



Jeep Grand Cherokee WK2

MY2014-2016

Pre Runner/ Steel front bumper

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 colour, for best legibility.
- Estimated install time: 2 hours

GENERAL CARE AND MAINTENANCE

Only wash the product with a PH neutral car wash to prevent paint damage and discolouration.

Plastic parts may be maintained with silicone spray.

Do not use acidic or alkaline based cleaning products.

It is important to perform regular checks (pre trip or on an annual basis) on the installed product. Checks include:

- Visual inspection for damage (eg. cracks, chips, dents etc.)
- Electrical wiring is not rubbing anything or worn out
- Bolts are torqued to correct specification (see torque guide below)

For touching up small stone chips, Offroad Animal recommends the following paint products:

- Dupli-Color Trim & Bumper Paint Black (TB101)
- VHT Hood, Bumper & Trim Paint Black (SP27)

BOLT TORQUE SETTINGS

Use the following bolt torques on all general fasteners, unless otherwise specified.

GENERAL FASTENERS	
Size	Torque Nm
M5	5 Nm
M6	9 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm

Use the following bolt torques on all structural front bar mount and tow point fasteners, and rear towbar fasteners, unless otherwise specified.

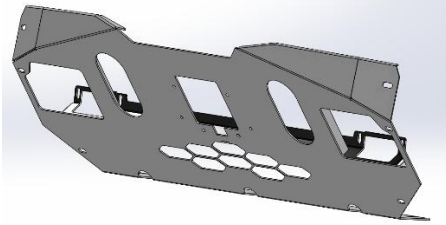

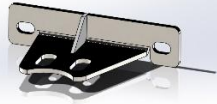
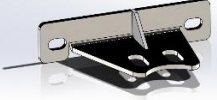
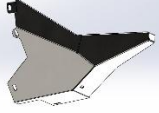
FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	Torque Nm
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm

Always use a torque wrench to set correct torque settings. Ensure torque wrench is set to Nm unit of measurement. Otherwise perform conversion to lb-ft.

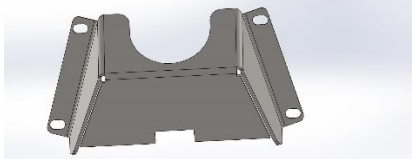
PARTS LISTING

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	PR-JGC-WK2-14-ASM1	Main Plate Pre-runner wk2	
1	RP-JGC-WK2-11-ASM0	Recovery Points Wk2 (some customers may already have these)	
1	PR-JGC-WK2-14-ASM4L	Pre-Runner Upper Mount LH	
1	PR-JGC-WK2-14-ASM4R	Pre-Runner Upper Mount RH	
1	B-0024L	Wk2 Pre-Runner wing LH	

1	B-0024R	Wk2 Pre-Runner wing RH	
1	P-0021	Acc Cover	
1	B-0118L	Pre-Runner wing support LH	
1	B-0118R	Pre-Runner Wing support RH	
2	P-0050	Lower Wing Support 2	
1	B-0087	Air Suspension Bracket	
1	Optional extra ACC mount part B-0062	Acc mount wk2	

1	Optional extra ACC mount part B-0063	Acc cover	
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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
10	M8 x 30 BHCS BZ	M8 x 30 Button Head Cap Screw, Black Zinc
14	M8 FN	M8 Flange Nut
4	M8 x 30 Hex	M8 x 30 Hex Bolt Zinc plate
4	M8 FW	M8 Flat washer, Zinc Plate
4	M6x16 BHCS BZ	M6 x 16 Button Head Cap Screw, Black Zinc
4	M6 FW BZ	M6 Flat washer, Black Zinc
4	M6 FN	M6 Flange Nut
4	M10 FN	M10 Flange Nut
4	M10 FW	M10 Flat Washer
4	M10 x 45	M10 x 45 Hex Bolt, Zinc Plate
1	OFA-LOGO	OFFROAD ANIMAL METAL LOGO
1	Pinch Weld 2M	Pinch Weld Black 14mm x 9mm x 2M
4	M5 x 30 pan	M5 x 30 Pan head screw zinc Optional extra part
2	M8 x 30	M8 x 30 Hex zinc Optional extra part
2	M8 FW	M8 Flat washer Optional extra part
2	M8 FN	M8 Flange nut Optional extra part

TOOLS REQUIRED

The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
10mm Spanner 13mm Spanner 16mm Spanner 4mm Allen Key 5mm Allen Key 10mm Socket 13mm Socket 16mm Socket Ratcheting Socket Wrench Flat head screw driver or Pry Tool Side Cutters Phillips head screw driver	None	None

