



## Jeep Wrangler JL and Gladiator JT

### MY2019-current

### Predator Front 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 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.

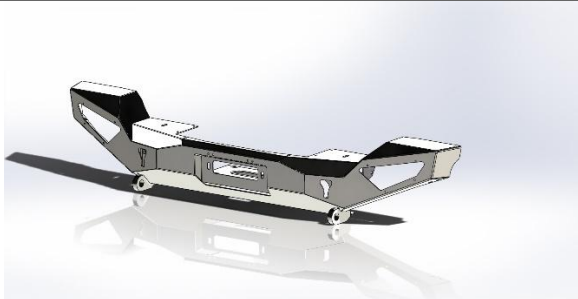

FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	Torque Nm
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm



**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	FB-JWR-JL-19-PR-ASM1	JL Bull bar Predator weldment	
1	B-0106R	Fog light mount LH	
1	B-0106L	Fog light mount RH	
1	B-0107L	Jk wing brace LH	

1	B-0107R	JK wing brace RH	
1	M-0002L	Light Cover Mesh LH	
1	M-0002R	Light Cover Mesh RH	
1	FB-JWR-JL-18-PR-ADRCP	ADR Compliance Plate JL BAR	
<b>OPTIONAL ACCESSORIES</b>			
1	B-0110	JK winch delete plate	
1	TB-COM-JK-ASM1	Top tube JK stealth	

1	TB-COM- JK-RD- ASM1	JK ROUND TUBE 3 IN	
1	FB-JWR-JL- 19-PR- ASM2	JL skid plate	

### Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
8	M10 x 30	M10 x 30 Hex Bolt Z/p
8	M10 SW	M10 Spring Washer
8	M10 FW	M10 Flat Washer
8	M6x16 bhcs bz	M6 x 16 Button Head Cap screw black zinc
8	M6 FW bz	M6 Flat washer black zinc
8	M6 FN	M6 Flange nut
4	M8 FW BZ	M8 flat washer black zinc
4	M8 x 20 BHCS BZ	M8 x 20 button head cap screw black zinc
10	M8 FN	M8 Flange nut
6	M8 x 25	M8 x 25 Hex bolt zp
6	M8 FW	M8 Flat washer
8	M4 x 20 Pan	M4 x20 Pan head screw Philips
8	M4 FN	M4 flange nut
1	FB-JWR-JL-19-PR- ADRCP	ADR Compliance plate JK bar
1	ORA logo	Offroad animal logo plate

**Small Parts kit for Optional Skid Plate**

Qty	Part Number	Description
<b>4</b>	M8 x 20 BHCS BZ	M8 x 20 Button Head Cap Screw Black Zinc
<b>4</b>	M8 FW BZ	M8 flat washer black zinc

**Small Parts kit for Optional Winch Delete Plate**

Qty	Part Number	Description
<b>4</b>	M6 FN	M6 flange nut
<b>4</b>	M6 x 20 BHCS BZ	M6 x 20 Button head cap screw black zinc
<b>4</b>	M6 FW BZ	M6 flat washer black zinc

**Small Parts Kit for Optional Stealth Hoop Top Tube**

Qty	Part Number	Description
<b>2</b>	M10 FW	M10 Flat washer
<b>2</b>	M10 x 30	M10 x 30 Hex bolt zinc plate
<b>2</b>	M10 NY	M10 Nyloc Nut
<b>2</b>	M10 SW	M10 spring washer

**Small Parts Kit for Optional Round Hoop Top Tube**

Qty	Part Number	Description
<b>2</b>	M12 FW	M12 Flat washer
<b>2</b>	M12 x 30	M12 x 30 Hex bolt zinc plate
<b>2</b>	M12 SW	M12 Spring washer

