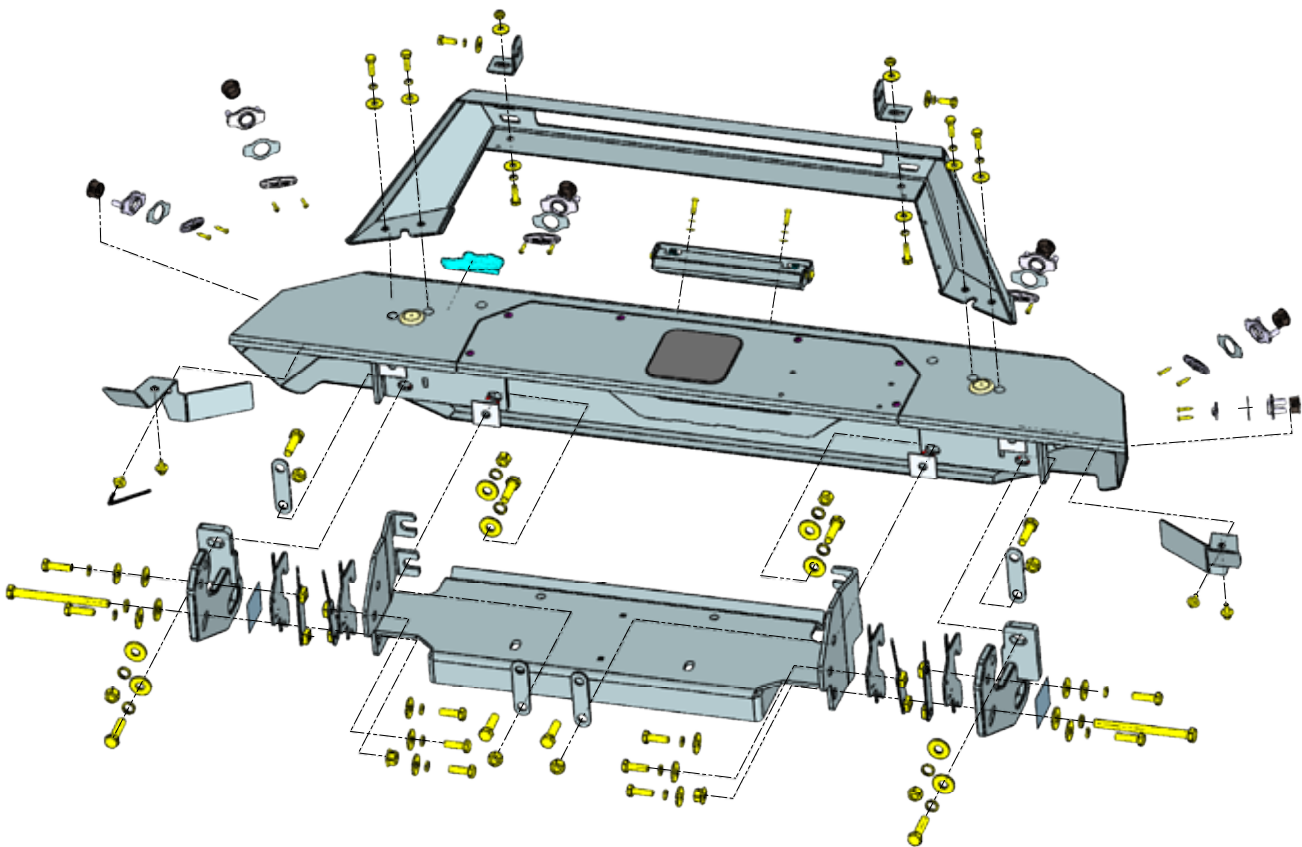




INSTALLATION GUIDE

BBR077ST

RAID STUBBY BUMPER
TO SUIT JEEP WRANGLER JL 2018+
JEEP GLADIATOR JT 2018+



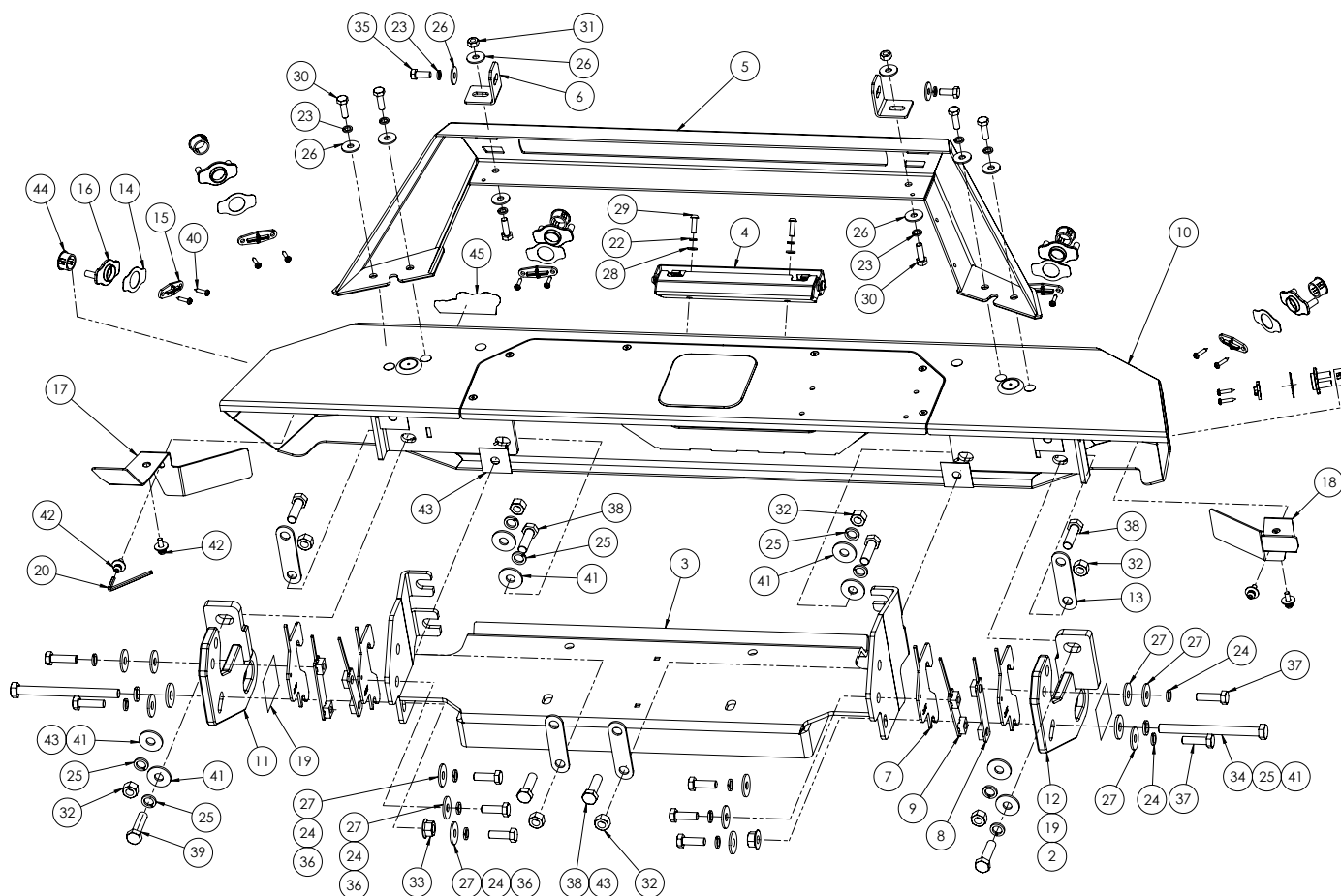
- Installation time: Approximately 2 hours

Warning: Fitting of Ironman 4x4 Stubby Bullbar to your vehicle may be regarded by state or territory registration authorities as an assessable modification or non-compliant to local regulations. If unsure, consult an approved vehicle signatory or your state registration office for advice as to whether the modification is allowable.

NOTE: This product has been tested for air bag compatibility and therefore the mounting system **MUST NOT** be modified

IMPORTANT: Bull bar installations should only be done by a qualified person and it's the responsibility of this person to ensure correct fitment.

