



ISUZU MU-X
RJ MY22 ON
ROCK SLIDERS WITH BRUSH RAILS

IMPORTANT! – READ BEFORE INSTALLATION

- 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 fasteners, unless otherwise specified.

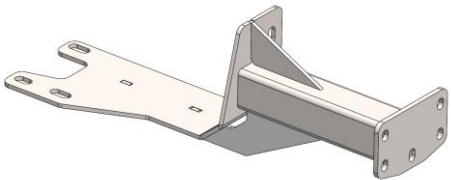
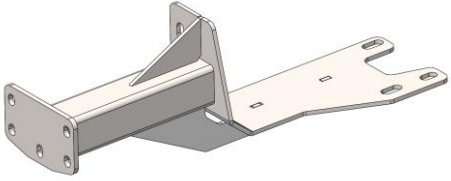
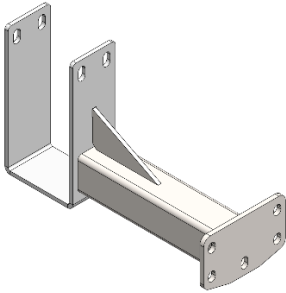
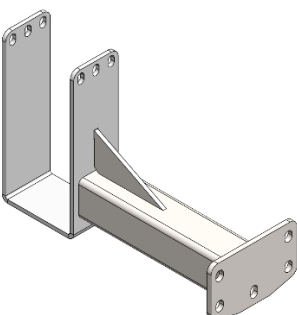
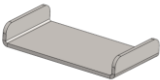
Always use a torque wrench to set correct torque settings. Ensure torque wrench is set to Nm unit of measurement. Otherwise perform conversion to lb-ft.

Size	Torque Nm
M5	5 Nm
M6	9 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm

PARTS LISTING

IMPORTANT: Check all parts are present before beginning work! Contact OFFROAD ANIMAL if something is missing.

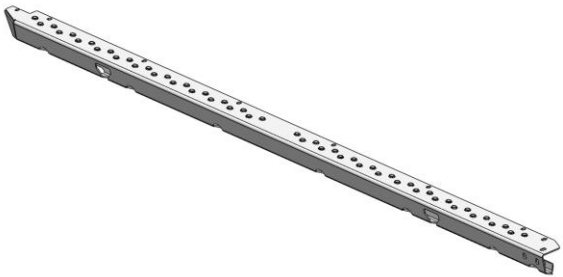
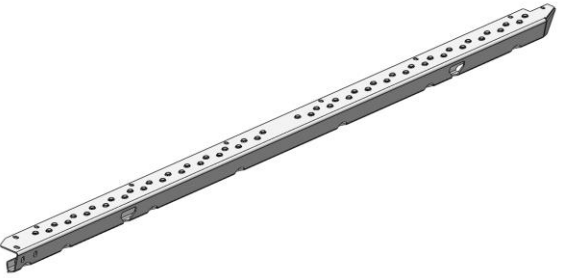
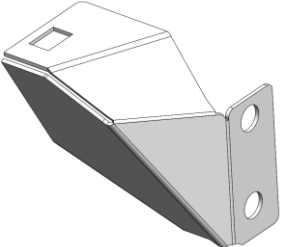
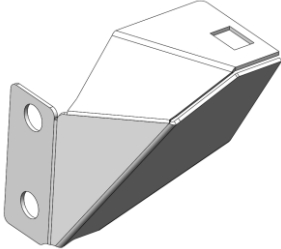
Rock Slider – Mounting Kit

Qty	Part Number	Description	Image
1	RS-IDM-RG-21-ASM2L	Dmax Slider Front Mount Left Hand	
1	RS-IDM-RG-21-ASM2R	Dmax Slider front Mount Right hand	
2	RS-IMX-RJ-21-ASM3	MUX Slider MID mount	
2	RS-IMX-RJ-21-ASM1	MUX Slider REAR mount	
4	B-0584	Shim	
4	NP-COM-M10-190-SLIM	Nut plate M10 Slim	

Mounting Kit Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
4	M10 X 120	Bolt Hex, M10X120X1.5, GR8.8 ZP
6	M10 x 30	Bolt Hex, M10X30x[1.5], GR8.8 ZP
32	M10 x 25	Bolt Hex, M10X25x[1.5], GR8.8 ZP
10	M10 Flat Washer	M10 Flat Washer
30	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
6	M8 X 120 HEX	Bolt Hex, M8X120X1.25, GR8.8 ZP
6	M8 FLAT WASHER	M8 Flat Washer
6	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP

Side Rail Step Kit

Qty	Part Number	Description	Image
1	B-1080R	RH Side Rail Step - 1600 Extrusion	
1	B-1080L	RH Side Rail Step - 1600 Extrusion	
1	B-0306R	RH Slider End Cap - Stub Nose	
1	B-0306L	LH Slider End Cap - Stub Nose	

