

PART NUMBER AND DESCRIPTION: 3614140 – SUMMIT RAW REAR STEP TOW BAR (RSTB) SUITED TO VEHICLE/S:

Toyota Hilux 2015 ON

WARNING

NOTE THE FOLLOWING:

- This product must be installed exactly as per these instructions using only the hardware supplied.
- In the event of damage to any tow bar component, contact your nearest authorised ARB stockist.
- Do not use this product for any vehicle make or model, other than those specified by ARB.
- Do not remove labels from this tow bar.
- This product or its fixing must not be modified in any way.
- The installation of this product may require the use of specialized tools and/or techniques
- It is recommended that this product is only installed by trained personnel.
- These instructions are correct as at the publication date. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer.
- During installation, it is the duty of the installer to check correct operation/clearances of all components.
- Work safely at all times.
- Unless otherwise instructed, tighten fasteners to specified torque.
- The eyelets on the rear bar have been designed and tested for connection of trailer safety chains. They are not to be used for recovery or direct towing.
- For recovery, fit a suitable and rated tow hitch to the central tow hitch receiver.
- Position high lift jack at lift locations beneath the middle of the side tube of the RSTB.

ARB 4x4 ACCESSORIES

Corporate Head Office

42-44 Garden St Kilsyth, Victoria AUSTRALIA 3137

+61 (3) 9761 6622 +61 (3) 9761 6807

Tel:

Fax:

Australian enquiries North & South American enquiries Other international enquiries sales@arb.com.au sales@arbusa.com exports@arb.com.au

www.arb.com.au

GENERAL CARE AND MAINTENANCE

By choosing an ARB Bar, you have bought a product that is one of the most sought after 4WD products in the world. Your bar is a properly engineered, reliable, quality accessory that represents excellent value. To keep your bar in original condition it is important to care and maintain it following these recommendations:

- Prior to exposure to the weather your bar should be treated to a Canuba based polish on all exposed surfaces. It is recommended that this is performed on a six monthly basis or following exposure to salt, mud, sand or other contaminants.
- As part of any Pre-Trip Preparation, or on an annual basis, it is recommended that a thorough visual inspection of the bar is carried out, making sure that all bolts and other components are torqued to the correct specification. Also check that all wiring sheaths, connectors, and fittings are free of damage. Replace any components as necessary. This service can be performed by your local authorized ARB Stockist.

FITTING REQUIREMENTS

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

BASIC TOOL KIT	SIDE CUTTERS
INSULATION TAPE	70MM HOLE SAW BIT
DEUTSCH CRIMPING TOOL	WIRE STRIPPER
NEEDLE NOSE PLIERS	POWER DRILL
ALLEN KEY SET	SOCKET SET
FINE ROUND FILE	TAPE MEASURE
MASKING TAPE	RUST PREVENTATIVE PAINT

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear



Hearing protection



NOTE: 'WARNING' notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.

FASTENER TORQUE SETTINGS:

Torque Nm	Torque lbft			
9Nm	7lbft			
22Nm	16lbft			
44Nm	32lbft			
77Nm	57lbft			
95Nm	71lbft			
	9Nm 22Nm 44Nm 77Nm			

