

INSTALLATION GUIDE



BBR087E

RAID BULL BAR TO SUIT CHEVROLET SILVERADO 2019+



- Ironman 4x4 BBR087E Raid Bull Bar to suit Chevrolet Silverado 2019+.
- It will take approximately 3 hours to install.

BBR087E/2106323

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.

Before Installation

PLEASE NOTE:

It is always good practice to disconnect the battery while working on 12-Volt systems. Please check owner's manual to see vehicle specific requirements as some models may need battery backup.

Caution: Auto electrical work should only be carried out by a competent person. Vehicle wire colours are listed as a guide and may vary on some makes and models. The function of each wire should be checked before any connections are made.

All wires tapped into the factory harness should be soldered and then insulated with electrical tape or heat shrink.

Using only a LED test light, test all electrical components of the vehicle before and after wiring. This is to ensure that everything works correctly.

IMPORTANT:

Bull Bar installations should only be done by a qualified person, and it is the responsibility of this person to ensure correct fitment.

Read instructions fully before commencing fitment.

Do not remove labels from this bull bar. It is good practice to record the bull bar batch number on the customer's job card for future reference.

BULL BAR CARE INSTRUCTIONS:

To maintain finish of the product, wash regularly using a PH neutral Car wash, hose off and chamois dry. Do not use acidic or alkaline cleaners. Plastic components can be maintained with a silicon spray or similar (non-acidic or alkaline based)

The fitting instructions are correct at the time of publication date. Ironman 4x4 cannot be held responsible for any vehicle manufacturer changes. It is the installers responsibility to ensure correct fitment.

NOTE – Optional light Options

Optional centre light bar **ILBDR002B (Requires x1)**

Optional Cube lights: (can install up to x 4 cube lights)

40W BRIGHT CUBE SPOT BEAM - Part Number: ILED80B

40W BRIGHT CUBE SPOT BEAM - AMBER COLOUR Part Number: ILED80BA

40W BRIGHT CUBE FLOOD BEAM - CLEAR COLOUR ILED80BF

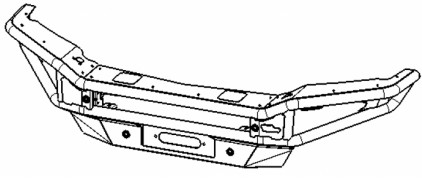
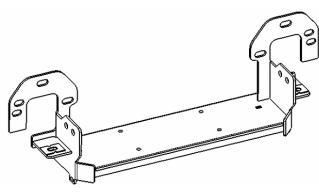
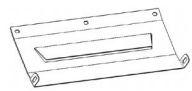
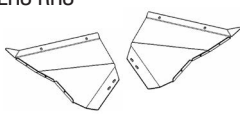



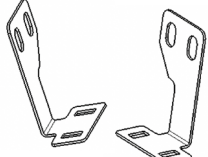
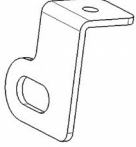


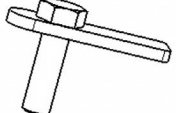
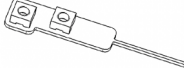
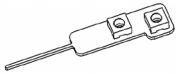
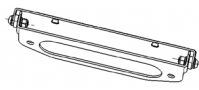
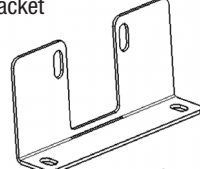



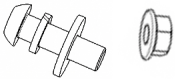
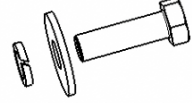
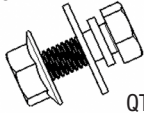

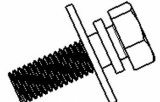
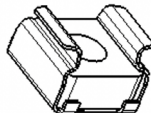
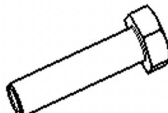
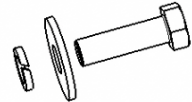
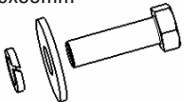
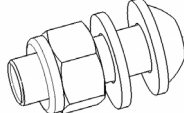

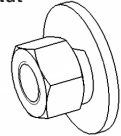
40W BRIGHT CUBE FLOOD BEAM - AMBER COLOUR Part Number: ILED80BFA

OPTIONAL ACCESSORY - WINCH CONTROL BOX MOUNTING BRACKET - WWBCP001

It is important to work safely and use appropriate safety equipment while working.

