

ISUZU MU-X MY2021 - 2024 PREDATOR & TORO FRONT BAR

IMPORTANT! – READ BEFORE INSTALLATION

- When installed in accordance with these instructions, the front protection bar does not affect the operation of the vehicle's 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-IMX-RJ-21- PR-ASM1	Isuzu MUX Predator Welded Bar Assy	
		OR	
1	FB-IDM-RJ-21- TOR-ASM1	Isuzu MUX Toro Welded Bar Assy	
1	FB-IDM-RG-21- PR-ASM2R	DMAX IMPACT ASSY	
1	FB-IDM-RG-21- PR-ASM2L	DMAX IMPACT ASSY	
1	FB-IDM-RG-21- PR-ASM3R	ISUZU DMAX 21+ TOW POINT ASSY	

1	FB-IDM-RG-21- PR-ASM3L	ISUZU DMAX 21+ TOW POINT ASSY	
1	U-0036	Isuzu DMAX 2021+ Predator Bash Plate	
1	U-0037L	Isuzu DMAX 2021+ Predator Side Underpanel	
1	U-0037R	Isuzu DMAX 2021+ Predator Side Underpanel	
1	U-0041	DMAX 21+ Supplementary Underpanel	
1	M-0014	DMax Predator Center Fairlead Mesh	
1	M-0015L	DMax Predator Side Mesh	
1	M-0015R	DMax Predator Side Mesh	

1	B-0644R	Isuzu MUX 2021+ Fog Light Bracket	
1	B-0644L	Isuzu MUX 2021+ Fog Light Bracket	
1	M-0002L	Light Cover Mesh	
1	M-0002R	Light Cover Mesh	
1	B-0640	Isuzu MUX 2021+ Predator Center Infill Panel	
1	NPF-COM-SM- ASM0	Number plate flip asm Small	
4	CPHP035	Plastic Hole Insert, 22MM, Black, Tigerlink Hardware CPHP035	
2	PWS-SIDE-290	Pinch Weld PWS53S - Side Bulb Seal 290mm	N/A
2	PWS-TOP-420	Pinch Weld PWS51T - Top Bulb Seal 420mm	N/A
1	FB-IMX-RJ-21- PR-ADRCP	ADR Compliance Plate MUX 21+	ENTER OFFICIAL PRIMARY TO ANYONE COURT BRIDE NO. TO HEADER OF THE ANYONE TO COURT PART NOT. THE HEADER OF THE ANYONE TO THE ANYONE THE ANY COURT ANY COMMITTED THE ANYONE THE ANY COMMITTED THE ANYONE THE ANY COURT ANY COMMITTED THE ANYONE THE ANY COURT ANY COMMITTED THE ANYONE THE ANY COURT ANY COMMITTED THE ANYONE THE ANY COURT

Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description	
10	M10 x 30	Bolt Hex, M10X30x[1.5], GR8.8 ZP	
6	M10 FLANGE	Flange Nut, M10x1.5 G8.8 ZP	
	NUT		
10	M10 Flat	M10 FW	
	Washer		
2	FB-IDM-RG-21-	DMAX 21+ Tow Point Nut Plate	
	PR-ASM4		
18	M12 FW LHD	M12 FW Large Heavy Duty	
12	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP	
4	M12 FLANGE	Flange Nut, M12x1.75 G8.8 ZP	
	NUT		
6	M12 Nyloc nut	M12 NYLOC NUT	
10	M8 FLAT	M8 FW- BLACK ZINC	
	WASHER- BLACK		
	ZINC		
4	M8 X 16 BHCS	SCREW, BUTTON HEAD CAP,	
	BZP	M8X16X1.25 GR12.9 BLACK ZP	
6	M8 X 20 BHCS	SCREW, BUTTON HEAD CAP,	
	BLACK ZINC	M8X20X1.25 BLACK ZP	
12	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP	
10	M6CN3MM	CAGE NUT M6x2.6-3.5	
32	M6x16 BHCS	SCREW, BUTTON HEAD CAP, M6X16X1	
	BLACK ZINC	GR12.9 BLACK ZP	
32	M6 FLAT	M6 FW BLACK ZP	
	WASHER BLACK		
22	ZINC	Floore Next MCv4 CO 0.7D	
2	M6 FLANGE NUT NP-COM-M10-	Flange Nut, M6x1 G8.8 ZP M10 LOLLYPOP NUT PLATE 190MM	
	190-ASM0		
8	M5 FLANGE NUT	LONG	
8	M5 Flat washer	Flange Nut, M5x0.8 G8.8 ZP M5 FW	
	M5X15 BHCS	SCREW, BUTTON HEAD CAP,	
8	IAIDVID DI ICO	M5X15X0.8 GR12.9 ZP	
4	M8 FLAT	M8 FW	
-	WASHER	1010 1 00	
4	M8 X 20 HEX	Bolt Hex, M8X20x1.25, GR8.8 ZP	
2	B-0508	DMAX 21+ Headlight Securing Bracket	
	L 0300	DIVIAN 211 HEadinghit Securing DidCREC	

