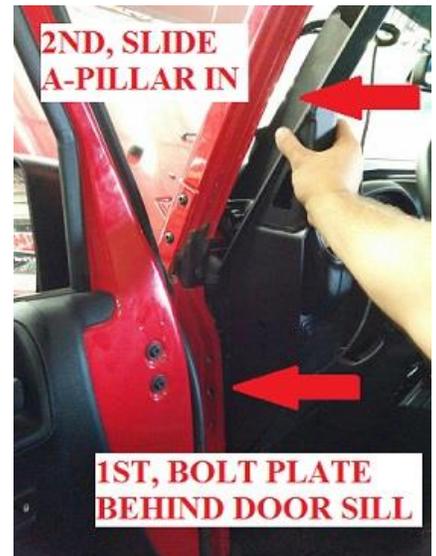
16. Once you have checked and are sure of your marks, center-punch each hole.
17. Again only if you are sure of your marks and the upper hinge is removed, pilot drill the holes and then drill them out using a 25/64 drill bit



18. Along the side of the dash, in the place where the plastic panel was removed in Step 8, attach clip nuts to the lower 2 tabs, as shown, with the thread side inward.



19. Install only the driver side A-Pillar Support Bar (do not install the passenger side A-Pillar Support at this time. That will be installed after the Dash Cross Member). This can be done by first sliding the lower bolt plate behind the door sill, and then rotating the top toward the windshield. Do not bolt into place at this time.



20. The fascia pieces that fit in the upper corners of the windshield will need to be trimmed in 2 places to reinstall. Do this carefully and check the fit as you go, you can always trim more if needed.



21. Make sure that the wiring harness and any other wires (such as an s-Pod) are tucked behind the A-Pillar Support and out of the way. Across the top of the windshield, make sure the wiring is out of the way of the windshield visor and not pinched.



22. If equipped with a microphone, you will need to plug this back into the wiring harness before bolting the A-Pillar support back into place. Make sure this wire comes out on the outside as shown. The plastic fascia from Step 20 will need to be trimmed before the microphone is plugged in.



23. Slide the Driver side connector plate (pictured with bolt flap facing up) between the top of the A-Pillar support and the windshield frame making sure the holes on both align with the threaded hole in the top of the windshield frame. The connector plate should be sandwiched between the windshield frame and EVO A-Pillar Support.



24. With the wiring in place, use a 13mm socket to thread the supplied M8 bolt through the A-Pillar support and connector plate and into the top of the windshield frame. Be sure to tighten this enough to pull the A-Pillar Support all the way up to the top of the windshield frame, but do not fully tighten at this time. The A-pillar should be lifted to the windshield frame but still relatively loose.



25. Using a 13mm socket, thread one of the bolts removed in Step 11 through the A-pillar support and into the side of the windshield frame. Do not fully tighten at this time
26. Verify that the 3 holes drilled in the door sill in Step 17 are in the correct location. If they are not, mark the corrections that need to be made on the door sill and remove the A-Pillar Support Bar. You can use a 7/16 drill bit to open the holes up or use a rotary file, Dremel, or similar tool adjust the holes drilled in the door sill to better align with the threaded holes on the A-Pillar support. Repeat the above install and recheck.
27. Use a 9/16 socket to thread the supplied 3/8" x 1" long bolts with washer and lock-washer through the drilled holes and into the bolt plate of the A-Pillar support at the 3 locations on the driver's side. Do not fully tighten at this time.
28. With only the Driver A-Pillar Support loosely installed (and not the Passenger A-Pillar Support), lay a towel, a sheet of cardboard or something similar over the dash to protect it and then place the Dash Cross Member in place, across the dashboard. Be careful to not damage your windshield or dash.

29. Use a 9/16 socket with extension to thread 2 supplied 1" long bolts with washer and lock washer through the driver A-Pillar Support and into the Dash Cross Bar. Thread both bolts but do not fully tighten at this time