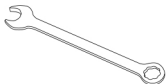

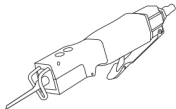
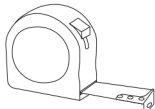




Parts List

<p>1. Bull Bar</p>  <p style="text-align: right;">QTY-1</p>		<p>2. Winch Cradle</p>  <p style="text-align: right;">QTY-1</p>		
<p>3. UBP</p>  <p style="text-align: right;">QTY-1</p>	<p>4. Side Protection Plates LHS RHS</p>  <p style="text-align: right;">QTY-1</p>	<p>5. Top Hoop</p>  <p style="text-align: right;">QTY-1</p>	<p>6. Light Bar Mesh</p>  <p style="text-align: right;">QTY-1</p>	<p>7. Light Bar Mounting Bracket LHS RHS</p>  <p style="text-align: right;">QTY-1</p>
<p>8. Outer Chassis Bracket L</p>  <p style="text-align: right;">QTY-1</p>	<p>9. Tie Down Point</p>  <p style="text-align: right;">QTY-1</p>	<p>10. Tube Spacer 79mm</p>  <p style="text-align: right;">QTY-2</p>	<p>11. Tube Spacer 75mm</p>  <p style="text-align: right;">QTY-2</p>	<p>12. T-bolt M12x40</p>  <p style="text-align: right;">QTY-2</p>
<p>13. M10 Nut Plate LHS</p>  <p style="text-align: right;">QTY-1</p>	<p>14. M10 Nut Plate RHS</p>  <p style="text-align: right;">QTY-1</p>	<p>15. Number Plate Flip Bracket</p>  <p style="text-align: right;">QTY-1</p>	<p>16. Camera Relocation Bracket</p>  <p style="text-align: right;">QTY-1</p>	<p>17. Recovery Point Warning Sticker</p>  <p style="text-align: right;">QTY-1</p>
<p>18. Parking Sensor Extension Cable</p>  <p style="text-align: right;">QTY-2</p>	<p>19. Parking Sensor Holder</p>  <p style="text-align: right;">QTY-1</p>	<p>20. Dome Head Bolt Spring Washer Flat Washer M6x20mm Flange Nut</p>  <p style="text-align: right;">QTY-4</p>	<p>21. Hex Bolt Flat Washer Spring Washer M6x16mm</p>  <p style="text-align: right;">QTY-2</p>	<p>22. Hex Bolt Spring Washer Flat Washer M8x25mm Flange Nut</p>  <p style="text-align: right;">QTY-14</p>
<p>23. Hex Bolt Spring Washer Flat Washer M8x25mm Flange Nut</p>  <p style="text-align: right;">QTY-2</p>	<p>24. Hex Bolt Spring Washer Flat Washer M8x25mm</p>  <p style="text-align: right;">QTY-11</p>	<p>25. Cage Nut M8</p>  <p style="text-align: right;">QTY-8</p>	<p>26. Hex Bolt M10x40mm</p>  <p style="text-align: right;">QTY-4</p>	<p>27. Hex Bolt Flat Washer Spring Washer M10x40mm</p>  <p style="text-align: right;">QTY-2</p>
<p>28. Hex Bolt Flat Washer Spring Washer M10x35mm</p>  <p style="text-align: right;">QTY-2</p>	<p>29. Dome Head Bolt Spring Washer Flat Washer M10x30mm Nyloc Nut</p>  <p style="text-align: right;">QTY-2</p>	<p>30. Hex Bolt Spring Washer Flat Washer M12x130x40mm Hex Nut</p>  <p style="text-align: right;">QTY-4</p>	<p>31. Flat Washer Spring Washer M12x32x3mm Hex Nut</p>  <p style="text-align: right;">QTY-2</p>	



Tools Required

<p>Metric spanner set</p> 	<p>Metric socket set</p> 	<p>Air hacksaw</p> 	<p>Tape measure</p> 	<p>Drill and drill bits</p> 	<p>Screwdriver set</p> 
---	--	--	---	---	--

