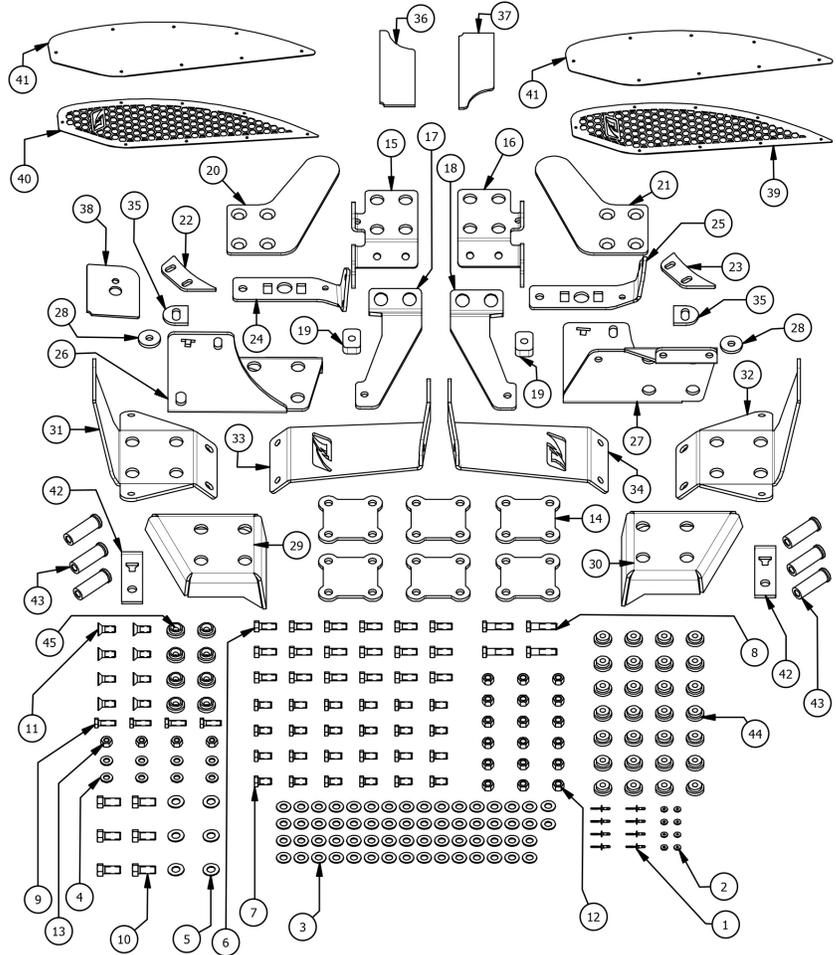


## MB3032 – JKU Cage Plate Kit Installation Instructions

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	8	Dash Rivet 1/8 x 0.389	
2	8	Dash Rivet Washer 1/8	
3	62	Flat Washer, 3/8"	
4	8	Flat Washer, 5/16"	
5	6	Flat Washer, 7/16"	
6	18	Hex Bolt, 3/8"-16 UNC x 1.0"	
7	24	Hex Bolt, 3/8-16 UNC X 0.75"	
8	4	Hex Bolt, 3/8-16 UNC x 1.5"	
9	4	Hex Bolt, 5/16-18 UNC x 1"	
10	6	Hex Bolt, 7-16"-20 UNF x 1.0"	
11	8	Hex Countersunk, 3/18"-16 UNC x 1.0"	
12	18	Hex Nylock Nut, 3/8" - 16	
13	4	Hex Nylock Nut, 5/16" - 18	
14	6	MB3022	Pillar Base Plate
15	1	MB3032-01	Plate 01
16	1	MB3032-01_MIR	Plate 01_MIR
17	1	MB3032-02	Plate 02
18	1	MB3032-02_MIR	Plate 02_MIR
19	2	MB3032-03	Plate 03
20	1	MB3032-04	Plate 04
21	1	MB3032-04_MIR	Plate 04_MIR
22	1	MB3032-05A ver 2	Plate 05A
23	1	MB3032-05A ver 2_MIR	Plate 05A_MIR
24	1	MB3032-05B	Plate 05B
25	1	MB3032-05B_MIR	Plate 05B_MIR
26	1	MB3032-06	Plate 06
27	1	MB3032-06_MIR	Plate 06_MIR
28	2	MB3032-07	Plate 07
29	1	MB3032-08	Plate 08
30	1	MB3032-08_MIR	Plate 08_MIR
31	1	MB3032-09	Plate 09
32	1	MB3032-09_MIR	Plate 09_MIR
33	1	MB3032-10	Plate 10
34	1	MB3032-10_MIR	Plate 10_MIR
35	2	MB3032-11	Plate 11
36	1	MB3032-12	Plate 12
37	1	MB3032-12_MIR	Plate 12_MIR
38	1	MB3032-13	Plate 13
39	1	MB3032-14	Plate 14
40	1	MB3032-14_MIR	Plate 14_MIR
41	2	MB3032-15	Plate 15
42	2	MB3036	Seat Belt Mount
43	6	MB5514	Seat Belt Bung
44	28	Weld Nut 0.375 UNC	Weld Nut
45	8	Weld Nut 0.375 UNC w/ Countersink	Weld Nut Countersink



**MB3032 – JKU Cage Plate Kit Installation Instructions**

**The factory interior must first be removed.**

**NOTE:**

Note: The dash and center console can remain in the vehicle, but will need to be protected from sparks during welding

- 1** Confirm that Jeep tub is level to the ground. This may require setting the Jeep on jack stands
- 2** Remove the negative battery terminal from the battery.
- 3** Remove the top from the Jeep.
- 4** Remove all doors
- 5** Starting from the front remove the driver seat by first unplugging the seat from the factory harness and then removing the four bolts mounting the seat bracket to the Jeep tub. (13mm socket)
- 6** Remove the front passenger seat by first unplugging the seat from the factory harness and then removing the four bolts mounting the seat bracket to the Jeep tub. (13mm socket)
- 7** Remove the rear seat by removing the eight bolts and two nuts fastening it to the Jeep tub. See picture below for marked bolt locations. (13mm and 18mm socket)

