



## Jeep Grand Cherokee WK2

MY2011-2021

### Predator Bull Bar

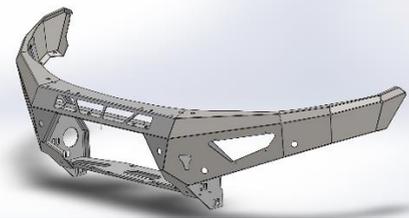
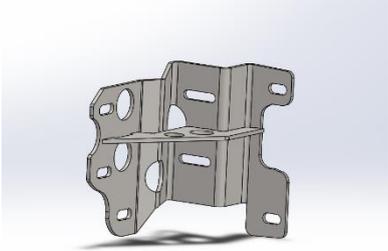
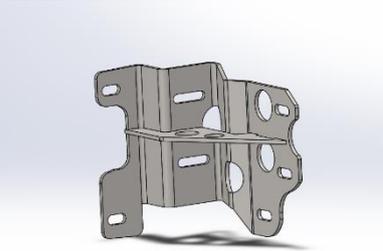
#### **IMPORTANT! – READ BEFORE INSTALLATION**

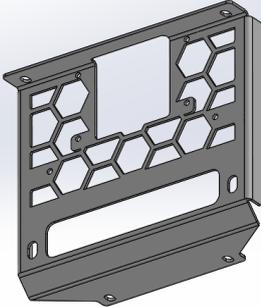
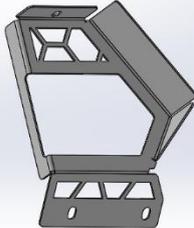
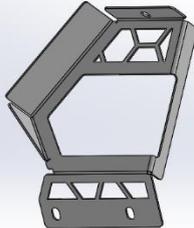
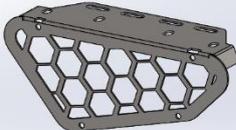
- When installed in accordance with these instructions, the front protection bar does not affect the operation of the vehicles SRS airbags.
- This product must be installed exactly as per these instructions using only hardware supplied.
- Take a few moments to read instructions thoroughly before beginning work.
- In the event of damage to any component please contact OFFROAD ANIMAL to arrange repair/replacement of components.
- Do not use this product for any vehicle make or model other than that specified on these instructions.
- Do not remove labels from this product.
- This product and its fixings must not be modified in any way unless stated in these fitting instructions.
- The installation of this product is recommended for trained personnel.
- These instructions are correct at time of publication. OFFROAD ANIMAL cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer. If you find something has changed please contact us to let us know!
- During installation it is the duty of the installer to check correct operation/clearances of all components.
- If Instructions are to be printed for reference in the workshop, it is recommended that they are printed in color, for best legibility.
- Estimated install time: 6 hours

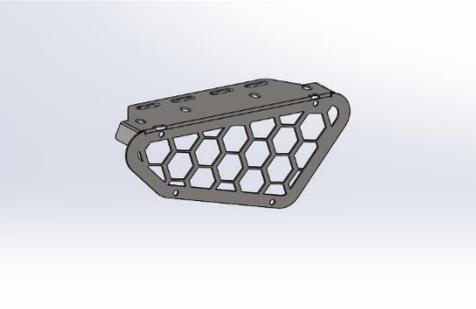
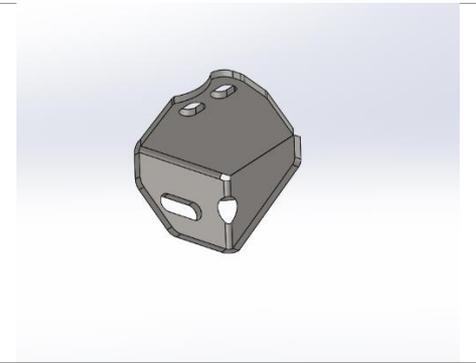
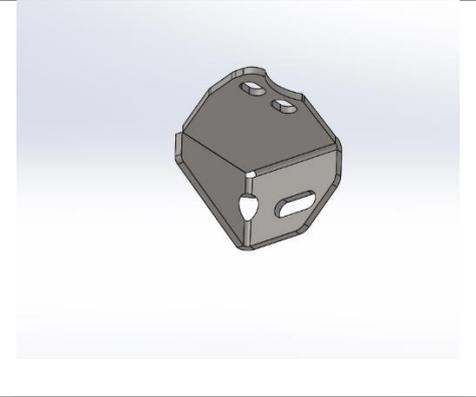
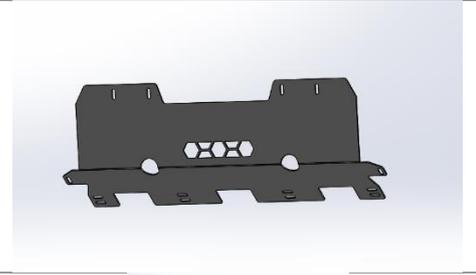
# PARTS LISTING

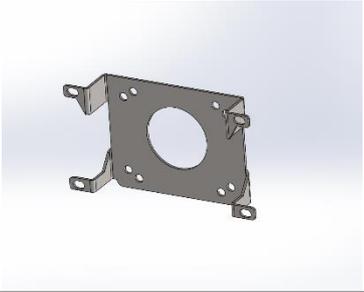
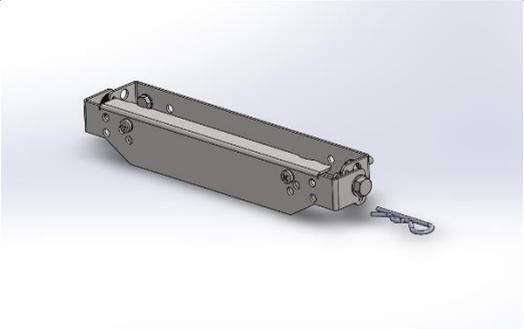
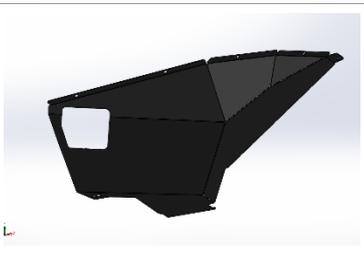
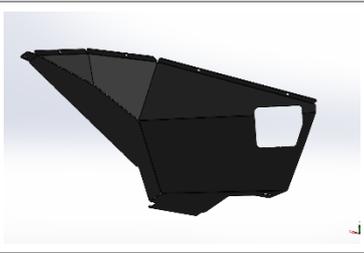
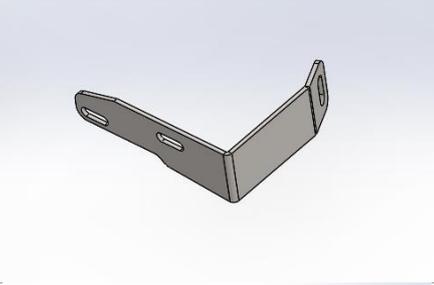
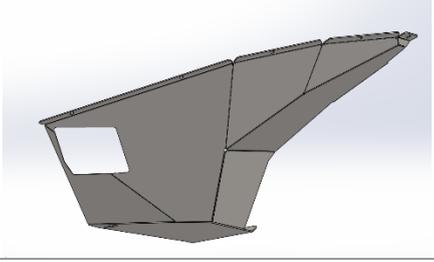
**IMPORTANT:** Check all parts are present before beginning work! Contact OFFROAD ANIMAL if something is missing.

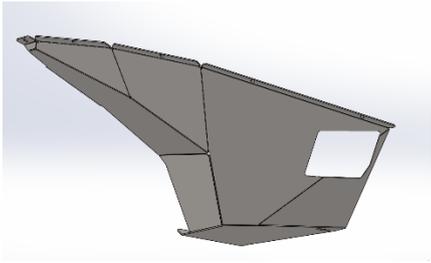
## Main Parts – In the Box

Qty	Part Number	Description	Image
1	FB-JGC-WK2-14-PR-ASM1	Wk2 Predator Weldment	
1	RP-JGC-WK2-11-ASM0	Recovery Points Wk2 (some customers may already have these)	
1	FB-JGC-WK2-14-PR-ASM2L	Impact Absorber wk2 LH	
1	FB-JGC-WK2-14-PR-ASM2R	Impact Absorber wk2 RH	

<p><b>1</b></p>	<p>M-0020</p>	<p>Wk2 Predator Centre Fairlead Mesh</p>	
<p><b>1</b></p>	<p>M-0015L</p>	<p>Dmax Predator Side Mesh LH</p>	
<p><b>1</b></p>	<p>M-0015R</p>	<p>Dmax Predator side Mesh RH</p>	
<p><b>1</b></p>	<p>M-002L</p>	<p>Light cover Mesh LH</p>	