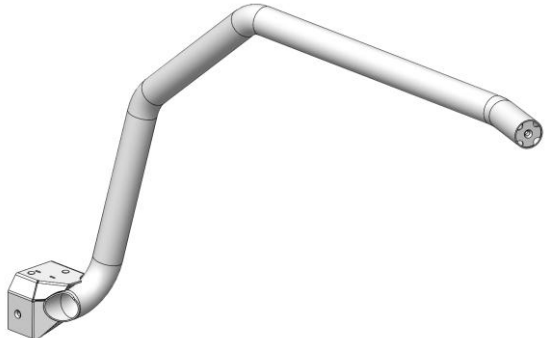
Side Rail Step Kit Small Parts – Contained in Small Parts Kit Bag

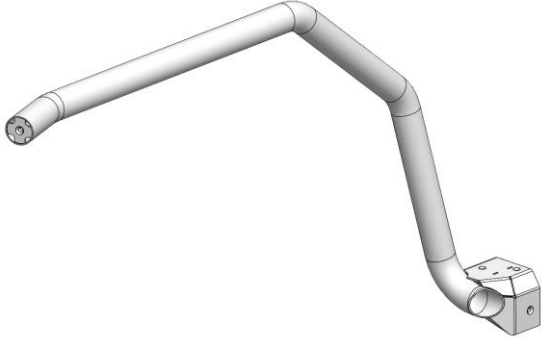
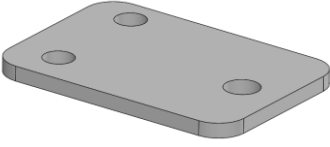
Qty	Part Number	Description
2	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M6CN3MM	CAGE NUT M6x2.6-3.5
12	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
12	M8X20 CAP SCREW	CAP SCREW, M8X20X1.25 GR10.9 ZP
24	M8 FLAT WASHER- BLACK ZINC	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK PASSIVATED FINISH
24	M8 NUT	Hex Nut, M8x1.25 G8.8 ZP
4	M10X15 BHCS	SCREW, BUTTON HEAD CAP, M10X16X1.5 GR12.9 ZP
4	M10 Flat Washer	M10 Flat Washer
4	M10 NUT	Hex Nut, M10x1.5 G8.8 ZP
2	OFA-LOGO	OFFROAD ANIMAL METAL LOGO

Rock Slider – Extrusion Kit

Qty	Part Number	Description	Image
2	E-0002-1600	Slider Extrusion - 1600mm	

Side Rail Tube Kit

Qty	Part Number	Description	Image
1	SR-IDM-RG-21-ASM1L	D-MAX RG Side Rail Welded Assembly LH	

1	SR-IDM-RG-21-ASM1R	D-MAX RG Side Rail Welded Assembly RH	
2	SR-TLC-300-22-ASM3	LC300 Side Rail Spigot End Assy	
2	P-0086	Side Rail - Joiner Plate	
2	T-0069	Crush Tube 65mm	
2	M10 Saddle Washer 102057059 901	Black Nylon Saddle Washer	
2	PW-P-14X9-165	Pinch Weld - Plain 14X9MM, Rubber, 165mm Length	N/A

Side Rail Tube Kit Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
10	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
10	M8 FLAT WASHER- BLACK ZINC	M8 FLAT WASHER, 16.5x8.4x1.2, ISO4042 ZnNi BLACK PASSIVATED FINISH
6	M10 x 25	Bolt Hex, M10X25x[1.5], GR8.8 ZP
2	M10 Flat Washer	M10 FW
4	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
2	M10X100 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M10X100X1.5 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M10 FW LHD BLACK ZINC	WASHER, FLAT M10X28.5X2.5, ISO4042 ZnNi BLACK PASSIVATED FINISH

TOOLS REQUIRED

The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
Metric Socket Set 10-19mm	Electric/Air Impact Driver (Optional)	Hydraulic Floor Jack
Socket Extension Bar	Electric Drill	Masking Tape
Metric Spanner Set 10-19mm	6mm Drill Bit	Marker Pen
Hex (Allen) Key Set 4-6mm	Step Drill (6-18mm min. range)	Workshop Rag
Flat Blade Screwdriver		Paint Pen/Rust Inhibitive Paint
Centre Punch		
Deburr Tool		
Side Cutters		