Bolt Tension Chart

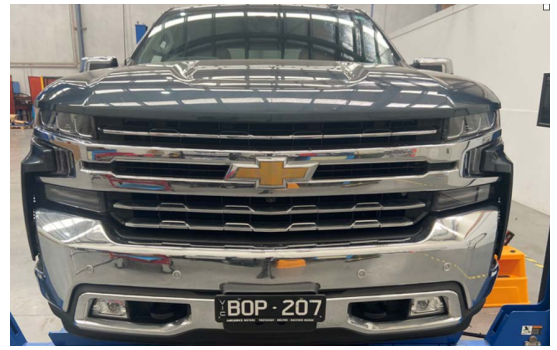
Property Class	TORQUE ma	NOMINAL DIAMETER - COARSE THREAD			
		M6 x 1	M8 x 1.25	M10 x 1.25	M12 x 1.25
8.8	Nm	10.5	25	49	88
	ft/lb	7.7	18	36	64



1. Before installation, check bull bar application is compatible with your vehicle.

Remove and retain number plate, if fitted, to be reinstalled later.

Disconnect negative battery terminal. Please check owner's manual to see vehicle specific requirements as some models may need battery backup.



2. Remove and retain top plenum cover. Ensure to keep all plastic clips.



3. Note: You will also need to remove vertical lock support handle

NOTE: Ensure to keep all grille retaining hardware.



4. Once plenum cover is removed, Unclip the upper and lower grille support clips, disconnect camera and remove grille.

NOTE: it is advised to start on both sides, outwards of the headlight grille infill.



5. Remove all factory bumper bar retaining clips and bolts (including splash tray clips). Unbolt and remove factory stone tray/bash plate and factory tie down points.



6. Remove bumper top trim cover. (There is a hidden bolt in behind cover)



7. Disconnect factory fog lights, and park light wiring. Main plug is located on the NSF below the headlight.



8. Before unclip bar cheek, it is good practice to set a tape line for Bar cheek cut line. See image

NOTE: It is advised to use a different colour tape to set your cut line.



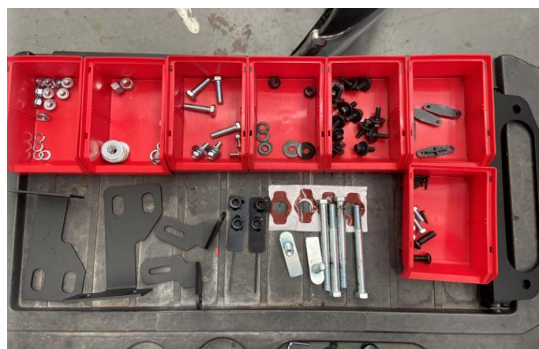
9. Carefully unclip bar cheeks and remove factory bumper.



- 10.** Remove lower bar support bracket on both sides of vehicle.



- 11.** Unwrap the hardware. It is good practice to lay out all hardware and cross reference against the parts list.



- 12.** Unwrap winch cradle and bar brackets.



- 13.** Drill out thread on outer factory chassis mount, (10mm)



- 14.** Fit winch cradle to the front of vehicle using factory bar Rio bolts, using the two inner lower mounting holes. Do not tighten the bolts at this stage as adjustment will be required.

Feed 4x M12 150MM bolts through chassis rail with crush tubes.

Do not tighten the bolts at this stage as adjustment will be required once bull bar is installed.



- 15.** Feed T-bolt N#34 1x (M10X105X45mm T-bolt, washer) up into the centre of the chassis rail hole and through bull bar cradle.



- 16.** Feed 4x M12 150MM bolts through chassis rail with crush tubes and using the centre UBP brackets on the outside of the chassis rail.

Do not tighten the bolts at this stage as adjustment will be required once bull bar is installed.

Repeat step 14 on opposite side.