Toro Parts – In Addition to Above

Qty	Part Number	Description
2	B-0523	Toro Antenna Bracket - 90 Degree
4	M8 X 20 BHCS	SCREW, BUTTON HEAD CAP,
	BLACK ZINC	M8X20X1.25 BLACK ZP
4	M8 FLAT	M8 FW- BLACK ZINC
	WASHER- BLACK	
	ZINC	

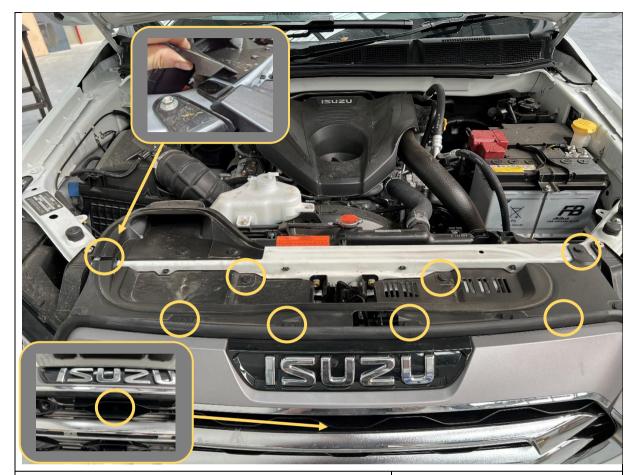
The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
Metric Socket Set 8-	Air Hacksaw or Angle	Panel Stand or Soft
19mm	Grinder	Blanket
Socket Extension Bar		Cable Ties
Metric Spanner Set 10-	Electric/Air Impact	Sandpaper
19mm	Driver (Optional)	Automotive
Torx Drivers T25-T30		Hose Clamp
Hex (Allen) Key Set 4-		
6mm		
Trim Puller Tool		
Flat Blade Screwdriver		
set		
Phillips Head		
Screwdriver set		
Utility Knife		
Side Cutters		
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.

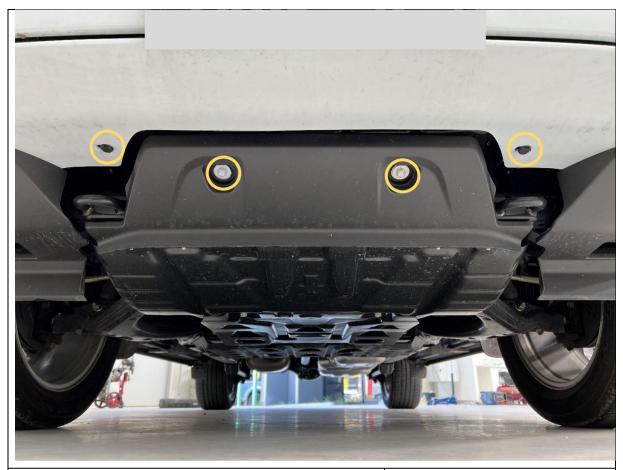


- 1. Open the Bonnet.
- 2. Remove the 4x Clips securing the top of the grille by levering up center part using small flat blade screwdriver.
- 3. Remove Phillips head screw securing bottom of grille underneath "ISUZU" badge.
- 4. Remove the top portion of the grille from the car

Small Flathead Screwdriver Phillips Head screwdriver

FASTENERS

Retain Factory Clips and Screw



- 5. Remove the screws securing the plastic lower trim, using 10mm Socket / Spanner.
- 6. Remove the clips securing the bottom edge of the bumper, using a trim tool.

10mm socket / spanner Trim tool

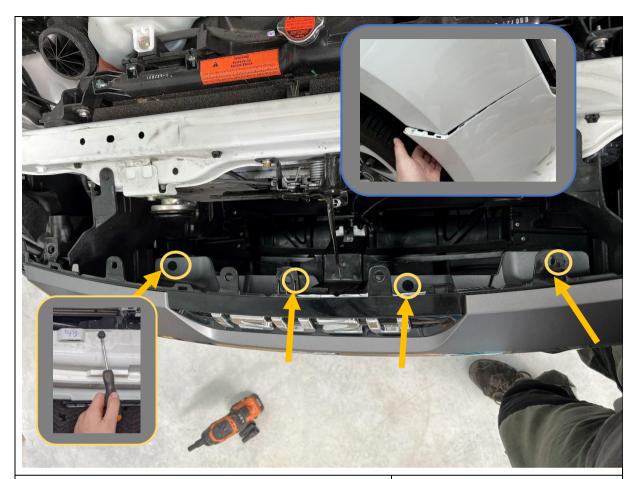


- 7. Remove the clips on the underside of the wheel arch by the bumper to quarter panel seam, and under the bottom of the bumper near wheel as shown.
- 8. Remove using same technique as other clips.
- 9. Remove the 10mm nut securing bottom corner of bumper.
- 10. Repeat for other side of vehicle.