## TOOLS REQUIRED

The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
Hex (Allen) Key Set 4-6mm	Electric/Air Impact Driver (Optional)	Caulking gun (if equipped with forward parking sensors)
Metric Socket Set 10-19mm		
Socket Extension Bar		Adhesive silicone (if equipped with forward parking sensors)
Metric Spanner Set 10-19mm		
Trim Removal Tool		
Plastic Auto Trim Tool Set		
Flat Blade Screwdriver Set		
Phillips Head Screwdriver Set		
Utility Knife		
Pliers		

## 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. Start by removing 2x clips in front of grille.

**TOOLS REQUIRED**

Trim tool  
or  
Flat head screwdriver

**FASTENERS**

Discard



2. Remove all clips from under bumper holding plastic splash guard.

**TOOLS REQUIRED**

Trim tool  
or  
Flat head screwdriver

**FASTENERS**

Discard



3. Remove 2x retaining bolts on splash guard.
4. Remove splash guard.

**TOOLS REQUIRED**

Socket 10mm

**FASTENERS**

Discard fasteners



5. Remove reinforcement bracket as shown on both sides.

**TOOLS REQUIRED**

Socket/spanner set

**FASTENERS**

Discard





6. Remove 8x 16mm hex nuts securing front crash beam to chassis.

**TOOLS REQUIRED**

16mm Socket

**FASTENERS**

Discard



7. Unplug harness as shown.

8. Remove bumper

**TOOLS REQUIRED****FASTENERS**



9. If your old bumper had parking sensors, you'll need to pull the factory bumper apart to get to them.

Remove all perimeter M6 screws with a 10mm socket or spanner.

**TOOLS REQUIRED**

10mm socket

**FASTENERS**

Discard



10. Once all screws have been removed, you'll need to separate the inner bumper from the outer shell.

**TOOLS REQUIRED**

Pliers

**FASTENERS**





11. Remove all retaining clips for wiring.

**TOOLS REQUIRED**

Trim tool  
or  
Flat head screwdriver

**FASTENERS**



12. If parking sensors are fitted, you'll need to pry the housings off the bumper shell. Make sure you remove the sensors first.

**TOOLS REQUIRED**

Trim tool  
or  
Flat head screwdriver

**FASTENERS**



13. To refit the sensor to the bull bar, you'll need to dab the front of the housing like shown with adhesive silicone.

However, you'll need to do a dry fit in bumper before this step to ensure you know sensor orientation.

**TOOLS REQUIRED**

Caulking gun  
Adhesive Silicone

**FASTENERS**





14. Stick housings to inside of bull bar paying special attention to sensor wire orientation. Dry fit and make sure all sensor wires can reach before gluing.

**TOOLS REQUIRED****FASTENERS**



15. Allow at least an hour for silicone to set then insert each sensor to its housing.

**TOOLS REQUIRED****FASTENERS**



16. Remove factory fog lights from bumper with 8mm socket.

**TOOLS REQUIRED**

8mm socket

**FASTENERS**

Discard





17. Fit Factory fog lights to Fog light brackets as shown using M4x12 pan head screws and flange nuts.
18. Repeat for other side.

**TOOLS REQUIRED**

Phillips Head screwdriver

**FASTENERS**

8x M4x12 pan head screw  
8x M4 flange nut



19. Fit fog light bracket to mesh panel like shown using 1x M8x25 hex bolt, flat washer and flange nut. Repeat for other side.

