



TOYOTA LANDCRUISER 300 SERIES MY2022-ON SCRUB 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.
- Fitting time estimated 1-2 hours

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.

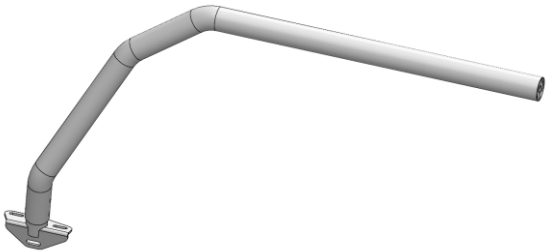
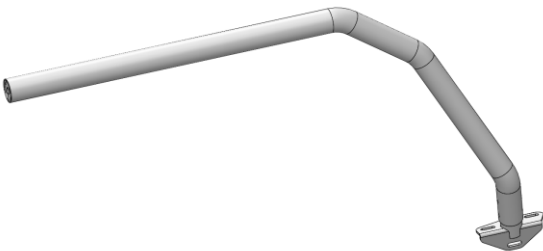



Always use a torque wrench to set correct torque settings. Ensure torque wrench is set to Nm unit of measurement. Otherwise perform conversion to lb-ft.

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.

Main Parts – In the Box

Qty	Part Number	Description	Image
1	SR-TLC-300-22-ASM2R	LC300 Side Rail Weldment	
1	SR-TLC-300-22-ASM2L	LC300 Side Rail Weldment	
2	SR-TLC-300-22-ASM3	LC300 Side Rail Spigot End Assy	
2	T-0069	Crush Tube 65mm	
2	M10 Saddle Washer 102057059901	Black Nylon Saddle Washer	
2	PW-P-14X9-165	Pinch Weld - Plain 14X9MM, Rubber, 165mm Length	N/A

Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
6	M10X25 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M10X25X1.5 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M10X100 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M10X100X1.5 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH
8	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
6mm Hex (Allen) Key	Electric Drill	Masking Tape
Centre Punch	6mm Drill Bit	Marker Pen
Deburr Tool	Step Drill (6-18mm min. range)	Workshop Rag
Side Cutters	Electric/Air Impact Driver (Optional)	Paint Pen/Rust Inhibitive Paint

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.

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



1. Offroad Animal Toro Bar (Part No. FB-TLC-300-22-TOR-ASM0) and Steel Rock Sliders (Part No. RSW-TLC-300-22-ASM0) must be fitted to the vehicle prior to fitment of these scrub rails.
2. These scrub rails are not compatible with any other variants of sliders and bars.

TOOLS REQUIRED**FASTENERS**



3. Present the scrub rail up against the vehicle to perform a dry test fit.
4. Loosely secure the base of the scrub rail to the embedded nuts in the rock slider step using 3x M10x25 button head bolts and washers.

TOOLS REQUIRED**FASTENERS**

3x M10x25 black button
head
3x M10 black flat washer



5. Apply masking tape around the Toro bar tube where the scrub rail meets the Toro bar.

6. Place the spigot end assembly 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.

7. Adjust the fore/aft position of the slider/bar/scrub rail until the gap is closed. Ensure 20mm clearance to the vehicle body is still maintained.
8. Using a marker pen, trace the outline of the spigot in position onto the Toro bar tube.

TOOLS REQUIRED

Masking tape

Marker pen

FASTENERS



<div>9. Remove the scrub rail and spigot from the vehicle.</div> <div>10. 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.</div> <div>11. Use a centre punch to mark the hole location on the Toro bar.</div>	TOOLS REQUIRED <div>Marker Pen</div> <div>Centre Punch</div>
	FASTENERS



12. 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.
13. 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



<div>14. Open up the holes on both sides to 18mm using a step drill.</div> <div>15. Deburr and paint edges of holes to prevent rust.</div>	<div>TOOLS REQUIRED</div> <div>Electric Drill</div> <div>Step Drill</div> <div>Deburr Tool</div> <div>Paint</div>
	<div>FASTENERS</div>



16. Fit supplied pinch weld around the curved edge of the spigot. Trim with side cutters if oversized.	TOOLS REQUIRED Side Cutters
	FASTENERS



17. 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



<p>18. Refit the scrub rail to the vehicle.</p> <p>19. 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.</p> <p>20. Secure the base of the scrub rail to the slider with 3x M10x25 button head bolts and washers as done previously.</p> <p>21. Re-check and adjust alignment between scrub rail, rock slider and Toro bar. Ensure 20mm clearance to the vehicle body is still maintained.</p> <p>22. Once happy with alignment, tighten all bolts, including any loosened bolts in the slider and Toro bar during alignment.</p> <p>23. Complete the entire scrub rail install again for the other side of the car.</p> <p>24. After that you are done!</p>	TOOLS REQUIRED 6mm hex/Allen key
	FASTENERS 3x M10x25 black button head 3x M10 black flat washer



Congratulations!
Head for the tracks and enjoy your newly protected Landcruiser!