WORKSHOP SAFETY

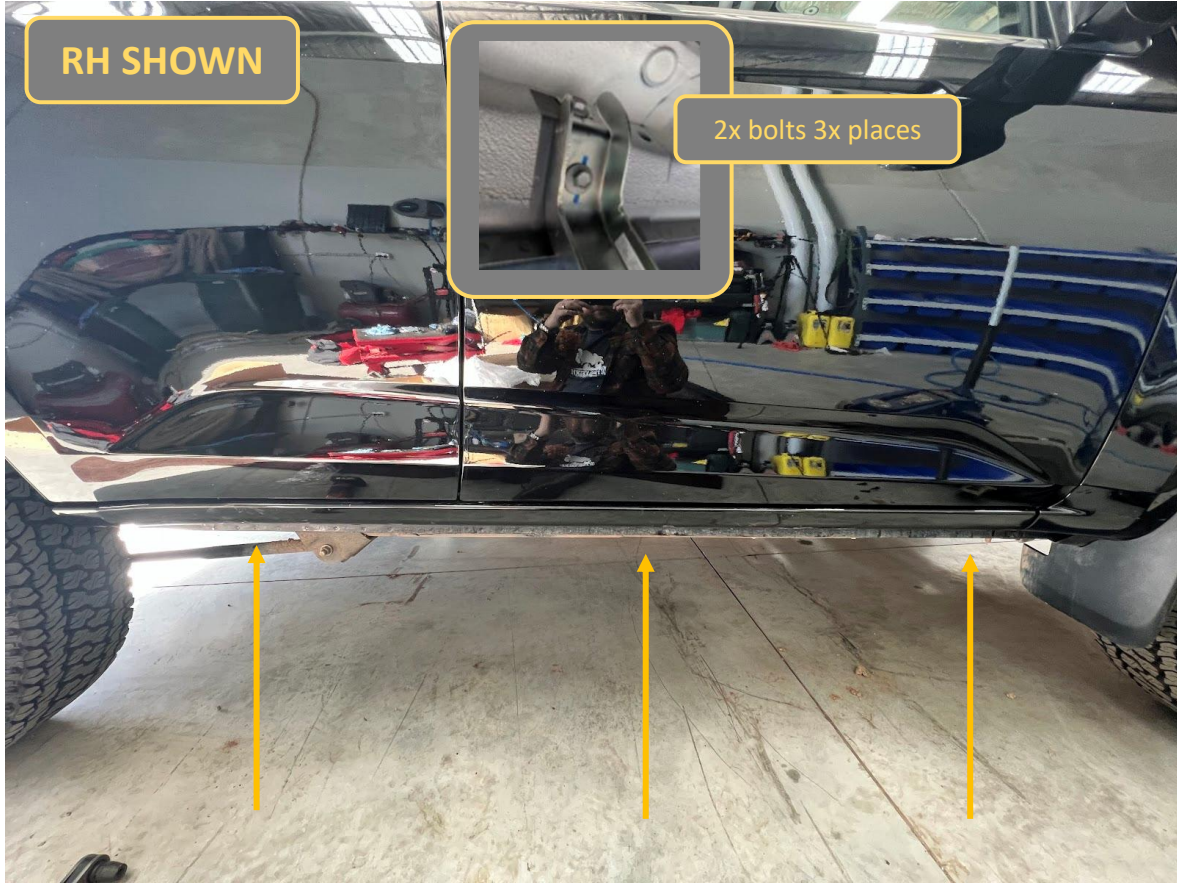
It is the responsibility of the installer to always complete works in a safe manner. Make sure the following safety equipment is available and precautions are observed whilst fitting this product.

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. Offroad Animal Toro Bar (Part No. FB-IMX-RJ-21-TOR-ASM0 or FB-IMX-RJ-25-TOR-ASM0) must be fitted to the vehicle prior to fitment of these rock slider scrub rails.
2. If Offroad Animal Rock Sliders (Part No. RS-IMX-RJ-21-ASM0) have previously been fitted, skip to Step 29.
3. These scrub rails are not compatible with any other variants of sliders and bars.

TOOLS REQUIRED**FASTENERS**

	
4. Remove factory side steps if fitted by removing the 6x bolts (2 per mount) securing them to the body using a 12mm socket. 5. Discard factory steps and bolts.	TOOLS REQUIRED 12mm socket
	FASTENERS 6x factory flange head Bolts (per side)



6. Installation of the front bracket is as shown (viewing up from underneath the vehicle). Locate the area around the front cross member on the LHS of the vehicle.
7. Remove the M6 bolt that is already on the vehicle shown with the arrow.
8. Put the LH front mount up to the chassis as shown and reinstall the factory M6 bolt. Leave loose.
9. Using a nut plate, install an M10x30 bolt on the top side of the photo, again leaving it loose.
10. Next fit M10x30 bolt on bottom side of photo with flange nut. You may need to undo the M6 from step 7 holding the plastic guard to get the nut into place. Leave loose.

TOOLS REQUIRED

16 or 17mm socket/
spanner (depends on bolt
supplier)

10mm socket/spanner

FASTENERS

2x M10 x 30 hex bolt
2x M10 flat washer
1x M10 flange nut
1x M10 nut plate
1x M6 factory bolt



11. Insert a nut plate through the chassis window shown with the arrow.
12. Put a small bend in the stick with your hand and then line up the nut plate with the corresponding point on the front mount and feed in an M10x30 bolt and washer.
13. Once the bolt has been started, use a floor jack to hold the front of the mount up as high as it will go while using a flat blade screwdriver to lever the mount as far away from the centre of the vehicle as possible. Then torque up the M10 bolt.
14. Remember this bracket needs to be as high as possible in its slot.
15. Torque 3 bolts underneath.

TOOLS REQUIRED

16 or 17mm socket/ spanner
(depends on bolt supplier)

Hydraulic floor jack

Flat blade screwdriver

FASTENERS

1x M10 x 30 hex bolt
1x M10 flat washer
1x M10 nut plate



16. To fit the middle and rear mounts on the LHS, the fuel tank needs to be lowered for bolt access.
17. To lower the fuel tank, place a floor jack under the front half of the fuel tank and lightly touch the tank.
18. Remove 2x bolts on holding the front strap of the fuel tank.
19. Gently lower the front end of the tank down about 100mm with the jack. Leave jack in place to support the tank.