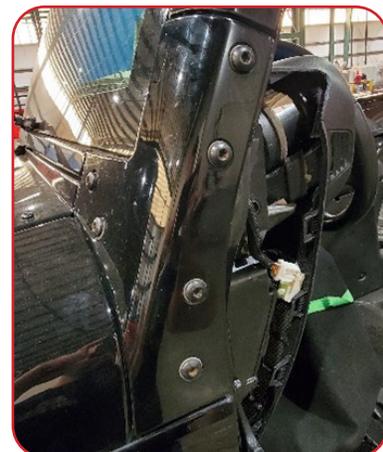


**MB3032 – JKU Cage Plate Kit Installation Instructions**

- 8** Remove the plastic trim surrounding the windshield. (Philips Screws)
- 9** Remove the driver and passenger sun visors. (T-20) (Hardware will be re-used)
- 10** Remove the plastic trim surrounding the B-Pillar
- 11** Remove the rear sub-woofer if equipped and rear plastic trim. (10mm socket)
- 12** Remove the stock seat belt retractors and seat belts (Torx T-50 and T45) front and rear. The bolts retaining the seat belt retractors can be difficult to remove. This is normal due to the factory thread locker but be careful not to strip them. The front seat belt retractors reuse the OEM hardware. New hardware is included for the rear seat belt retractors
- 13** Remove all the interior carpeting
- 14** Unplug then remove the rear soundbar and dome light.
- 15** Unplug and remove the trunk over head dome light by unclipping it from the factory cage.
- 16** Remove the rear soft top brackets if equipped. (10mm) (Will be re-used)
- 17** Remove the factory roll bar padding and foam.
- 18** Unplug then remove the factory GPS antenna if equipped. (10mm) (hardware is re-used)
- 19** Detach the wiring harness from the passenger side B-pillar that connects to the GPS antenna and sound bar.
- 20** Unplug the wiring harness from the windshield frame and move aside.

**Removing the stock cage**

- 21** Unbolt the front cage tubes that attach the B-Pillar to the windshield frame. (13mm)
- 22** Remove the windshield wipers
- 23** Remove the windshield brackets (T-40)



**MB3032 – JKU Cage Plate Kit Installation Instructions**

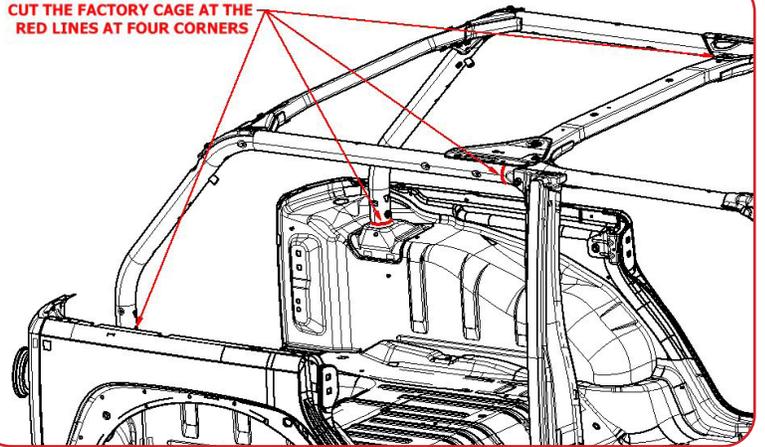
- 24** Fold the windshield down. Cover and protect the windshield glass from welding sparks to avoid damage.

**When cutting the factory cage protect all exposed metal from corrosion**

- 25** Starting at the D-pillar, cut the factory cage off the tub on both sides of the vehicle. Cut the cage as close to the factory base as possible.

- 26** After cutting the D-pillar, cut the factory cage from the B-pillar. This is a rough cut to remove the cage and will be trimmed later for fitment.

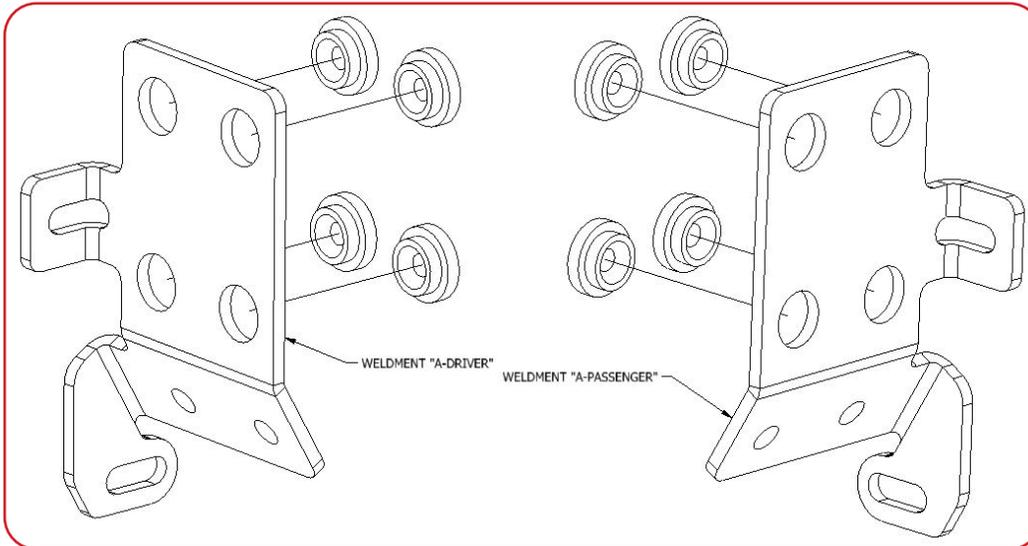
**CUT THE FACTORY CAGE AT THE RED LINES AT FOUR CORNERS**



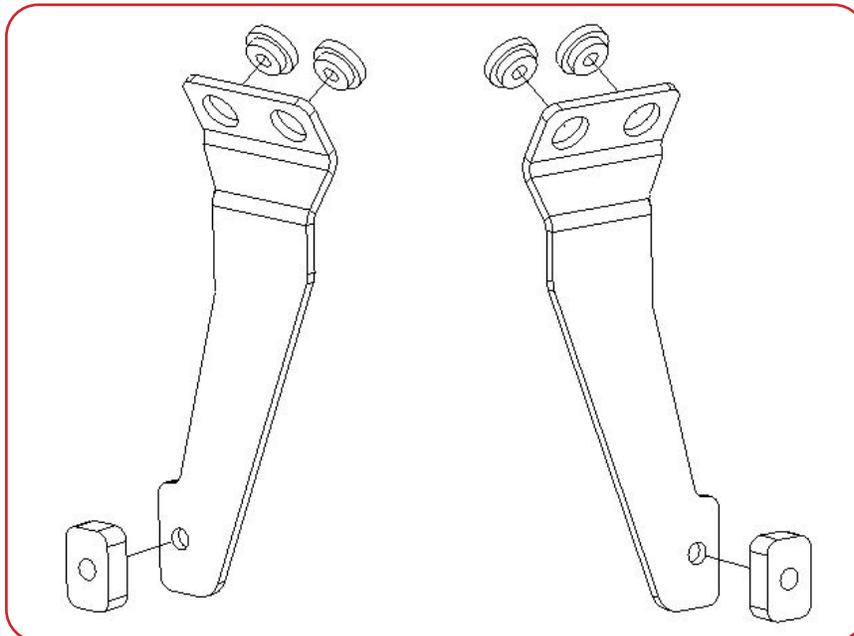
- 27** Remove the factory cage and set aside.
- 28** Cut off the stud that is in front of D-pillar on the driver and passenger side.
- 29** Grind or cut the factory D-pillar so that it is flush with the base. This will be covered over with a plate provided in the kit.