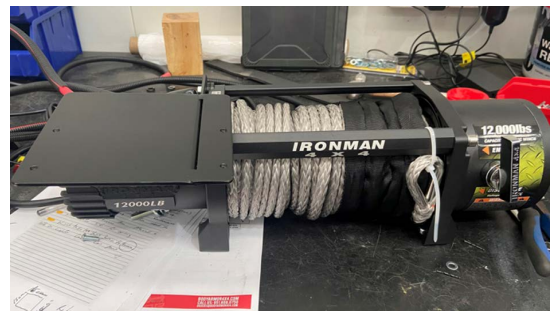
- 17.** Find a fixed point on the vehicle, take measurements, square up the cradle. Repeat on both sides until cradle is centred. Tighten bolts.

- 18.** If installing a winch, use the provide winch control box mounting plate.

NOTE: it is advised to bolt winch cables before mounting bracket for ease of fitment.

See winch wiring on pages 17-19.

Optional Accessory - Winch control box mounting bracket **WWBCP001**



- 19.** Install winch control box mounting bracket to winch control box using N#37 4 x (M5x.08x16mm nut, washer, spring washer and flange nut)
Mount winch.



- 20. 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 back into the Raid bar this can be replicated.

- 21.** Remove the parking sensor wiring and parking sensors from the factory bumper taking note of the direction and position of each sensor.
Remove grommets from the sensor holes in Raid bumper.



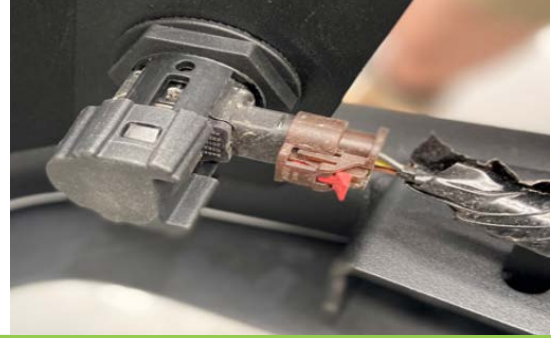
- 22.** Remove the clear silicone sleeve off the parking sensor. Add the supplied insulated pad.



- 23.** Clip parking sensor into Raid bar parking sensor holder.

Clip the supplied backing and foam insulator into the sensor housing to hold sensor

NOTE: making sure the orientation is correct



- 24.** Repeat steps 18 to 20 for all parking sensors.

On both the right and left lower parking sensor there is a supplied plug-in wiring extension plug. Plug extensions in.



- 25.** Plug the parking sensors wiring extension loom into the factory harness and run cabling in between bracket.

- 25b.** Visually inspect bull bar and hardware, retention bull bar hardware if needed.



- 26.** Assemble and install light bar into the centre bar section 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 bull bar using cable ties. Brackets N#11 & N#12. Hardware N#27 2X (M8x1x20mm bolt, washer, spring washer nut) & N#28

2x (M6X1X20mm bolt, washer, spring washer nut)

NOTE: Optional centre light bar ILBDR002B

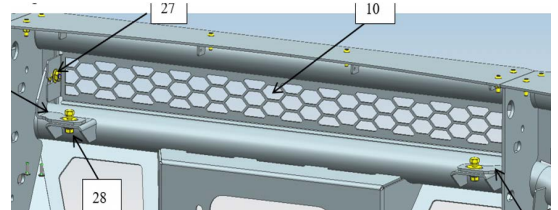


- 27.** Assemble and install Ironman 4x4 cube lights to light pod. The brackets provide some adjustment to ensure centralized positing and vertical aim of the light. The Cube Light cable can be secured to the inside edge of bull bar using cable ties.



- 28.** If you are not fitting the optional light bar. There is a mesh infill supplied. You will still need to use the Light bar support brackets to install mesh. Bracket N#11 & N#12.

Hardware N#27 2X (M8x1x20mm bolt, washer, spring washer nut) & N#28 2x (M6X1X20mm bolt, washer, spring washer nut)



- 29.** Install license plate mount bracket onto Bull bar N#26 2x (M6x1x20mm bolt, washer flange nut).

If winch is being installed, fit the fairlead as well.



- 30.** Connect/wire up fog lights, light bars (if applicable). Route parking sensor wiring, and cable tie off.