10mm socket Trim Tool

FASTENERS

Factory Clip and Nut

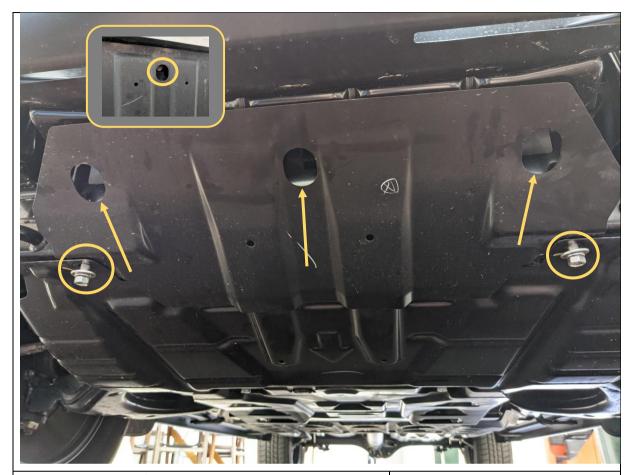


- 11. Reach in behind the top of the grille and remove the 4x clips securing the center of the bumper using small flat blade screwdriver to pry up the center section.
- 12. Release the bumper clips by pulling bumper away from bottom of headlights, starting from the outside and working in.
- 13. When bumper is loose, reach in and disconnect the fog light wiring harness located under the left hand headlight.
- 14. Remove bumper from car and set aside on soft blanket or panel stand.

Small flat blade screwdriver

FASTENERS

Factory Clips



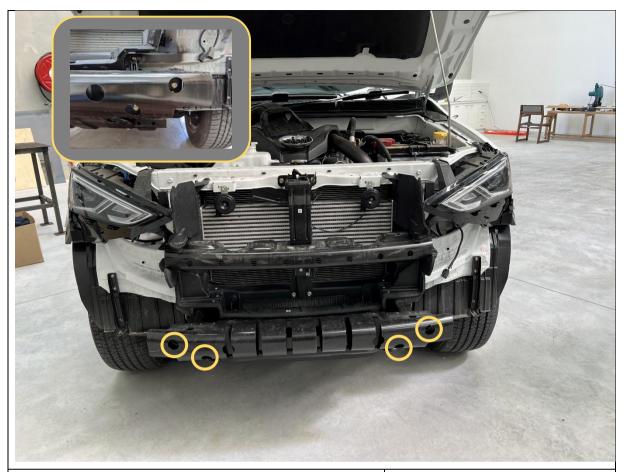
15. Remove the front skid plate by removing the 5x 14mm head bolts securing it to the chassis. Note 3x of the bolts are recessed into the skid plate, shown with arrows.

TOOLS REQUIRED

14mm socket Short extension bar

FASTENERS

Factory 14mm head bolts.
Retain for refitment

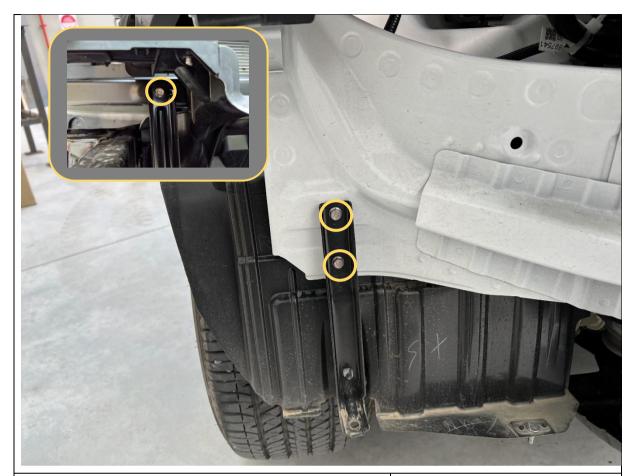


- 16. Remove the 4x 14mm head bolts that secure the impact beam to the chassis.
- 17. Remove and discard the impact beam. Retain bolts for fitting of mount.

14mm socket

FASTENERS

Retain for re-fitment of mounts



- 18. Remove the 10mm bolts securing the bottom bumper supports.
- 19. Remove and discard the bumper supports.

10mm socket

FASTENERS

Factory 10mm head bolts
Discard



- 20. Remove the 10mm and Philips head screws securing the plastic bumper supports beside the headlights. Retain the screw that secures the bumper support to the headlight.
- 21. Remove the bumper supports, a firm tug will be required to release the clips.

 Discard
- 22. Fit the headlight support bracket between the fender and headlight. Re-use factory bolt to secure bracket to headlight and use M6x16 flat washer and flange nut to secure to fender.

IMPORTANT - DO NOT MISS THIS STEP!

23. Complete on both sides of vehicle

TOOLS REQUIRED

Phillips head screwdriver

FASTENERS

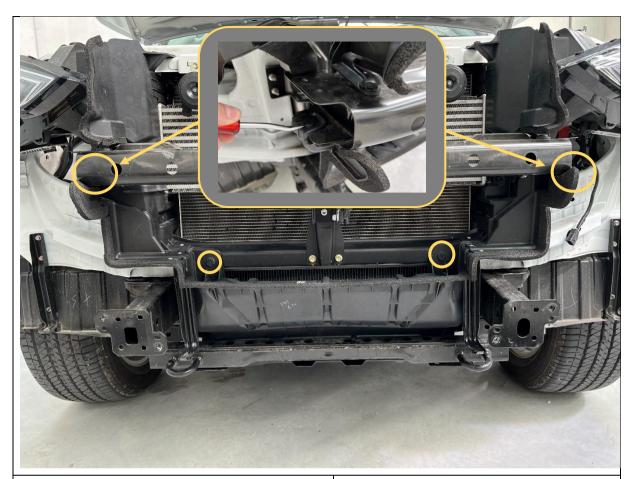
Factory Bolt.