Bolt List

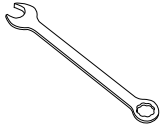
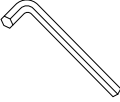
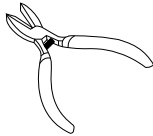
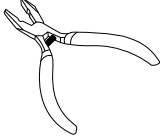
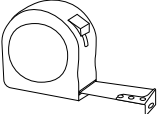
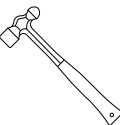
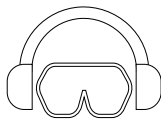


Part	Quantity
1. Cable Ties	10
2. Adhesion Promoter	1
3. Winch Bracket Weld Assembly	1
4. License Plate Mounting Bracket	1
5. Top Hoop Weld Assembly	1
6. Light Bar Mounting Bracket	2
7. Winch Mounting Spacer (3.0mm)	4
8. Spacer Tab M10 (Hole Distance 70.5mm)	2
9. Spacer Tab M10 (Hole Distance 51mm)	2
10. Bumper Assembly	1
11. Recovery Point (RHS)	1
12. Recovery Point (LHS)	1
13. Bolt On Plate	4
14. IM Parking Sensor Holder	6
15. IM Parking Sensor End Cap	6
16. IM Parking Sensor Double Sided Tape	6
17. Protection Shield LHS	1
18. Protection Shield RHS	1
19. Recovery Point Warning Sticker (3500kg-4.75t)	2
20. Allen Key Size 4mm	1
21. Allen Key Size 5mm	1
22. Spring Washer M6	2
23. Spring Washer M8	8
24. Spring Washer M10	10

Part	Quantity
25. Spring Washer M12	10
26. Flat Washer M8(8x24x2mm)	14
27. Flat Washer M10(10x30x2.5mm)	12
28. Flat Washer M6(6x12x1.6mm)	2
29. Dome Head Bolt M6x20	2
30. Dome Head Bolt M8x25	6
31. Hex Nut M8	6
32. Hex Nut M12	4
33. Flange Nut M12	2
34. Hex Head Bolt (Half Thread) M12x140x35	2
35. Hex Head Bolt (Full Thread) M8x20	2
36. Hex Head Bolt (Full Thread) M10x30	6
37. Hex Head Bolt (Full Thread) M10x35	4
38. Hex Head Bolt (Full Thread) M12x40	2
39. Hex Head Bolt (Full Thread) M12x45	2
40. Pan Head Screw ST4.2x20	2
41. Flat Washer M12x32x3	10
42. Combo Kit – Dome Head Bolt + Spring Washer + Flat Washer (OD 18mm) M6x20/A2-70	4
43. PVC Bolt Holder Clip 12 (0.7*40*40)	4
44. Sensor Clamp	2
45. IM 4x4 Logo	1



Tools Required

Metric and Imperial Spanner Set 	Metric and Imperial Socket Set 	Screw Driver Set 	Metric Allen Key Set 	Tension Wrench 
Side Cutters 	Pliers 	Tape Measure 	Hammer 	PPE 

Bolt Tension Chart

Grade	TORQUE	BOLT SIZE				
		M6 x 1	M8 x 1.25	M10 x 1.25	M12 x 1.25	M14 X 1.5
8.8	Nm	10.5	25	49	88	140
	ft/lb	7.7	18	36	64	103



1. Confirm items received are suitable for the correct vehicle make, model and year.

2. Remove front bumper bar, underpans, and grill from vehicle.

NOTE: Retain all hardware.

3. If vehicle is fitted with headlight aligner connected to front sway bar, disconnect the unit to allow clearance for the winch bracket.



4. If equipped, remove inner and outer chassis support brackets.



5. Lower winch cradle into position and align with respective mounting holes in chassis.



6. Install recovery points to outer side of chassis rail. Different mounting holes are used in Jeep JL and JT models. Align to the corresponding holes in your model, remaining holes will not be utilized.