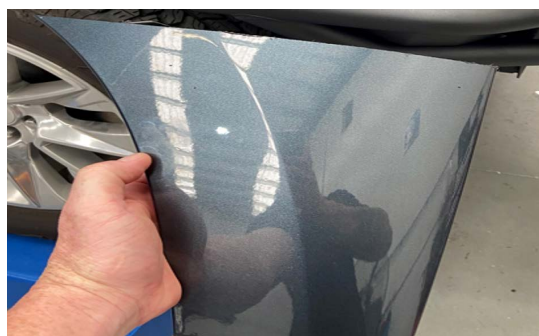
Refer to wiring diagram on page 20.



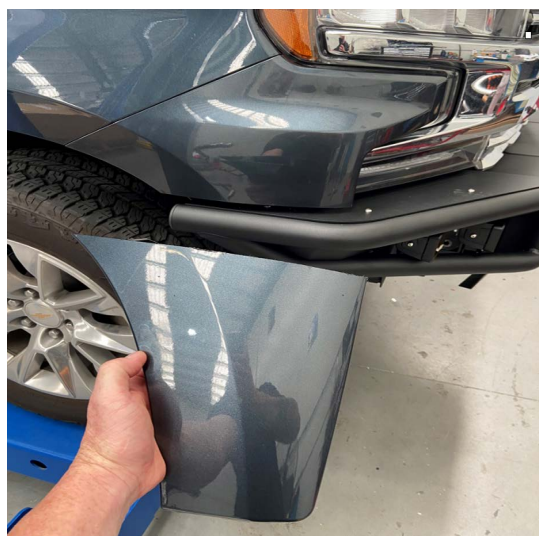
- 31.** Mask sections of bumper cheek to be cut, place cutting template in position and mark cut lines on bumper.



- 32.** Cut along lines marked in previous step



- 33.** Clean and dress cut line. Once happy re-install Bar cheek



- 34.** Using the 2-x remaining factory bumper bar bolts, bolt in the top face cradle mounting to bar holes
N#32 6X(M10x1.5x30mm)



- 35.** Feed N#12 Right and Left N#11 nut plates into position.
Tension all fasteners and mounting hardware, refer to page 4.
N#32 6X(M10x1.5x30mm)

NOTE: Connect main parking sensor plug if vehicle is equipped with Front sensors.



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



Top Hoop Instructions

37. Remove camera from behind the grille.



38. If applicable, fit camera to bull bar through camera hole located above winch fairlead, using supplied bolts and spacers.



39. Remove and drill 10mm holes. once drill debur and paint.

NOTE: a larger hole will need to be drilled on the passenger side to allow for the camera loom



40. Mount camera into the top hoop using camera bracket and supplied hardware.



41. Reroute the camera cable to feed up through the newly drilled hole.

Clip grille back in



- 42.** Plug camera in and mount hoop with supplied hardware.



- 43.** Install captive nuts into bolt side Bull bar wings.



- 44.** Install centre protection plate with black M8 bolts provided. N#29 4X (M8x1x25mm) and 2 x N#36 (M12x1.5x45mm bolt, washer, nut) Bolt the UBP through the lower cradle mount and then to chassis.



- 45.** Install both wing protection plates with black M8 bolts provided. N#29 6X (M8x1x25mm)



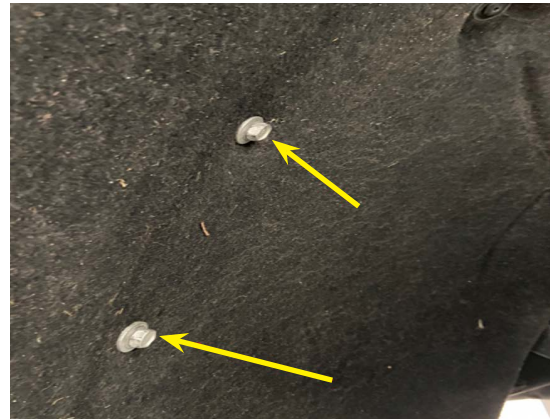
- 46.** Bolt number plate to the vehicle with M6 hardware supplied.



- 47.** Mark and Trim guard liners, drill 2 holes as shown



- 48. NOTE:** it is advised to drill 2 holes as shown, to secure in place the guard liner into the captive nuts in the inner guard skirt. The guard liner has 2 x embossed raised sections as a guide for drilling.

