

Toyota Landcruiser Prado 150 Series MY2018+ (Second Facelift) Front Bar Fitting Instruction

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 bar 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.

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-TPR-150-18- PR-ASM1	Toyota Prado 150 18+ Predator Front Bar Weldment	
		OR	
1	FB-TPR-150-18- TOR-ASM1	Toyota Prado 150 18+ Toro Front Bar Weldment	
1	FB-TPR-150-18- PR-ASM2L	Toyota Prado 150 Series Impact Assy	
1	FB-TPR-150-18- PR-ASM2R	Toyota Prado 150 Series Impact Assy	
1	FB-TPR-150-18- PR-ASM3L	Toyota Prado 150 Tow Point Assy	



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1	FB-TPR-150-18- PR-ASM3R	Toyota Prado 150 Tow Point Assy	
1	U-0030	Prado 150 Predator- Center Under panel	
1	U-0029L	Prado 150 Predator- Side Under panel	
1	U-0029R	Prado 150 Predator- Side Under panel	
1	M-0014	DMax Predator Center Fairlead Mesh	
1	M-0014L	DMax Predator Side Mesh	H)
1	M-0014R	DMax Predator Side Mesh	AR
1	M-0002L	Light Cover Mesh	TERRE!



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1	M-0002R	Light Cover Mesh	
1	B-0185L	Toyota Style Fog Lamp Bracket LHS	
1	B-0185R	Toyota Style Fog Lamp Bracket RHS	
1	NPF-COM-SM- ASM0	Number plate flip asm Small	
1	B-0424L	Prado 150 Predator - Headlight Infill	
1	B-0424R	Prado 150 Predator - Headlight Infill	
1	B-00704	Prado 150 Predator — Pan Brace	
1	B-1054L	Prado 150 Corner infill	
1	B-1054R	Prado 150 Corner infill	
2	PWS-TOP-470	Pinch Weld PWS51T - Top Bulb Seal 470mm	No Image
2	PWS-SIDE-225	Pinch Weld PWS53S - Side Bulb Seal 225mm	No Image
2	TK-FB-THL-N80- 15	Tape Kit, 3M 5952, 2x 25x8mm	No Image
1	FB-TPR-150-18- PR-ADRCP	ADR Compliance Plate Prado 150 MY18+	CONTROL OF THE PROPERTY OF THE

Predator Small Parts – Contained in Small Parts Kit Bag

QTY.	PART NO.	DESCRIPTION
2	FB-TPR-150-18-PR-ASM4	Headlight Washer Plug Assy - Prado 150
10	M8 FLAT WASHER- BLACK ZINC	M8 FW- BLACK ZINC
4	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9 BLACK ZP
6	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25 BLACK ZP
14	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP
2	M8 X 30 HEX	Bolt Hex, M8X30X1.25, GR8.8 ZP
4	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm
6	M10 x 25	Bolt Hex, M10X25x[1.5], GR8.8 ZP
6	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
6	M10 FW LHD	WASHER, FLAT M10X28.5X2.5
2	M12X40x1.25	Bolt Hex, M12X40x1.25, GR8.8 ZP
18	M12 FW LHD	M12 FW Large Heavy Duty
8	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP
8	M12 Nyloc nut	M12 NYLOC NUT
2	M8 X 30 BHCS BLACK	SCREW, BUTTON HEAD CAP, M8X30X1.25
	ZINC	BLACK ZP
22	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
29	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9 BLACK ZP
3	M6x12 BHCS	SCREW, BUTTON HEAD CAP, M6X12X1 GR12.9 ZP
10	M6CN3MM	CAGE NUT M6x2.6-3.5
32	M6 FLAT WASHER BLACK ZINC	M6 FW BLACK ZP
8	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP
8	M8 FLAT WASHER	M8 FW
4	M5X15 BHCS	SCREW, BUTTON HEAD CAP, M5X15X0.8 GR12.9 ZP
4	M5 FLANGE NUT	Flange Nut, M5x0.8 G8.8 ZP
4	M5 Flat washer	M5 FW
4	SPFM18	Clip, 18mm Hole, Black Nylon, Essentra Components SPFM18

Torro Small Parts Kit – Contained in Small Parts Kit Bag

QTY.	PART NO.	DESCRIPTION
2	FB-TPR-150-18-PR- ASM4	Headlight Washer Plug Assy - Prado 150
14	M8 FLAT WASHER- BLACK ZINC	M8 FW- BLACK ZINC
4	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9 BLACK ZP
10	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25 BLACK ZP
14	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP
2	M8 X 30 HEX	Bolt Hex, M8X30X1.25, GR8.8 ZP
4	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm
6	M10 x 25	Bolt Hex, M10X25x[1.5], GR8.8 ZP
6	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
6	M10 FW LHD	WASHER, FLAT M10X28.5X2.5
2	M12X40x1.25	Bolt Hex, M12X40x1.25, GR8.8 ZP
18	M12 FW LHD	M12 FW Large Heavy Duty
8	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP
8	M12 Nyloc nut	M12 NYLOC NUT
2	M8 X 30 BHCS BLACK	SCREW, BUTTON HEAD CAP, M8X30X1.25
	ZINC	BLACK ZP
22	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
29	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9 BLACK ZP
3	M6x12 BHCS	SCREW, BUTTON HEAD CAP, M6X12X1 GR12.9 ZP
10	M6CN3MM	CAGE NUT M6x2.6-3.5
32	M6 FLAT WASHER BLACK ZINC	M6 FW BLACK ZP
8	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP
8	M8 FLAT WASHER	M8 FW
4	M5X15 BHCS	SCREW, BUTTON HEAD CAP, M5X15X0.8 GR12.9 ZP
4	M5 FLANGE NUT	Flange Nut, M5x0.8 G8.8 ZP
4	M5 Flat washer	M5 FW
4	SPFM18	Clip, 18mm Hole, Black Nylon, Essentra Components SPFM18
2	B-0429	Prado Torro - Antenna Bracket



The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Supplies
Metric Socket Set 8-	Electric Drill	Double Sided Adhesive
19mm	6mm Drill Bit	Tape
Socket Extension Bar		Panel Stand or Soft
Metric Spanner Set 10-	Air Hacksaw or Angle	Blanket
19mm	Grinder	Cable Ties
Hex (Allen) Key Set 4-		Masking Tape
6mm	Electric/Air Impact	Black Automotive
Trim Puller Tool	Driver (Optional)	paint
Flat Blade Screwdriver		Scotch Brite or Fine
set		Sandpaper
Phillips Head		Automotive
Screwdriver set		Sealant/Adhesive
Utility Knife		Bucket
Side Cutters		Hose Clamp
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.

Hearing Protection	Always wear ear protection when using power tools.
Eye Protection	Ensure eye protection is always worn when cutting or drilling.
Manual Handling	Do not attempt to lift bar assemblies or rock sliders on your own. Always use two people to lift or use mechanical Lifting aid such as hydraulic lifting trolley.
Vehicle Support	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.