<p><b>1</b></p>	<p>M-002R</p>	<p>Light Cover Mesh RH</p>	
<p><b>2</b></p>	<p>B-0482L</p>	<p>Wk2 Lower gusset LH</p>	
<p><b>1</b></p>	<p>B-0482R</p>	<p>Wk2 Lower gusset RH</p>	
<p><b>1</b></p>	<p>U-0033</p>	<p>Wk2 Predator bash plate</p>	
<p><b>2</b></p>	<p>P-0165</p>	<p>Wk2 Radiator brace predator</p>	

1	B-0474	Acc mount Predator	
1	NPF-COM-SM-ASMO	Number plate flip Sml	
1	U-0038L If Vehicle equipped with Air suspension	Wk2 side under panel with Air suspension LH	
1	U-0038R If Vehicle equipped with Air suspension	Wk2 side under panel with Air suspension RH	
1	B-0087 If Vehicle equipped with Air suspension	Air Suspension Bracket	
1	FB-JGC-WK2-14-PR-ASM3L If Vehicle equipped with steel springs	Wk2 under panel No Air Suspension LH	

<b>1</b>	FB-JGC-WK2-14-PR-ASM3R If Vehicle equipped with steel springs	Wk2 under panel No Air Suspension RH	
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### Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
10	M8 FW Black Zinc	M8 Flat washer black zinc plate
6	M8 x 30 BHCS BZ	M8 x 30 Button Head Cap Screw, Black Zinc
8	M8 FN	M8 Flange Nut
14	M12 FW LHD	M12 Flat washer large heavy duty
6	M12 NY	M12 Nyloc Nut
22	M6x16 BHCS BZ	M6 x 16 Button Head Cap Screw, Black Zinc
22	M6 FW BZ	M6 Flat washer, Black Zinc
14	M6 FN	M6 Flange Nut
4	M10 FN	M10 Flange Nut
4	M10 FW	M10 Flat Washer
4	M10 x 50	M10 x 50 Hex Bolt, Zinc Plate
1	OFA-LOGO	OFFROAD ANIMAL METAL LOGO
1	Pinch Weld 2.8M	Pinch Weld Black 14mm x 9mm x 2.8M
2	M12 FN	M12 Flange Nut
8	M12x30	M12 x 30 Hex bolt 8.8
5	M6 FW MD	M6 Mud Guard Washer
5	M6 x 20	M6 x 20 Hex bolt 8.8
4	M8 x 16 BHCS BZ	M8 x 16 Button Head Cap Screw Black Zinc
4	M5 x 30 Pan	M5 x 30 Pan head screw
10	M6CN3MM	M6 Cage nut
2	M8 FW	M8 Flat washer
2	M8 x 25	M8 x 25 Hex bolt 8.8

## TOOLS REQUIRED

The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
10mm Spanner 13mm Spanner 16mm Spanner 17mm Spanner 18mm Spanner 19mm Spanner 4mm Allen Key 5mm Allen Key 10mm Socket 13mm Socket 16mm Socket 17mm Socket 18mm Socket Ratcheting Socket Wrench Flat head screw driver or Pry Tool Side Cutters Phillips head screw driver	Air Hacksaw or angle Grinder	Masking tape Tape measure 6 inch Rule Adhesive silicone (with caulking gun) Razor blade( box cutter)

## GENERAL WARNINGS

Take Care not to lose factory hardware, as some will be reused

Take care not to damage parking sensors

If ACC radar is not working as it should, stand side on the vehicle and see which way it's pointing. If pointing up or down adjust screws so it's pointing straight ahead.



1. First step is to remove the lower air damn fascia. To do this climb under your Jeep and remove all 7 quarter turn clips by hand. Two are tucked up high in each corner and 3 in the middle
2. Once they are removed pull the entire lower air damn away from Jeep by hand. You will not be reusing this part

**TOOLS REQUIRED**

None

**FASTENERS**

Discard



3. Remove factory Lower Radiator Cover. 3x M6 bolts on front and 2x M8 bolts on back. Use 10mm socket or spanner for front and 13mm for rear

**TOOLS REQUIRED**

**10mm Socket or Spanner**  
**13mm Socket or Spanner**

**FASTENERS**

Retain for reuse



4. Remove factory tie down and or tow points

**TOOLS REQUIRED**

**Socket set**

**FASTENERS**

Discard fasteners



5. Stack Offroad Animal Tow points together as shown with M10 bolts and M10 flat washers.

**TOOLS REQUIRED**

**FASTENERS**

- M10x80 Hex bolts (4)  
M10 Flat Washers (4)



6. Fit Offroad Animal Tow points as shown on LH and RH side with M10x80 bolts directly into frame of Jeep. Torque down bolts to 70 Nm

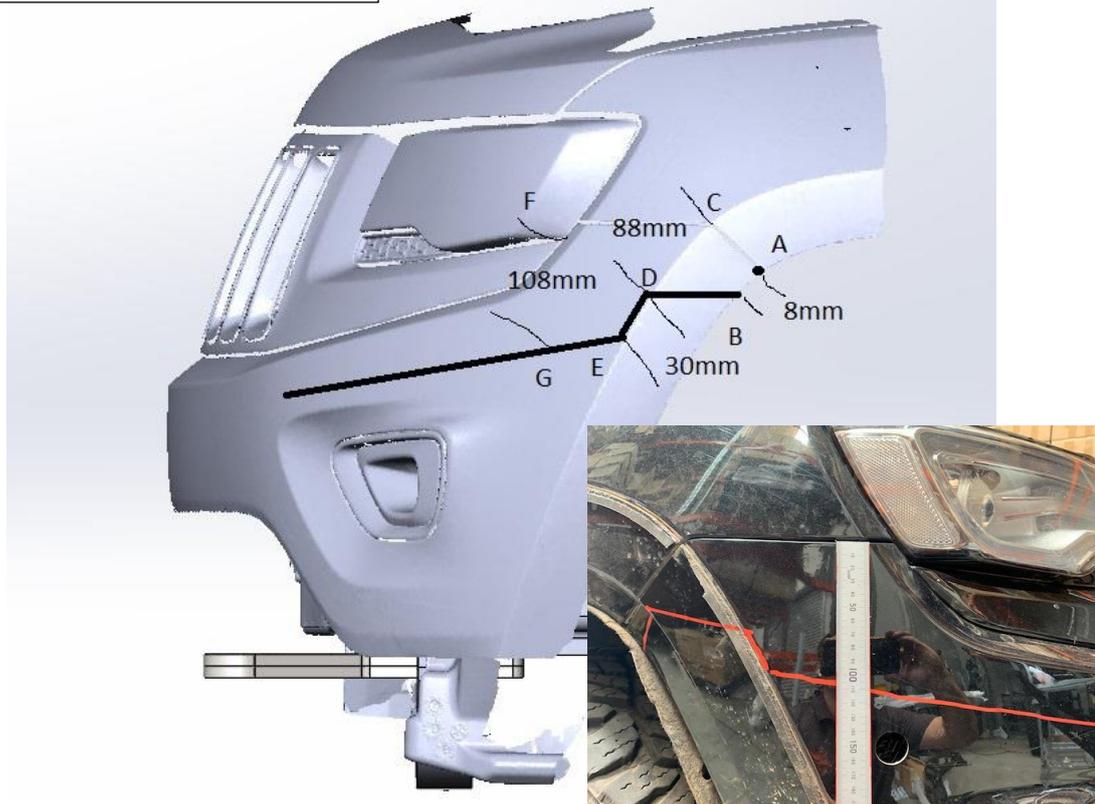
**TOOLS REQUIRED**

**16mm or 17mm Socket or Spanner (depending on supplier of bolts)**

**FASTENERS**

M10 x 80 (4)  
M10 Flat washers (4)

2014-2016 bumper trim guide



- 7. **This step is for marking up the bumper cut on a 2014-2016**
- 8. **Skip to step 23 for 2017-2020, Step 37 for Summit and S models, and skip to step 48 for 2011-2013**
- 9. Start by removing the factory flare.
- 10. Measure down from point A to point B, 8mm, put a mark
- 11. Measure down from point C to point D, 88mm and put a mark here.
- 12. Measure down from point D to point E along the mold line in bumper 30mm
- 13. Measure down from point F to point G 108mm, see real photo above for position.
- 14. Using a Felt Pen or paint pen, Join Points B to D, then D to E, then E to G.