TOOLS REQUIRED

14mm socket
Hydraulic floor jack

FASTENERS

2x factory bolt

	
20. Fit the middle mount approximately 75mm rearwards of the middle chassis cross member (circled). 21. If the fit is very loose on the chassis rail, insert the supplied shim(s) between the mount and chassis at the location shown with the arrow. 22. Using a long socket extension bar, feed 2x M10x120 bolts and washers over the top of the fuel tank and chassis rail from the centre of the car, and through the slots on the top of the mount. Secure with flange nuts. Ensure bolts sit in between the chassis rail and any brake lines. 23. Push the mount as high up as possible and torque the bolts.	TOOLS REQUIRED 16 or 17mm socket/ spanner (depends on bolt supplier) Socket extension bar
	FASTENERS 2x M10x120 hex bolt 2x M10 flat washer 2x M10 flange nut

LH SHOWN



Middle and rear mounts in position

24. Fit the rear mount approximately 75mm forwards of the rear cabin mount. 25. If the fit is very loose on the chassis rail, insert the supplied shim(s) as explained in step 21. 26. Using a long socket extension bar, feed 3x M8x120 bolts and washers over the top of the fuel tank and chassis rail from the centre of the car, and through the slots on the top of the mount. Secure with flange nuts. Ensure bolts sit in between the chassis rail and any brake lines. 27. Push the mount as high up as possible and torque the bolts. 28. Raise the fuel tank and resecure the fuel tank strap with the 2x factory bolts.	TOOLS REQUIRED 13mm socket/ spanner 14mm socket Socket extension bar Hydraulic floor jack FASTENERS 3x M8x120 hex bolt 3x M8 flat washer 3x M8 flange nut 2x factory bolt
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29. The following steps only apply if Offroad Animal Rock Sliders have already been fitted. Skip to Step 33 if installing rock sliders onto the vehicle for the first time.
30. Remove the existing step and extrusion from the mounting brackets by undoing 12x M10 flange nuts per slider.