7. Loosely centralise bolt cradle in position and centralist to chassis using spacers provided.

NOTE: Depending on model spacer plates may not require fitment.



8. Refit sway bar headlight aligner to original location, ensure adequate clearance with the winch bracket.

NOTE: If not fitting winch, proceed to step 10.

9. If fitting a winch, remove top cover plate from bumper and install winch to mounting cradle as per winch manufacturer's instructions.

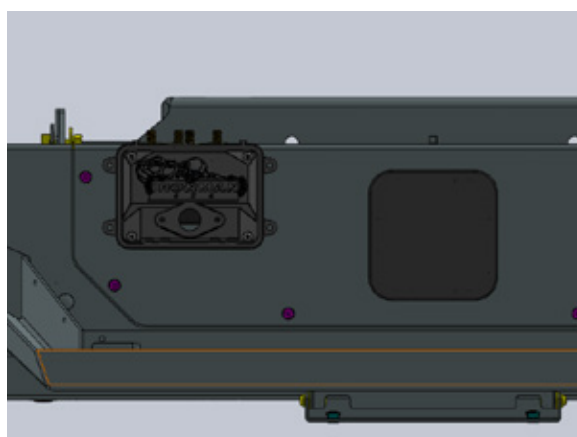
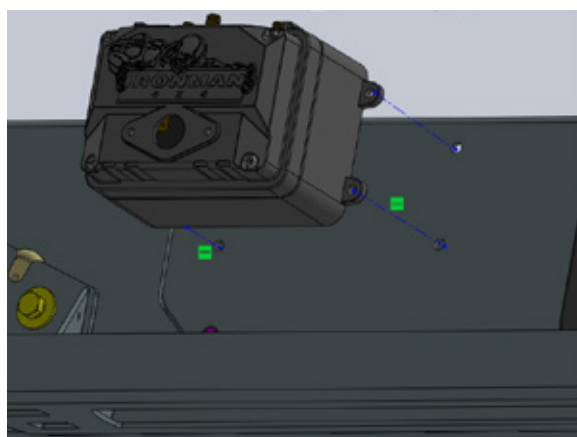
Ensure all winch wiring is carefully routed to avoid rubbing or crush damage with surrounding components.

The bumpers top cover plate features mounting holes for the new small style Ironman 4x4 winch control box.

Fit control box to cover plate when loose from vehicle, then re-install cover plate with control box mounted, routing the cables between the bumper and grille.

With all wiring complete, secure top cover plate into place using supplied hardware.

Refit grill using original mounting hardware.



- 10.** Insert supplied mounting bolts to the bumper mount plate as shown. Retain bolts in place using the supplied PVC bolt retainer shims.



- 11.** Install parking sensors (refer to pages 10-12).

- 12.** Install parking sensor stone guards using supplied hardware.



- 13.** If fitting optional top hoop with integrated 20" Ironman 4x4 light bar, remove plastic plugs from bumper, feed light bar cable through large hole as shown, then position top hoop into place securing using the supplied hardware.

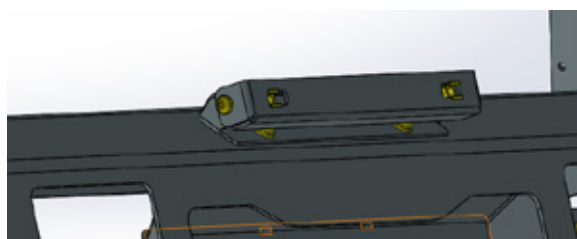
Assemble and install light bar to the top hoop using the supplied brackets and hardware. The brackets provide some adjustment to ensure centralized positing and vertical aim of the light.

Light bar cable can be secured to the small holes found on the inside edge of top hoop using cable ties.