**TOOLS REQUIRED**

**Felt pen or paint pen**

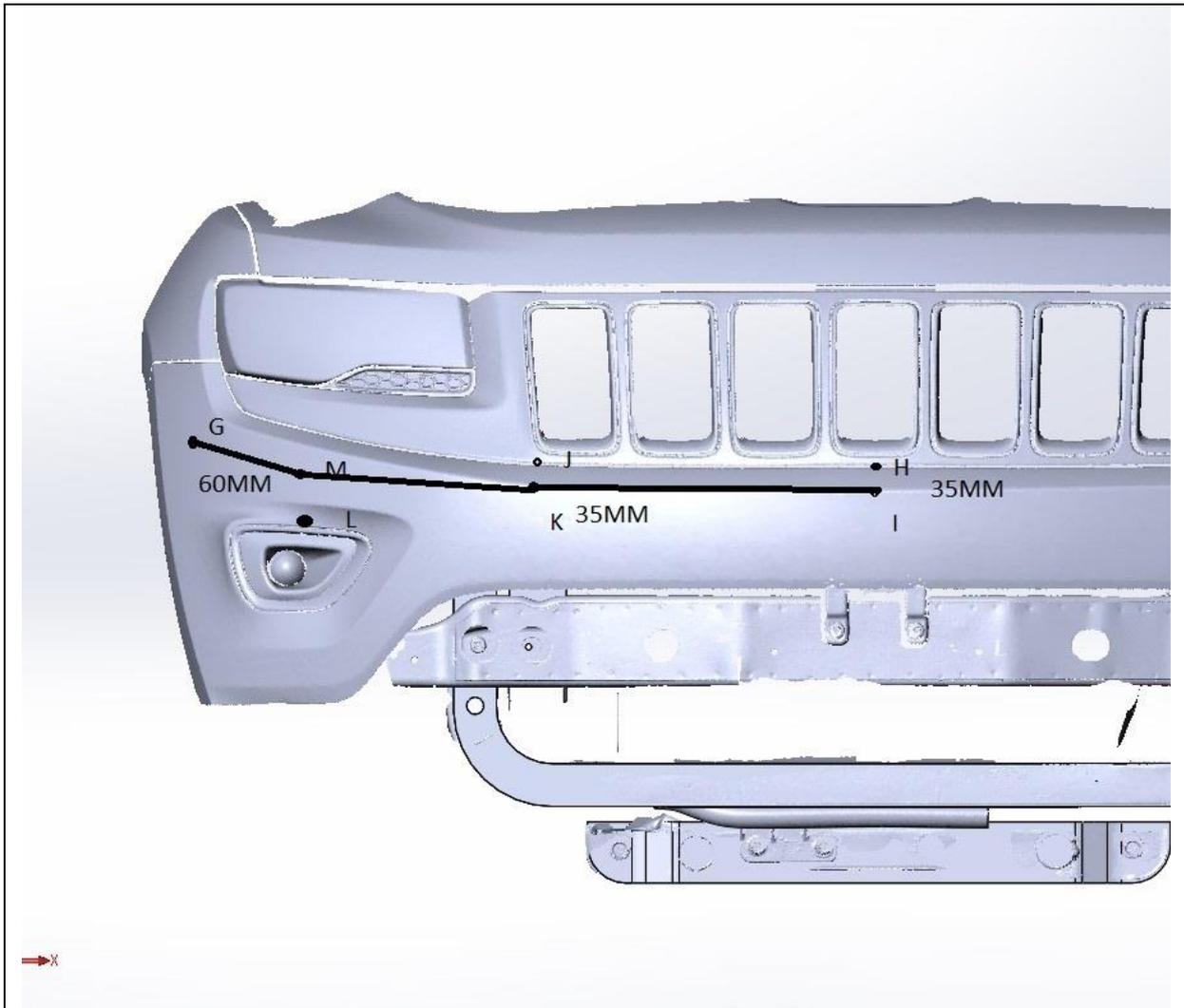
**FASTENERS**



15. This step shows a fully marked side, repeat for other side

**TOOLS REQUIRED**

**FASTENERS**



16. Point H is the join between the grill and the point at which the bumper starts to slope down, and right in the middle of the bumper from left to right. Measure down 35mm on that sloping face and put a mark.
17. Point J is the point at which the bumper and grill meet at the edge of the Grill slot, measure down 35mm and this is point K, put a mark there.
18. Point L is the point where the bumper and fog light housing meet and **left to right directly above the globe of the light not the housing**. Measure up 60mm and this is Point M
19. Mark a line with a felt pen or paint pen, Join Point I to Point K, Point K to point M and Point M to Point G.
20. Repeat for other side.

**TOOLS REQUIRED**

Felt pen or paint pen

**FASTENERS**



21. These photos will better portray how to measure steps 18 and 19

**TOOLS REQUIRED**

Felt pen or paint pen

**FASTENERS**

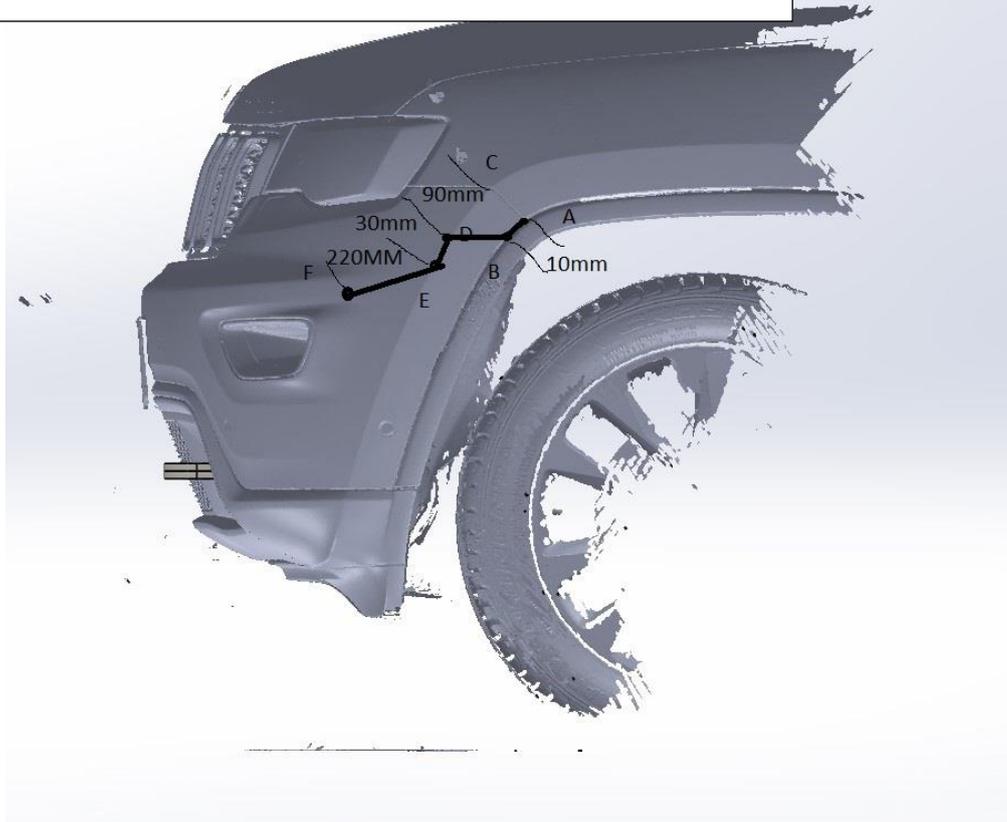


22. Use masking tape to mark out the cut lines. Put the masking tape above the cut lines to protect the portion of the bumper that will stay.

**TOOLS REQUIRED**

**FASTENERS**

2017-2021 bumper trim guide, non Summit or S model



- 23. The following steps are for cutting a bumper MY17-MY21**
24. Remove factory flare
  25. Measure down from point A 10mm to point B and mark this point.
  26. Measure down from point C 90mm along the mold line and this is point D (mark this point)
  27. Follow the mold line a further 30mm down to point E and mark this point.
  28. Point F is right at the edge of the impression for the fog light indent in the bumper roughly 220mm from point E
  29. Draw a line with a felt pen or paint pen B to D, then D to E, then E to F.
  30. Repeat for the other side.

**TOOLS REQUIRED**

Felt pen or paint pen

**FASTENERS**



31. Point G is the centre of the bumper from left to right and the top most mold line
32. Measure down 55mm and mark point H.
33. Point I is the edge of the grill on the top mold line, measure down 55mm and mark point J
34. Draw a line from point H to J, then J to F from the previous step.
35. Repeat for the other side