TOOLS REQUIRED

16mm socket/spanner

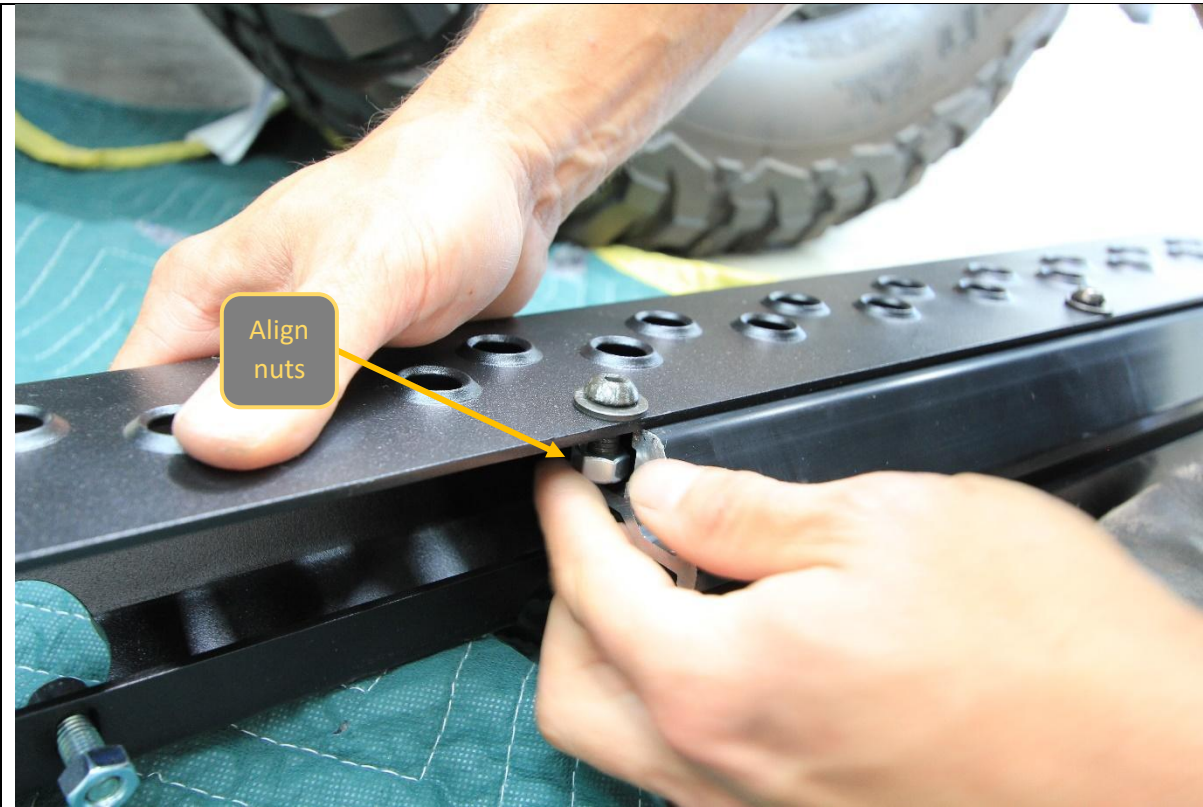
FASTENERS

24x M10 flange nut

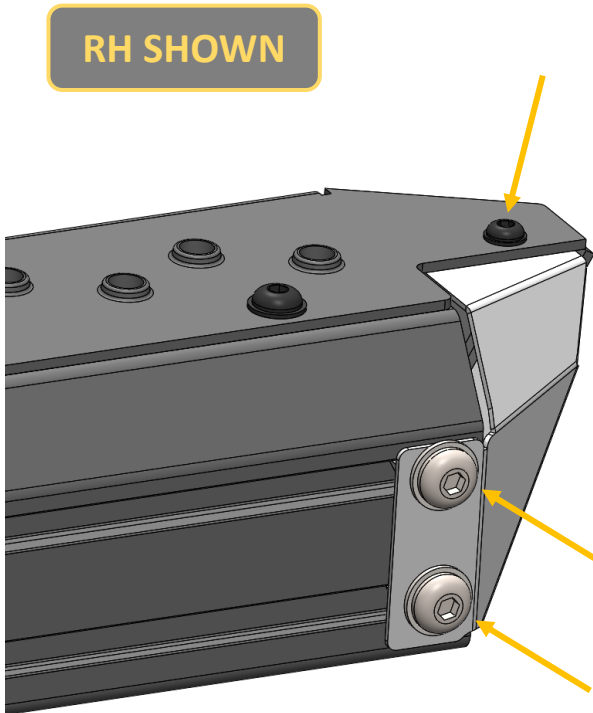
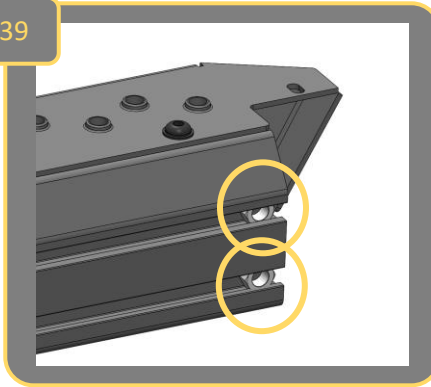
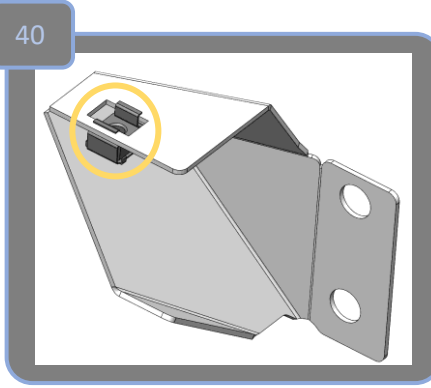


31. Unbolt all end caps and slider step from the extrusion. 32. Remove any bolts/nuts in the extrusion slots.	TOOLS REQUIRED 4mm hex/Allen key 5mm hex/Allen key 6mm hex/Allen key
	FASTENERS

 Leave nut loose, level with bottom of bolt  34 M8x20 Button Head 35 M8x20 Cap Head RH SHOWN	
33. Prepare the side rail step by loosely pre fitting the fasteners to the step. 34. Use M8x20 black button head screws, black M8 washers and M8 Nuts at 6x locations on top of step as shown. 35. Use M8x20 cap head screws M8 washers and M8 nuts on 6x locations on bottom side of step.	TOOLS REQUIRED
	FASTENERS 6x M8x20 Black Button Head 6x M8x20 Cap Head 12x M8 Black Washer 12x M8 Nut



36. Slide the step plate onto the main slider structural extrusion. Align the nuts as they enter the T-slots on the extrusion. 37. Centre the step on the extrusion. Once happy with alignment, tighten all bolts.	TOOLS REQUIRED 5mm hex/Allen key 6mm hex/Allen key
	FASTENERS

	 
38. Fit end cap to the tapered end of the extrusion. 39. First slide 2x M10 hex nuts into the T-slots on the back side of the extrusion. 40. Next insert 1x M6 cage nut in the rectangular slot of the stub nose endcap with a flat blade screwdriver. 41. Then slide endcap into the inside of the slider step. 42. Secure the endcap to the extrusion with 2x M10x15 button head bolts and flat washers. 43. Secure the endcap to the step with 1x M6x16 black button head bolt and black flat washer. 44. Repeat Steps 33-43 for the other slider step.	TOOLS REQUIRED 4mm hex/Allen key 6mm hex/Allen key Flat blade screwdriver FASTENERS 2x M10x25 Bolts 1x M6x16 Button Head bolt 1xM6 Flat Washer 1x M6 Cage Nut 2x M10 Flange Nut



45. Slide 12x M10x25 hex bolts into the T-slots on the back side each extrusion. 6 bolts per slot.

46. Loosely arrange the bolts in 3x groups of 4, in approximate location of mounts, as shown.

TOOLS REQUIRED**FASTENERS**

12x M10x25 hex bolt



47. With the help of a friend or mate, lift step and extrusion up to brackets. Align all the bolts so they fit through the corresponding holes in the brackets.