**MB3032 – JKU Cage Plate Kit Installation Instructions**

- 30** Weld the provided 0.375UNC Countersunk weld nuts to MB3032-01 and MB3032-01\_MIR. Four weld nuts per plate.

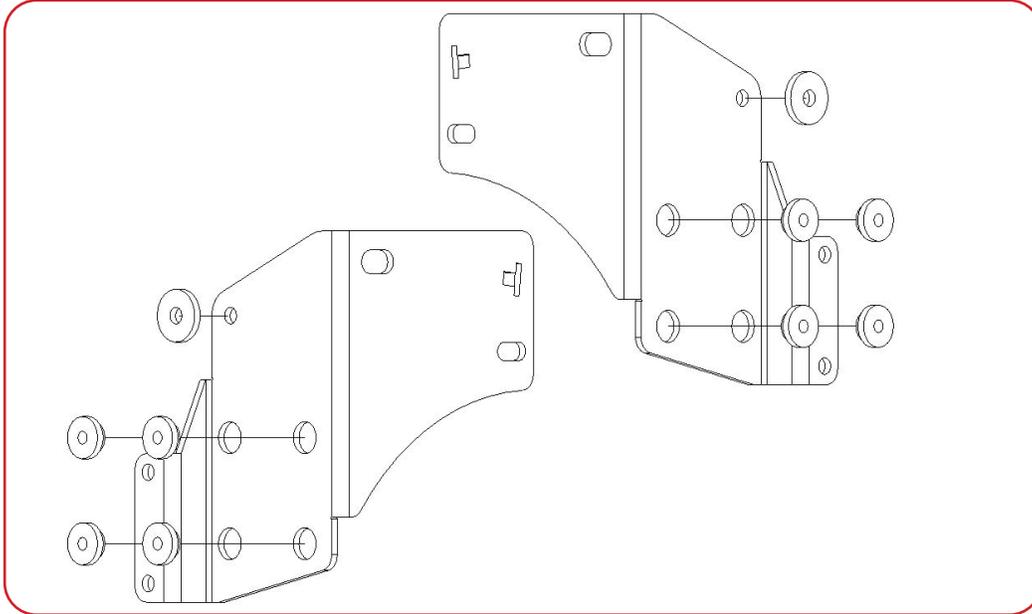


- 31** Weld the spacer plate and weld nuts to MB3032-02 and MB3032-02\_MIR. Two weld nuts and one spacer per plate.

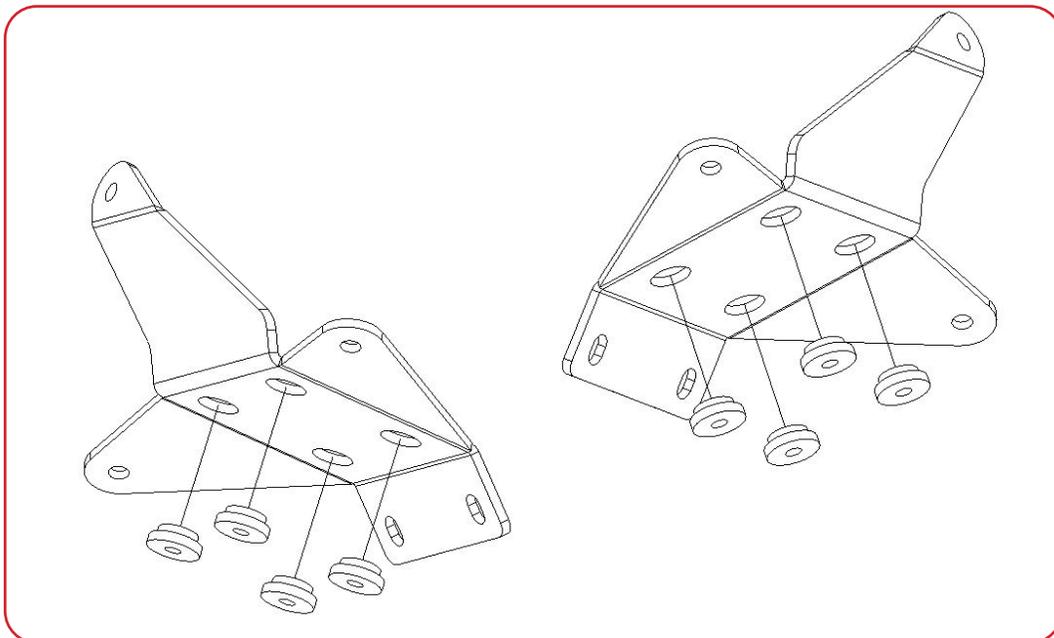


**MB3032 – JKU Cage Plate Kit Installation Instructions**

- 32** Weld the weld nuts and MB3032-07 spacer plate to MB3032-06 and MB3032-06\_MIR. Four weld nuts and one spacer per plate.

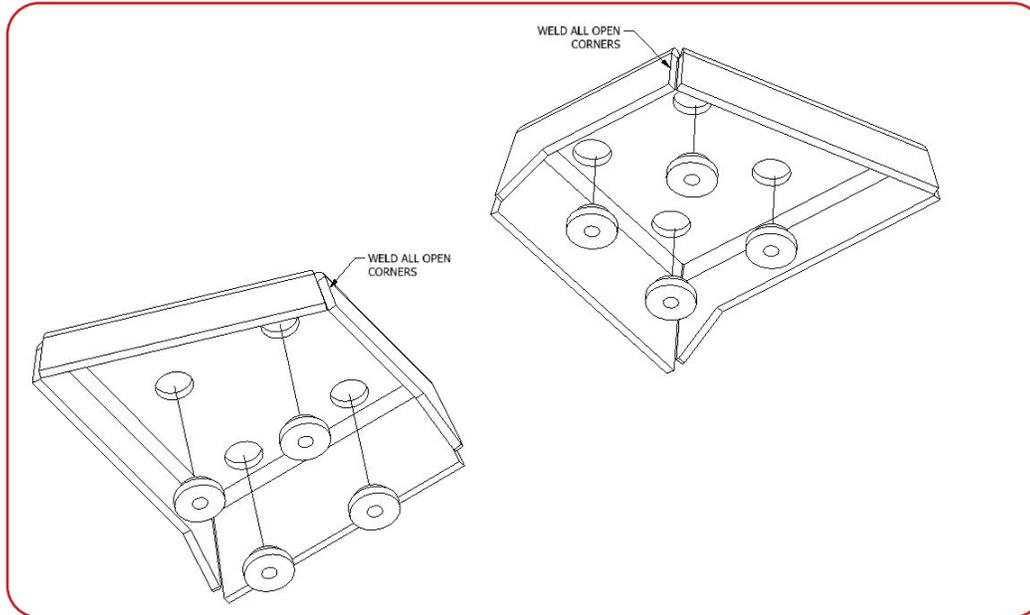


- 33** Weld the weld nuts to MB3032-09 and MB3032-09\_MIR. Four weld nuts and one spacer per plate.