2018+ Toyota Prado 150 Predator & Toro Front Bar



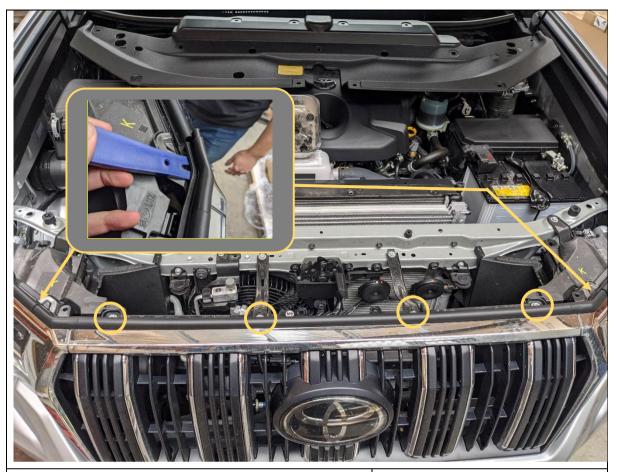
- 1. Open the Bonnet,
- 2. Remove clips securing the top radiator cowling. Press down on the center button of clip to unlock, then remove clip with trim tool.
- 3. Retain all clips for reassembly

TOOLS REQUIRED

Trim Tool

FASTENERS

Retain Factory



- 4. Remove the 4x Bolts securing top of grille to body using 10mm socket.
- 5. Using Trim tool carefully lever out the seal over the top of the grille to headlight joint to uncouple the rubber seal.

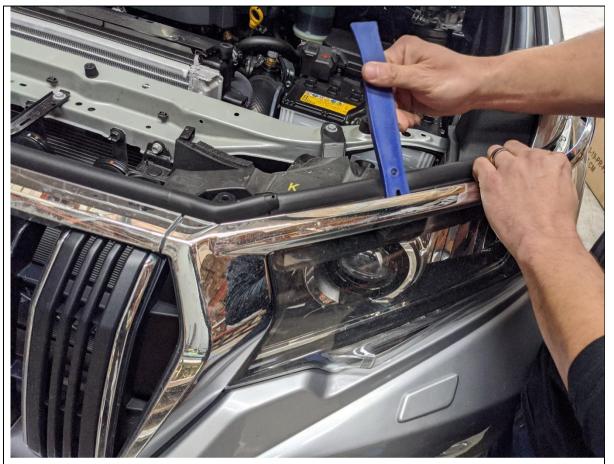
10mm socket

FASTENERS

Retain Factory



2018+ Toyota Prado 150 Predator & Toro Front Bar



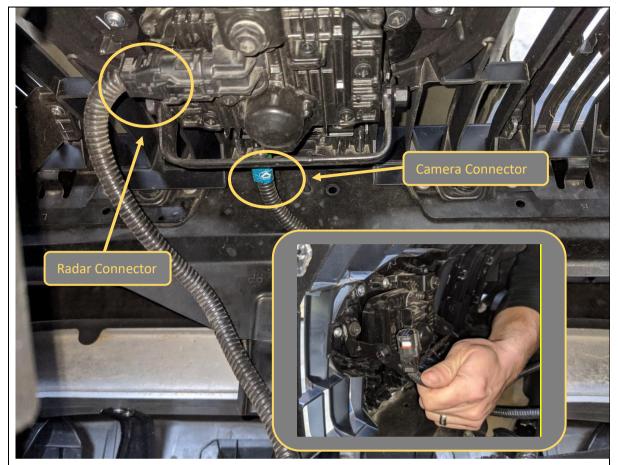
- Using a rag or plastic tool to protect the chrome finish, carefully pry the L shape headlight trim to release the clips.
- 7. Complete for both sides of the vehicle.

TOOLS REQUIRED

Trim Tool



2018+ Toyota Prado 150 Predator & Toro Front Bar



8. For Vehicles equipped with Adaptive cruise radar sensor and / or front camera, disconnect the electrical harness connectors located on the back of the sensors behind the grille.

TOOLS REQUIRED



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- 9. Using a trim tool pry open the clips securing the bottom of the grille to the bumper.
- 10. Remove the grille from the vehicle and set aside for refitment later

TOOLS REQUIRED

Trim Tool

2018+ Toyota Prado 150 Predator & Toro Front Bar



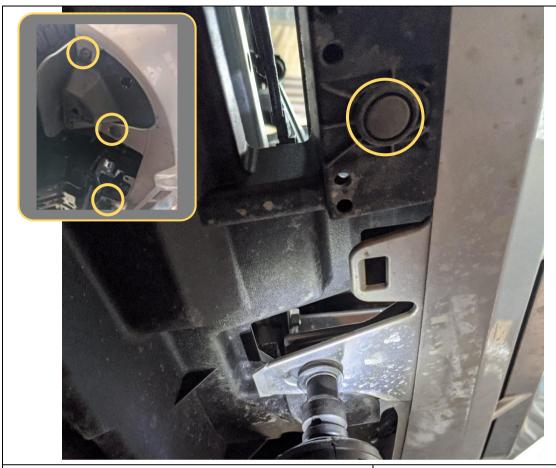
11. Remove the 4x Clips securing the bumper to the body crossmember

TOOLS REQUIRED

Trim Tool

FASTENERS

Factory Clips (Discard)



- 12. Remove the 10mm head screws securing the bumper to the underbody bash plate.
- 13. Remove the center lock clips that also secure the bumper.

10mm socket Trim Tool

FASTENERS

Factory Bolts (Discard)

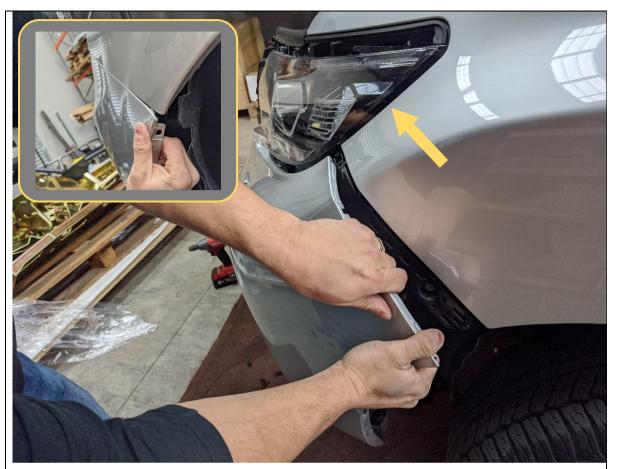


- 14. Remove the 10mm / Phillips screws securing bumper to the wheel arch liner.
- 15. Complete on both sides of the vehicles

Phillips screwdriver or 10mm Socket

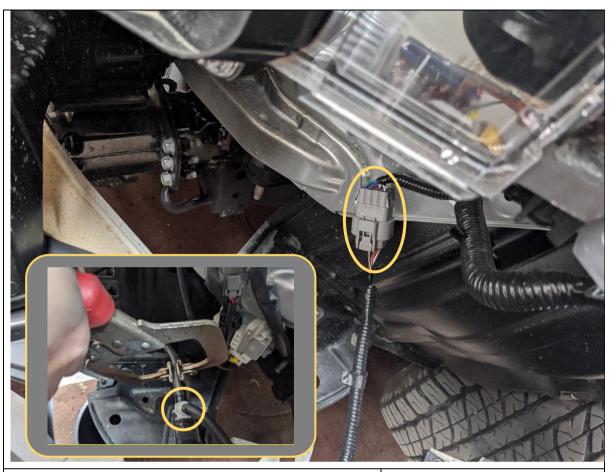


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16. Starting from the wheel arch, carefully pull the bumper away from the body of the vehicle to release the clips.