GENERAL WARNINGS


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

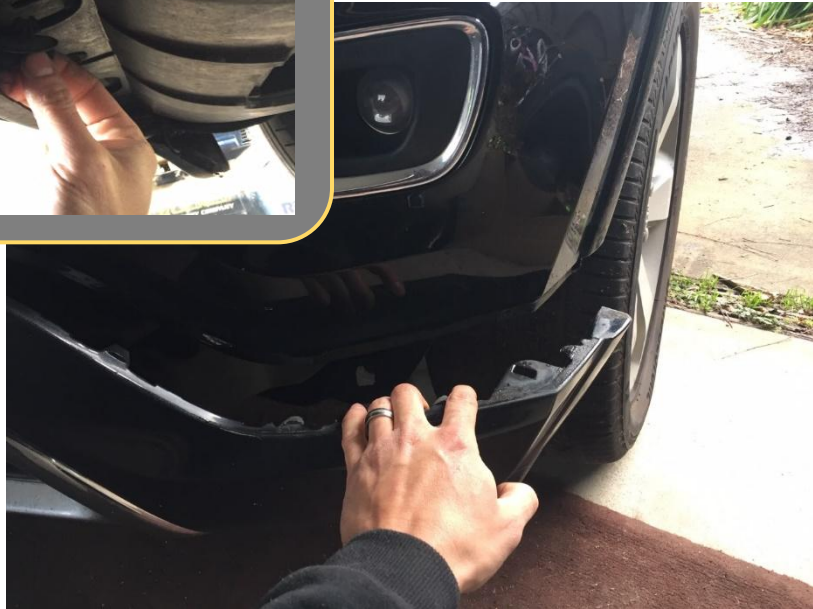
Take care not to damage parking sensors

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.

WORKSHOP SAFETY

It is the responsibility of the installer to always complete works in a safe manner. Make sure the following safety equipment is available and precautions are observed whilst fitting this product.

<p>Hearing Protection</p> 	<p>Always wear ear protection when using power tools.</p>
<p>Eye Protection</p> 	<p>Ensure eye protection is always worn when cutting or drilling.</p>
<p>Manual Handling</p> 	<p>Do not attempt to lift bar assemblies or rock sliders on your own.</p> <p>Always use two people to lift or use mechanical Lifting aid such as hydraulic lifting trolley.</p>
<p>Vehicle Support</p> 	<p>Always ensure vehicle is properly supported when working on it. Do not attempt to fit products whilst suspension work is being carried out. Do not work under a vehicle supported only by a jack.</p>



1. First step is to remove the lower air dam fascia. To do this climb under your Jeep and remove all 5 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 dam away from Jeep by hand. You will not be reusing this part.