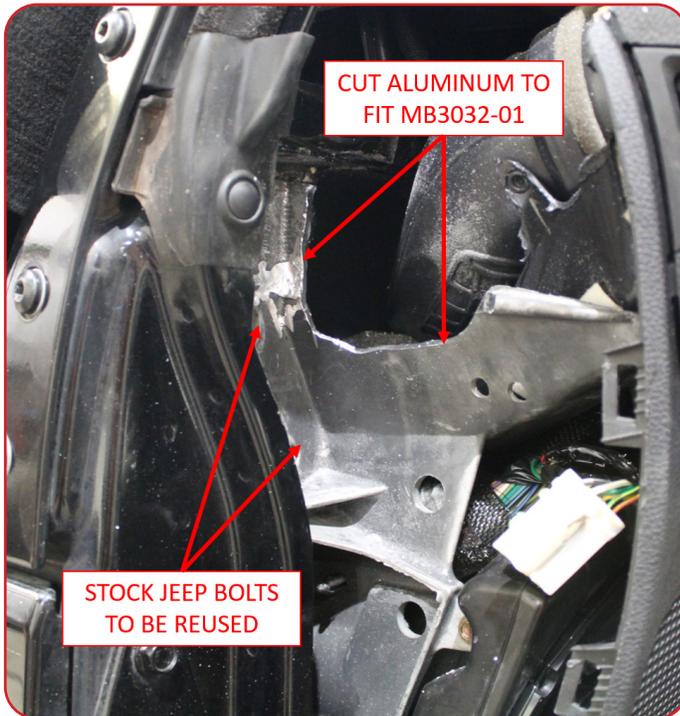


**MB3032 – JKU Cage Plate Kit Installation Instructions**

- 34** Weld the weld nuts to MB3032-08 and MB3032-08\_MIR. Four weld nuts and one spacer per plate. Then weld the four corner seams.

**Setting the A-Pillar [Reference Assembly Drawing: MB3032 – A-Pillar]**

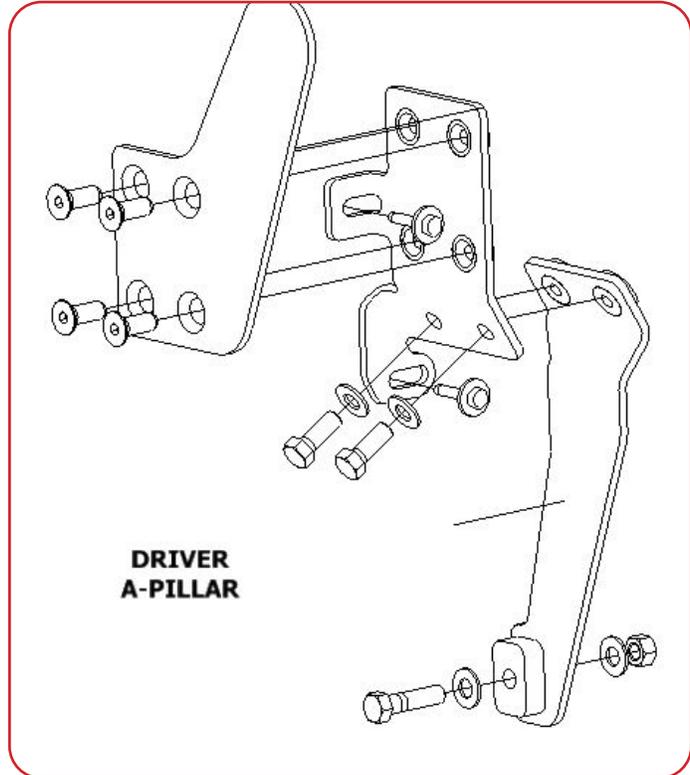
- 35** Remove the plastic trim on each side of the dash. Starting on the drivers side remove the two 6mm bolts (10mm socket) that are securing the aluminum dash structure to the tub. These bolts will be reused. Take plate MB3032-01 and test for fitment. The aluminum dash will need to be trimmed to allow MB3032-01 to fit properly. Once the aluminum dash structure has been properly trimmed back, fasten MB3032-01 to the aluminum dash structure using the two factory bolts that were previously removed. Do not fully tighten.

**MB3032 – JKU Cage Plate Kit Installation Instructions****36**

Install MB3032-02 by sliding the top of the plate with the two weld nuts installed behind plate MB3032-01. The spacer plate welded to MB3032-02 should be behind the pinch weld. Fasten MB3032-02 to MB3032-01 by hand tightening two 3/8"-16 x 1" hex bolts and two 3/8" washer into the weld nuts on plate MB3032-02.

**MB3032 – JKU Cage Plate Kit Installation Instructions****Setting the A-Pillar [Reference Assembly Drawing: MB3032 – A-Pillar]**

- 37** Fasten plate MB3032-04 to MB3032-01 using four 3/8"-16 X 1" hex countersunk bolts.



