

Cockpit Brace

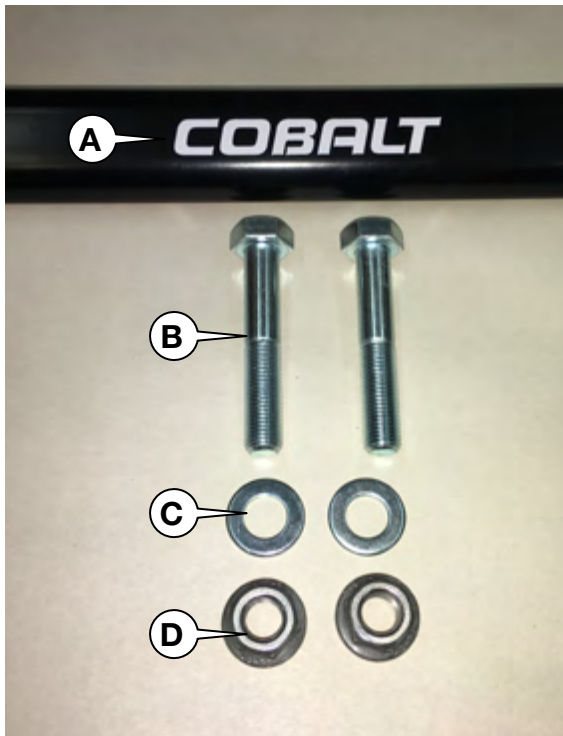
Installation Instructions

For: 1990-2005 Miata

PART # 909-045

Read and understand these instructions before beginning the installation. If your car did not come with a chassis brace attached to the seat belt towers, you will need to cut the plastic trim in this area.

Bill of Materials



Ref.	Part	Qty
A	Cockpit Brace	1
B	Bolt, M12x1.25x60mm	2
C	Washer M12	2
D	Nut, Flange M12x1.25	2

Required tools:

- Hole saw
- Drill motor
- Rotary tool with cut off wheel or body saw
- Radiused file
- Phillips screw driver
- Small flat screw driver or trim removal tool
- 10mm, 14mm, 17mm, 18mm, & 19mm sockets
- Ratchet
- 6" extension
- Cable ties
- Side cutters
- Tape

Instructions:

- 1) Put the top down (for easier access) and use a cable tie to secure the seat belt near the shoulder connection point. This will keep the belt from retracting too far into the tensioner.



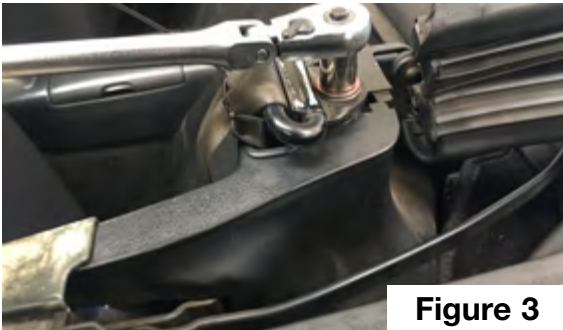
Figure 1

Installation Instructions

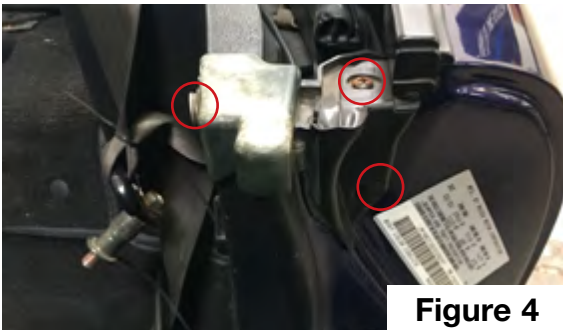
- 2) Remove the trim cover on the shoulder seat belt point, it just pulls off by hand.



- 3) Remove the bolt securing the shoulder seat belt point to the chassis using a 14mm. Secure the stack of washers to the bolt using a cable tie to keep them organized.



- 4) Remove the cap at the top of the "B-pillar". There are two Philips screws along with a plastic push in fastener on the front side that is accessible with the door open.



- 5) Pull up sharply to remove the door sill plate. It is attached with clips from the underside.



- 6) Remove the rubber U-channel trim from along the body seam in the door area.



- 7) Fold the carpet back as show. You will need to remove one push in fastener on the shelf carpet.



- 8) Remove any other fasteners securing the plastic interior B-pillar trim to the body. There may be Phillips screws or bolts with 10mm heads.



- 9) Remove the B-pillar trim. There is a smaller rectangular trim piece which encompasses the seat belt as well that must be separated from the B-pillar trim. Once this is out of the way, the seat belt can be removed from the B-pillar trim.