TOOLS REQUIRED

None

FASTENERSRetain only if you wish to refit
later



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

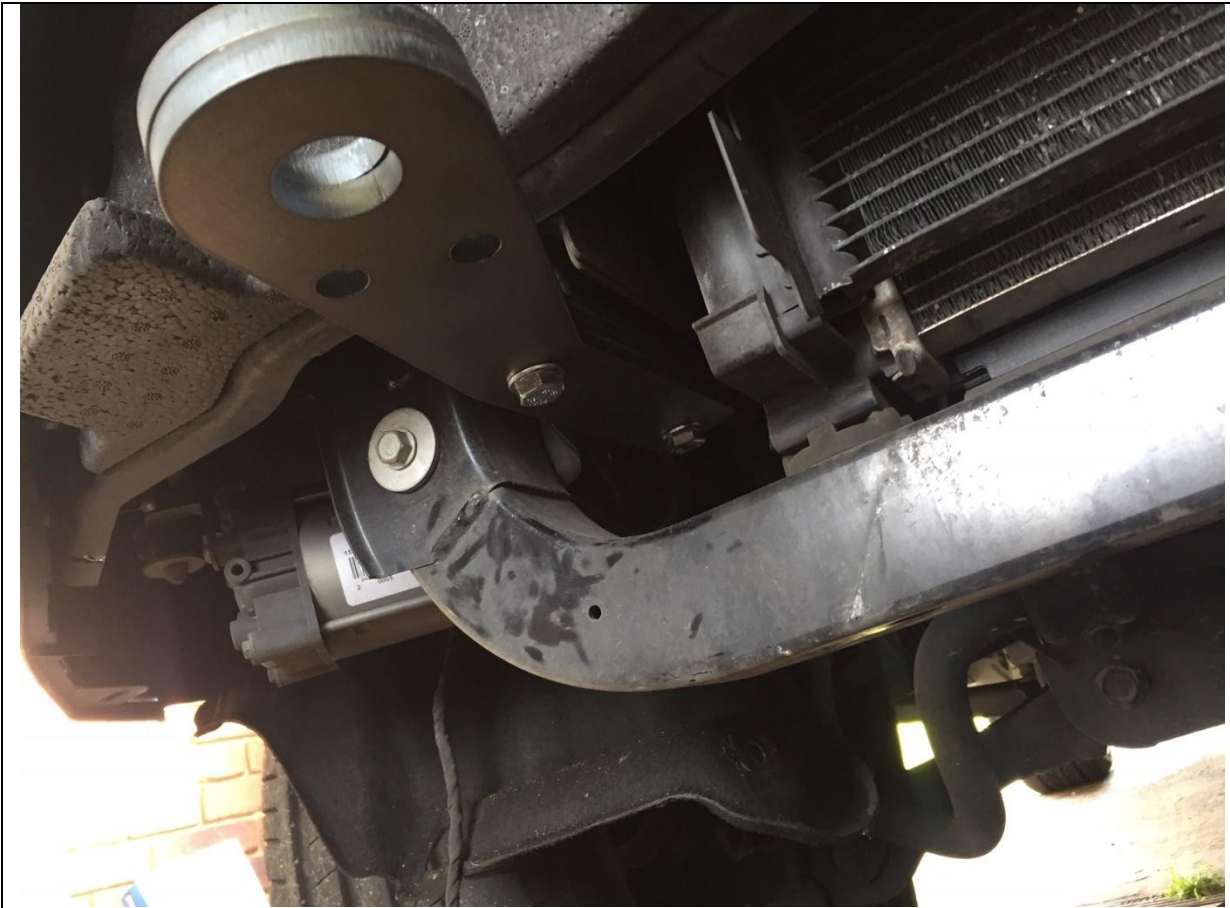
Discard fasteners



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

TOOLS REQUIRED

16mm Socket or Spanner

FASTENERS

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



7. 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



8. 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.
9. Remove screw shown with 10mm socket or spanner.

TOOLS REQUIRED

Trim tool
Or
Flat head screwdriver

10mm socket or spanner

FASTENERS

Discard plastic rivets



10. Pull factory flare away from bumper, using a flat head screwdriver 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