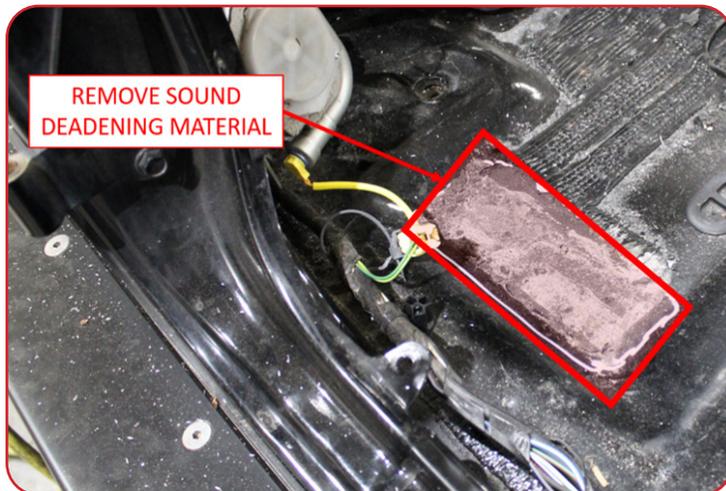
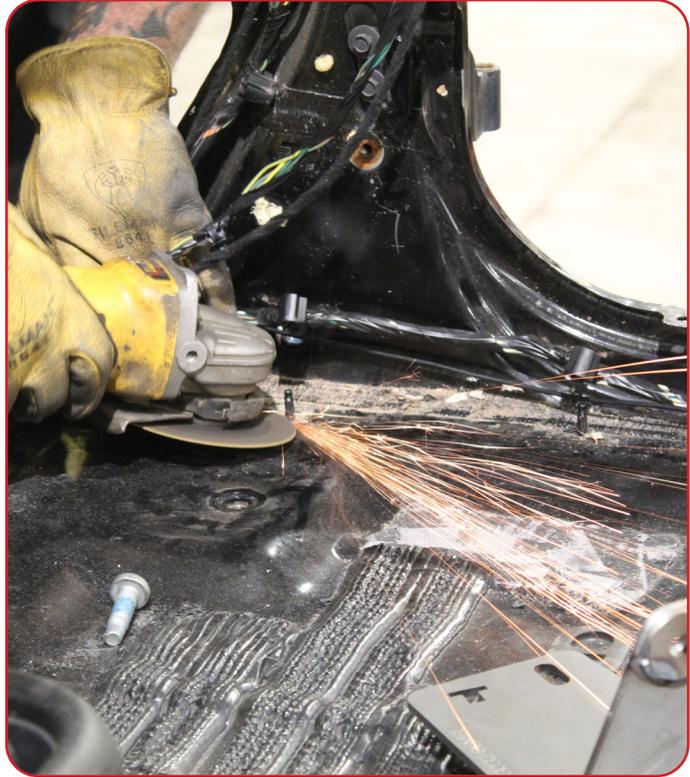
- 38** Repeat steps 36-38 for the passenger side.



**MB3032 – JKU Cage Plate Kit Installation Instructions****Setting the B-Pillar [Reference Assembly Drawing: MB3032 – B-Pillar]**

**39** Unclip the wiring harness that is routed on the floor the Jeep by the B-pillar and move it out of the way.

**40** Grind off the stud on the floor near the B-pillar that is used to attach the harness.



**REMOVE SOUND  
DEADENING MATERIAL**

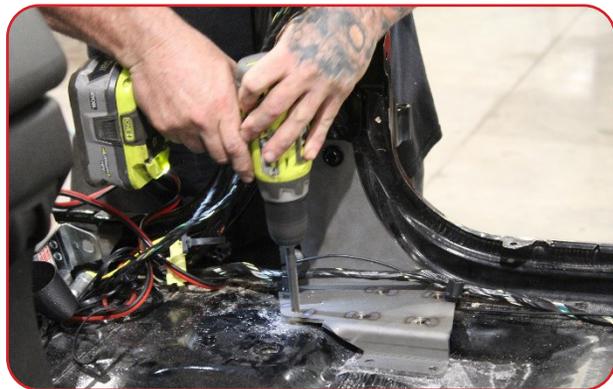
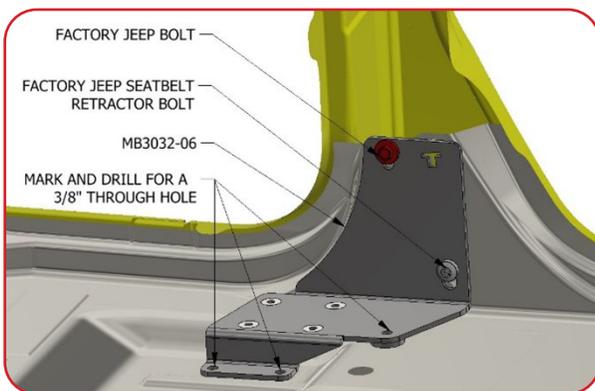
**41** Scrape away the factory sound deadening material to allow MB3032-06 to sit flat to the body

**MB3032 – JKU Cage Plate Kit Installation Instructions****Setting the B-Pillar [Reference Assembly Drawing: MB3032 – B-Pillar]**

- 42** Bolt plate MB3032-06 to the Jeep tub using the factory Jeep bolt and factory Jeep seatbelt retractor bolt



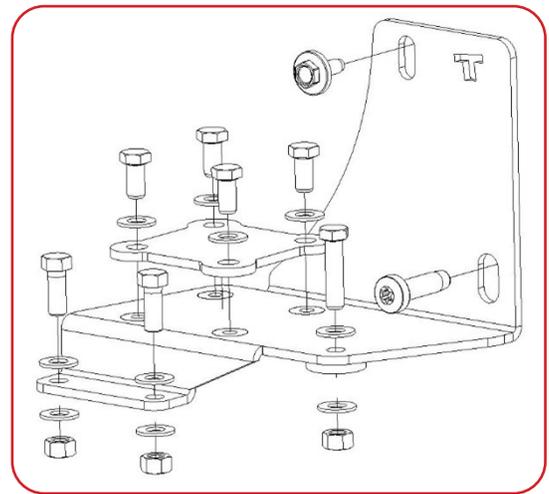
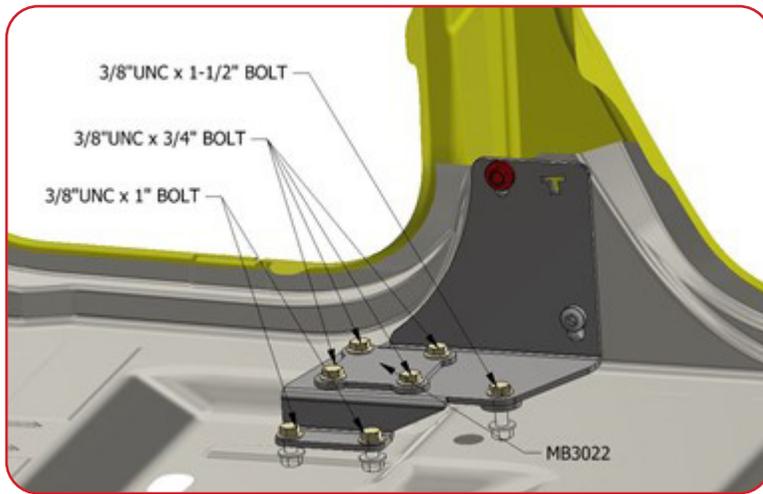
- 43** Mark the three holes that need to be drilled. Drill the three holes that bolt MB3032-06 to the tub floor to allow a 3/8" bolt to pass through.