**TOOLS REQUIRED**

13mm socket

**FASTENERS**

2x M8x25 hex bolt  
2x M8 flat washer  
2x M8 flange nut





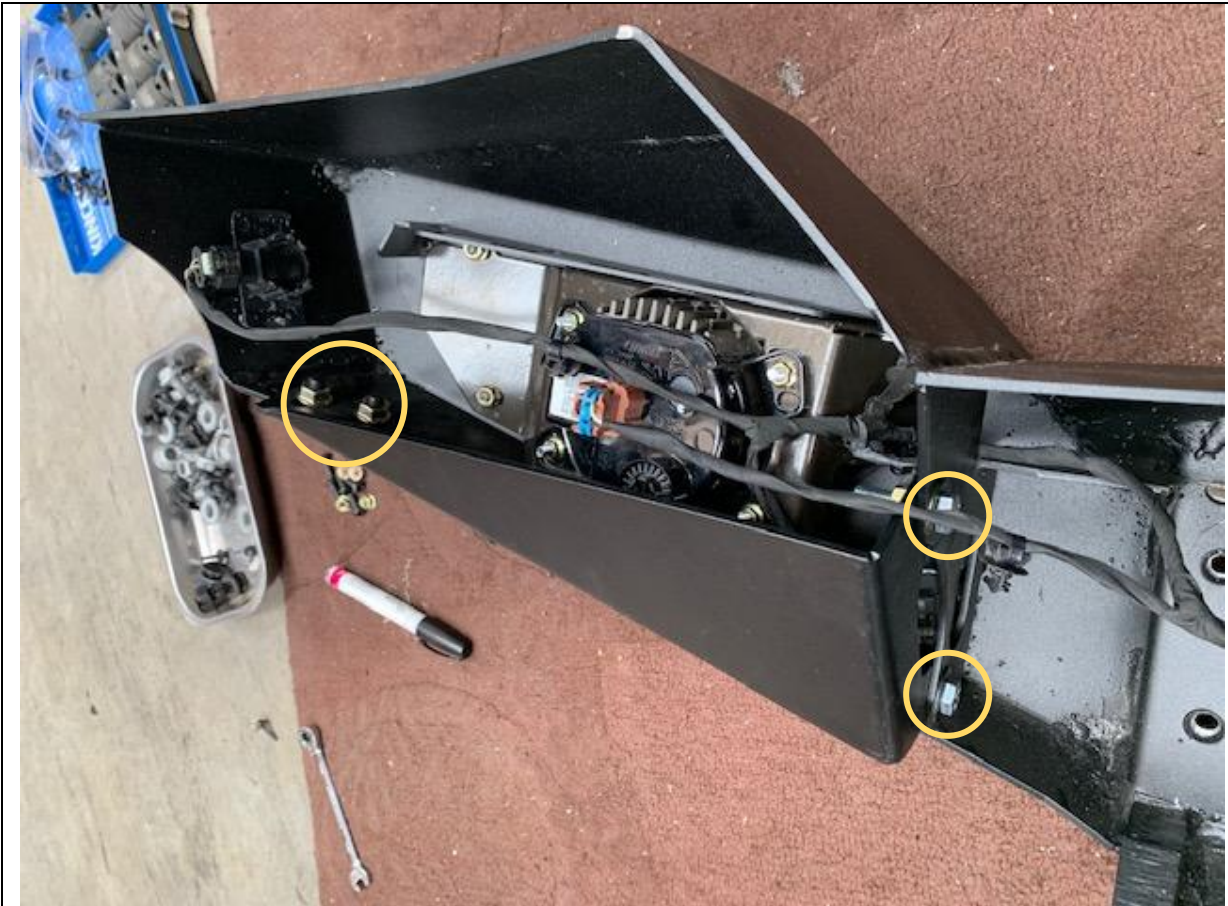
20. Fit mesh panel and fog light to bar and secure each one with 4x M6x16 black button head bolts, black washers and flange nuts.

**TOOLS REQUIRED**

4mm Allen Key

**FASTENERS**

8x M6x16 black button head  
8x M6 black washer  
8x M6 flange nut



21. Fit each wing brace to the inside of the wing as shown.

Use M8x20 black button head bolts, black washers and flange nuts on the outer end.

Use M8x25 hex bolts, flat washers and flange nuts on the inner end.