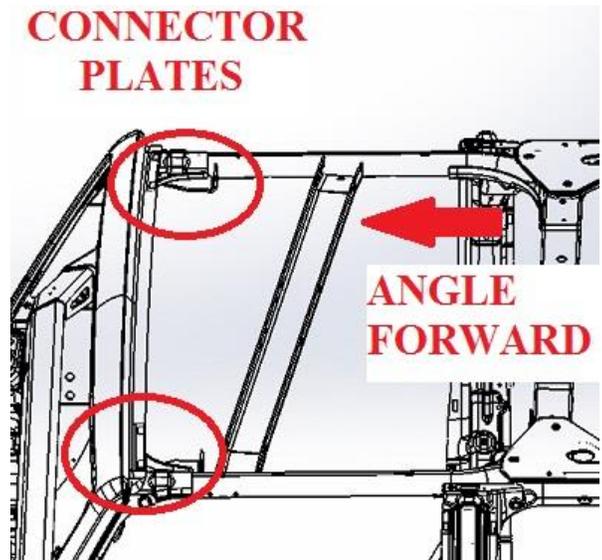


30. Thread 2 of the supplied black button head screws through the 2 small holes near the bottom of the A-Pillar Support and into the clip nuts installed in Step 18.
31. Following the same steps used to install the driver side, install the Passenger side A-Pillar Support and Connector Plate. Be sure not to tighten the bolts fully at this point.

32. Thread 2 supplied 1" long bolts with washer and lock washer through the passenger A-Pillar Support and into the Dash Cross Bar. You may need to loosen the driver side bolts (from Step 29) to help these to align.

33. With the factory tubes above the front doors clear of padding, install the Upper Cross Bar by angling it into place between the tubes, as shown. Note that the bolt holes on the long side face the front of the vehicle and the channel faces up. This may require a light tap from a rubber mallet to fit between tubes.

Note: If the Upper Crossbar is too tight, you can remove the 3<sup>rd</sup> bolt pictured in Step 11 and spread the tubes slightly. Replace the bolt once the cross bar is in place.



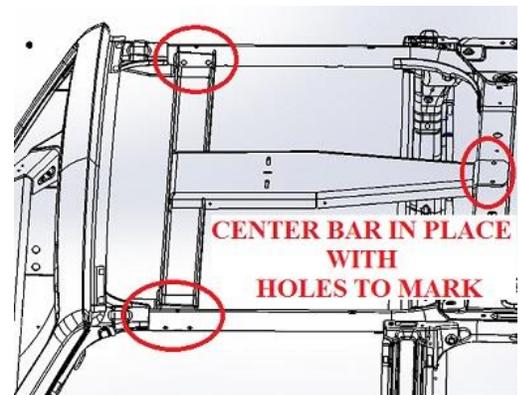
34. Hold the crossbar flush against the connector plates and verify that the 2 holes on each side line up. You may need to slightly loosen the bolts from Step 24.

35. Put the center bar in place by aligning the slots with those on the cross bar.

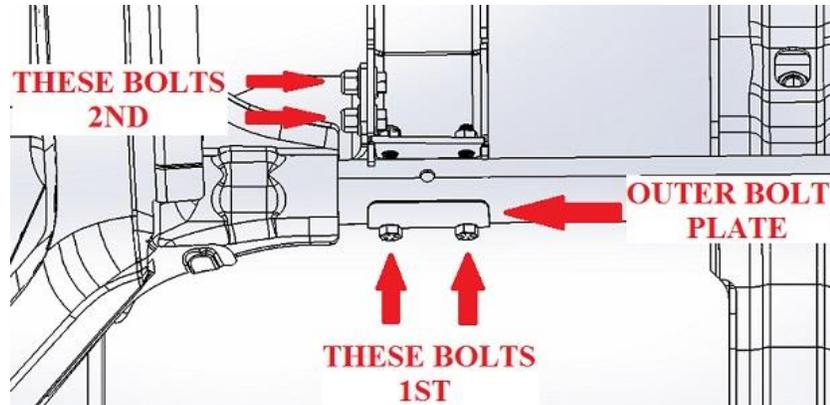
26. Mark the 6 holes shown (2 holes above each door and 2 on the center factory crossbar).

27. Check your marks, remove the center bar and slide the Upper Cross Bar back to clear the marks. Center-punch your marks.

28. Only if you're sure of your marks and have center-punched them, pilot drill the holes, and then drill them out to 3/8. Note: If you have a soft top, be sure the holes are to the left and right of the plastic door surround C-mount.



29. Slide the Upper Cross Bar back into place and reinstall the Center Bar. 1<sup>st</sup> thread 2 of the supplied 3" bolts, washers and locknuts through the holes drilled and the outer bolt plate on the crossbar. With these threaded, thread the supplied



1" bolts through the connector plates. Note: If you have a soft top, it is highly recommended to clearance the inside of the door surround C-mount to fit the bolt plate. This can be done with a file, barrel sander or similar tool. If you choose not to clearance the C-mount, then do not install the outer bolt plate. This process is detailed on last page of these instructions.