- 44** After drilling bolt MB3032-06 back to the place and fasten using the two factory bolts that attach to the B-pillar and the three 3/8" bolts that bolt through the tub. The factory wiring harness should be above the plate and not pinched between the B-pillar mount and the body.

**MB3032 – JKU Cage Plate Kit Installation Instructions****Setting the B-Pillar [Reference Assembly Drawing: MB3032 – B-Pillar]**

- 45** Now bolt MB3022 to MB3032-06 two the four weld nuts using 3/8"UNC x 3/4" hardware provided.
- 46** Tighten hardware and repeat steps 40-46 on the passenger side

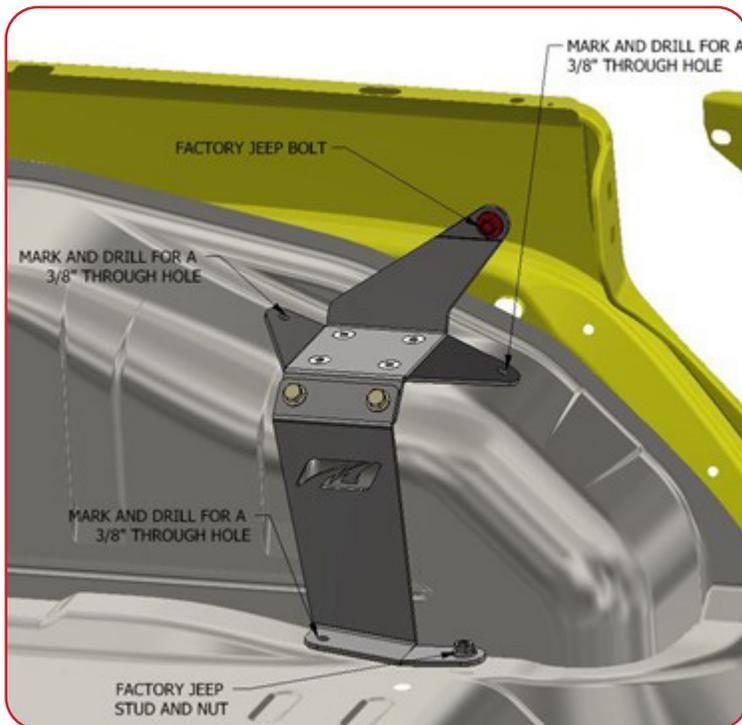
**Setting the C-Pillar [Reference Assembly Drawing: MB3032 – C-Pillar]**

- 47** Bolt MB3032-09 to MB3032-10 using the provided 3/8" hardware.
- 48** Mount the bolted assembly to the tub using the factory bolt and stud.



**MB3032 – JKU Cage Plate Kit Installation Instructions****Setting the C-Pillar [Reference Assembly Drawing: MB3032 – C-Pillar]**

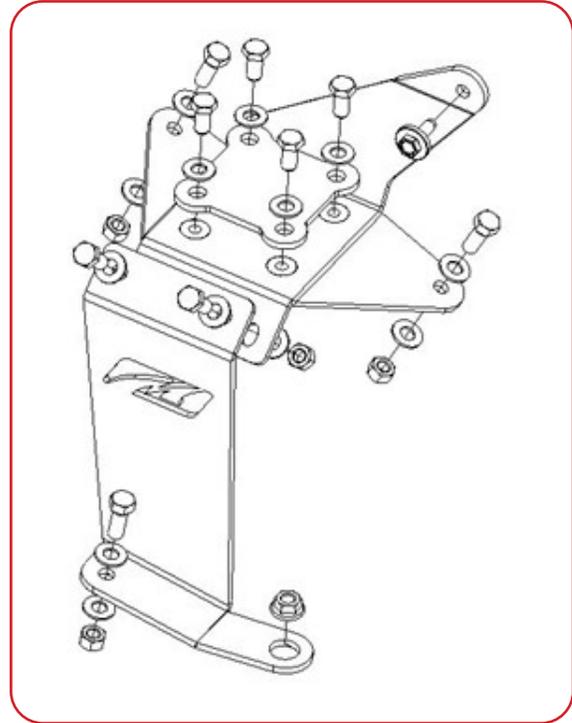
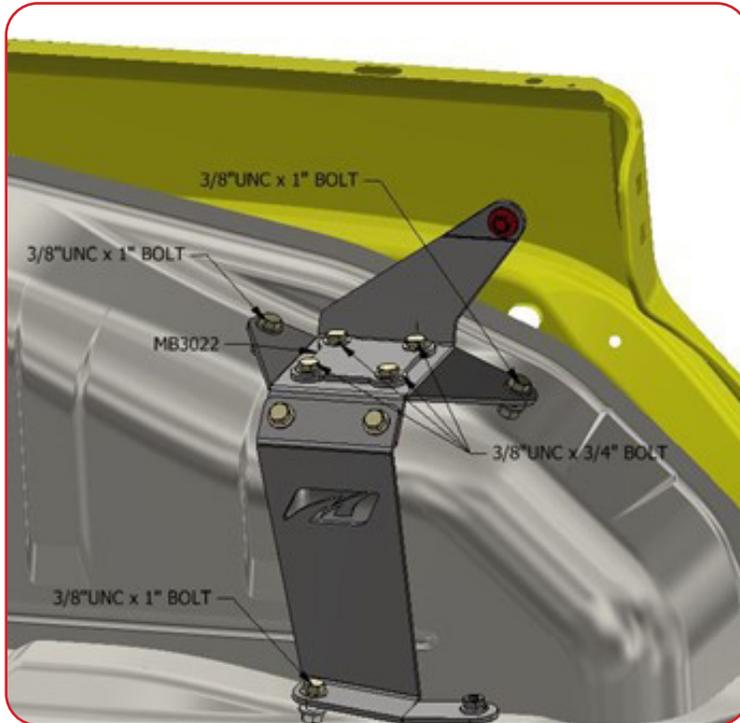
- 49** Mark the three holes that need to be drilled. Drill the three holes that bolt the assembly to the tub floor to allow a 3/8" bolt to pass through



- 50** Fasten the assembly MB3032-09 and MB3032-10 to the Jeep tub using the provided 3/8" hardware for the holes that were drilled and the factory hardware.

**MB3032 – JKU Cage Plate Kit Installation Instructions****Setting the C-Pillar [Reference Assembly Drawing: MB3032 – C-Pillar]**

- 51** Mount plate MB3022 and mount to the weld nuts on plate MB3032-09 using the provided 3/8" hardware.