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

TOOLS REQUIRED

FASTENERS



12. 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**

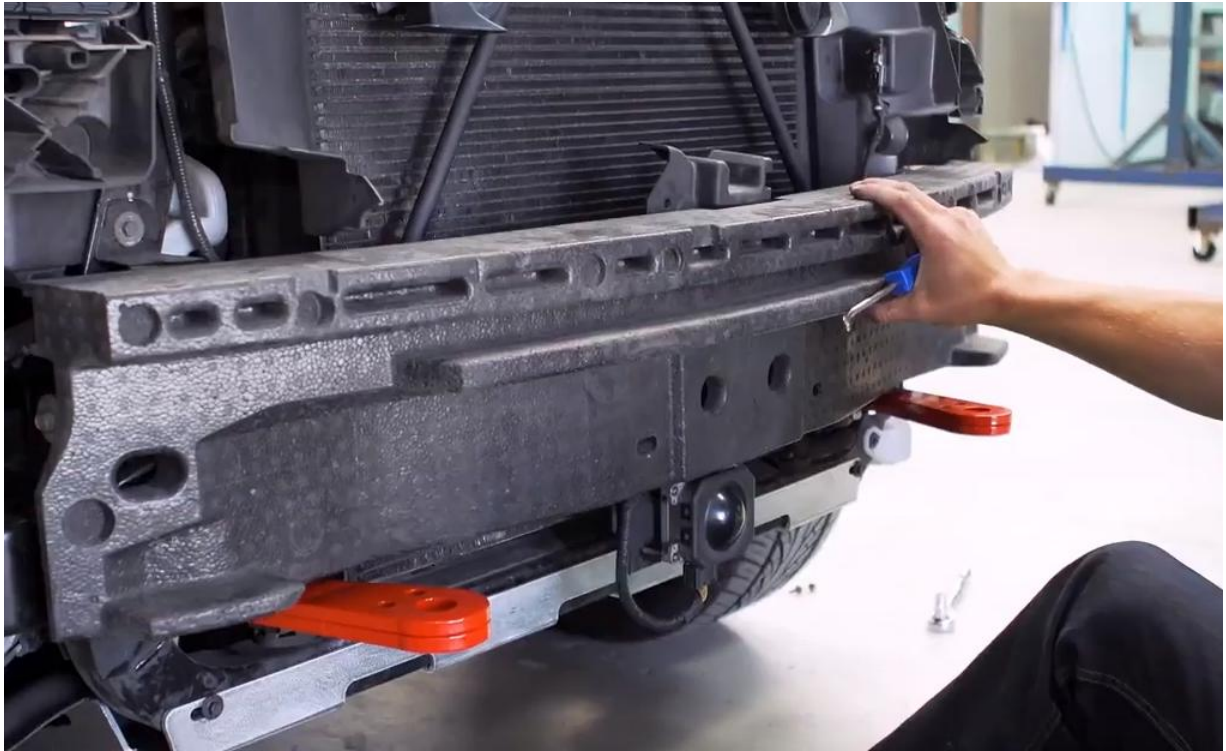


13. Pull out 2 plastic Christmas tree clips holding foam in

TOOLS REQUIRED

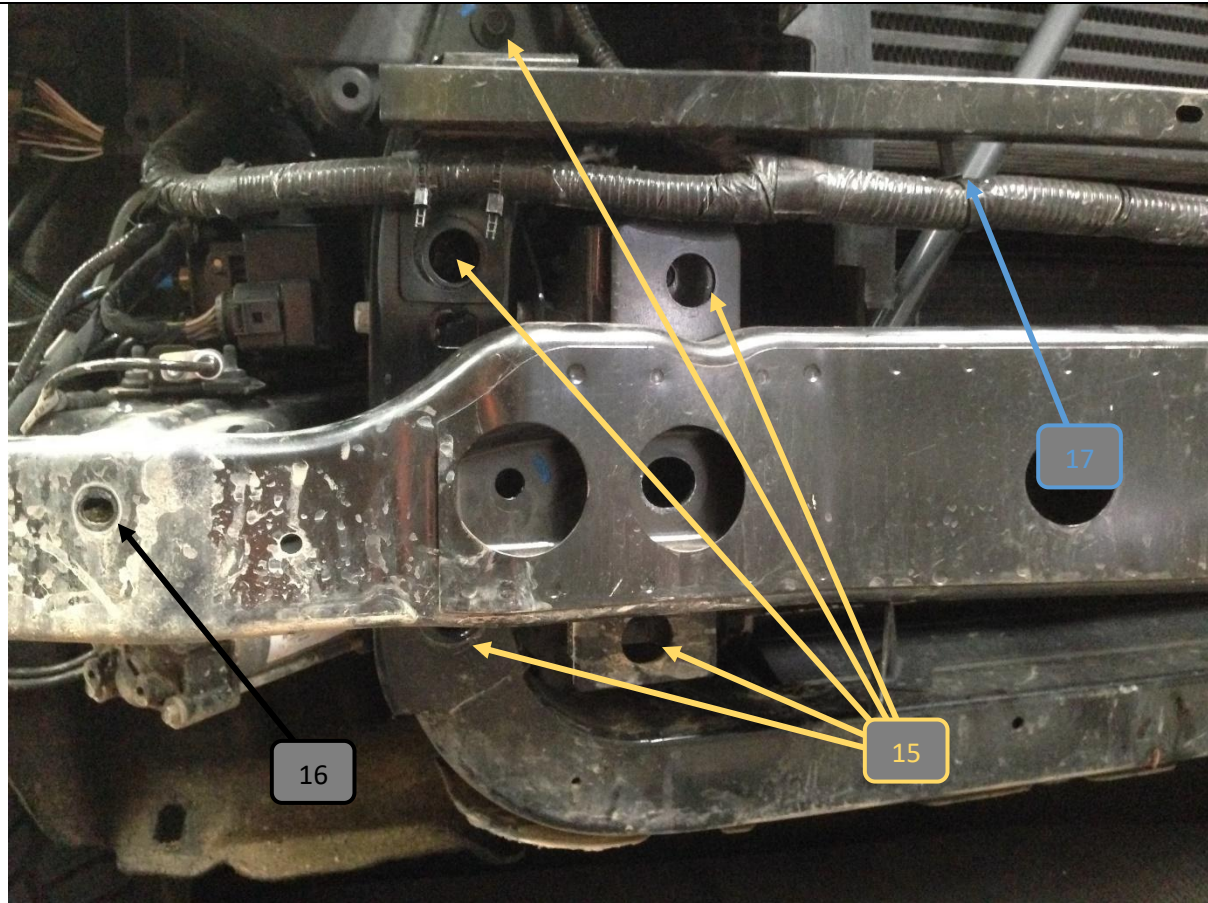
Trim tool
Or
Flat head screwdriver

FASTENERS



14. Pull foam insert off.

TOOLS REQUIRED**FASTENERS**



15. Remove bumper reinforcement by removing 8 x M8 bolts (4 per side with 13mm tool) and 2 x M6 bolts with 10mm tool.
16. If equipped with air suspension remove 2 flange nuts holding compressor onto bumper reinforcement.
17. 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 screwdriver