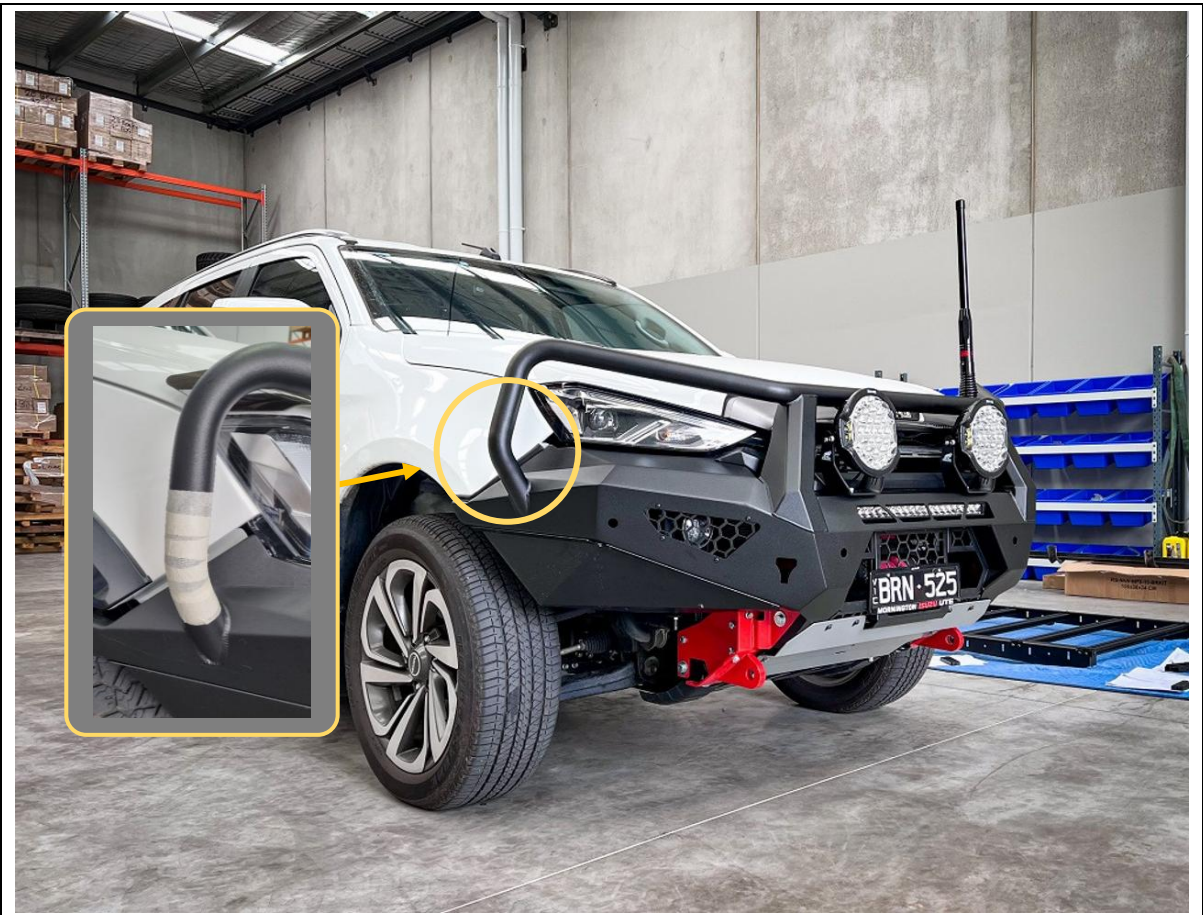
Note: The tapered end cap should be at the rear of the vehicle.

48. Once all the bolts are through into the brackets, loosely secure M10 flange nuts on the M10 bolts to hold step up. Leave the slider step free to move fore/aft at this stage.

49. Repeat for other side.

TOOLS REQUIRED**FASTENERS**

12x M10 Flange Nut

		
50. Apply masking tape around the outer bend of the Toro bar tube where the scrub rail will attach to.		TOOLS REQUIRED Masking tape
		FASTENERS