**TOOLS REQUIRED**

Felt pen or paint pen

**FASTENERS**



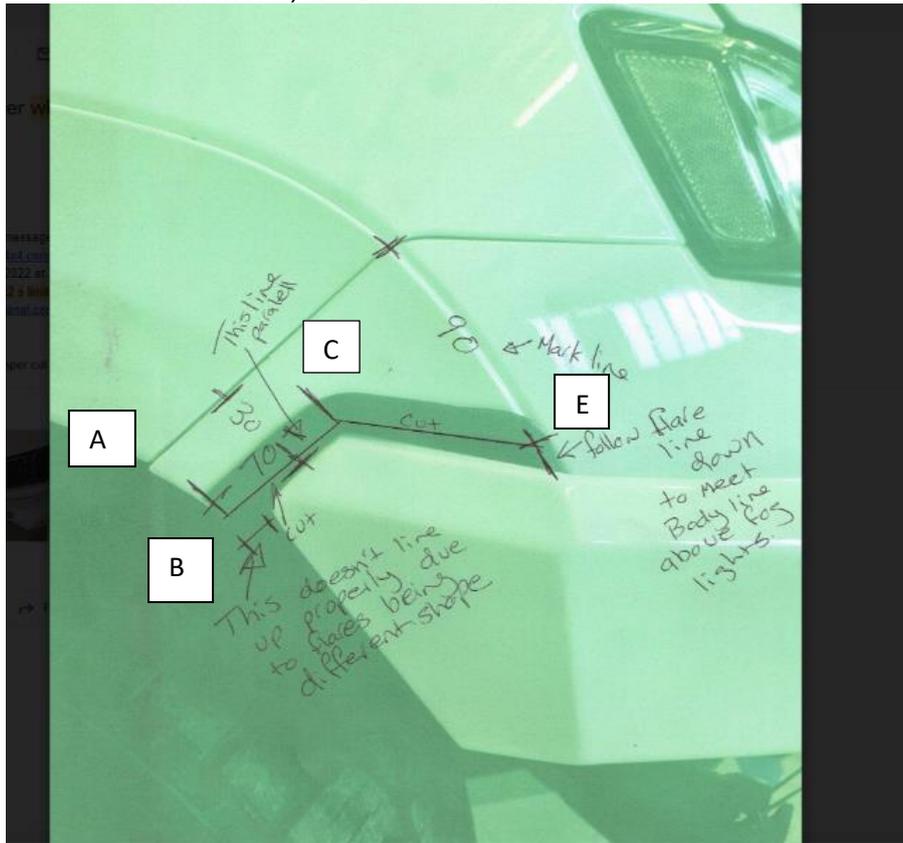
36. Use masking tape above the cut line to protect the bumper section you're going to keep

**TOOLS REQUIRED**

Masking tape

**FASTENERS**

Summit model, and Limited S and Overland S models



- 37. Point A is corner of bumper and flare, mark down the flare 30mm to point B
- 38. Point C is 70mm up from point B parallel to the bumper line
- 39. Point E is 90mm down the mold line
- 40. Point F is the join of the side mold line and the one that runs across the front of the vehicle, SEE NEXT PAGE
- 41. Mark from Point B to C, then C to E, then E to F.
- 42. The cut will be along this line so use making tape above this line to protect the portion of the bumper that is staying.

**TOOLS REQUIRED**

Masking tape

**FASTENERS**

Summit model, and Limited S and Overland S models

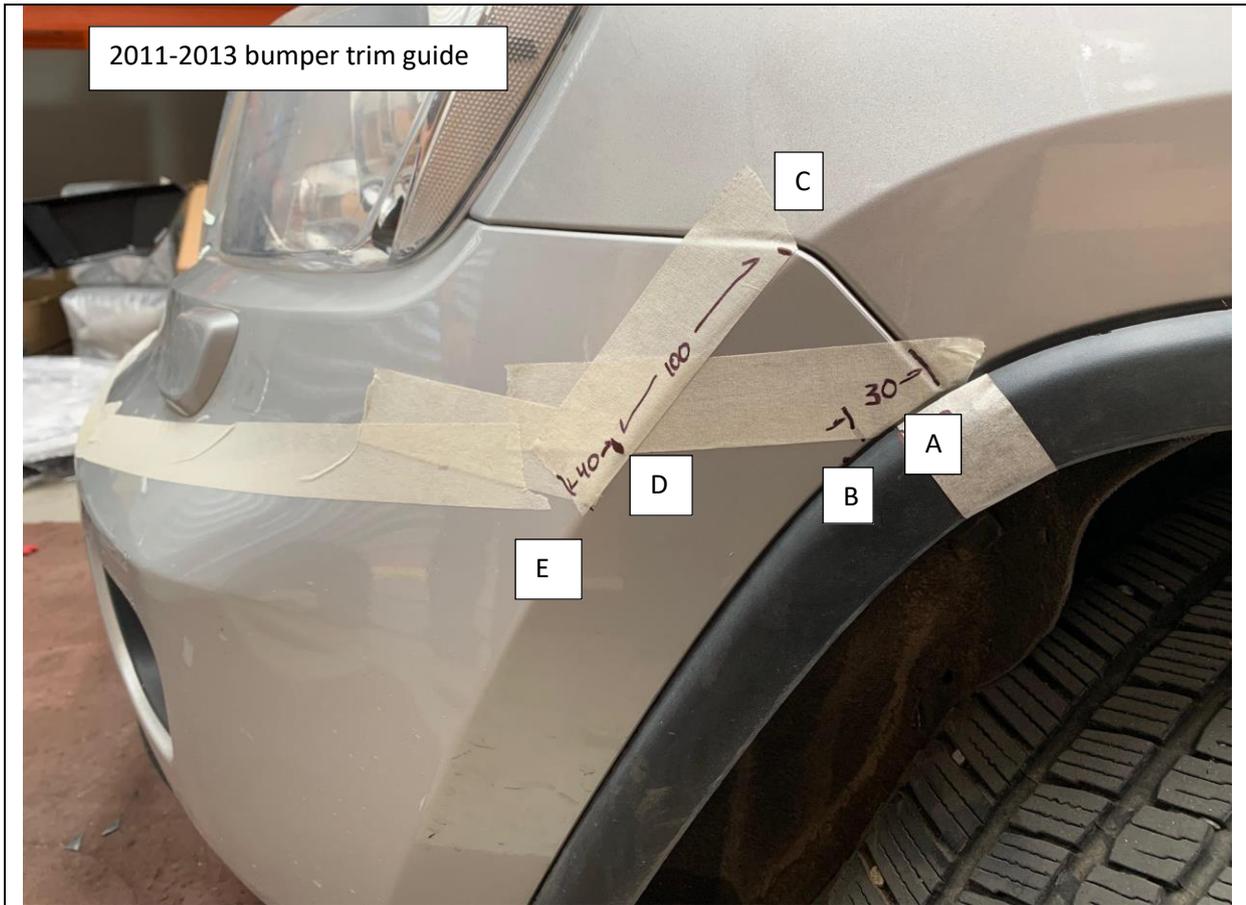


- 43. Point G is the centre of the bumper from left to right and the top most mold line
- 44. Measure down 55mm and mark point H.
- 45. Point I is the edge of the grill on the top mold line, measure down 55mm and mark point J
- 46. Draw a line from point H to J, then J to F from the previous step.
- 47. Repeat for the other side.