There are 2 metal clips down toward the middle and bottom of this piece. Pull the panel sharply toward the middle of the car to pop them out of the B-pillar.



Figure 9

- 10) Use 10 & 14mm sockets to remove the seat belt tensioner from the chassis. The lower bolt may have a washer. Note: do not rotate the seat belt tensioner. It must be reinstated later, exactly as it came off. Otherwise a twist in the belt may be introduced.

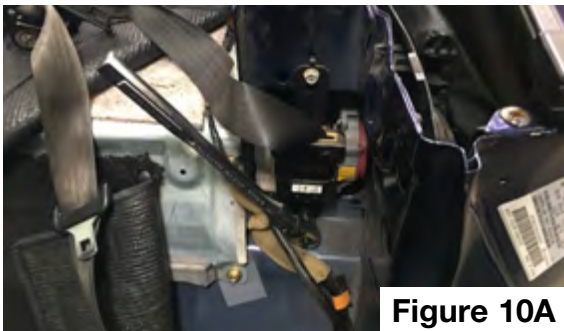


Figure 10A



Figure 10B

- 11) Repeat all steps on the opposite side of the car.

- 12) Install a washer on to each of the bolts. Install the cockpit brace on to the B-pillars as shown. Insert the bolts down into the brace and through the hole in the B-pillar next to the seat belt bolt holes. The chassis brace may be a tight fit and require a little force to get it to sit down in the pocket.



Figure 12

- 13) Install the nut buy reaching up through the seat belt tensioner hole and turning the bolt with 19mm socket or wrench. This can be a little tricky.

Tip: Use a 17mm socket and extension to gain a bit of reach upward.

Tighten the nuts to 30 ft. lbs.

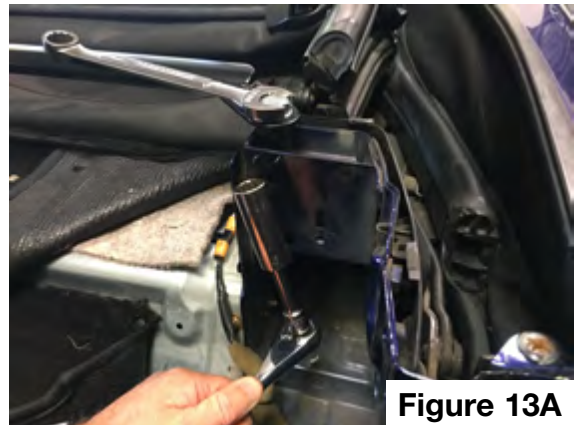


Figure 13A

Installation Instructions

- 14) Make sure to measure the 1" box on the template provided on the last page of these instructions. If it does not measure 1 inch exactly, may need to print another from Moss Miata and play with the scaling on your printer.

Use the templates to mark the hole location on the plastic B-pillar trim. Use a 1" hole saw to make the hole in the plastic B-pillar trim. The cross on the template locates the center of the hole. Cut the excess material in between the two holes as the template dictates.

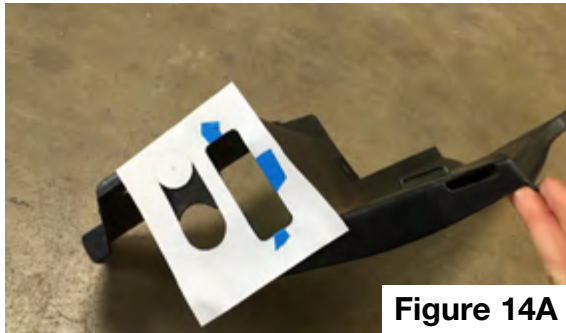


Figure 14A



Figure 14B



Figure 14C

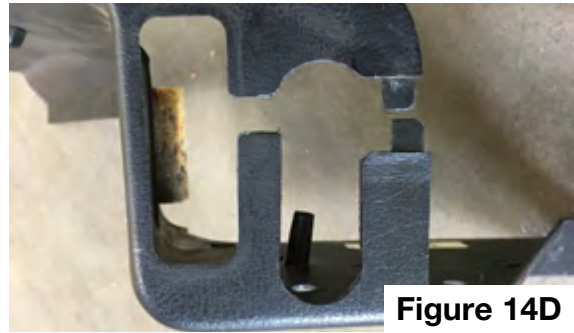


Figure 14D

- 15) Test fit the B-pillar trim. It is a tight fit to get it under the bar and installed properly. You may need to file the edges or holes to get the B-pillar trim to fit just right.



Figure 15

- 16) Once the B-pillar trim fits satisfactory, reassemble the parts in reverse of disassembly.

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