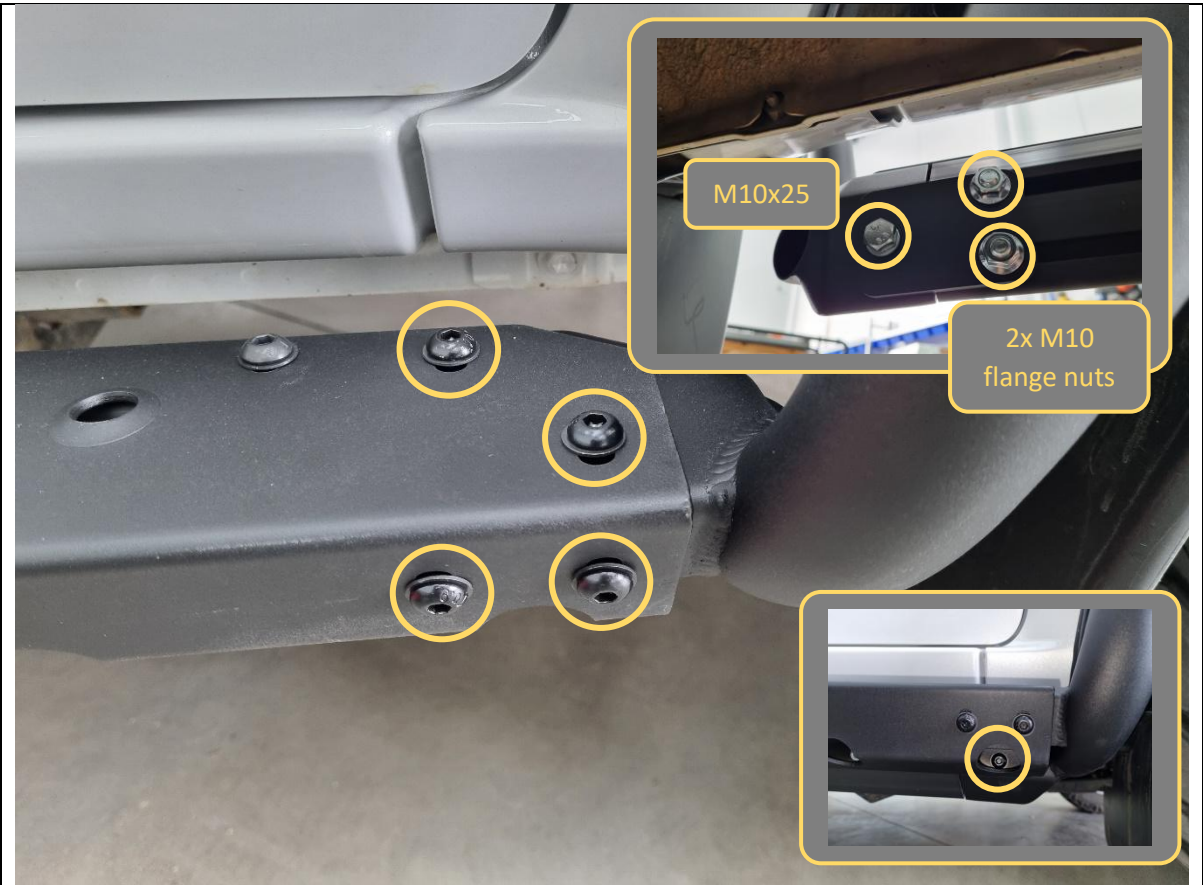
51. Slide in 2x M10x25 hex bolts into the front open end of the extrusion as shown.

TOOLS REQUIRED**FASTENERS**

2x M10x25 hex bolts



52. Perform a dry test fit of the scrub rail by sliding it into the open end of the slider step.	TOOLS REQUIRED
	FASTENERS



53. Loosely secure the top and side faces of the scrub rail end to the slider step using 5x M8x16 black button head bolts and black washers. (1x hidden on the side, see lower right inset). 54. Loosely secure the inside face of the scrub rail end to the extrusion with the P-0086 side rail joiner plate, 1x M10x25 hex bolt, 1x M10 flat washer, and 2x M10 flange nuts.	TOOLS REQUIRED
	FASTENERS 5x M8x16 black button head 5x M8 black flat washer 1x M10x25 hex bolt 1x M10 flat washer 2x M10 flange nut



55. Place the spigot end assembly (circled) in between the scrub rail and Toro bar.

Note: LH and RH spigots are the same. There is a small V-notch in the spigot, which should be facing towards the centre of the vehicle.

56. Adjust the fore/aft position of the slider/bar/scrub rail until the gap is closed. Ensure at least 15mm clearance to the vehicle body is still maintained.

57. Also adjust the position of the scrub rail and slider step to achieve 20mm of vertical distance between the scrub rail and car at the highest point of the wheel arch (see inset photo).

58. Once happy with position, tighten/torque M10 flange nuts holding the extrusion step to the chassis mounts. Also lightly tighten the bolts securing the scrub rail to the slider step.

Note: The order of tightening bolts holding the scrub rail to the slider step affects the position of the scrub rail. If you have trouble aligning, try tightening bolts in a different order.