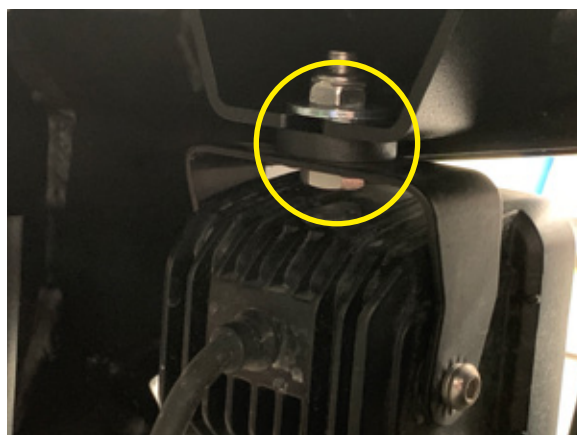
Slide top hoop over wiring and bolt down using supplied hardware.



- 14.** Install licence plate bracket to bumper.



- 15.** Fit the supplied spacer when fitting Ironman 4x4 cube lights to centralize the light in the pod. Also install the light/sensor protection shield together with cube light mounting.



- 16.** Install Ironman 4x4 bumper into position, aligned to the chassis mounting holes. We recommend 2 people when lifting the bumper into position avoiding injury or damage to the vehicle and components.



17. Outer chassis mount:

Using M12 nut, flat washer and spring washer secure bolt plate stud through top chassis hole.

Use supplied M12x45mm bolt, flat washer and spring washer through recovery point, chassis and bar into welded nut on bolt plate.

Inner chassis mount:

Using M12 nut, flat washer and spring washer secure bolt plate stud through top winch cradle and chassis hole.

Use supplied M12x45mm bolt, flat washer and spring washer through lower winch cradle hole, chassis and bar into welded nut on bolt plate.



- 18.** Tension all fasteners and mounting hardware, refer to page 3.

- 19.** Original under pan can be refitted to vehicle if preferred, with some minor modifications to aid clearance of surrounding components.



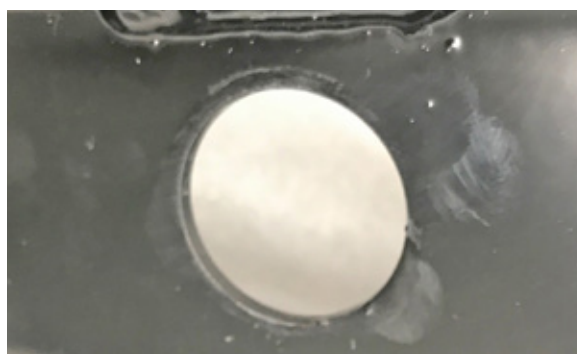
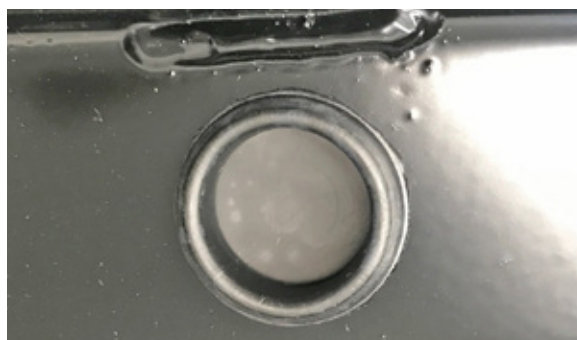
Universal Parking Sensor Installation

IMPORTANT: For parking sensors to function correctly these instructions must be followed closely.

Before removing sensors from original bumper bar, note the location and orientation of each sensor so when they are fitted the bullbar this can be replicated.

1. Remove the parking sensor wiring and parking sensors from the bumper taking note of the direction and position of each sensor.

2. Remove grommets from sensor holes in bumper.



3. Fit sensor with factory silicone sleeve to the sensor holder and secure using clamping plate and screws provided. Do not over tighten. Use flat side of clamping plate to secure the sensor. The sensor will false alarm if excess pressure is applied to the sensor body.



4. Clean inside of bullbar around sensor holes and mounting surface of sensor holders using wax and grease remover.



5. Apply adhesion promoter to mounting surfaces around sensor holes and on sensor holders. This step is important to ensure sensor holders adhere properly to the bullbar.



6. Remove protective film from one side of double-sided tape and apply to mounting surface of sensor holder.



7. Remove protective film from double-sided tape and apply sensor holder/sensor to bullbar making sure sensors are in the same positions as they were in the original bumper and in the same orientation.