1x M6x16 Button Head

1x M6 Flat Washer

1x M6 Flange Nut

Per side



24. Remove the lower plastic air guide, by removing the clips that secure it with a trim tool. Once removed, discard.

TOOLS REQUIRED

Trim Tool

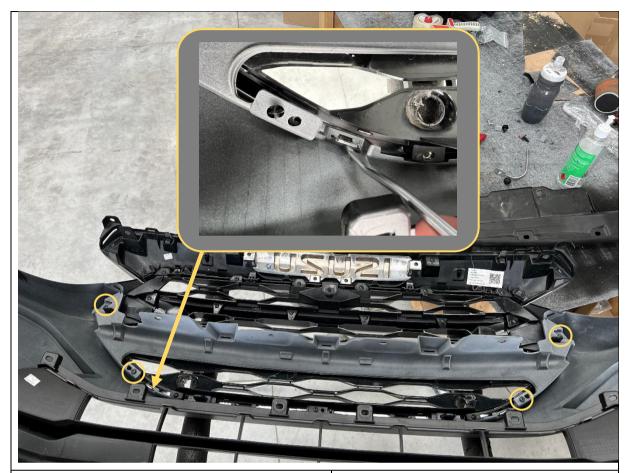


- 25. Unplug the electrical connectors from the fog light.
- 26. Remove the harness clips from the bumper using a trim tool.
- 27. Set aside harness for re-fitment to Offroad Animal Bar.
- 28. Remove fog light using Phillips head screwdriver.

Trim Tools
Phillips head screwdriver



- 29. If equipped, remove the parking sensors and parking sensor harness from the bumper.
- 30. First unplug the sensor, then pry apart the securing arms whist pushing sensor through bumper from front.
- 31. To remove housing squeeze the four tabs to release whilst pushing through from back of the bumper, removing the housing from the front.



- 32. Separate Grille from lower portion of bumper, by first removing the Phillips head screws securing the grille and bumper together.
- 33. Push in the center section of locking tabs with flat screwdriver to release.

Phillips screwdriver Trim Tool

FASTENERS

OE Philips head screws



- 34. Fit the fog light to the light mounting bracket supplied in the kit using supplied M6x16 button head screws, flat washers, and flange nuts.
- 35. Lights sit on the front side of the bracket. Take care to ensure the correct handed lights are re-fitted.

4mm Allen Key

FASTENERS

4x M6x16 Button Head Screw 4x M6Flat Washer 4x M6 Flange Nut

Per side



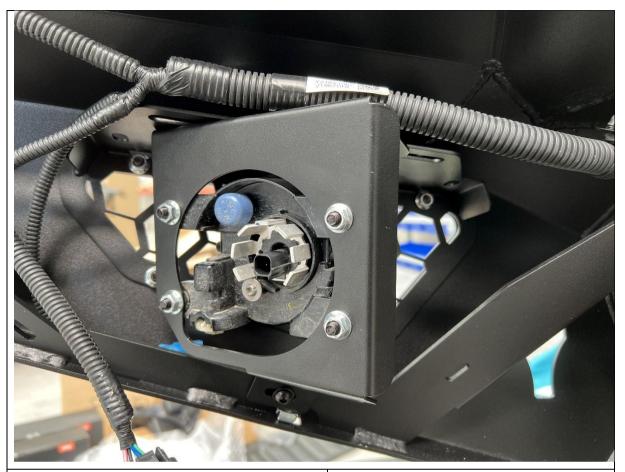
36. Fit the light bracket to the mesh cover panel using supplied M8x20 bolts, flat washers, and flange nuts.

13mm Spanner / Socket

FASTENERS

2x M8x20 Bolts, 2x M8 Flat washers 2x M8 Flange Nuts

Per Side



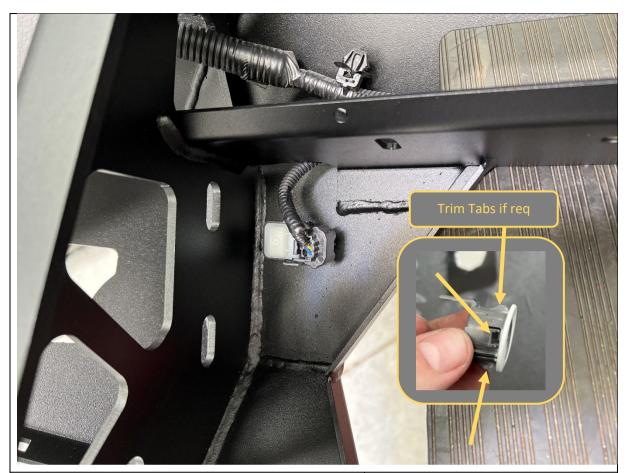
- 37. Insert the assembled light bracket / mesh panel into the wing of the bar.
- 38. Secure to wing brace with supplied M6x16 button head bolts, washers, and flange Nuts.