**TOOLS REQUIRED**

Masking tape

**FASTENERS**

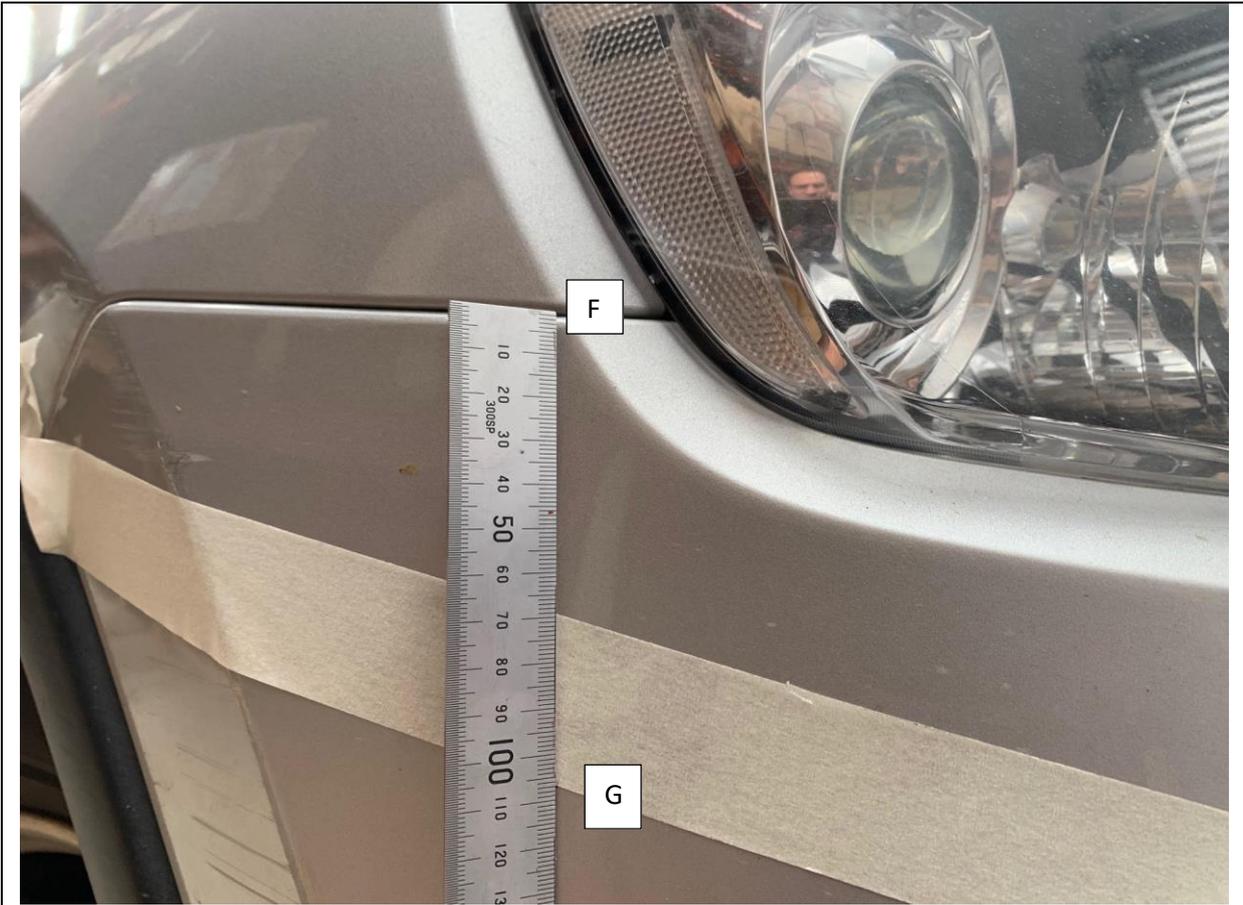


48. Follow these steps 39-49 for the bumper cut for a 2011-2013.
49. Point A is the edge of the bumper where it meets the flare. Start here and measure down along the flare 30mm to Point B
50. Point D is 100mm down the mold line measured from point C
51. Point E is 40mm Down the mold line measured from point D
52. Using masking tape to cover the top side (what you'll keep) of the bumper

**TOOLS REQUIRED**

Masking tape

**FASTENERS**



53. Point G is 105mm directly down from point F, just mark with a pen for now

**TOOLS REQUIRED**

Masking tape

**FASTENERS**



- 54. Point H is the corner of the fog light mold recess.
- 55. Point I is the point along the mold line directly above point H
- 56. Using masking tape, tape the mold line from the middle of the car out and pass through point I and then through point G to point E in the previous steps
- 57. Using an air hacksaw or grinder trim the bumper. It's easiest to do this with the bumper removed. Cut B-D-E-G-I then to the middle. Cut below the tape line.

**TOOLS REQUIRED**

Masking tape

**FASTENERS**



58. With the bumper back on, and the mounts installed, mark a point directly above the flat face of the mount then 45mm toward the centre of the car. Then 40mm up towards the car. Shade this area and cut it out

**TOOLS REQUIRED**

Masking tape

**FASTENERS**



59. You will also need to trim the plastic reinforcement underneath it.

**TOOLS REQUIRED**

Masking tape

**FASTENERS**



60. Next step is to remove the rest of the front bumper. Start with bonnet/hood open and pry out two clips shown with trim tool or flat head screw driver

**TOOLS REQUIRED**

**Trim tool or flat head screw driver**

**FASTENERS**

Retain factory clips



- 61. At the wheel arch on both sides you will need to pry out 2 plastic rivets. You can also drill out the centre of the rivet if you're struggling to pry it out.
- 62. Remove screw shown with 10mm socket or spanner

**TOOLS REQUIRED**  
Trim tool, or flat head screw driver  
10mm socket or spanner

**FASTENERS**  
Discard plastic rivets



63. Pull factory flare away from bumper, using a flat head screw driver release at least 2 of the push in clips on top edge being careful not to break them as you pull the flare away from the body

**TOOLS REQUIRED**

**Flat head screwdriver**

**FASTENERS**



64. Pull the edge of the bumper away from the body

**TOOLS REQUIRED**

**FASTENERS**



65. Lifting the top section ever so slightly you can release clips holding in the top section and pull the remainder of the bumper away