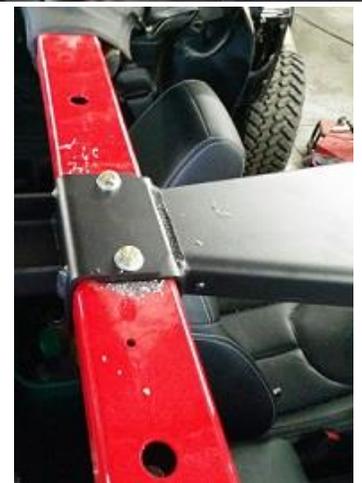
30. Thread the remaining 2 supplied 1" bolts through the Upper Cross Bar and the Center Bar, as shown.



NOTE: If you are installing EVO-1157 Rear Bar and/or are installing EVO-1167 B-Pillar Cross Bar follow those instructions at this point.

31. Thread the supplied 2 1/2" bolts through the Center Bar and factory center crossbar.

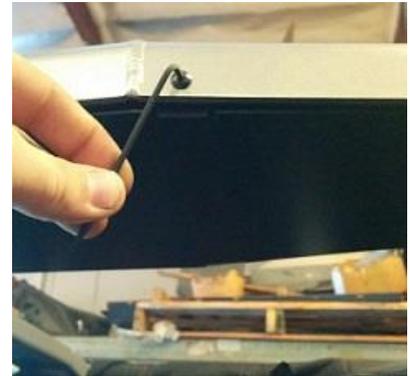
32. With all bolts loosely installed, work your way from the top down and left to right, fully tightening all bolts. Start with the Center Bar and Upper Cross Bar, then windshield frame, then the Dash Cross Bar and finally the door sill bolts.



33. To install the closeout on the underside of the Center Bar, start by attaching clip nuts to the 6 bolt tabs. Be sure the threads are on the inside, as shown. Note: If you are going to install a radio or something similar on the underside of the Center Bar, you may need to trim the Closeout or omit it.



34. With the clip nuts installed, put the closeout in place and use a 1/8 Allen wrench to thread the black button head cap screws through the Center Bar and into the clip nuts.



35. Thread the 4 Flat Head 1/8 Allen screws into the clip nuts installed in the dash in step 18.

36. The sound bar will need to be trimmed before reinstalling.

Loosely bolt the sound bar up into place and mark where the top will need to be cut. If you also have the rear bar installed, mark the back of the sound bar too.

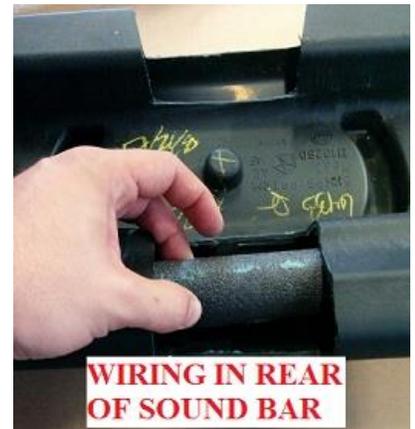


37. With the top of the sound bar marked, measure and mark 1 3/8" down from the top of the sound bar on both sides.



38. Connect your marks and carefully make your cuts. Be very careful not to cut the wiring in the rear of the bar. Depending on the year, it may be wrapped in foam (pictured) or may be exposed. Make shallow cuts to avoid damaging this wiring.

**Note:** When marking and cutting, be careful not to cut too much, you can always cut more off if it is too tight, but you can't put more on.



39. Replace sound bar. Verify that the trimmed sound bar fits. If not, mark where additional trimming is needed, remove the sound bar and make the necessary adjustments.

Note: A file can be used to clean up the cuts in the sound bar.



40. Replace foam padding above front doors and trim where indicated, to accommodate Upper Cross Bar.

41. The fabric can be folded in on itself, as shown, and zipped for a clean transition at the Upper Cross Bar.

42. Reinstall the windshield visors.

43. Reinstall/align the door hinges removed in Step 13 and replace the doors and top (trimming of top may be required)



Note: If you have a factory soft top, follow Steps 43-45 to clearance the door surround C mounts. This process may vary for aftermarket tops, adjust as needed.

44. Loosely install driver side front door surround at B-pillar with factory bolt and press C mount over EVO Bolt plate. Mark where the C mount needs to be sanded/filed to clear the round bolt plate installed in Step 29. Similar to picture below, about 1/8 inch of material will need to be removed in this section.



45. Remove the door surrounds and use either a barrel sander or a coarse round/crescent file to remove the material marked in the previous step.



46. Install the door surrounds and verify the fit. If necessary, sand/file again (this may require multiple iterations to achieve an acceptably fit). Note: depending on the holes drilled through the tubes, the C-mount may need to be cleared around the bolts/washer.

