

Parachute Mount Installation Instructions

TOOLS REQUIRED:

- 7, 10, 13, 18 and 19mm and ¾" sockets and wrenches
- Trim removal pliers
- ½" Drill bit, 2" hole saw
- Rotary tool or die grinder

INSTRUCTIONS:

1. Lift vehicle and support with jack stands. Remove rear wheels and the rear inner fender liner.
2. Using a 7mm socket, remove the two (2) screws on each side of the rear wheel well as shown in **IMAGE 1** in addition to the one (1) 7mm screw on the top/rear of the inner fender.
3. Remove the two (2) central screws under the center of the bumper with a 7mm socket as in **IMAGE 2**
4. On the underside of the rear bumper, remove the two (2) push clips on each side using a clip separator as in **IMAGE 2**
5. Also remove the two (2) inboard clips using a clip separator.
6. Open the trunk and remove the four (4) clips that hold the rear trunk liner in place as in **IMAGE 3**. To remove, pull the panel upward to unlatch it and set aside.
7. Using a trim separator, remove the one (1) clip from the top of the formed trunk liner on each side as shown in the next page in **IMAGE 4**. Fold the trunk liner toward the front of the vehicle to access the back side of the tail lights.



IMAGE 1

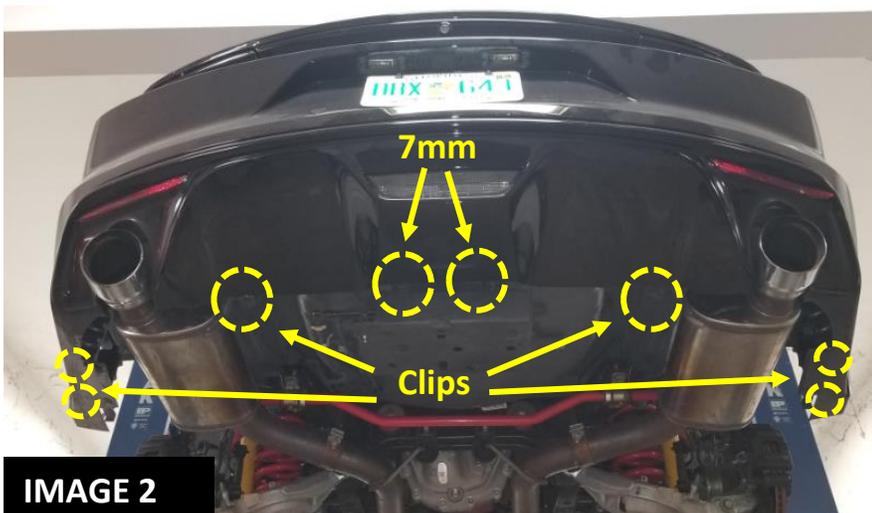


IMAGE 2



IMAGE 3

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NOTE: It is not necessary to remove the taillights in S650 for installation

8. Unclip the tail lights from the body harness and use a 10mm socket to remove the three (3) nuts from the back side of each tail light as in **IMAGE 5**. Carefully remove the taillights and make sure that you remove the rubber grommet connected to the wire harness for the taillights.
9. With the taillights removed, start at the wheel well and begin removing the rear bumper cover with sharp pull upward and outward toward the rear. Be careful not to pull too hard and break the bumper cover clips. Move inboard and pop the bumper cover clips loose until the rear bumper cover is free.
10. Unclip the harness for the rear bumper lights from the right side of the bumper cover and place the bumper cover aside.
11. Use a 13mm socket and remove all four (4) screws holding the rear crash bar on as in **IMAGE 6**
12. Remove the factory crash bar and replace it with the bumper mount. The design of our parachute mount allows for two different ways to install your parachute mount.
 - a. With the cross-bar angled upward and away from the bumper mounting plates; This will place the hole for the parachute mount in the center of the license plate.
 - b. With the cross-bar angled downward and away from the bumper mounting plates; this will allow the hole through the bumper cover for the parachute mount to be below the stock license plate mounting location.



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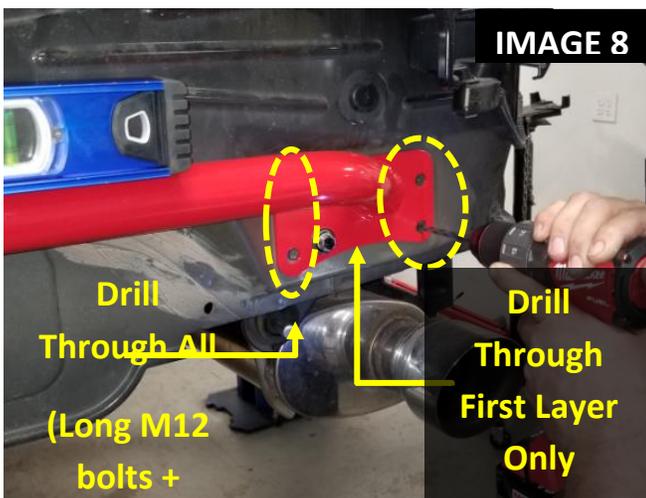
13. Using two (2) of the factory bolts, hang the bumper bar in the orientation you prefer. Use a level to make sure that the bar is level with the ground and tighten the two factory bumper bolts using a 13mm socket as in **IMAGE 7**

14. Using the plates as a guide, drill all of the accessible holes first, using small drill bits to start and ending with a 1/2" drill bit. **IMAGE 8**

NOTE: OUTER HOLES ARE DRILLED THROUGH ONE LAYER OF METAL, INNER HOLES ARE DRILLED ALL THE WAY THROUGH THE FRAME RAIL

15. Mark the final inner hole that is blocked by the cross-bar with a marker and remove the cross bar. Drill in the center of the hole starting with smaller drill bits and ending in 1/2". A die grinder may help to make clearance for bolts and help clean up cuts.