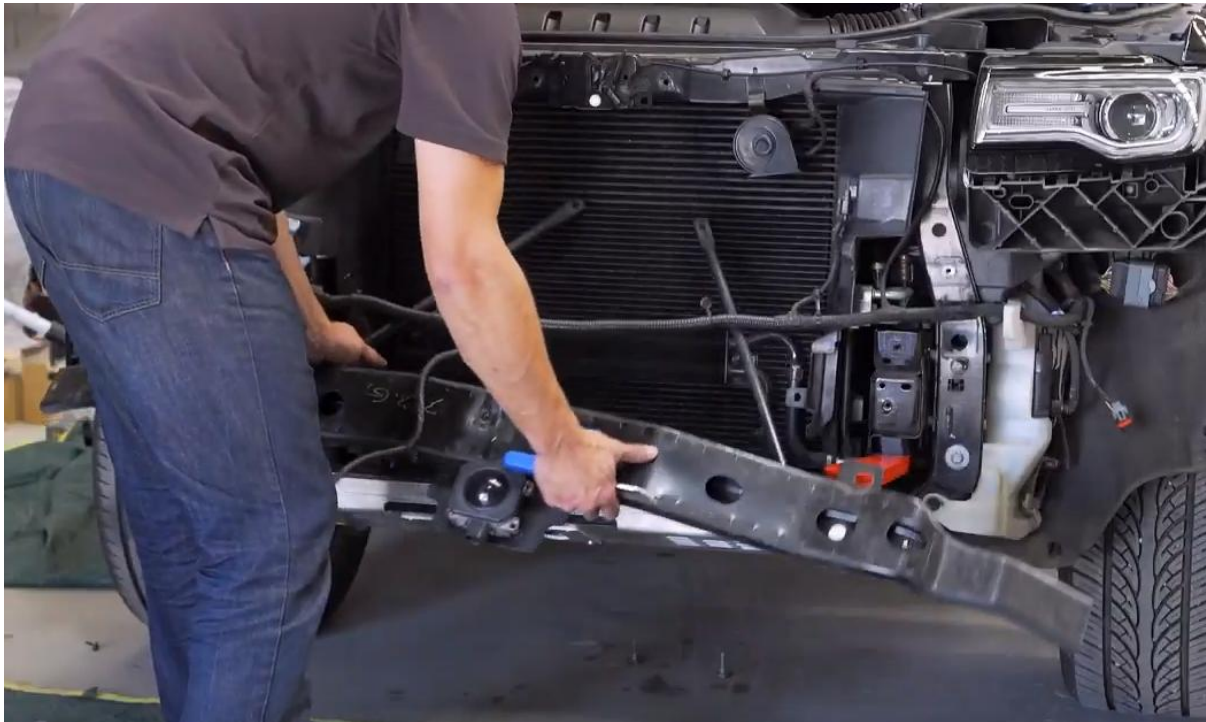
FASTENERS

Retain all fasteners, some will
be reused



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

TOOLS REQUIRED**FASTENERS**



19. 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



20. If vehicle is fitted with Air Suspension, fit Air suspension bracket as shown.
21. If no air suspension is 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