TOOLS REQUIRED



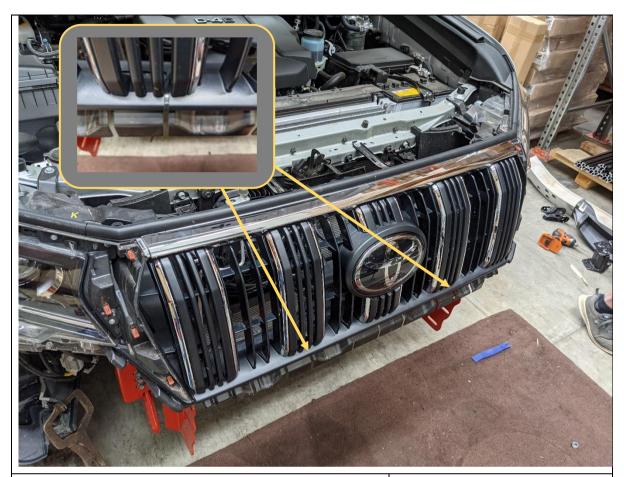
- 17. Disconnect the main electrical harness, located on the LHS of vehicle under headlight.
- 18. For vehicles equipped with headlight washers, disconnect the headlight washer hose at the quick connect fitting.

If there is any washer fluid in the reservoir it will spill out. Have a bucket on hand to drain the washer fluid or use a hose clamp to prevent the fluid from leaking

19. Once both are disconnected continue removing bumper. Once all clips are released, carefully lift the bumper from the car and set aside on a soft surface.

TOOLS REQUIRED

Bucket or Hose Clamp



- 20. Re-Fit grille to vehicle, Secure the top of grille using the factory fasteners removed earlier.
- 21. Ensure the grille is located correctly on the locating lugs just above the bolt hole.
- 22. Secure the bottom of the grille using cable ties around the bumper support cross member as shown.

10mm Socket Cable Ties

FASTENERS

Re-Use Factory



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- 23. Disconnect the Fog light harness from the fog light.
- 24. Remove the fog lights from the bumper, by removing the three Philips head screws.
- 25. Remove both the electrical harness, and headlight washer pipes from the bar, by prying out the clips using trim tool.
- 26. Complete on both sides of bumper.

TOOLS REQUIRED

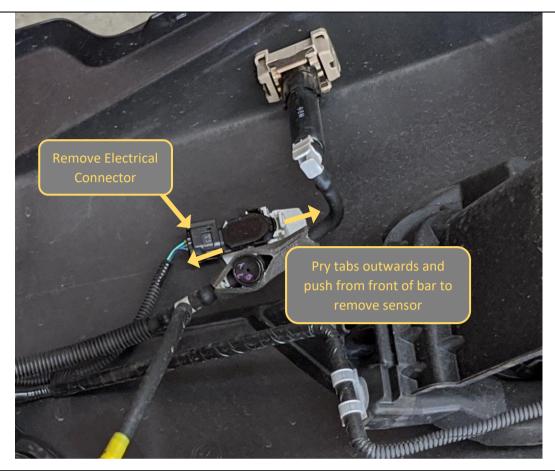
Phillips head Screwdriver Trim tool

FASTENERS

Discard Factory Screws



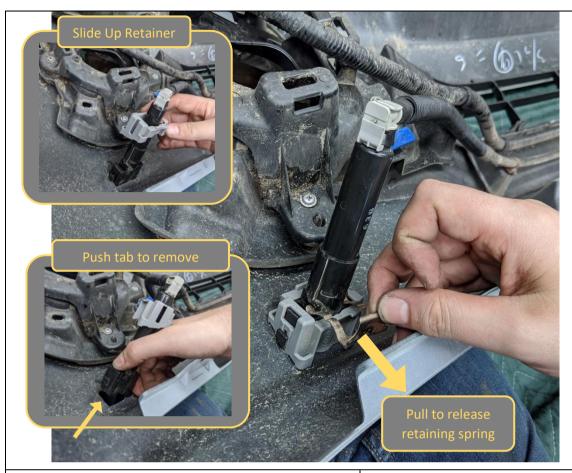
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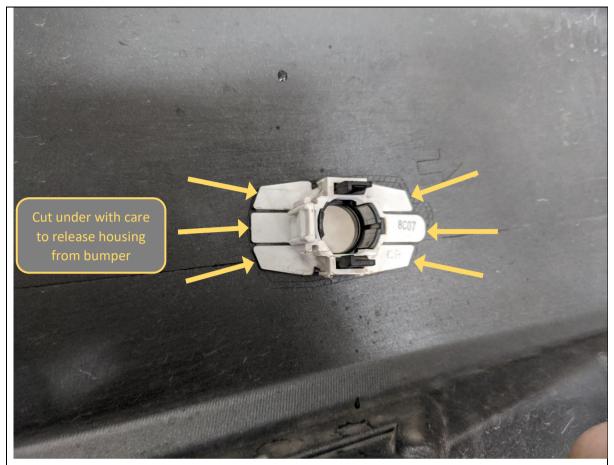
- 27. If car equipped with parking sensors Disconnect the parking sensors from the loom by squeezing the tab, then pulling to disconnect the multi plug connector.
- 28. Pry the two grey retaining tabs on the sensor housing outwards whilst applying pressure to the face of the sensor from the front side of the bumper. The sensor should release from the housing. Remove from the rear side of the bumper.

Take care to ensure the rubber isolation rings remain in place with the sensor

TOOLS REQUIRED



- 29. If vehicle is equipped, remove headlight washers from the bumper. Start by disconnecting the supply hose.
- 30. Release the retaining spring by firmly pulling it as shown in the image.
- 31. Next slide up the plastic retainer.
- 32. Once loose pull on the small retaining tab on the side of the washer assembly to remove.

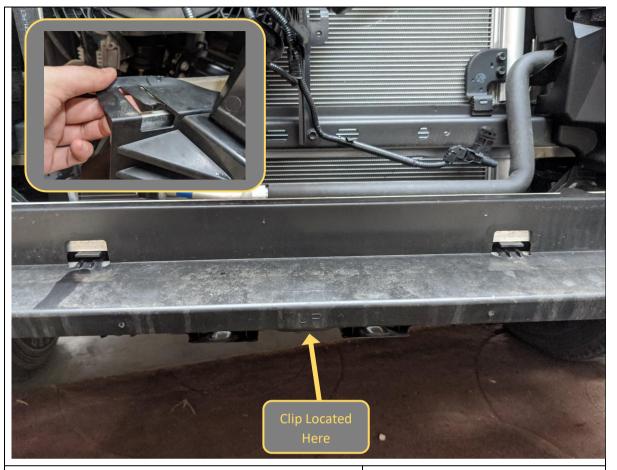


- 33. Remove the sensor housing from the bumper for refitment to the bar.
- 34. Using a utility knife and trim tool carefully cut through the adhesive under the grey parts of the sensor housing and pry it from the bumper.
 - Heating up the surface slightly with a heat gun or hairdryer will make things easier. Take care not to overheat and melt things though.
- 35. Set aside housings taking care to note the correct positions for refitment.