16. Use a hole saw, or a step bit and drill out the area shown in **IMAGE 9**. You will use this hole to insert the outer nut plate in through the bottom corner of the plate.



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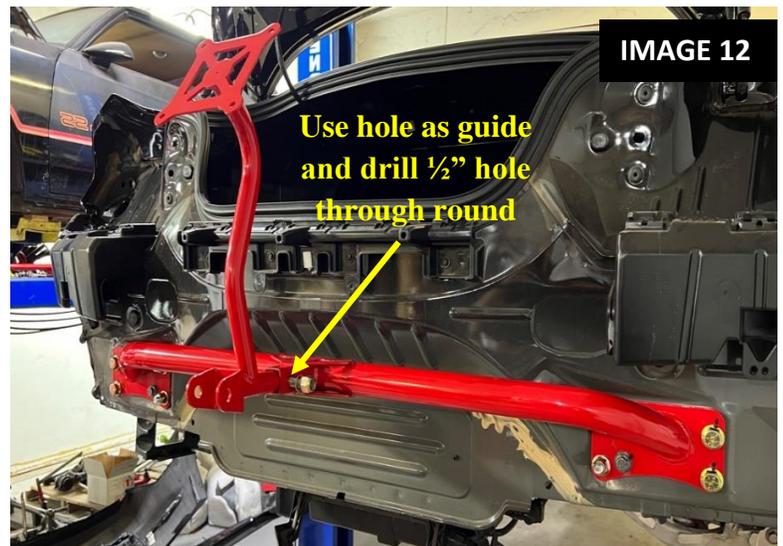
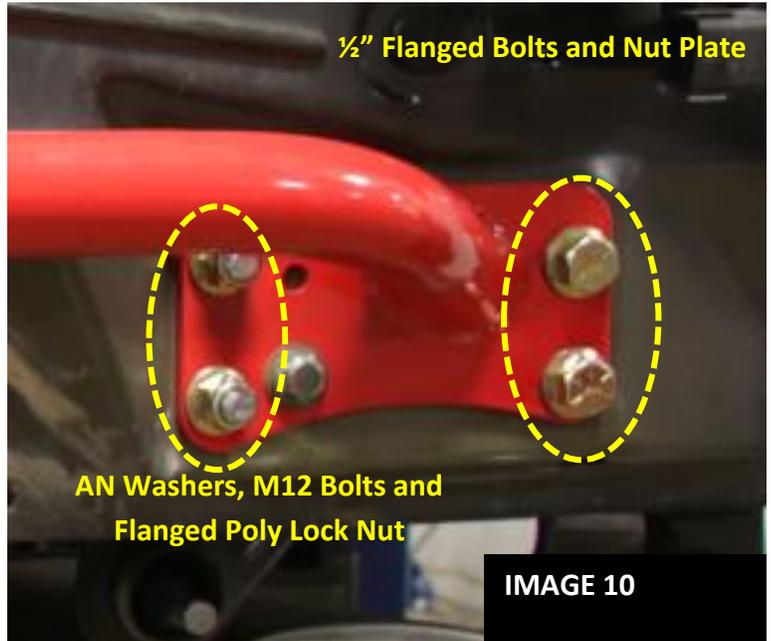
17. Using the supplied AN washer, install the M12 bolts through the back of the frame rail. Use the flanged poly, lock nut and an 18 and 19mm wrench and socket to tighten them. **IMAGE 10**

18. Using the nut plate and the ½" flanged, hex head bolts, and a ¾" socket and wrench, tighten the bolts in place.

19. Once the cross-bar is installed, test fit your parachute installed on the parachute mount stand. You will need to test fit your setup and ensure that your trunk can open while clearing your parachute.

20. Once you have verified that it will clear, level the parachute mount stand using an angle finder, see **IMAGE 11**. Mark and use the hole shown in **IMAGE 11 and 12** as a guide and drill the hole with a ½" bit.

21. Included is a ½" x 2.5" Long bolt with an AN washer and poly lock nut that is to be used to secure the parachute mount stand to the cross bar, although it is recommended that you purchase a quick release pin for fast and easy disassembly.



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22. With the parachute mount fully installed, located the back side of the bumper cover. There is a plastic support structure that you will need to trim. The area is marked in **IMAGE 13**. Use a die grinder or rotary tool to remove the plastic support structure. The center vertical plastic support fin can be the center point of the rear bumper cover.



IMAGE 13

23. On the bumper cover, use a piece of masking tape, mark the center of the license plate mounting holes as shown. With the bar mounted to have the parachute mount to be centered in the license plate. The hole in your bumper cover needs to be approximately 4" down from the center line of the license plate mounting holes as in **IMAGE 14**



IMAGE 14

24. With the bar mounted to have the parachute mount to exit below the rear bumper, you will need to drill on the body line as shown in **IMAGE 14**. It is approximately 8.5" from the center line if the license mounting holes.

25. Tap the bumper and feel where the mount is, then use a small 1/8" drill bit centered in the bumper and find the location of the cross-bar mount.

26. Once you have drilled into the center of the cross-bar mount, use a 2" hole saw and cut out the material to expose the cross-bar mount.

27. Once the hole has been cut, you can reassemble the rear bumper following the previous instructions, but in reverse.

NOTE: This parachute mount is for off-road use only. Before use, ensure that the strength characteristics of the parachute, parachute mount and tether will exceed the maximum load experienced during use

Torque Specs:

1/2" Bolts: **80 ft lbs**

M12 Bolts: **70 ft lbs**

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