4mm Hex Key

FASTENERS

4x M6x16 Button Head Screw 4x M6 Flat Washer 4x M6 Flange Nut

Per side



- 39. If equipped, re-fit parking sensors to bar by relocating original housings to the holes on the bar.
- 40. If the sensor housings are too tight, trim the locking tabs as required to achieve a snug fit. This is because the bar is thicker than the plastic bumper and the locking tabs can't lock in properly.
- 41. Re install wiring harness to bar and plug in connectors for fog light and sensors.
 - It is OK to rotate sensors to allow space for fitment of the wiring harness connectors.
- 42. If parking sensors not equipped fit plastic blanking plugs to parking sensor holes on bar.

Utility Knife



- 43. If fitting an integrated light bar, do so now. Leave bolts loose at this stage to allow fitment of mesh panels.
- 44. The bar is designed to fit a Offroad Animal 22 inch light bar. If fitting this light bar, assemble bar with legs out, and it will line up with the slots in the center gusset. Secure with fasteners supplied with the light bar.

The bar can accommodate most other "20 inch" size light (20-22 inch long) bars

- 45. If fitting stealth top hoop or round lights do so at this stage.
- 46. Fit the center infill panel to the top pan of the bar using supplied M5 fasteners.

TOOLS REQUIRED

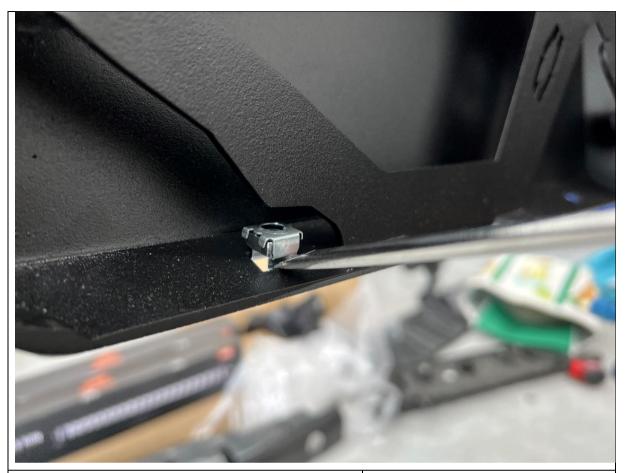
Refer to light bar instructions

3mm hex/Allen key

FASTENERS

Supplied with Light bar

5x M5x15 button head 5x M5 washer 5x M5 flange nut



47. Fit 5x cage nuts from small parts kit to rectangular slots in bottom of each wing.

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

TOOLS REQUIRED

Flat Blade Screwdriver

FASTENERS

10x M6 cage nut

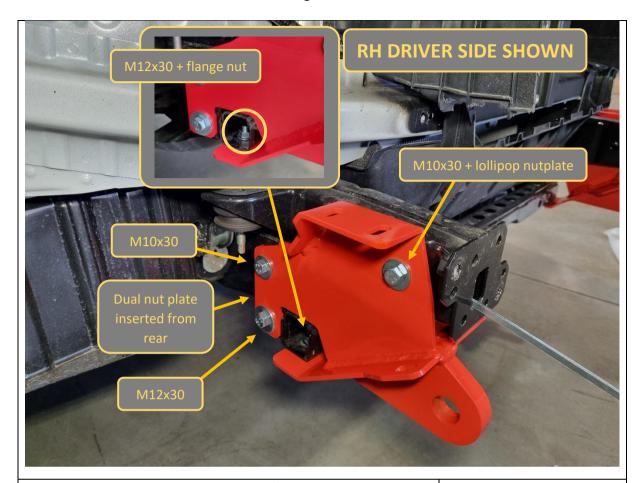


- 48. Fit the supplied lengths of side and top bulb pinch weld rubber to the outermost edge of the wing on each side of the bullbar.
- 49. Trim to length if required.

Side cutters

FASTENERS

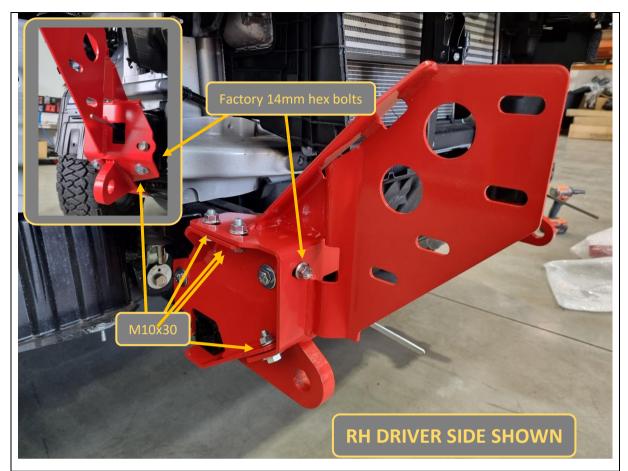
2x side bulb pinch weld rubber 2x top bulb pinch weld rubber



- 50. Fit the tow point to the outside of the chassis rail.
- 51. Loosely secure the bottom of the tow point to the horizontal chassis cross member with 1x M12x30 hex bolt, heavy-duty washer and flange nut.
- 52. Insert 1x M10 lollipop nutplate through the front opening of the chassis rail, then loosely secure to the tow point with 1x M10x30 hex bolt and heavy-duty washer.
- 53. Insert the dual nutplate through the back of the chassis drop member and loosely secure to the tow point with 1x M12x30 hex bolt, 1x M10x30 hex bolt and heavy-duty washers.
- 54. Repeat for other tow point.