Utility Knife Trim Tool

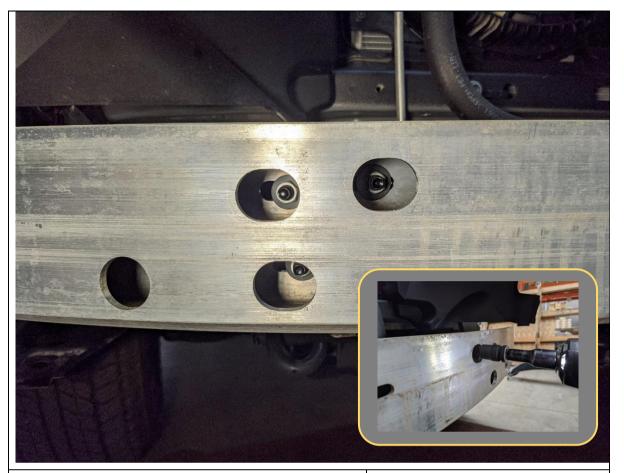


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- 36. Remove the Plastic covering the impact beam.
- 37. The plastic is secured by 3x molded clips in the front face, and clips on either end of the beam
- 38. Remove and set aside the plastic impact beam.

TOOLS REQUIRED

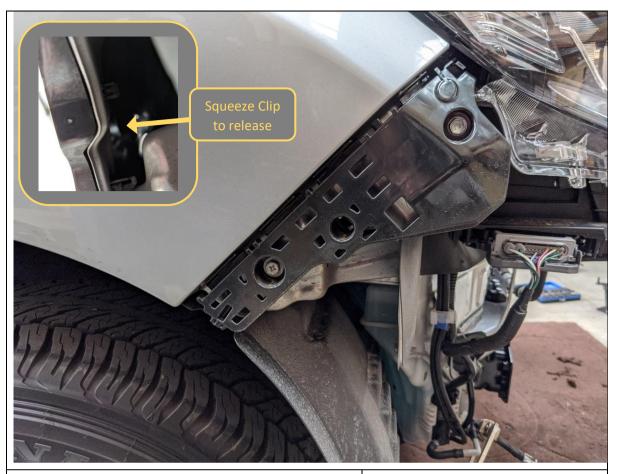


- 39. Remove the 6x 14mm head Nuts holding the impact beam to the impact beam brackets.
- 40. Remove and set aside the aluminum impact beam.

14mm Socket Extension Bar

FASTENERS

6x 14mm Head factory Flange Nuts



41. Remove the plastic bumper retainers by removing the Philips head and 10mm head screw, then prying out the large clip from behind using trim tool

TOOLS REQUIRED

Phillips head screwdriver 10mm Socket Trim Tool

FASTENERS

Phillips Head screw.



- 42. Remove the plastic bumper retainers under the headlight by removing the 2x Philips head screws.
- 43. Complete on both sides of the vehicle.

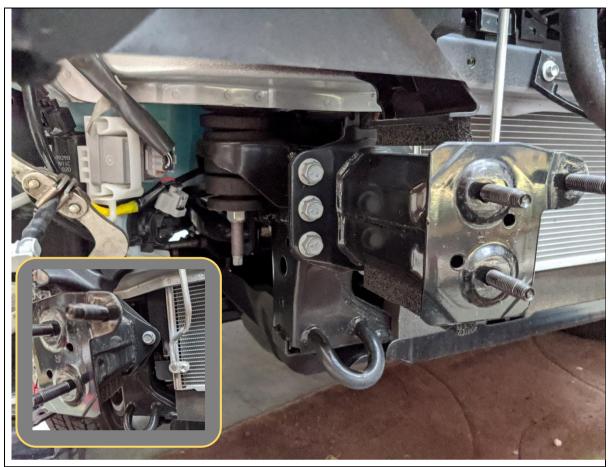
Phillips head screwdriver

FASTENERS

Phillips Head screw.
Discard



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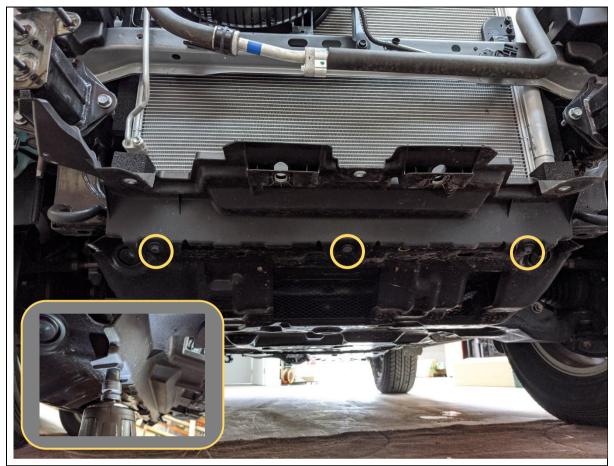
- 44. Remove Steel impact beam mounts by removing the 5x 14mm head flange bolts on each side.
- 45. Retain bolts for fitment of bullbar mounts.

TOOLS REQUIRED

14mm Spanner / Socket

FASTENERS

14mm Head Factory Flange Bolts

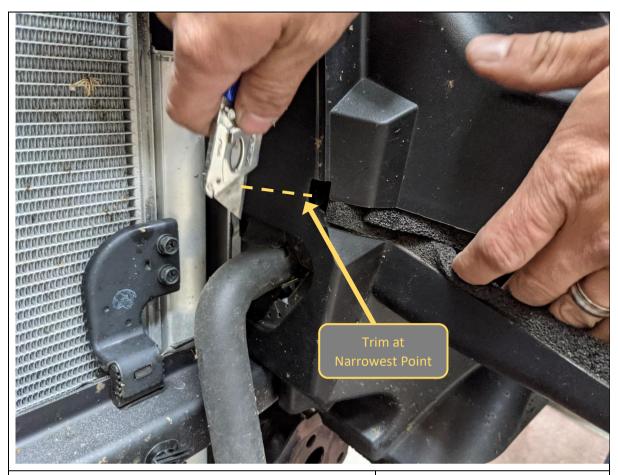


- 46. Remove the Plastic undertray, by removing the 2x10 mm head factory bolts and center clip.
- 47. Retain bolts for fitment of bash plate.

10mm Socket

FASTENERS

10mm Head Factory Bolts



- 48. Plastic air guides need to be trimmed to allow clearance for the bullbar mounts.
- 49. Using a sharp utility knife or an air hacksaw, cut along the narrowest section of the guide as shown in the image.
- 50. Repeat for both sides of the vehicle. The RHS of vehicle is much easier to cut if it is removed from the vehicle. Air guide is secured with 1x clip

Utility knife Or Air Hacksaw



- 51. Loosely fit the Impact mounts to the chassis, re using the original factory flange Bolts.
- 52. Loosely fit the tow point to the chassis and impact mounts using M8x30 and M12x40x1.25 Bolts into captive nuts on chassis, and M10x30 Bolts, Washers and Flange Nuts to the impact bracket

Note: Captive threads in chassis can be tight. Ensure bolts are not cross threaded and drive in manually with socket. Do not tighten at this stage.