**TOOLS REQUIRED**

**FASTENERS**

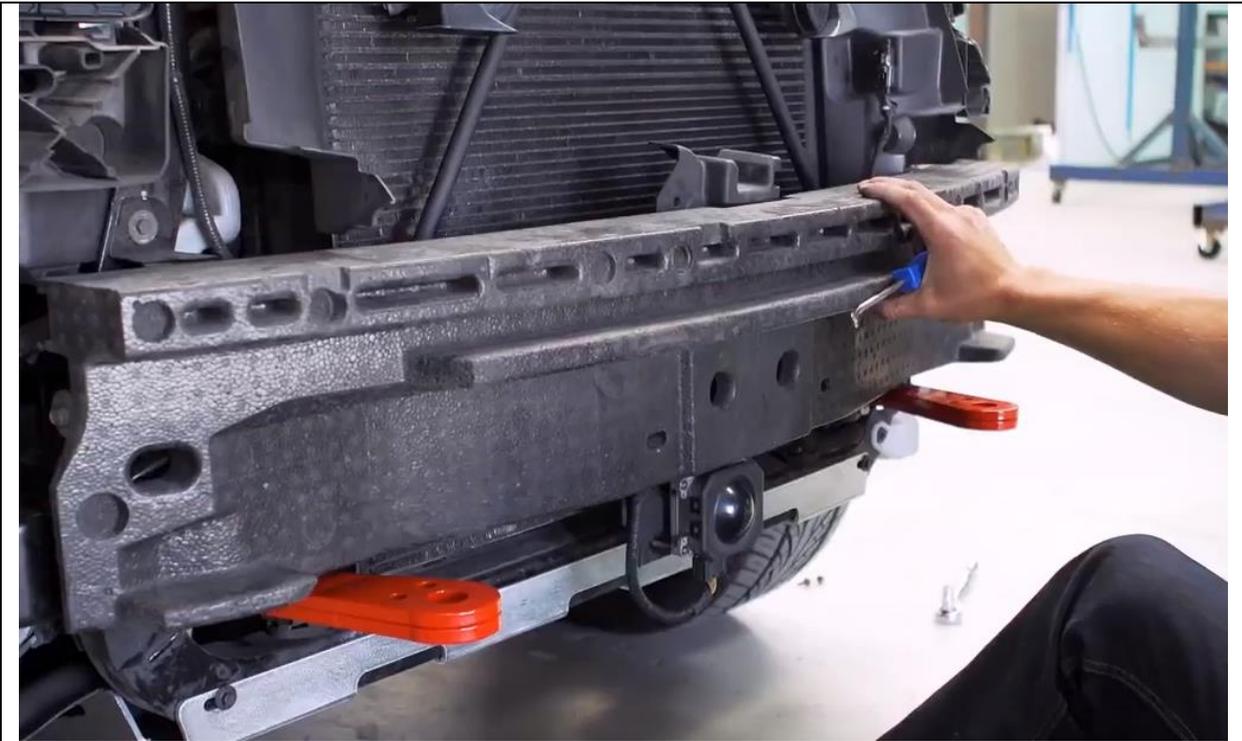


66. Pull out 2 plastic Christmas tree clips holding foam in

**TOOLS REQUIRED**

Trim tool, or flat head screw driver

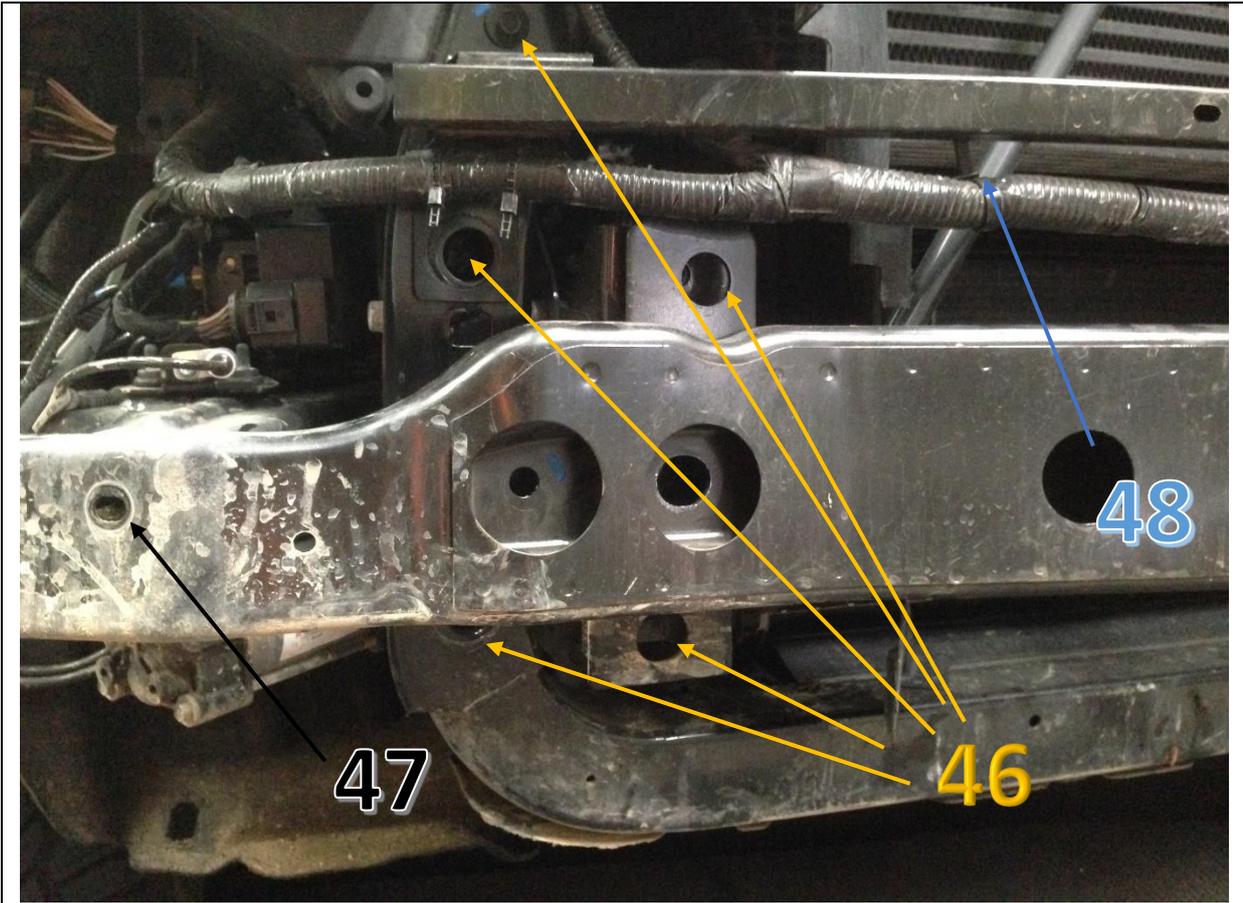
**FASTENERS**



67. Pull foam insert off

**TOOLS REQUIRED**

**FASTENERS**



- 68. Remove bumper reinforcement by removing 8 x M8 bolts (4 per side with 13mm tool) and 2 x M6 bolts with 10mm tool
- 69. If equipped with air suspension remove 2 flange nuts holding compressor onto bumper reinforcement
- 70. Using trim tool or similar remove all loom securing keepers holding wiring onto bumper reinforcement

**TOOLS REQUIRED**  
**10mm spanner or socket**  
**13mm spanner or socket**  
**Trim tool or flat head screw driver**

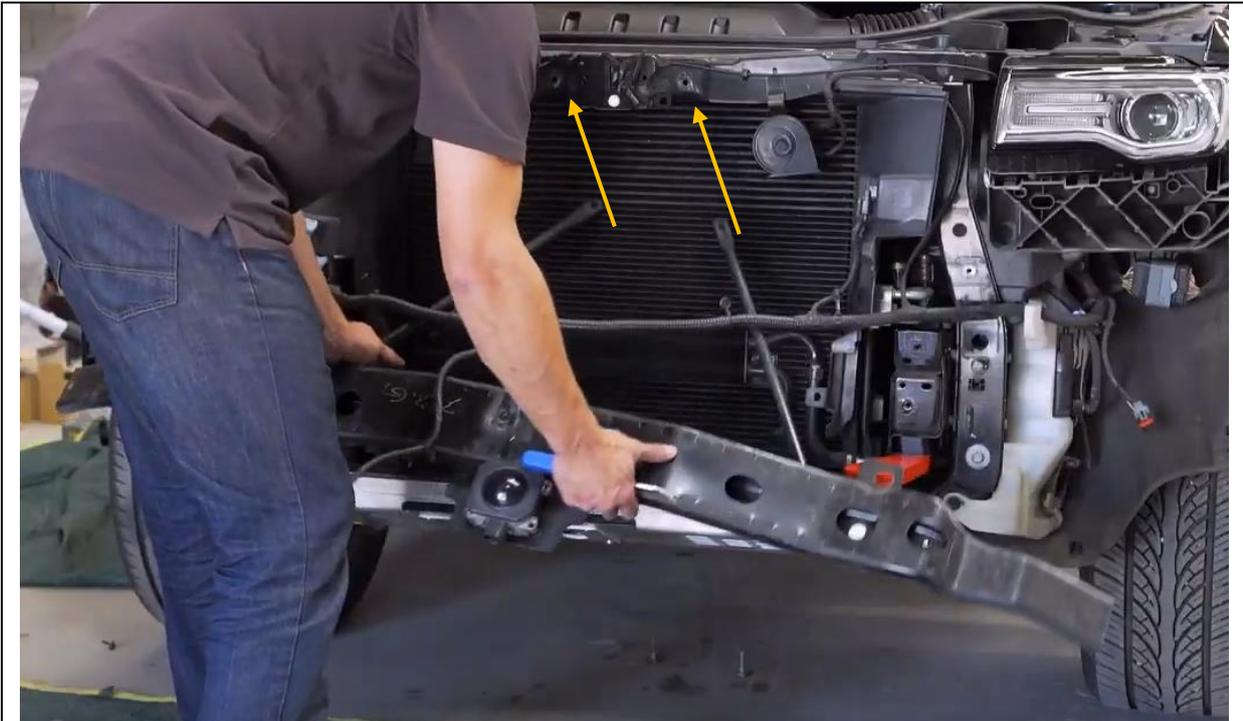
**FASTENERS**  
 Retain all fasteners, some will be reused



71. If Adaptive cruise control is fitted, unplug loom and pull sensor off posts

**TOOLS REQUIRED**

**FASTENERS**



72. Remove 2x screws with 13mm tool holding round support bars from top of bonnet support then remove entire reinforcement bar.