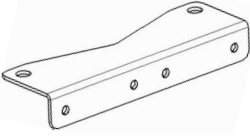

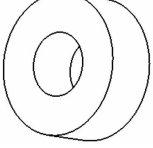
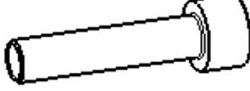
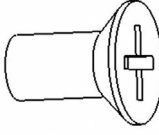
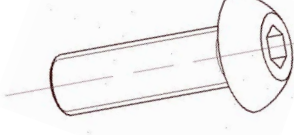


- 49.** Reinstall top plenum grille and Vertical lock handle. If negative battery terminal was removed, reconnect.



WWBCP001 – Optional Hidden Winch Control Box Mount Install Instructions

PART LIST

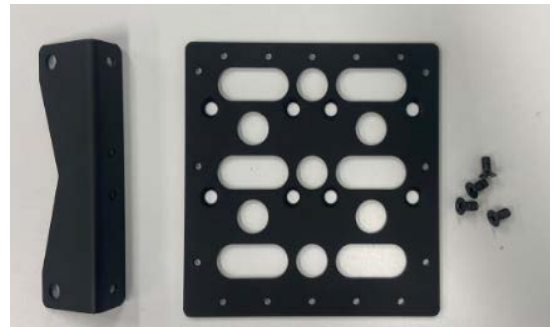
<p>1. Bracket Mounting Winch Control Box</p>  <p style="text-align: right;">QTY-1</p>	<p>2. Plate Mounting Winch Control Box</p>  <p style="text-align: right;">QTY-1</p>	<p>3. Spacer (M8x20mm)</p>  <p style="text-align: right;">QTY-2</p>
<p>4. Hex Socket Head Bolt M8x35mm</p>  <p style="text-align: right;">QTY-2</p>	<p>5. Countersunk Pan Head Bolt M6x12mm</p>  <p style="text-align: right;">QTY-2</p>	<p>6. Dome Head Bolt M5x16mm</p>  <p style="text-align: right;">QTY-4</p>

WWBCP001/180822

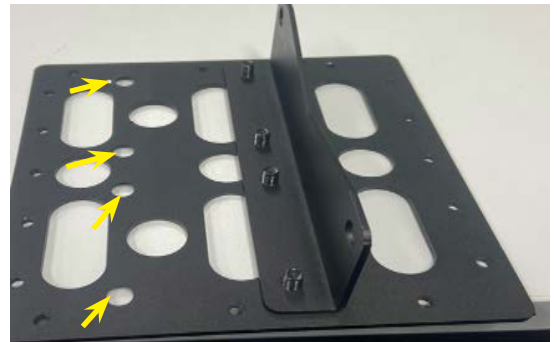


WWBCP001 – Hidden Winch Control Box Mount Install Instructions

1. Before installation, check the winch control box mount application is compatible with your vehicle.



2. Select the desired mounting position. The top plate can be bolted into multiple positions depending on space.



3. Once the chosen position is found, screw the top and side bracket together using the hardware supplied.

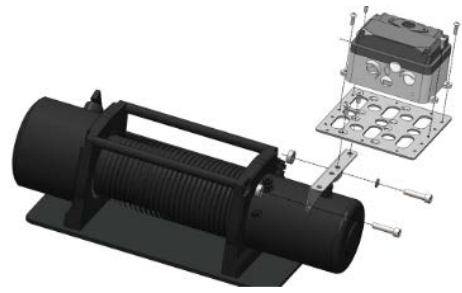


WWBCP001/050822



4. Remove 8mm side mounted Allen keys bolts and with the hardware supplied bolt the side bracket to the winch using the supplied spacer kit.

NOTE: Mount can bolt over electrical motor or gearbox side.