53. Leave bolts finger tight at this stage.

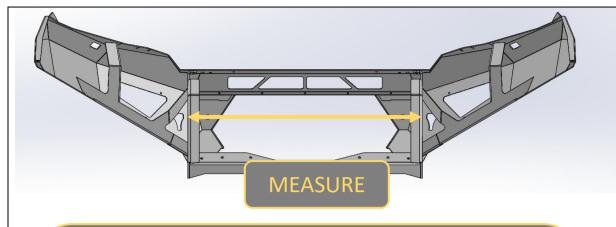
TOOLS REQUIRED

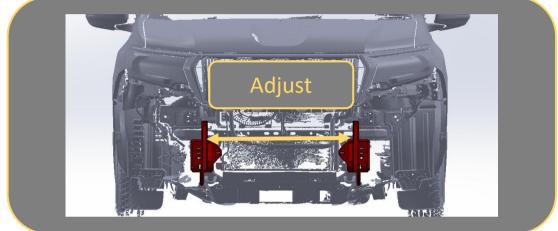
13,14,16 & 18mm Sockets

FASTENERS

1x M8x30 Hex Bolt 1x M12x40x1.25 Bolt 3x M10x30 Bolt 3xM10 Flat Washer 3xM10 Flat washers

Per side





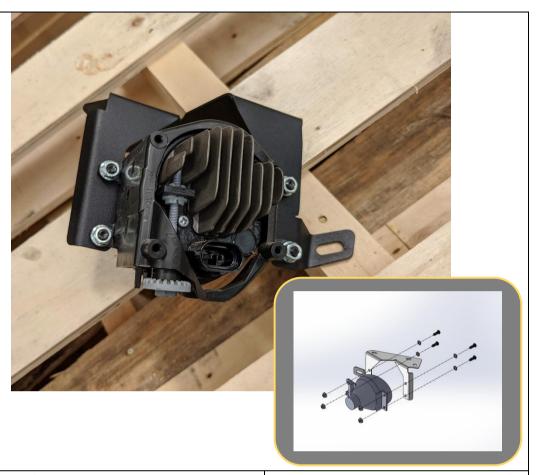
54. Measure Distance between outside edges uprights on bar using tape measure. Write distance below for reference if required.

Bar Upright Width = ____mm

- 55. Adjust mounts by sliding mounts on slots, such that distance between outside edges of mounts is approximately 2mm less than bar.
- 56. Secure and tighten mounts. Tighten bolts that secure the Impact assembly to chassis first, then tow point to chassis bolts and finally impact assembly to tow point bolts.

TOOLS REQUIRED

Tape measure

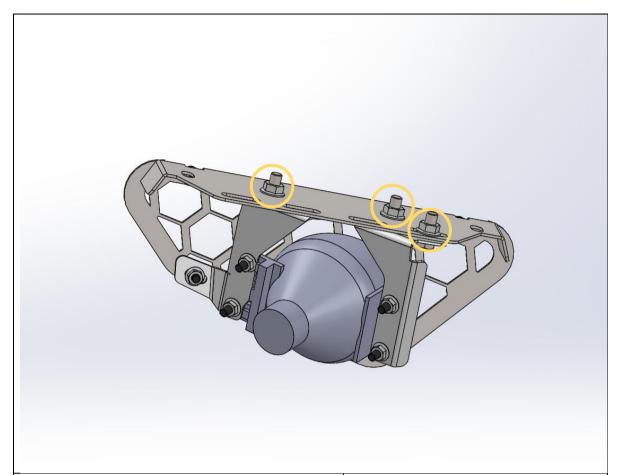


- 57. Re-Fit fog lamps to the Fog light brackets (B-0185L/R) using M6X16 Button head Bolts, Flat washers and Flange nuts from the Small Parts Kit.
- 58. Secure and tighten using 4mm Allen Key and 10mm Spanner

4mm Allen Key 10mm Spanner / Socket

FASTENERS

4x M6x16 BHCS – Black 4x M6 Flat Washer 4x M6 Flange Nut



- 59. Fit fog light bracket, with fog light in place to the Mesh panel using 3x M8x25, flat washers and flange nuts.
- 60. Secure and tighten using 13mm Spanner or socket.
- 61. Repeat for other side of bar.

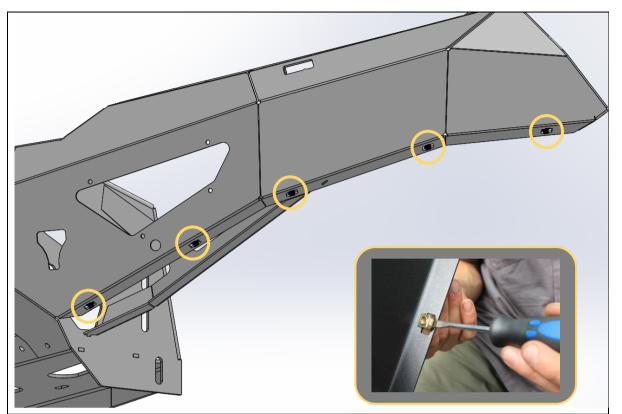
13mm Spanner / Socket

FASTENERS

3x M8x25 Hex 3x M8 Flat Washer 3x M8 Flange Nut



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62. Fit 5x Cage nuts from small parts kit to rectangular slots in bottom of wing.

Use a small flat bladed screwdriver to push the edge of the cage to engage with the slot to aid fitting.

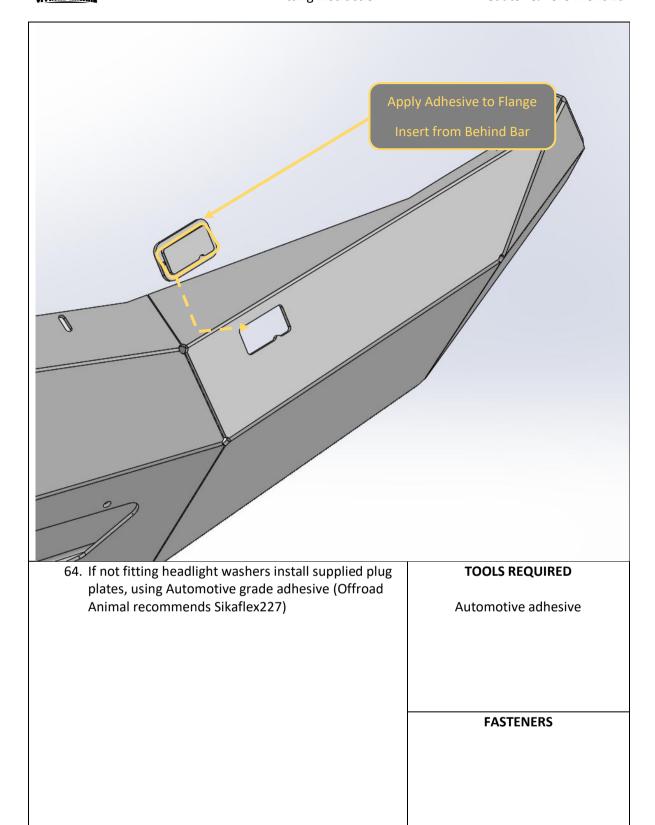
63. Repeat for other side of Bar

TOOLS REQUIRED

Small Flat Bladed Screwdriver

FASTENERS

5x M6 Cage Nut Per side





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- 65. If equipped, re-fit headlight washers to bar. Fitment procedure is reverse of removal
- 66. If the bar is not to be colour coded, paint the headlight washer covers black before refitting
- 67. Once fitted pull out the washer assembly with long nose pliers and adjust the washer nozzles to squirt towards the headlights, final adjustment can be performed when the bar is fitted to the car.