**TOOLS REQUIRED**

**13mm socket or spanner**

**FASTENERS**

Retain for reuse

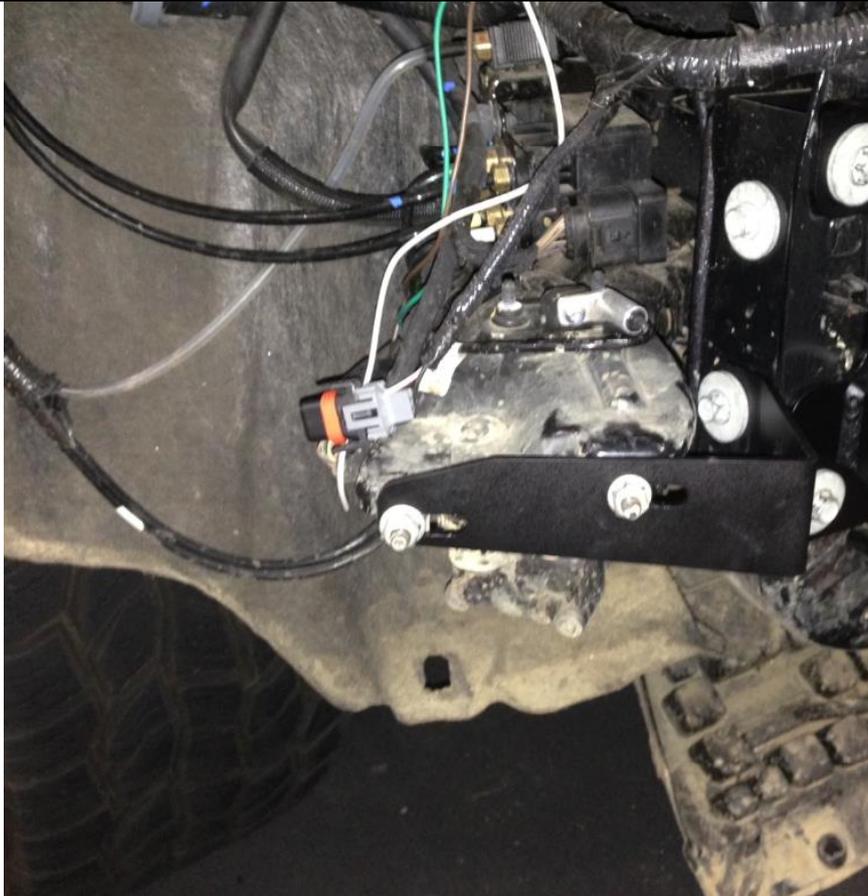


73. Cut tab off shown in picture from both sides, you can bend it back and forth a few times and remove by hand

**TOOLS REQUIRED**

Angle grinder or air hacksaw  
or sawzall

**FASTENERS**



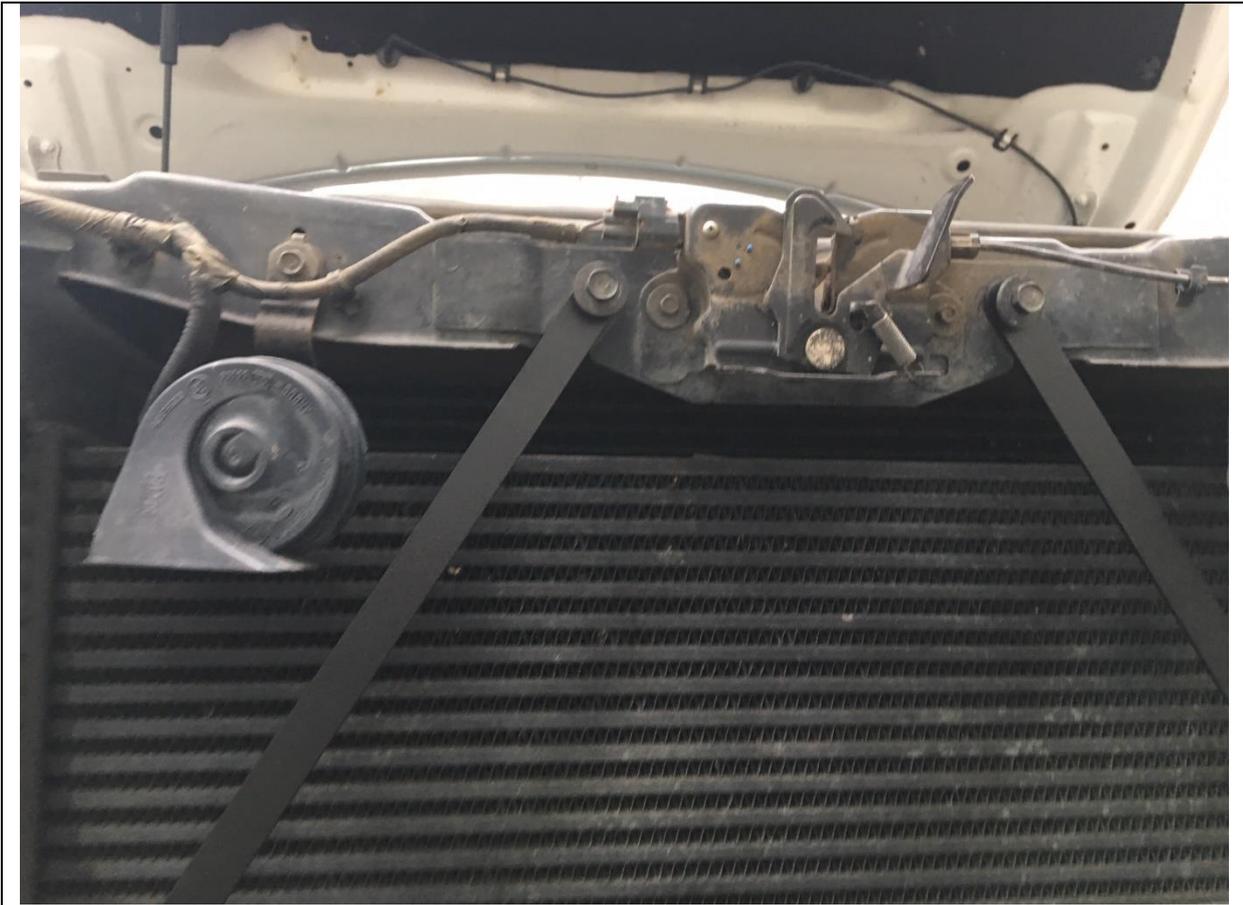
- 74. If vehicle is fitted with Air Suspension, fit Air suspension bracket as shown.
- 75. If no air suspension fitted you can discard this bracket or send it back to Offroad Animal and we'll send you a hat

**TOOLS REQUIRED**

- 15mm spanner or socket**
- 13mm spanner or socket**

**FASTENERS**

**Reuse Factory hardware**



76. Fit radiator braces as shown with factory bolts

**TOOLS REQUIRED**

**15mm spanner or socket**  
**13mm spanner or socket**

**FASTENERS**

**Reuse Factory hardware**



77. If factory parking sensors are present on the vehicle you'll need to remove the sensor from each housing and pry the housing off the bumper with a trim tool or flat head screw driver

**TOOLS REQUIRED**  
Pry tool or flat head screw driver

**FASTENERS**



78. Clean the front face of the sensor mount and when dry apply a healthy amount of adhesive silicone to the front face of each sensor mount

**TOOLS REQUIRED**  
Adhesive Silicone

**FASTENERS**



- 79. Press the sensor housing on the inside of the bull bar (ensure clean face on bull bar as well)
- 80. Orientate housing so sensor will still be able to fit in with wires hanging out the side
- 81. Repeat for other 5 sensors

**TOOLS REQUIRED**

Adhesive Silicone

**FASTENERS**



- 82. Using an angle grinder, air hacksaw or jigsaw, trim the bumper
- 83. Refit bumper to car

**TOOLS REQUIRED**

**Air hacksaw, jigsaw or angle grinder**

**FASTENERS**



84. Fit cage nuts to the bar as shown. You can often just push them in by hand, otherwise use a flat head screwdriver. You may need to use the screwdriver to open the legs of each nut from underneath

**TOOLS REQUIRED**

Flat head screw driver

**FASTENERS**

M6 Cage nuts (10)



85. After at least an hour push the sensors into their housings. Make sure the housings are set, if the weather is cold you may need to wait longer.

**TOOLS REQUIRED**

**FASTENERS**



86. If fitting a light bar to the bull bar, do so now with provided hardware.

**TOOLS REQUIRED**

**5mm Allen key**

**FASTENERS**



87. Fit a small section of pinch weld as shown

**TOOLS REQUIRED**

**FASTENERS**



- 88. Install the chassis brackets as shown with existing hardware
- 89. Repeat for either side
- 90. Measure between mounts and ensure you have about 2-5mm wider distance than corresponding mounts on the bull bar.
- 91. Torque bolts to 30 Nm

**TOOLS REQUIRED**

**13mm socket**

**FASTENERS**



92. With the help of a friend or lifting table (guess which one is easier, no it's not with your friend) lift the bar on top the mounts and hold up with M12x 30 hex bolts, flat washers and nuts

**TOOLS REQUIRED**

**FASTENERS**

- M12 x 30 (2)
- M12 FW LHD (2)
- M12 FN (2)



93. Fit the rest of the M12 x 30 bolts, flat washers and Nyloc nuts, leave loose for now.

**TOOLS REQUIRED**

**FASTENERS**  
M12 x 30 (4)  
M12 FW LHD (4)  
M12 NY (4)



- 94. Push the bar up to the cut edge and as far back as it will go and still clear the bumper.
- 95. If you want you can put more pinch weld on the edge of the bar but we don't think it's required.
- 96. Mark the flare in line with the bar
- 97. Trim flare

**TOOLS REQUIRED**

Felt pen or paint pen  
Angle grinder

**FASTENERS**



- 98. Once the bar is in position, fit the lower gussets as shown through the bar with M12 x 30 and through tow points with M10x50 hex bolts, washers and flange nuts
- 99. Torque all M12 bolts too 100 Nm and M10 to 60 Nm
- 100. Fit bottom of radiator brace to inside of mounts with M6 hardware

**TOOLS REQUIRED**  
**10mm spanner or socket**

**FASTENERS**  
M12 x 30 (2)  
M12 FW LHD (2)  
M12 NY (2)  
M10 x 50 (4)  
M10 FW (4)  
M10 FN (4)  
M6 x 20 (2)  
M6 FW (2)  
M6 FN (2)