- 52** Tighten hardware and repeat steps 47-52 on passenger side.

**MB3032 – JKU Cage Plate Kit Installation Instructions****Setting the D-Pillar [Reference Assembly Drawing: MB3032 – D-Pillar]**

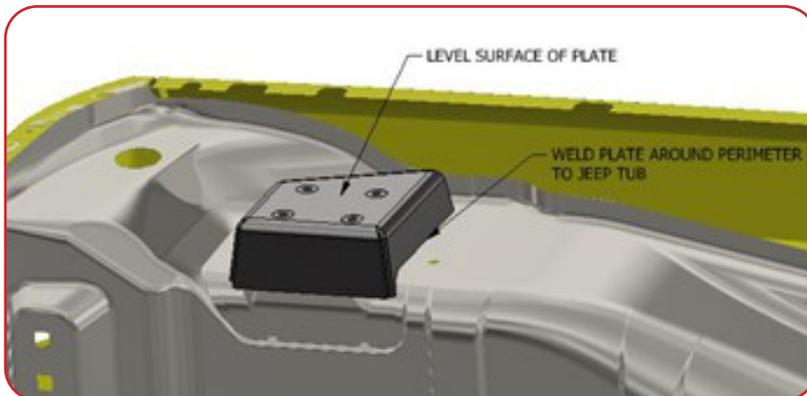
**53** Set plate MB3032-08 on top of where the stock Jeep cage was cut off. MB3032-08 should seat itself, if not the stock cage may need to be trimmed down further. The long edge should face towards the front of the Jeep and the short edge should be rear facing

**54** With the Jeep level, level the top surface of plate MB3032-08



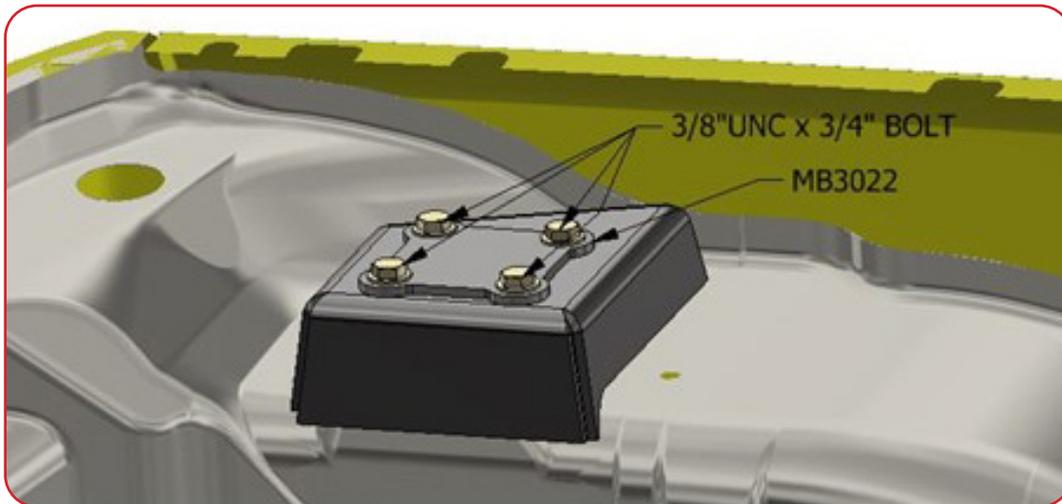
**55** Mark the area at the bottom of MB3032-08 where it meets the tub. Remove the plate and grind the tub down to the bare metal 1/2" above and below the line to prepare for welding.

**56** Tack MB3032-08 to the tub and confirm the plate top surface is still level. Then weld the bottom edges of MB3032-08 directly to the Jeep tub around the perimeter.



**MB3032 – JKU Cage Plate Kit Installation Instructions****Setting the D-Pillar [Reference Assembly Drawing: MB3032 – D-Pillar]**

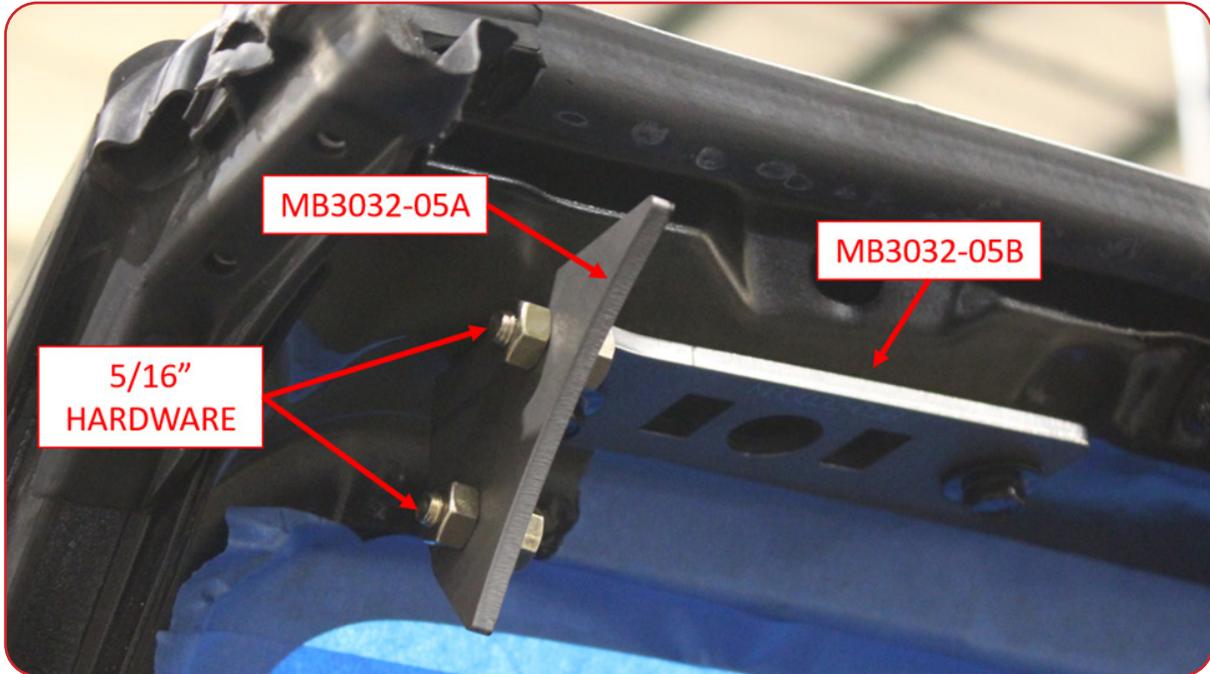
- 57** Bolt MB3022 to MB3032-08 using the provided 3/8" hardware.