TOOLS REQUIRED

Long Nose Pliers Scotch Brite / Sandpaper Matte Black Paint

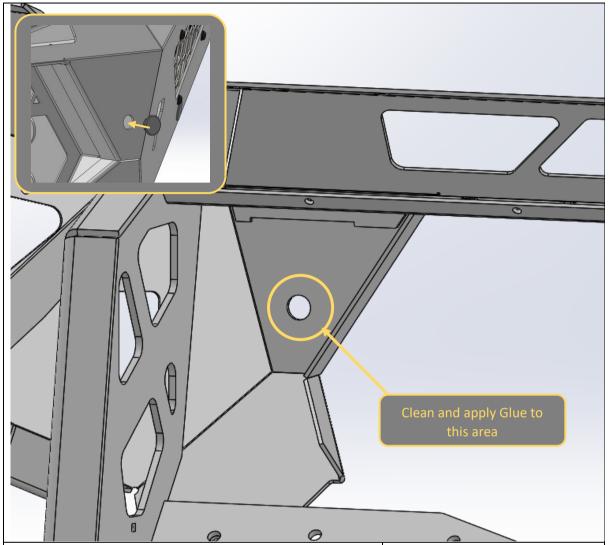
FASTENERS



- 68. Pre fit the headlight infill panels to the top face of the bar, using M5 Button head screws, M5 Flat washers, and M5 Flange nuts. Secure finger tight at this stage
- 69. Ensure the heads of the bolts are underneath and nuts on top as shown. This will make tightening on the vehicle much easier.

FASTENERS

4x M5x16 BHCS 4x M5 Washer 4x M5 Flange Nut



- 70. Re-fit parking sensors to the bar.
- 71. Clean area on back side of bar adjacent to sensor holes with isopropyl alcohol.
- 72. Apply a small amount of automotive grade adhesive (ORA recommends Sikaflex227) around the hole and glue the sensor housings in place, in their original positions. Hold in place with tape until glue sets.
- 73. Refit sensors to relocated housings once glue has set.
- 74. Re fit electrical harness and Headlight washer hose to bar. Secure using cable ties.
- 75. If parking sensors are not fitted, fit plastic cover plugs by pushing into hole.

Automotive adhesive

FASTENERS

Cable Ties



2018+ Toyota Prado 150 Predator & Toro Front Bar



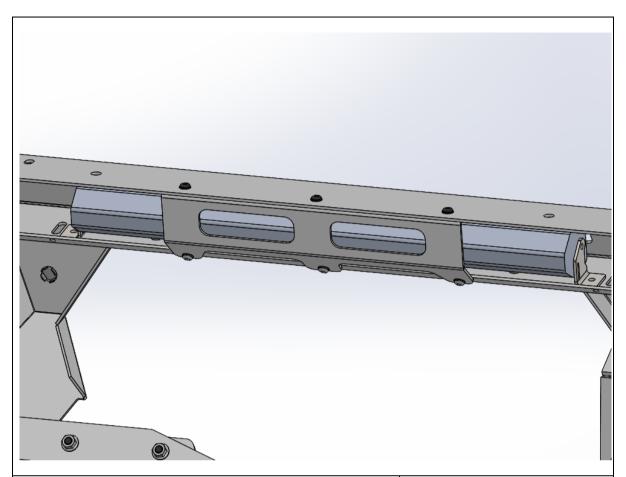
- 76. If fitting an integrated light bar, do so now.
- 77. The bar is designed to fit an Offroad Animal 22in or STEDI ST3K 21.5 inch light bar. If fitting this light bar, assemble bar with legs inward, and it will line up with the slots in the center gusset. Secure with M8 Fasteners supplied with the light bar.
- 78. The bar can accommodate most other "20 inch" size light bars.
- 79. If fitting driving lights to the bar this is also the most convenient time to do so.

TOOLS REQUIRED

Refer to light instructions

FASTENERS

Supplied with Light Bar



80. Fit the Pan Brace between the center gusset and pan using the M6x16 Button heads, washers and Nuts on top and M6x12 Button heads, washers, and Nuts on bottom.