FASTENERS

4x M10x30 hex bolt
4x M10 heavy-duty washer
4x M12x30 hex bolt
4x M12 heavy-duty washer
2x M12 flange nut
2x M10 lollipop nutplate
2x dual nutplate



- 55. Fit the impact assembly to the chassis and loosely secure using 2x factory 14mm hex bolts retained from the crash beam.
- 56. Secure to the impact assembly to the tow point using 4x M10x30 hex bolts, heavy-duty washers and flange nuts as shown.

Repeat for both sides of vehicle. Leave all bolts in the tow points and impact assemblies finger tight at this stage.

TOOLS REQUIRED

FASTENERS

4x factory 14mm hex bolt 8x M10x30 hex bolt 8x M10 heavy-duty washer 8x M10 flange nut



- 57. Mark Grille Cut locations as shown above on grille using paint pen or another visible marker.
- 58. Cut along marked lines using air hacksaw or angle grinder.

Panel Stand Marker Air Hacksaw



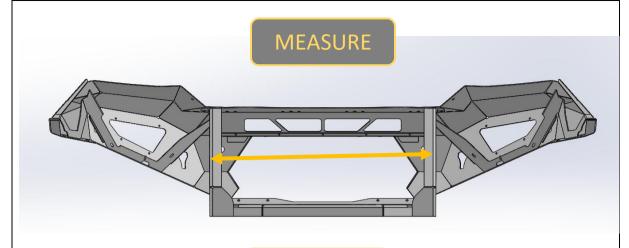
59. Re fit the grille section to the vehicle, re using the factory top panel, clips and screw.

TOOLS REQUIRED

Phillips Screwdriver

FASTENERS

Re Use Factory





60. Measure distance between bullbar uprights with tape measure. Note down this distance

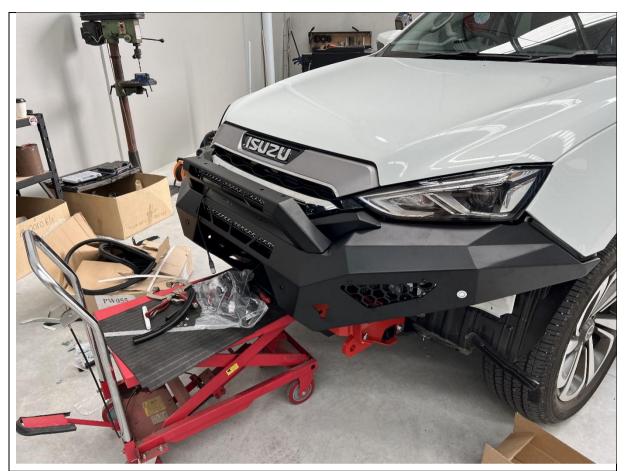
Bar Upright Width = _____mm

- 61. Measure and adjust the distance between the mounts on the vehicle to be 2-5mm greater than the distance measured.
- 62. Tighten all bolts securing impact assembly and tow point, and re check distance. Re adjust as required to achieve correct distance.

TOOLS REQUIRED

Tape measure

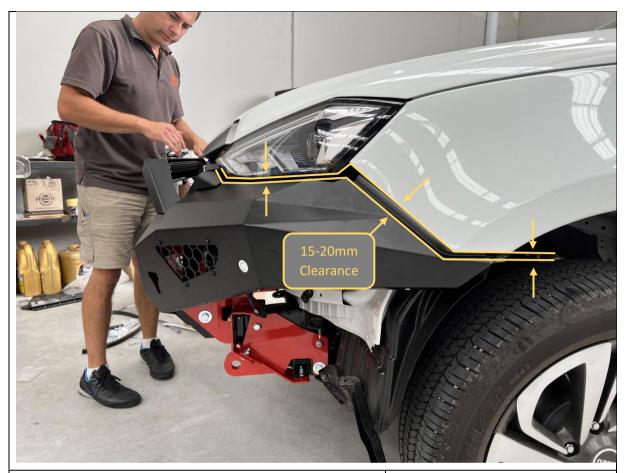
14mm socket/spanner 16mm socket/spanner 19mm socket/spanner



63. With assistance, either from another person or a lifting trolley, lift the bar onto the mounts on the vehicle.

TOOLS REQUIRED

Lift Trolley



- 64. Secure bar to mount with 4x M12x30 Bolts, heavy duty washers and 3x M12 Nyloc and 1x M12 flange nut per side. Finger tight at this stage.
- 65. 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. When happy, tighten the bolts with the flange nut to lock the bar in position.

Acceptable range of clearances shown in image above. Ensure sufficient clearances along whole top edge of bar.

66. Once in position, tighten the M12 bolts using socket and spanner. An impact driver may be used to speed up this process. Tighten bolts, alternating left and right to avoid pulling bar to one side.