- 58** Tighten hardware and repeat steps 54-58 on passenger side

**MB3032 – JKU Cage Plate Kit Installation Instructions**

- 59** Attach MB3032-05B to the windshield using the factory hardware. Bolt MB3032-05A to MB3032-05B using the supplied 5/16" hardware. MB3032-05A can be welded to the A-pillar tube.

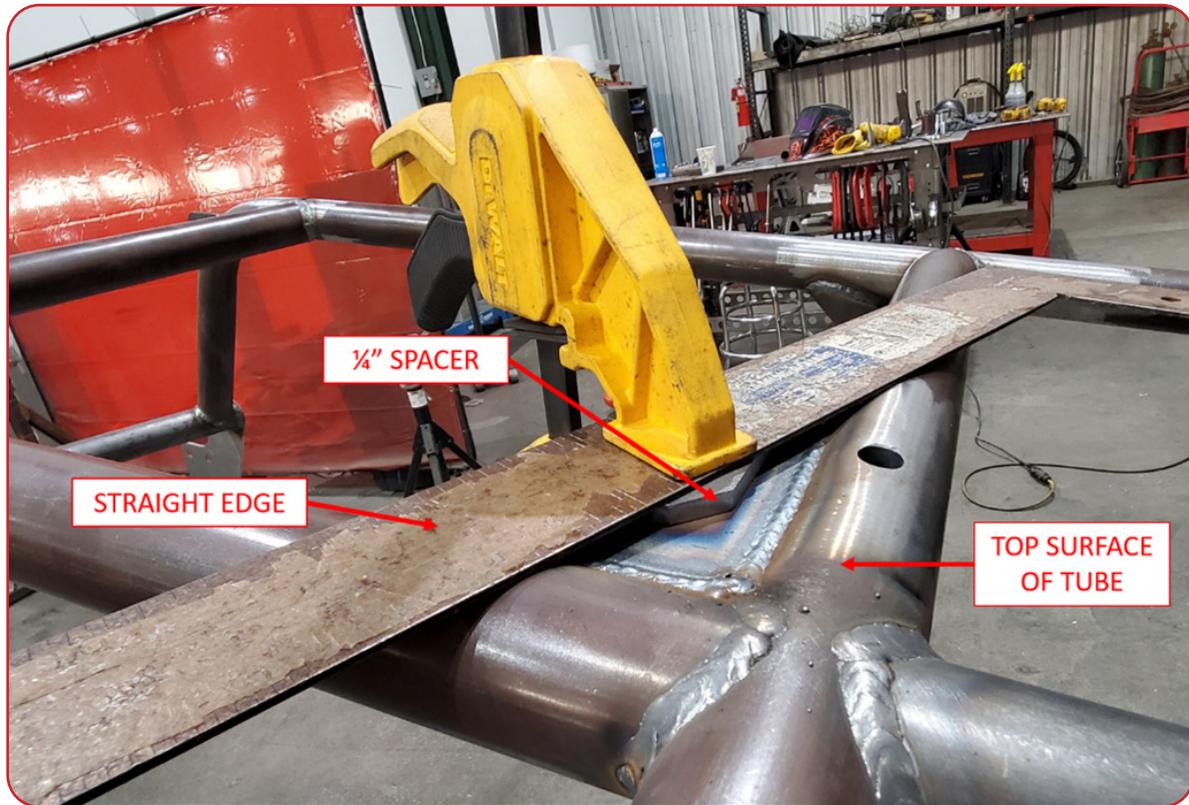


- 60** Install the rear seat belt retractor brackets MB3036. Bolt in place and weld the plate to the tube and D-Pillar cage foot MB3022.



**MB3032 – JKU Cage Plate Kit Installation Instructions**

- 61** Weld two freedom panel foot pads MB3032-12 and MB3032-12\_MIR, one on the driver side and one on the passenger side Finish weld after confirming fitment.



**MB3032 – JKU Cage Plate Kit Installation Instructions**

**62** Cut off the top retainer clip

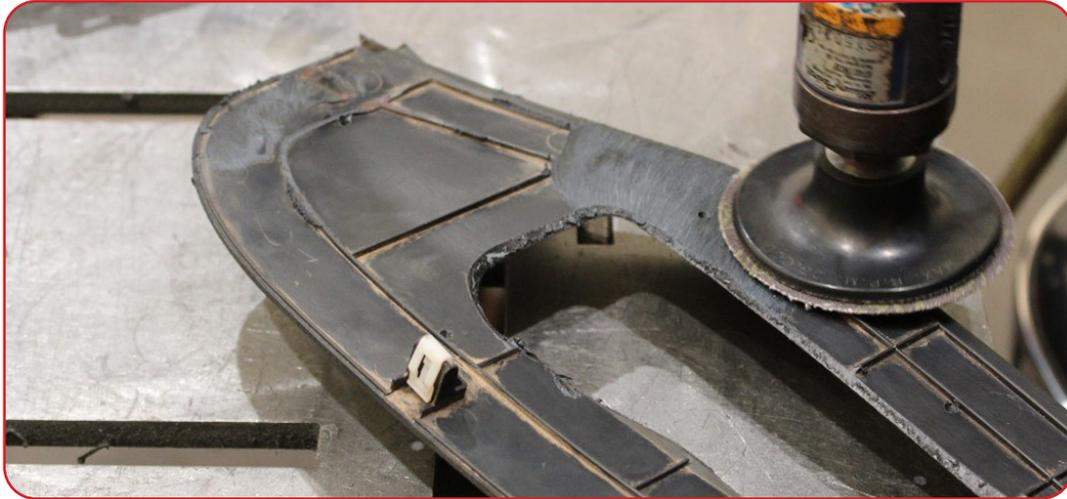


**63** Trim the dash side panel to remove the center inset



**MB3032 – JKU Cage Plate Kit Installation Instructions**

- 64** Sand down the internal plastic ribbing so it does not interfere with the A-pillar plate



- 65** Lay the MB3032-15 cover plate over the panel and mark and drill the holes for the rivets. Test fit all the holes line up on the MB3032-19, MB3032-20, and dash trim plate. This may require slightly bending the cover plates by hand to conform to the trim plate. Then remove for paint or powder coating.



**MB3032 – JKU Cage Plate Kit Installation Instructions**

- 66** After paint, rivet the MB3032-14 and MB3032-15 cover plates onto the plastic trim panel. Use eight 1/8" rivets on each side with a washer on the plastic side in the back.



- 67** Reinstall the cover plate onto the dashboard.