TOOLS REQUIRED

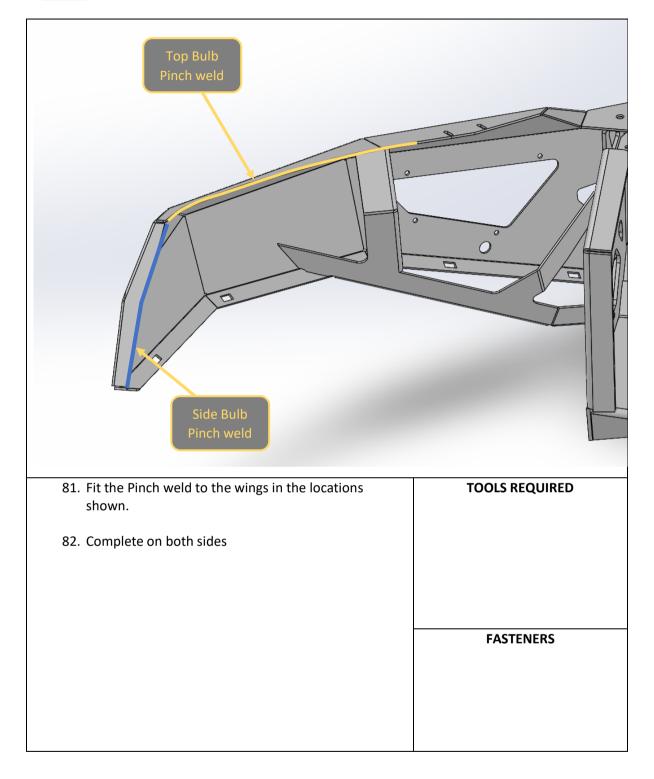
4mm Hex Key

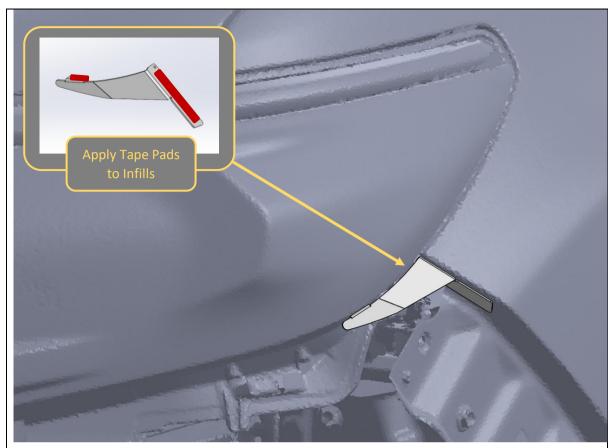
FASTENERS

3xM6x16 Black BHCS 3xM6X12 BHCS 6x M6 Black Washer 6xM6 Flange Nut



2018+ Toyota Prado 150 Predator & Toro Front Bar





- 83. Clean the underside of the headlight, end of fender and small corner infill brackets with isopropyl alcohol to ensure they are clean and ready for bonding.
- 84. Using scissors or a knife trim the supplied tape pads to size and fit to the small infill panels in the locations shown.
- 85. Remove the backing and bond to the headlight and fender panel in the location shown. Apply pressure to bond for 20-30 secs to ensure good adhesion
- 86. Repeat on both sides of the vehicle.

Scissors / Knife Isopropyl Alcohol

FASTENERS

Tape Pads



- 87. With assistance, either from another person, or a lifting trolley, lift the bar onto the mounts on the vehicle.
- 88. Secure with 4x M12x30 Bolts, Heavy Duty washers and M12 Nyloc Nuts per side, Finger tight at this stage.

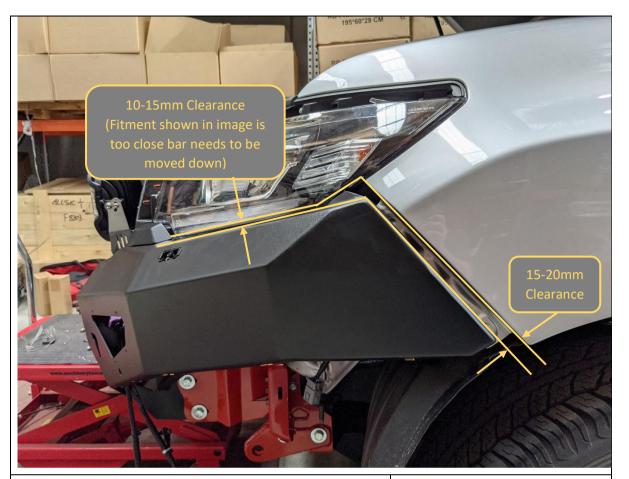
Lifting Trolley

FASTENERS

8x M12x30 Bolt 16x M12 Heavy Duty Large Washer 8x M12 Nyloc Nut



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89. With assistance from another person, align the bar with the edges of the vehicle. Adjust such that the clearances are neat and even side to side.

Acceptable range of clearances shown in image above.

IMPORTANT: It is the installer's responsibility to ensure clearances are set so that no part of the bar touches the vehicle. Remember that body is rubber mounted and will move relative to bar in use.

90. Once in position, tighten the M12 Bolts using socket and spanner. An impact driver may be used to speed up this process.

TOOLS REQUIRED

Lifting Trolley
19mm Socket and Spanner

FASTENERS

8x M12x40 Bolt 16x M12 Heavy Duty Large Washer 8x M12 Nyloc Nut



91. Align the headlight infills with the headlights. Ensure that the headlight infills sit **IN FRONT OF**, not underneath the headlights to avoid the infill panel touching the headlight.

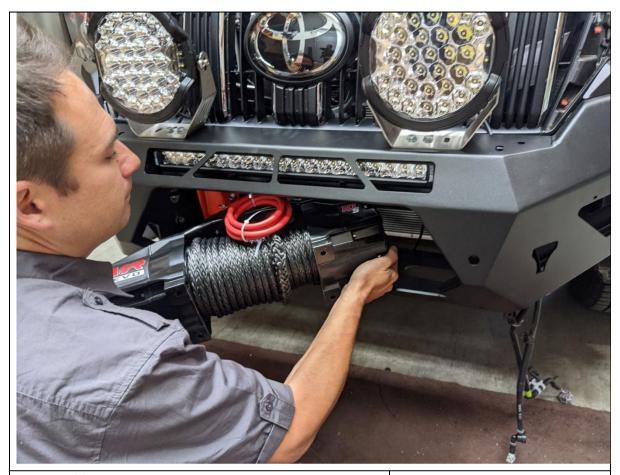
IMPORTANT: It is the installer's responsibility to ensure clearances are set so that no part of the bar touches the vehicle.

- 92. Once in position tighten the M5 button head bolts from underneath using a ball end Allen key.
- 93. Once tightened, re-fit chrome headlight trims.

TOOLS REQUIRED

3mm Allen Key (Ball end)

FASTENERS



- 94. If fitting a winch, do so now.
- 95. The bar is designed to fit most low mount winches, in foot down configuration. WARN ZEON 10 is largest winch confirmed to fit.
- 96. The control box can be mounted on top of the winch. Winches usually come with a bracket to allow this. Refer to winch manufacturer.
- 97. Ensure clutch handle will be accessible through access hole in front mesh panel. Refer to winch instructions regarding changing clutch handle location.

Refer to winch fitting instructions

FASTENERS

Supplied with winch



- 98. If Required, Fit winch fairlead to Mesh Fairlead Mount (M-0014). Use M10 or 3/8" Fasteners supplied with winch. The bar is only compatible with Hawse type fairleads.
- 99. Fit the Mesh Fairlead Mount (M-0014) to the center of the bar, using M8x16 Button head (Top), M8x20 Hex (Bottom) and M8 Flat washers.
- 100. Tighten fasteners using 13mm socket / spanner and 5mm Allen Wrench.
- 101. Fit Number plate flip kit to fairlead mount, using fasteners supplied in kit.

13mm Spanner 5mm Allen Wrench

FASTENERS

2x M8x16 Button Head 2x M8x20 Hex Head 4xM8 Flat Washer

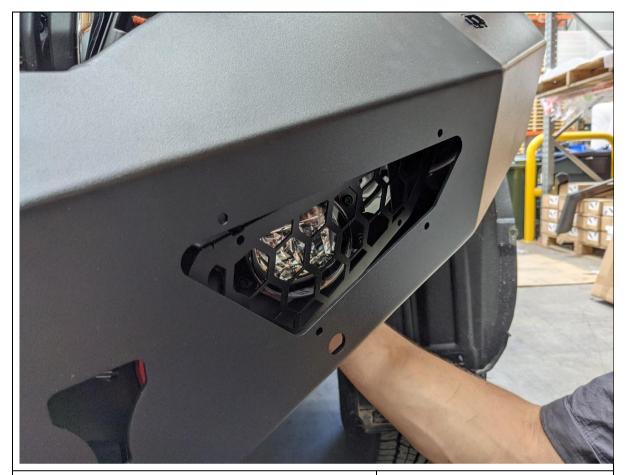


- 102. Fit Mesh Infill Panels (M-0015L/R). Use M8x16 Button head bolt and M8 flat washer into the captive thread in the bullbar.
- 103. Don't fit any bolts to bottom holes at this stage.
- 104. Tighten top fasteners using 13mm socket / spanner and 5mm Allen Wrench.