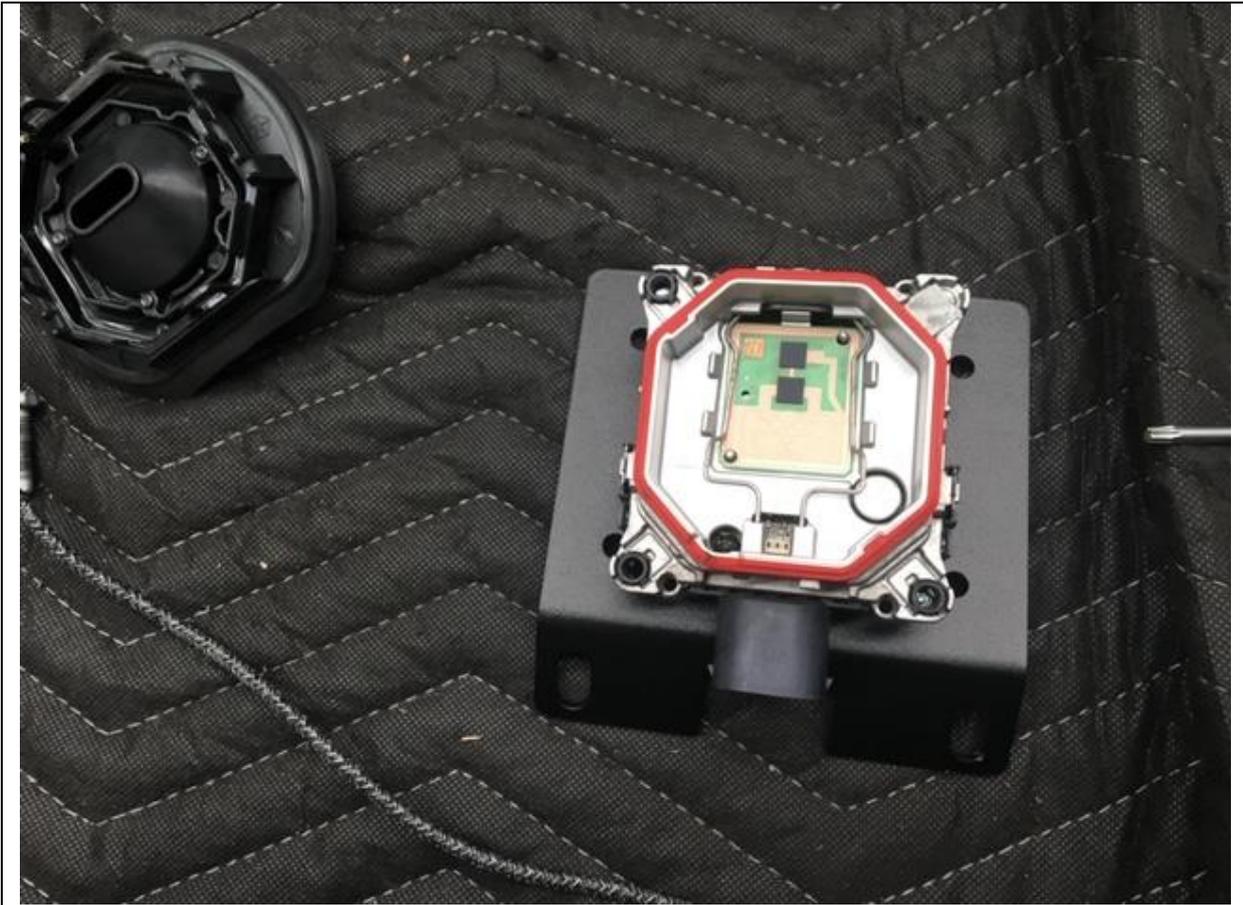
101. Fit Radar to ACC bracket as shown MY 14-MY16 with supplied M5 screws.

**TOOLS REQUIRED**

Phillips head screw driver  
Trox bits

**FASTENERS**

M5x30 Pan (4)



102. If My17+ model you'll need to remove the front face of the radar to get to the fasteners, and fit to ACC bracket

**TOOLS REQUIRED**

Phillips head screw driver  
Trox bits

**FASTENERS**

M5x30 Pan (4)



- 103. If fitting a winch to the bar, fit fair lead to centre mesh panel now
- 104. Fit number plate flip and number plate as well

**TOOLS REQUIRED**

Depends on fasteners supplied with fairlead  
10mm spanner

**FASTENERS**

M6 x 20 (2)  
M6 FW (2)  
M6 FN (2)



- 105. If fitting winch, do so now by angling it into the front of the bar as shown.
- 106. Secure with hardware supplied with winch
- 107. Ensure you can reach control box with hand lead
- 108. If you get a winch that doesn't allow the control box to mount on the top of it, or has the opening facing up you'll need to relocate the control box to the side of the winch.

**TOOLS REQUIRED**

16mm socket

**FASTENERS**

Supplied with winch



109. Fit ACC mount with Radar to centre mesh panel with M6 hardware

**TOOLS REQUIRED**

4mm Allen Key

**FASTENERS**

M6 x 16 BHCS BZ (4)  
M6 FW BZ (4)  
M6 FN (4)



- 110. Fit centre mesh panel to bar as shown. Use M8 hex nuts on bottom and button head cap screws on the top.
- 111. Now is the time to align the radar. Standing side on and front on ensure the radar is facing directly forward. You can adjust the mounting screws to achieve this.

**Special Note: Offroad Animal will not be held responsible for poorly aligned radars. They work as long as they are facing forward, not left or right, or up or down.**

**TOOLS REQUIRED**

- 13mm Socket
- 5mm Allen Key

**FASTENERS**

- M8x 16 BHCS BZ (2)
- M8 FW BZ (2)
- M8 FN (4)
- M8x25 (2)
- M8 FW (2)



- 112. Fit middle side mesh as shown with M8 x 16 BHCS and washer. Note the side flange of the mesh panel goes behind the inner lip of the bull bar. Leave the 2 bottom bolts empty for now
- 113. Repeat for other side

**TOOLS REQUIRED**  
**5mm Allen Key**

**FASTENERS**



- 114. Your factory fog lights do not fit, sorry. But you can fit driving lights in the wings which is much better. 2 cube lights per or one 6-8" single row LED light bar. See above showing a single row 8" Offroad Animal light. Or you can leave this area blank
- 115. Repeat for other side

**TOOLS REQUIRED**

**FASTENERS**



- 116. Fit mesh panel to bar from behind with M6 hardware
- 117. Repeat for other side

**TOOLS REQUIRED**

4mm Allen Key

**FASTENERS**

M6 x 16 BHCS BZ (8)  
M6 FW BZ (8)  
M6 FN (8)



118. Fit bash plate as shown with M8 hardware through bash plate, mesh panel and into winch cradle.

**TOOLS REQUIRED**

**5mm Allen Key**

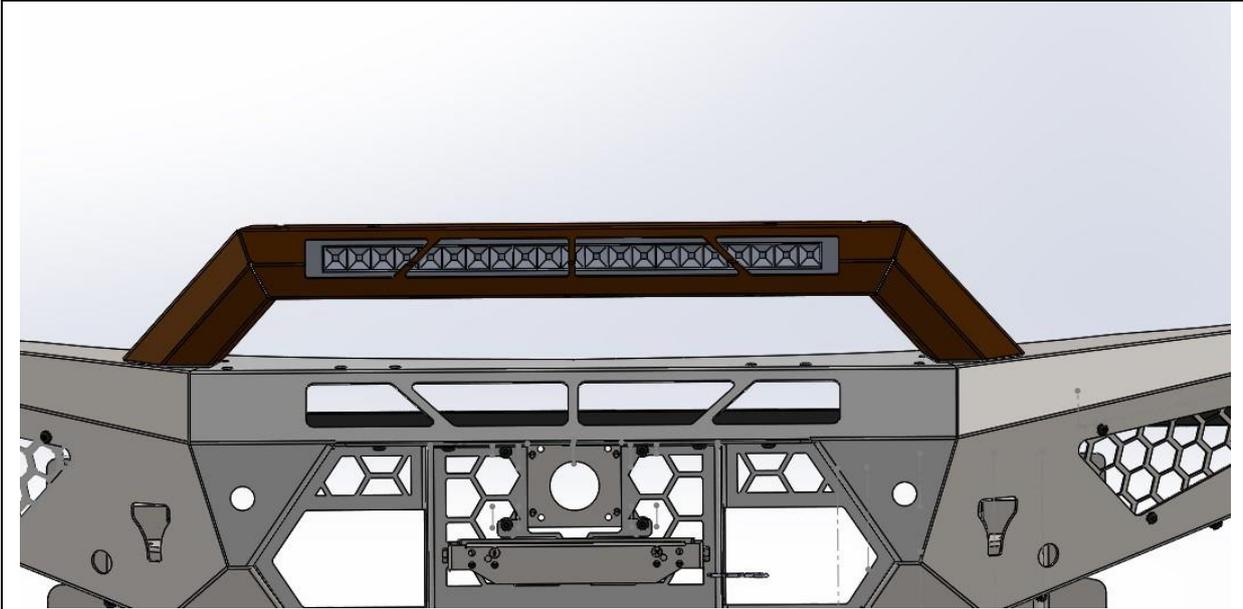
**FASTENERS**  
**M8 x 30 BHCS BZ (4)**  
**M8 FW BZ (4)**  
**M8 FN (4)**



119. If fitting optional stealth hoop and light, fit light to hoop as shown.

**TOOLS REQUIRED**

**FASTENERS**



120. Fit hoop to top of bar and secure with Supplied M10 hardware from hoop box

**TOOLS REQUIRED**

**FASTENERS**



121. Fit lower factory M6 bolts through bash plate into cross member. Do not over-torque these

**TOOLS REQUIRED**  
10mm spanner or socket

**FASTENERS**  
Factory bolts



122. Fit under panels as shown with M6 along top edge and M8x 30 bolts. Trim Felt wheel well liner with razor blade so it tucks neatly behind the under panel which will hold it in place.

**TOOLS REQUIRED**

**4mm Allan Key**  
**13mm spanner**  
**Razor blade**

**FASTENERS**

**M6x16 BHCS BZ (10)**  
**M6 FW BZ (10)**  
**M8 x 30 hex (2)**  
**M8 FW (2)**  
**M8 FN (2)**



<p>123. Fit the logo plate (you bloody better do it or we'll find out and hunt you)</p> <p>124. Fit compliance plate under bash plate so you can show coppers if they want to see it.</p> <p>125. You're done unless you need to wire lights in, then you should have been doing that already.</p> <p>Enjoy</p>	<p><b>TOOLS REQUIRED</b></p>
	<p><b>FASTENERS</b></p>