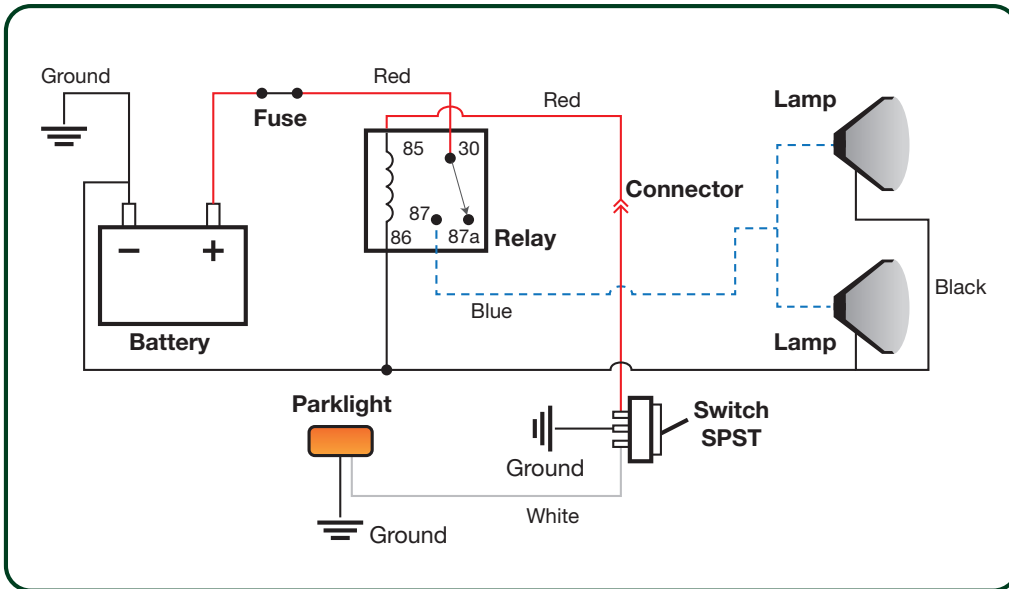


5. The electrical control box also has multiple mounting positions. Once the desired position is found, bolt down using supplied hardware.

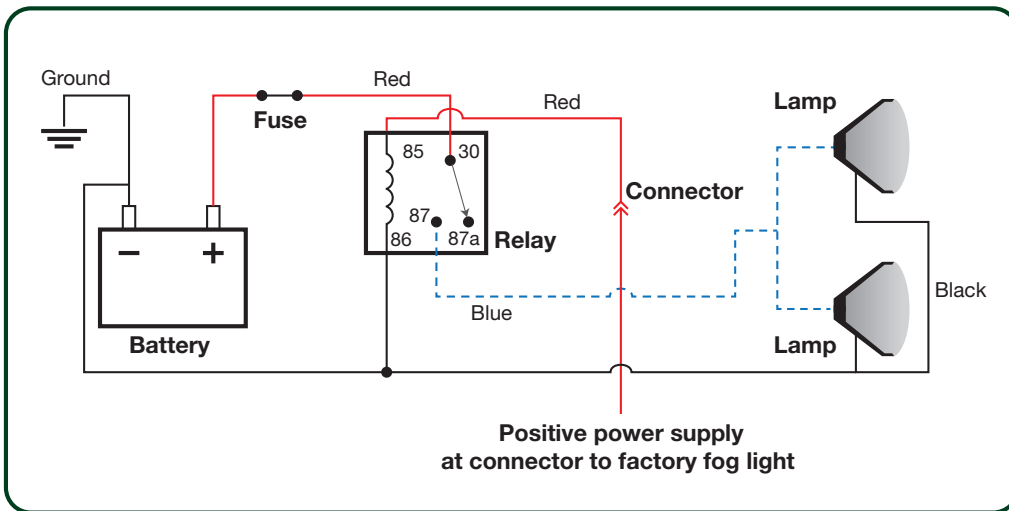


Wiring Diagrams

FOG LIGHTS



WITHOUT FACTORY FOG LIGHTS



Once Bull Bar is Installed

Ensure all bolts are tensioned correctly, it is good practice to do a vehicle pre trip check before heading away or every 10k kms. Visually inspect bull bar and hardware, retention bull bar hardware or when needed.

Check the operation of the blinkers, park lights, fog-lights and winch if installed and ensure that they are all functioning correctly. Make sure all electrical wiring is clear of sharp edges and is secured correctly.

If vehicle is fitted with parking sensors, radars and or front cameras check they are operating correctly. Some makes and models may need to return to the dealership for recalibration.

Stand back and admire your work.