22. Fit pinch weld to top edge of main plate and wings.

TOOLS REQUIRED**FASTENERS**



23. Trim edges of pinch weld at edge of plate.

TOOLS REQUIRED

Side cutters

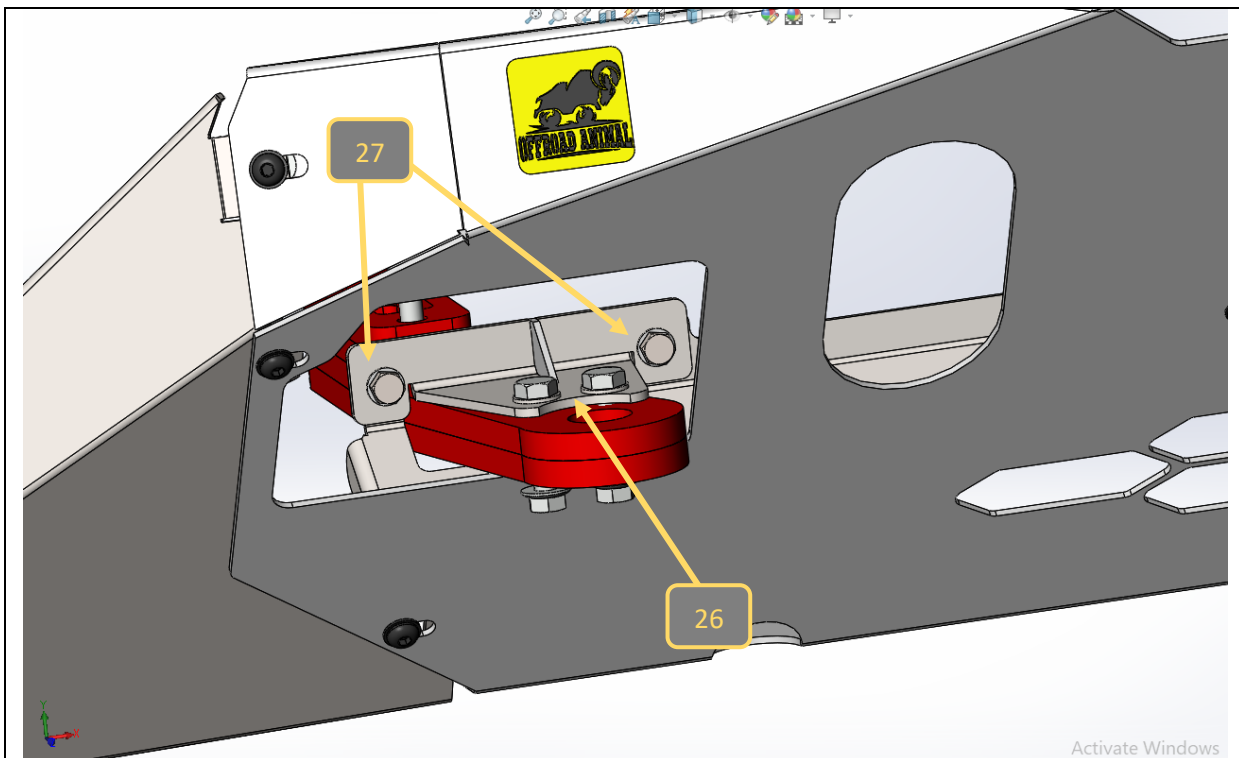
FASTENERS



24. Lift Main plate on to Jeep. Windows of welded gusset on main plate fits over tow points.
25. Loosely fit 3 M6 bolts on underside to hold main plate up.

TOOLS REQUIRED**FASTENERS**

Factory M6 bolts



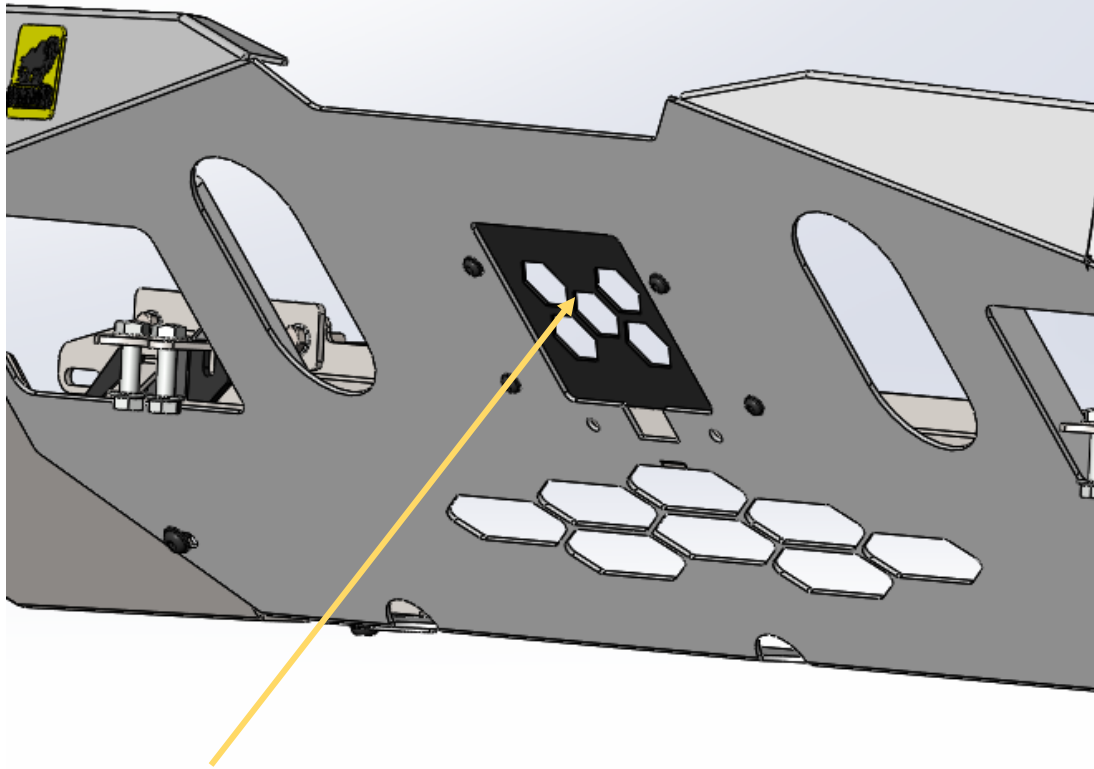
26. Fit Pre Runner Upper Mounts to top of Tow points. Secure to Main plate with M8 x 30 hex bolts flat washers and flange nuts.
27. Use M10 x 40 hex bolts, flat washers and flange nuts through Pre Runner Upper Mounts and secure to tow points.
28. Repeat for other side.
29. Position Pre Runner plate to sit just in front of factory bumper and torque down bolts. It's fine if it touches factory bumper with pinch weld.

TOOLS REQUIRED

13mm socket
16mm spanner and socket

FASTENERS

M8 x 30 Hex bolt (4)
M8 flat washer (4)
M8 flange nut (4)
M10 x 45 Hex bolt (4)
M10 flat washer (4)
M10 x flange nut (4)



30. If no Adaptive cruise control is fitted, then fit ACC cover plate with M8 x 16 button head cap screws (black zinc), flat washers and flange nuts.