#### TOOLS REQUIRED

5mm Allen Key  
13mm Socket or spanner

#### FASTENERS

4x M8x20 black button head  
4x M8 black washer  
4x M8x25 hex bolt  
4x M8 flat washer  
8x M8 flange nut



22. Lift bar on to vehicle.

**TOOLS REQUIRED****FASTENERS**





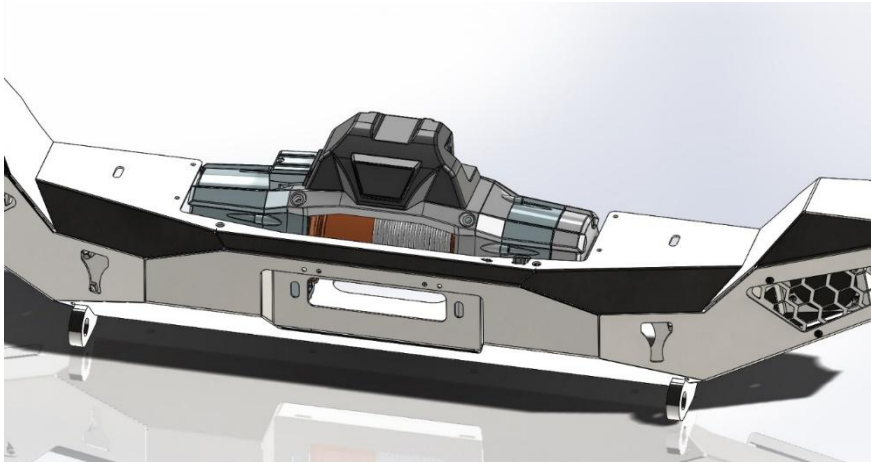
23. Insert 4x M10x30 hex bolts with M10 spring washers and flat washers through chassis into bull bar and torque to 60Nm. Repeat for other side.

**TOOLS REQUIRED**

16/17mm socket/spanner

**FASTENERS**

8x M10x30 hex bolt  
8x M10 spring washer  
8x M10 flat washer



24. If fitting a winch do so now. Drop winch in from top and secure with supplied bolts from winch box.
25. Some wide winches will require you to cut off a portion of the folded edge on top of the chassis flange

**TOOLS REQUIRED**

Angle Grinder  
Paint for exposed edges

**FASTENERS**



26. Fit fairlead to front of bar as shown with supplied hardware from winch.
27. Offroad Animal suggest purchasing our Number plate flip and fitting as shown.

**TOOLS REQUIRED****FASTENERS**



28. If not fitting a winch, fit number plate to front face of bar as shown with M6x20 hex bolt washer and flange nuts.
29. Also be a lad and fit the Offroad Animal logo plate as shown. Represent the brand.

**TOOLS REQUIRED**

10mm spanner or socket

**FASTENERS**

2x M6x 20 hex bolt  
2x M6 flat washer  
2x M6 flange nut





30. If fitting optional skid plate, hold plate up to bottom of bull bar and start the 4x M8 x 30 button head bolts with washers to hold plate in place, and re use hardware for the rear.