TOOLS REQUIRED

Lifting Trolley
19&18mm Socket and Spanner

FASTENERS

8x M12x30 Bolt 14x M12 Heavy Duty Large Washer 6x M12 Nyloc Nut 2x M12 flange nut

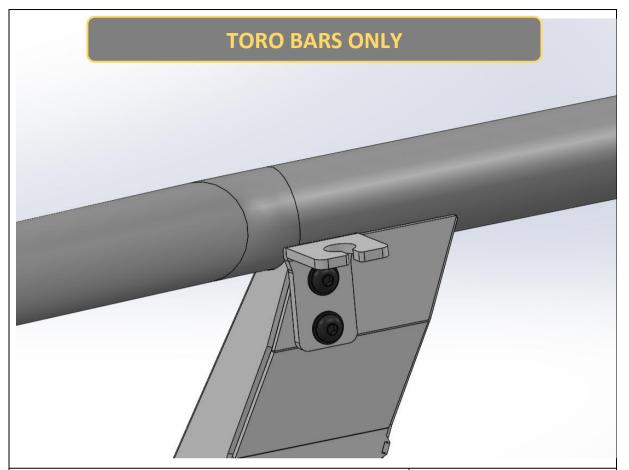


- 67. If fitting a winch, do so now.
- 68. The bar is designed to fit most low mount winches, in foot down configuration. WARN ZEON 10 is largest winch confirmed to fit.
- 69. The control box can be mounted on top of the winch. Winches usually come with a bracket to allow this. Refer to winch manufacturer.

Refer to winch Instructions

FASTENERS

Refer to Winch instruction.



- 70. **Toro only.** If fitting UHF antenna fit antenna brackets to the captive nuts in the back side of the uprights.
- 71. **Toro only.** If not fitting antenna, fit the supplied M8x20 Button head bolts and flat washers in the threads to preserve them for future use. Supply the antenna brackets to the customer for future fitment.
- 72. **Toro only.** Fit antenna to antenna brackets, Refer to antenna instructions.

5mm Hex Key

FASTENERS

2x M8x20 Black Button Head 2xM8 Flat Washer

Per Side



- 73. Prepare the center mesh panel for fitment.
- 74. 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.
- 75. Fit number plate flip kit to fairlead mount, using fasteners supplied in kit.

Depends on winch supplied fasteners



- 76. Fit the Mesh Fairlead Mount (M-0014) to the center of the bar, using M8x16 black button head bolts (top), M8x20 black button head bolts (Bottom) and black washers.
- 77. Tighten fasteners using 5mm Allen Wrench.

5mm Allen Wrench

FASTENERS

2x M8x16 Button Head 2x M8x20 Button Head 4x M8 Flat Washer



78. Fit Mesh Infill Panels (M-0008L/R). Secure with M8x16 button head bolt and M8 flat washer into the threaded insert in bar for top mount.

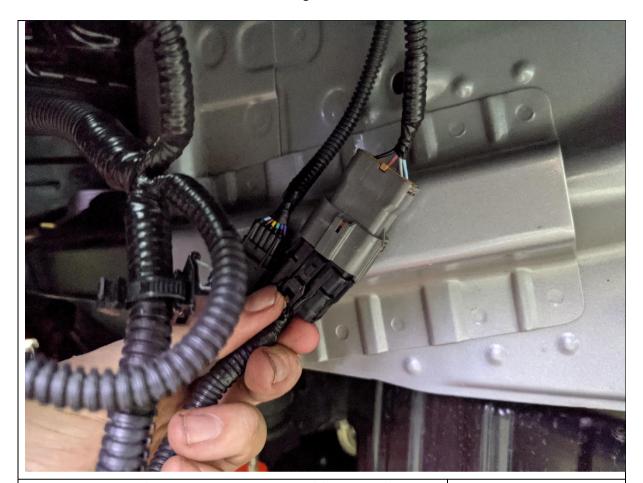
IMPORTANT: The flange of the infill panel should sit on the inside of the bar.

- 79. Don't fit any bolts to bottom holes at this stage.
- 80. Tighten top fasteners using 5mm Allen Wrench.

TOOLS REQUIRED5mm Allen Wrench

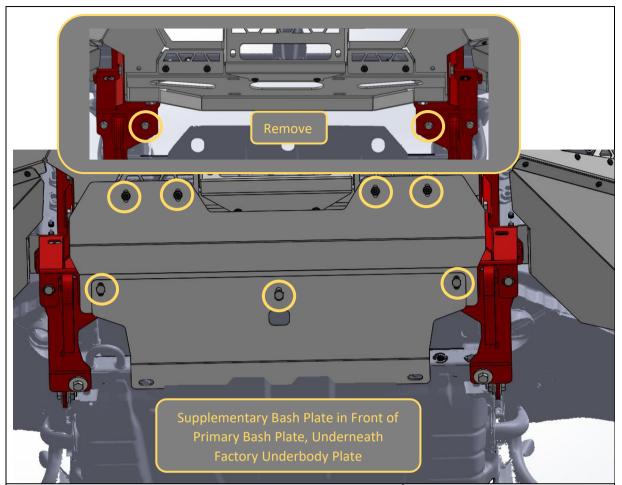
FASTENERS

2x M8x16 Button Head 2x M8 Flange Nut



81. Re-connect fog light and parking sensor (if equipped) wiring connectors.

TOOLS REQUIRED



- 82. Before fitting bash plates, remove the M10x30 Bolts on the inside of the tow point / impact assembly joint.
- 83. Fit the front of the Center Bash Plate using M8x20 button heads and flat washers into the threaded inserts in the bar. Ensure these fasteners pass through the side mesh panels.
- 84. Secure the Supplementary and back of Center Bash Plate using M10x30 hex head, flat washers and M10 flange nut removed in previous step, through the tow point / impact assembly parts.
- 85. Secure bottom of Supplementary bash plate to the factory bolt points, using factory fasteners. Refit the factory underbody on top of the supplementary bash plate.
- 86. Tighten All Bottom fasteners using 16/17mm spanner & socket
- 87. Tighten front fasteners using 5mm Allen Wrench.