31. Otherwise skip to next step.

TOOLS REQUIRED

4mm Allen key

FASTENERS

M6x16 BHCS black (4)
M6 flat washer black (4)
M6 flange nut (4)



32. If you have Adaptive cruise control you will need optional Offroad Animal Part “ PR-JGC-WK2-14-ASM3”
33. Fit Radar sensor to Acc Mount Wk2 plate with supplied M5x30 pan head screws in optional kit
34. Feed Sensor and plate through Main plate and secure to main plate with supplied M8x30 Hex bolts, flat washers and flange bolts from optional kit
35. Ensure sensor is facing forward and straight ahead. If pointing down or up it will not function properly. Adjust till it's pointing straight ahead. A test drive can confirm this.

TOOLS REQUIRED

Phillip's head screwdriver
13mm spanner or socket

FASTENERS

M5x30 Pan head (4)
M8x30 Hex bolt (4)
M8 flat washer (4)
M8 flange nut (4)



36. Secure ACC cover to main plate with M6 x 16 button head cap screws washers and flange nuts

TOOLS REQUIRED

4mm Allen key

FASTENERS

M6x16 BHCS black (4)
M6 flat washer black (4)
M6 flange nut (4)



37. Fit wing to Main plate. Wing sits behind main plate. Use M8x30 Button head cap screw with washer then flange nut behind. Fit all 3 bolts in the front and leave loose.

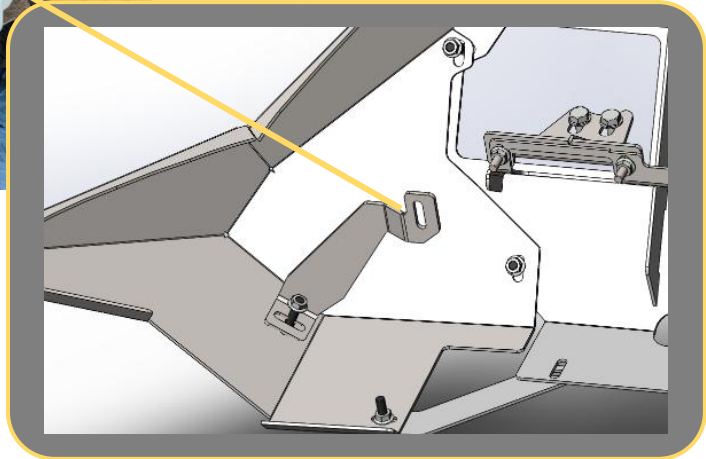
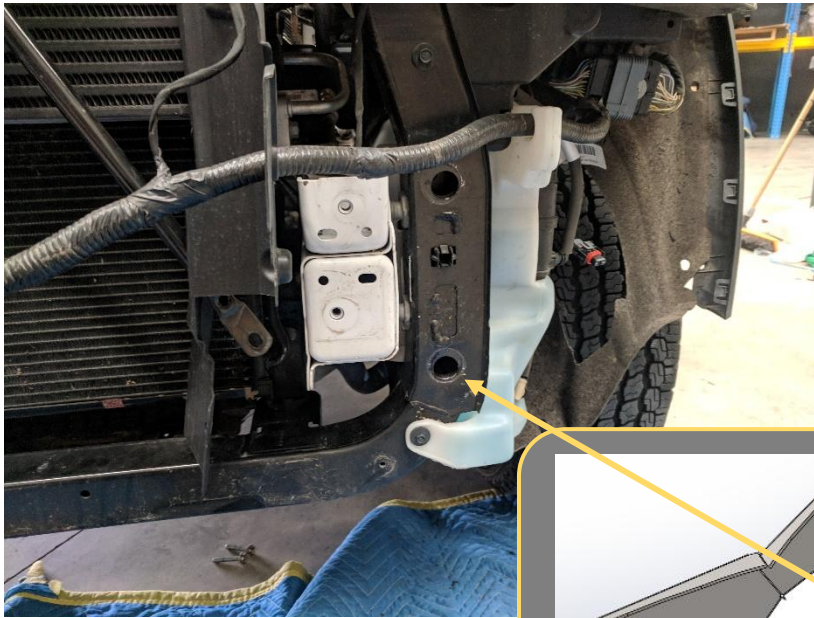
38. Repeat for other side.