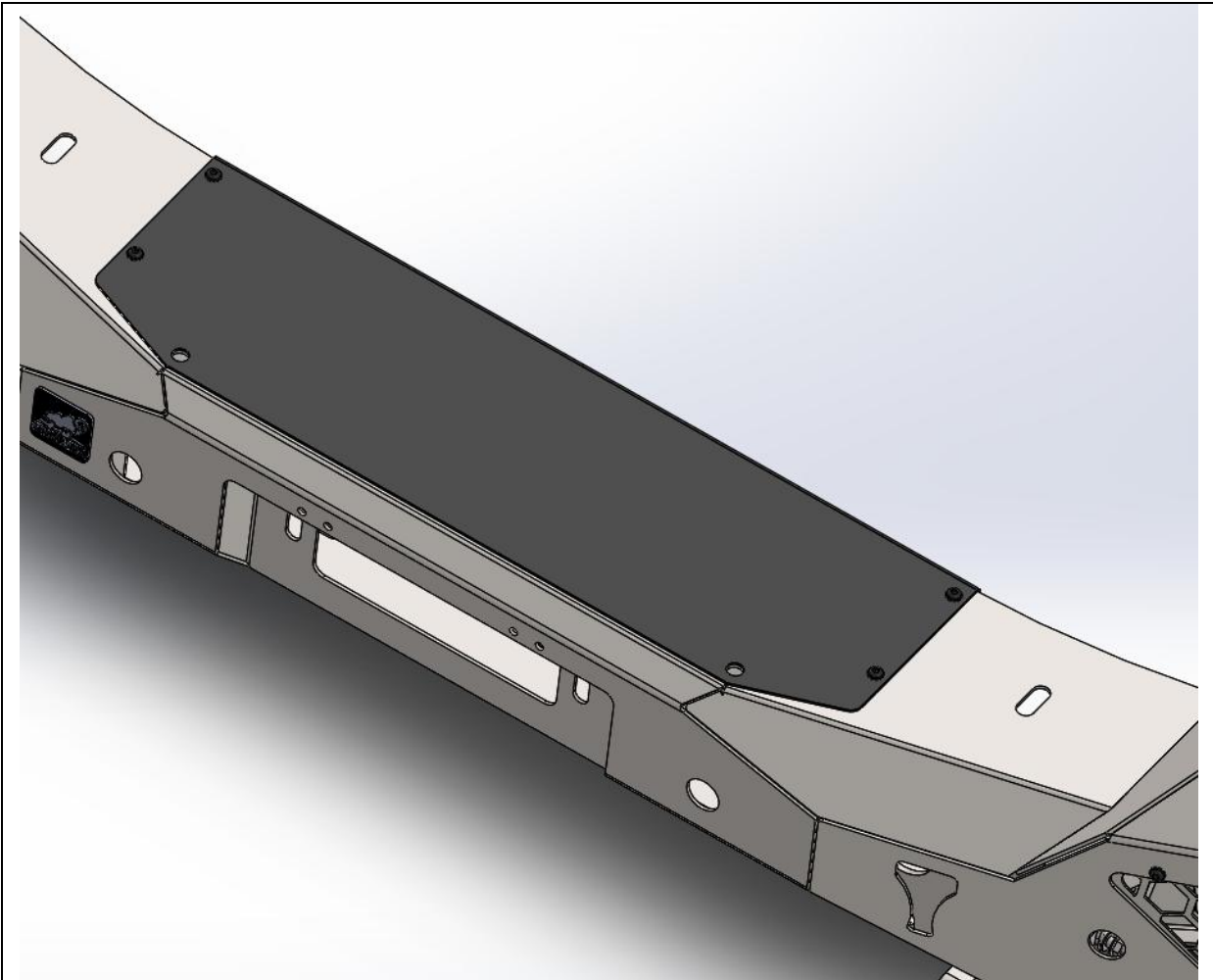
**TOOLS REQUIRED**

5mm Allen Key

**FASTENERS**

4x M8x30 button head  
4x M8 flat washer





31. If you are not running a winch and have purchased the optional winch delete plate, fit as shown with M6x20 black button head cap bolts, black washers and flange nuts.

**TOOLS REQUIRED**

4mm Allen Key

**FASTENERS**

4x M6x20 black button head  
4x M6 black washer  
4x M6 flange nut



32. If fitting optional stealth hoop, do so now with Supplied M10 hex bolts and Nyloc nuts. You can also fit any 20-22" LED single row light bar at the same time.

**TOOLS REQUIRED**

16 or 17mm Spanner

**FASTENERS**

2x M10x30 hex bolt  
2x M10 flat washer  
2x M10 Nyloc nut

Do not forget compliance plate



33. You're now finished, go out and enjoy your new bull bar.
34. Oh don't forget to plug back in your fog light loom and parking sensors.
35. And fit your compliance plate supplied underneath somewhere not in your face but visible if the fuzz wants to look at it to prove your bar is ADR compliant.

**TOOLS REQUIRED****FASTENERS**