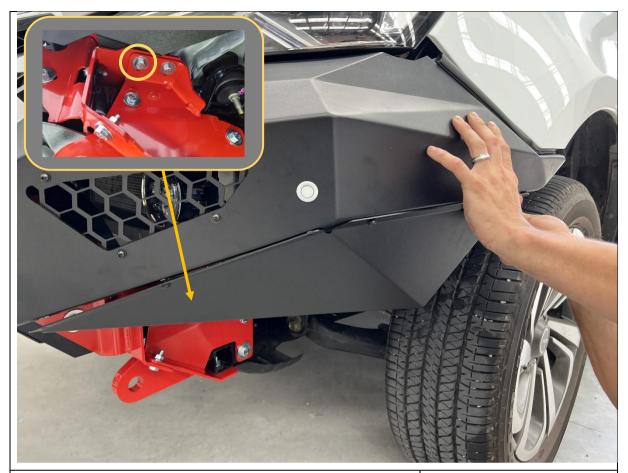
14mm spanner 16/17mm Spanner 16/17mm Socket 5mm Allen Key

FASTENERS

4x M8x20 Button Head 4x M8 Flat Washer

3x M10x30 hex bolt 3x M10 flat washer 3x M10 flange nut

2x Factory bolt

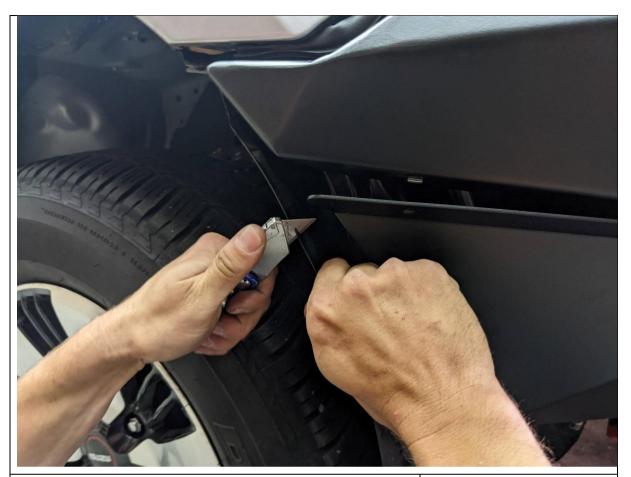


- 88. Remove the outside top bolts from impact assembly/tow point.
- 89. Fit the side under panels by first sitting the bottom mount on top of the impact assembly, then inserting the 5x M6x16 bolts into the cage nuts fitted earlier.
- 90. Tighten with 4mm Allen wrench.
- 91. Secure bottom of side under panel to mount using bolt removed from joint earlier.
- 92. Tighten with 16/17mm spanner / socket.

16/17mm Spanner 4mm Allen Wrench

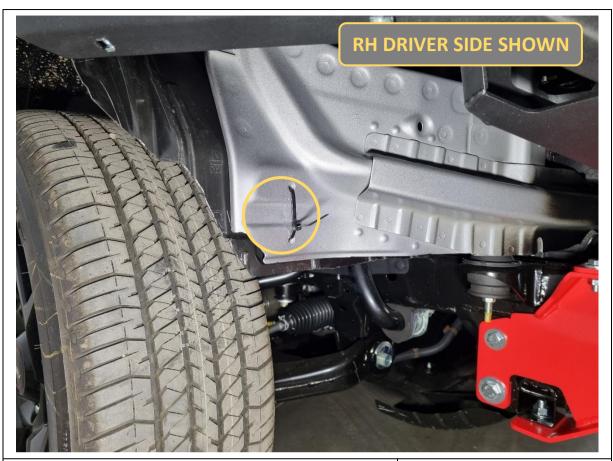
FASTENERS

10x M6x16 Button Head 10x M6 Flat Washer



- 93. Mark cut location 20mm lower than the intersection of the wheel arch liner and edge of the side under panels. Once marked remove under panel
- 94. Using a sharp utility knife, cut back the plastic inner wheel arch liner along line marked before.
- 95. Tuck the wheel arch liner behind the flanges on the under panel.
- 96. Repeat for both sides of vehicle.

Utility Knife Paint pen / Marker



97. **Optional.** Drill a hole through the inner wheel arch liner and use a cable tie to secure it to the body, as shown. (You need to do this with the side underpanel off).

TOOLS REQUIRED

Electric drill Cable tie



- 98. Re-check that all fasteners are tight.
- 99. Re-fit number plate to number plate flip.
- 100. 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.
- 101. You're done. Hit the tracks and enjoy your newly protected MU-X!