TOOLS REQUIRED

FASTENERS

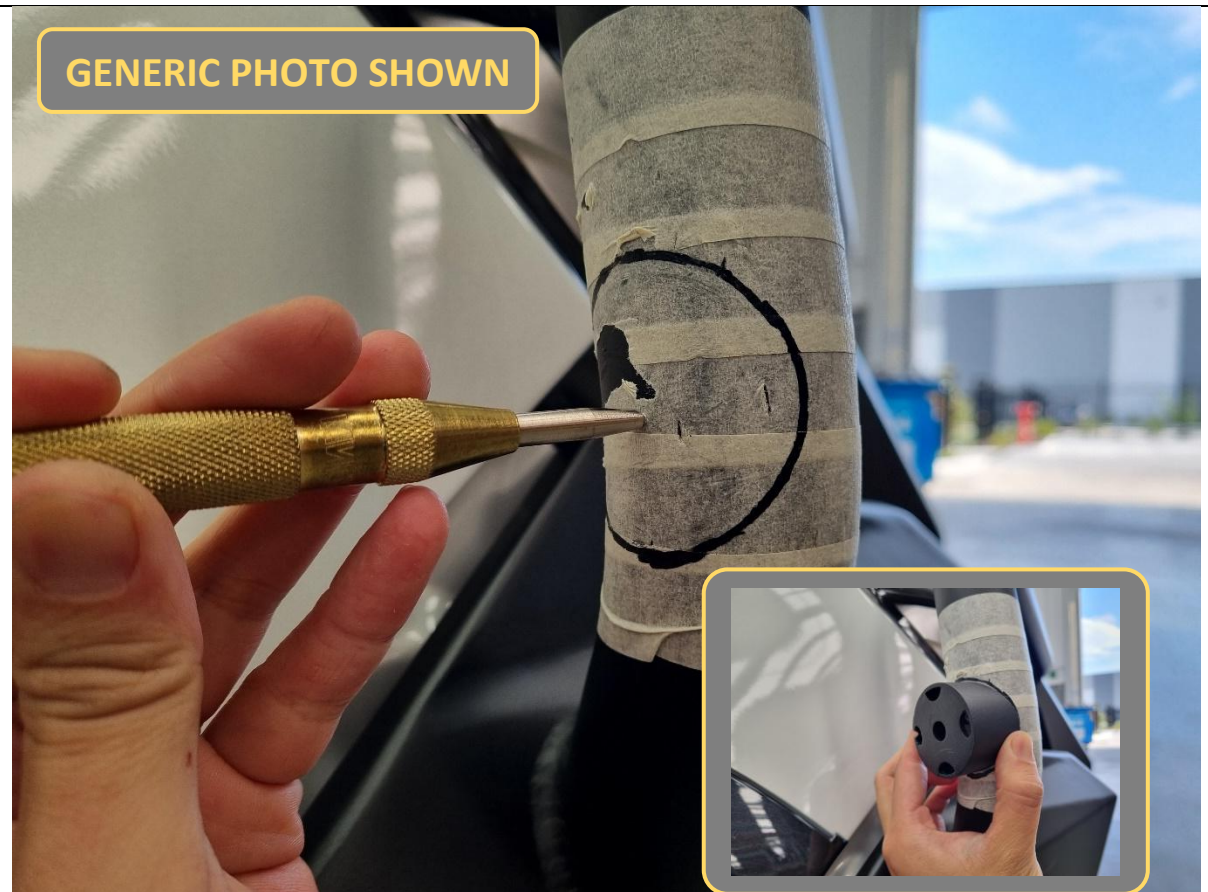


59. Using a marker pen, trace the outline of the spigot in position onto the Toro bar tube.

TOOLS REQUIRED

Marker pen

FASTENERS



60. Remove the scrub rail and spigot from the vehicle.
61. Hold the spigot back up against the Toro bar by hand, then mark the position of the hole in the centre of the spigot onto the Toro bar with a pen.
62. Then use a centre punch to mark the hole location on the Toro bar.

TOOLS REQUIRED

Marker Pen
Centre Punch

FASTENERS

GENERIC PHOTO SHOWN

63. Drill 6mm pilot hole through both sides of the Toro tube at the centre punch location. Use a rag over the car to protect from metal swarf.
64. Take care to ensure the drill always remains perpendicular to the tube, so that the hole is aligned in the direction of the spigot/scrub rail.

TOOLS REQUIRED

Electric Drill
6mm Drill Bit
Workshop Rag

FASTENERS

GENERIC PHOTO SHOWN

65. Open up the holes on both sides to 18mm using a step drill.

66. Deburr and paint edges of holes to prevent rust.

TOOLS REQUIRED

Electric Drill
Step Drill

Deburr Tool
Paint

FASTENERS



67. Fit supplied pinch weld around the curved edge of the spigot. Trim with side cutters if oversized.

TOOLS REQUIRED

Side Cutters

FASTENERS

GENERIC PHOTO SHOWN

68. Loosely position the spigot with the Toro bar and hold in place with 1x M10x100 black button head, flat washer, nylon saddle washer and crush tube, through the 18mm drilled hole in the bar.

TOOLS REQUIRED**FASTENERS**

1x M10x100 black button head
1x M10 black flat washer
1x M10 nylon saddle washer
1x crush tube

GENERIC PHOTO SHOWN

69. Refit the scrub rail to the vehicle.

70. Secure the scrub rail to the spigot/Toro bar with the M10x100 button head bolt into the embedded nut on the flat end of the scrub rail.

71. Secure the base of the scrub rail to the slider the same way as during the dry fit.

72. Re-check and adjust alignment between scrub rail, rock slider and Toro bar. Ensure 15mm clearance to the vehicle body is still maintained.

73. Once happy with alignment, tighten all bolts, including any loosened bolts in the slider and Toro bar during alignment.

74. Complete the entire scrub rail install again for the other side of the car.

75. After that you are done!

TOOLS REQUIRED

5mm hex/Allen key
6mm hex/Allen key
15/16mm socket/spanner

FASTENERS

5x M8x16 black button head
5x M8 black flat washer

1x M10x25 hex bolt
1x M10 flat washer

2x M10 flange nut



Congratulations!
Head for the tracks and enjoy your newly protected MU-X!