5mm Allen Wrench

FASTENERS

2x M8x16 Button Head 2x M8 black washer



105. Fit Light cover mesh to bar using 4x M6x16
Button head bolts, Flat washers and M6 Flange
Nuts

106. Secure and tighten using 4mm Allen Key and 10mm Spanner

TOOLS REQUIRED

4mm Allen Key 10mm Spanner / Socket

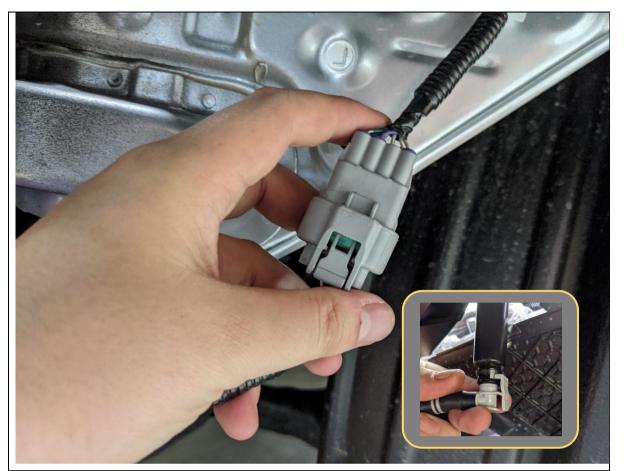
FASTENERS

4x M6x16 BHCS – Black 4x M6 Flat Washer 4x M6 Flange Nut

Per side



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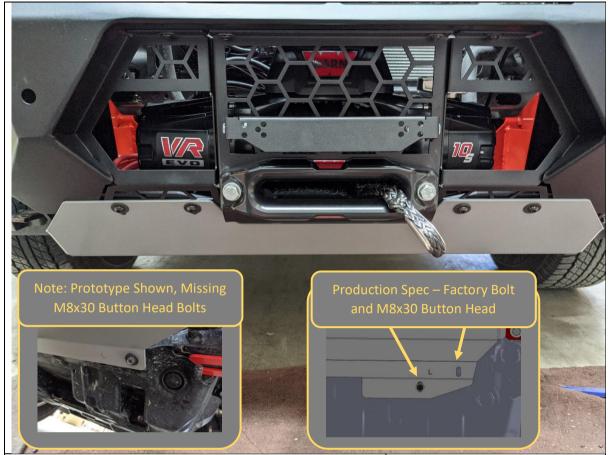
107. Re Connect Electrical Harness, fog lights and headlight washers. Make Sure to also reconnect Radar and Camera harnesses.

108. Replace upper radiator cowl using original clips.

TOOLS REQUIRED

FASTENERS

Factory clips (re-use)

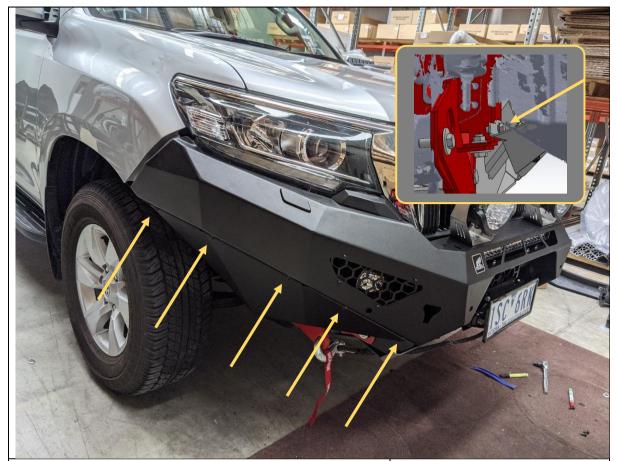


- 109. Fit Center Bash Plate (U-0030) using M8x20 button head and flat washer to front face. Ensure these fasteners pass through the side mesh panels also.
- 110. Remove 2x factory bolts securing the front of the factory metal underbody pan.
- 111. Secure back of Center Bash Plate (U-0030) using 2x 10mm large flange factory bolts removed earlier to the outside points and supplied M8x30 Button head and HD Flat washer into the thread in the chassis.
- 112. Tighten Bottom fasteners using 5mm Allen wrench and 10mm spanner.
- 113. Tighten front fasteners using 5mm Allen Wrench.

10, 13 mm Spanner 5mm Allen Wrench

FASTENERS

2x M8x30 Button Head 2x M8 HD Flat Washer 4x M8x20 Button Head 4xM8 Flat Washer



- 114. Fit Side Under panels (U-0029L/R) using, M6x16 button head and flat washer into the cage nuts placed earlier.
- 115. Secure back of side under panel to mount using M8x20 Hex Bolt, Flat washer and M8 Flange Nut.
- 116. Leave finger tight at this stage.

4mm Allen wrench

FASTENERS

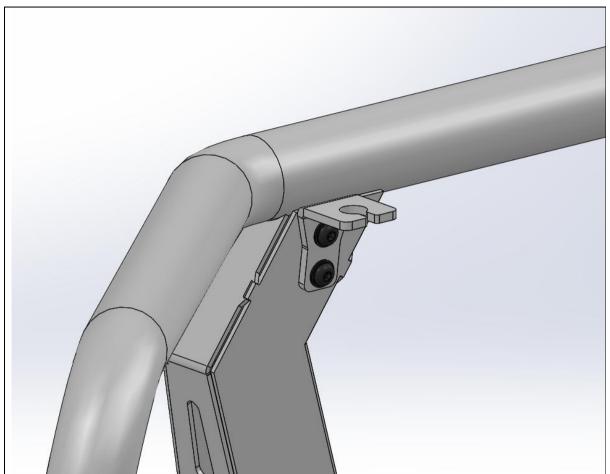
10x M6x16 Button Head 10x M6 Flat Washer 2x M8x25 Hex Head 2x M8 Flange Nut 2x M8 Flat Washer



- 117. Using the edge of the under panel as a guide mark the wheel arch liner, approximately 15mm beyond the intersection of the under panel.
- 118. Cut along line as marked using utility Knife
- 119. Tuck the wheel arch liner behind the flange on the under panel
- 120. Tighten all under panel bolts
- 121. Complete for other side of vehicle.

Utility Knife 13mm Spanner 4mm Allen Wrench

FASTENERS



- 122. **Toro only.** Fit antenna brackets to Toro uprights using M8x20 black button head bolts and black washers.
- 123. **Toro only.** Else fit the 2x M8x20 black button head bolts and black washers to the back of each bullbar upright, to protect nut threads in bar for future use.

5mm Allen Key

FASTENERS

2x M8x20 Button Head Screw 2x M8 Black Flat Washer



- 124. Check all Fasteners are tight.
- 125. Re-Fit number plate to number plate flip.
- 126. Fit the compliance plate in a visible location on the underside of the bar. We recommend placing it on the bottom of the centre bash plate.
- 127. Head Bush and Enjoy your newly protected Prado!

For contact details see www.offroadanimal.com