TOOLS REQUIRED

5mm Allen Key

FASTENERS

M8x30 BHCS black (6)
M8 flat washer (6)
M8 flange nut (6)



39. Fit Pre runner wing supports. One end to side of wing as shown in picture on right with M8x30 button head cap screw, washer and flange nut, and one to bolt location shown on pic to left (reusing factory bolt)

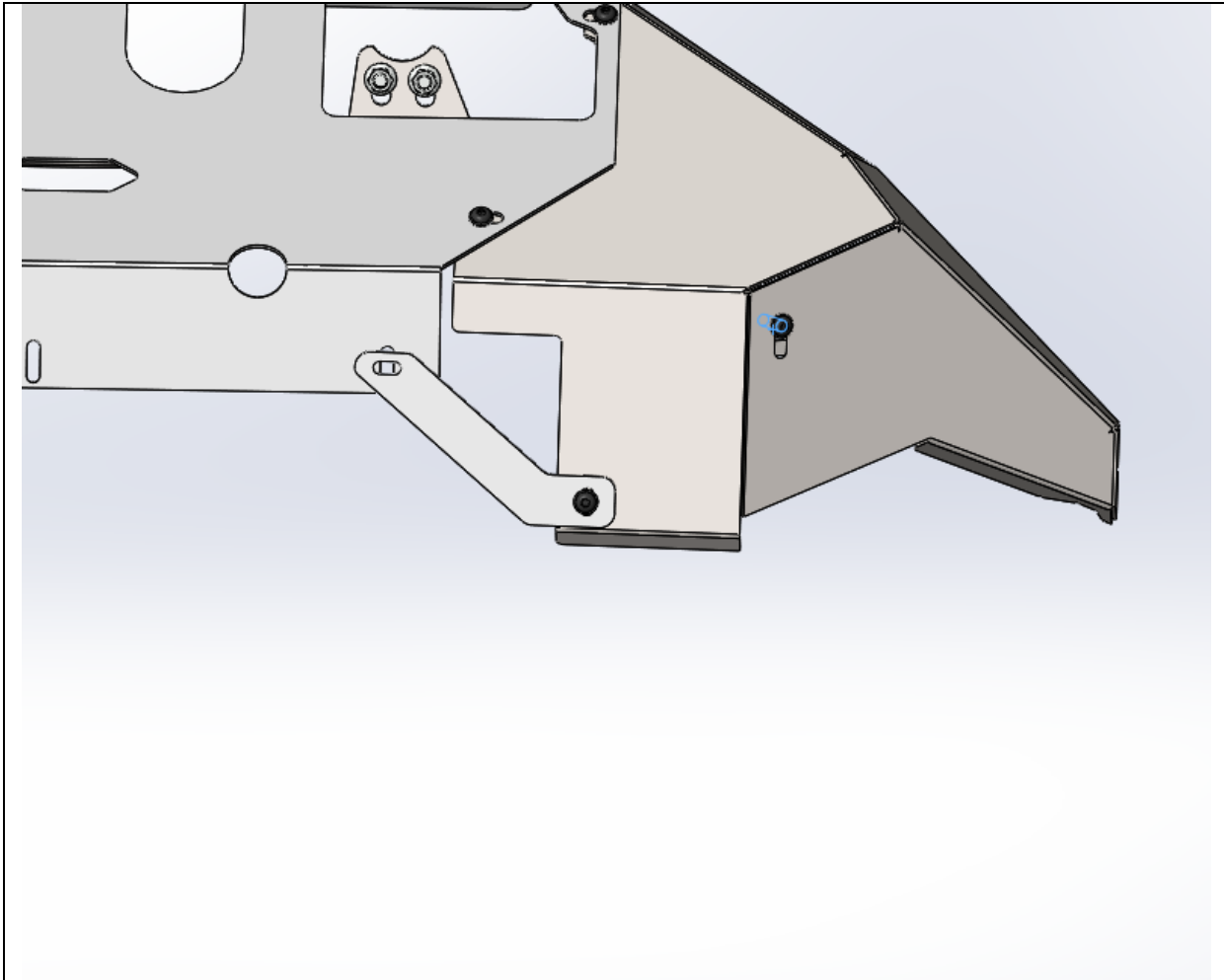
40. Repeat for other side

TOOLS REQUIRED

5mm Allen Key

FASTENERS

M8x30 BHCS black (6)
M8 flat washer (6)
M8 flange nut (6)



41. Fit lower wing support 2 as shown to bottom of wing and edge of bottom section. Secure bottom section with factory bolt. Secure wing section with M8x30 button head cap screw, flat washer and flange nut.
42. Repeat for other side.

TOOLS REQUIRED

5mm Allen Key

FASTENERS

M8x30 BHCS black (2)
M8 flat washer (2)
M8 flange nut (2)
Factory M6



43. Torque up all front bolts.

TOOLS REQUIRED

5mm Allen key

FASTENERS



44. Secure all bottom M6 bolts.

TOOLS REQUIRED

10mm spanner or socket

FASTENERS

Factory M6 bolts



45. Fit logo plate to bumper. If fitting nudge bar hold off until that is on before doing this step.

46. You're done, enjoy the coolness that is your Jeep now.

TOOLS REQUIRED**FASTENERS**