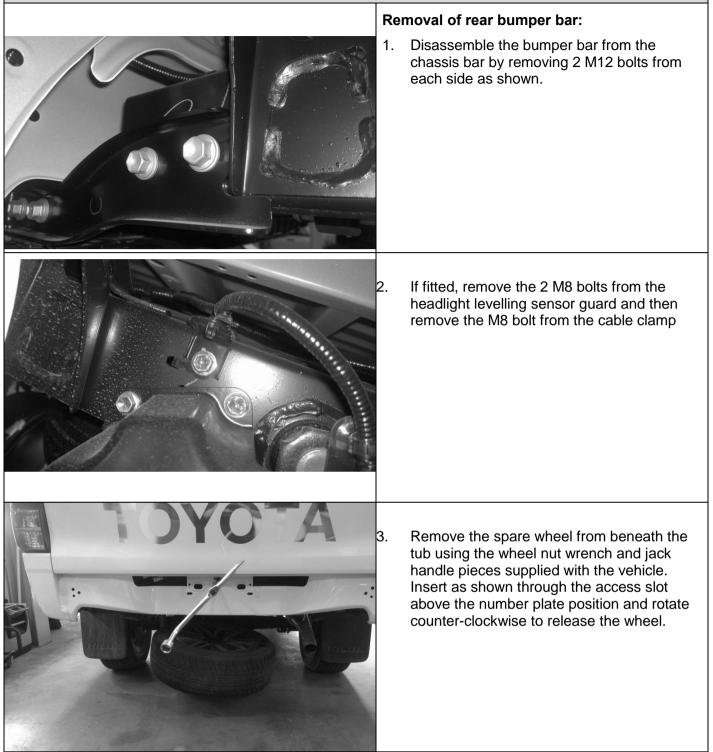
RSTB PARTS LISTING					
APPLICATION	PART NO.	QTY	DESCRIPTION		
PREPARE REAR STEP TOW BAR	4654364	1	ASSY RSTB HILUX 150N WELDED		
(RSTB)	6151715	18	NUT M6 CAGED 3.6-4.5MM 836-D		
	3789470	1	TEMPLATE HILUX 2015 NUMBER PLATE		
	6523214R	1	PNL BEAVER RH-TRADESMAN RSTB		
	6523214L	1	PNL BEAVER LH-TRADESMAN RSTB		
	6821189	4	PLASTIC SNAP-IN LARGE GROMMET		
	6151480	4	NUT HX FL M12 x 1.25 ZP		
	6151384	4	SCREW ST PHDCOL PH 5.2 x 16 TBZP480		
	5848302	4	PACKER RB NYLON		
	6151213	4	BOLT M6 x 1.0 x 20 Gd8.8 BZ		
	4584295	16	WASHER FLAT M6 x 12 x 1.3 BLK ZN		
	6151459	4	SCREW BTN HD M6 x 16 BZ		
	6151549	8	NUT NYLOC M6 x 1.0 GR8.8 BTZP480		
	4581082	2	WASHER FLAT M6 x 19 x 1.6 BLK ZN		
RSTB TO VEHICLE	3750339	1	BRKT NUMBER PLATE FRAME		
	3750336R	1	BRKT NUMBER PLATE MOUNT RH		
	3750337L	1	BRKT NUMBER PLATE MOUNT LH		
	6602011	2	CANOE CLIP		
	5670039R	1	SPRING LICENCE PLATE RH		
	5670039L	2	SPRING LICENCE PLATE LH		
	6151545	14	BOLT FL HXHD M12 X 1.25 X 35 CL8.8 ZP		
	4584363	14	WASHER FLAT M12X26X4 HV300 TZP480		
	3194821	2	PLATE ASSY CHASSIS		
	3194820	2	PLATE INFILL		
	3195046	1	PLATE EXTRUSION-RSTB		
	6151256	10	SCREW BTN HD M6 x 16 SS		
	6151315	2	NUT CAGED M8 0.7-1.6		
	3195067	1	PLATE DIFFUSER MOUNT		
PREPARE RSTB/VEHICLE FOR	6151256	10	SCREW BTN HD M6 x 16 SS		
PANELS	4581304	10	WASHER FLAT M6 S/S		
	6523205	1	PANEL DIFFUSER RH NO SENSOR		
	6523207	1	PANEL DIFFUSER LH NO SENSOR		
	(=0::==	1 .			
	4761170	1	TOW TONGUE 45 DEG		
TOW TONGUE	55010	1	TOW BAR PULL PIN		
	55020	1	SPRING CLIP		
	180302	10	CABLE TIE 200MM		

TRAILER WIRING			
The following trailer wiring solutions can be purchased from ARB. Purchase the main wiring harness with ECU (Part no. 3600010) in conjunction with the appropriate socket and tail listed below. Alternatively, this product is compatible with the factory trailer wiring solution.			
To install this loom, a crimping tool suitable for crimping contact typesize16Deutsch pins is required. Suitable crimping tools can be purchased from auto electrical wholesalers as shown.			
APPLICATION	PART NO.	QTY	DESCRIPTION
	3600010	1	RSTB WIRING INCLUDING ECU
3600020 1		1	RSTB SOCKET & TAIL 7 PIN FLAT
TRAILER WIRING	3600030	1	RSTB SOCKET & TAIL 12 PIN FLAT
3600040 1			RSTB SOCKET & TAIL 7 PIN ROUND LRG
3600050 1			RSTB SOCKET & TAIL 7 PIN ROUND SML

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OPTIONAL ACCESSORIES					
The following ARB accessories can be fitted to this product:					
APPLICATION		PART NO.	QTY	DE	SCRIPTION
		171403	1	ARB AIR LINE FITTING	
	OPTIONAL ACCESSORIES		1	ARB TRAILER CAMERA KIT	
			1	RECOVERY HITCH AND SHACKLE	
		6594050	1	50 AMP A	ANDERSON PLUG
			•	C L L L L L L L L L L L L L L L L L L L	
AIR LINE FITTING	TRAILER CA	AMERA KIT	REC	OVERY HITCH	ANDERSON PLUG

GENUINE ACCESSORIES REMOVAL

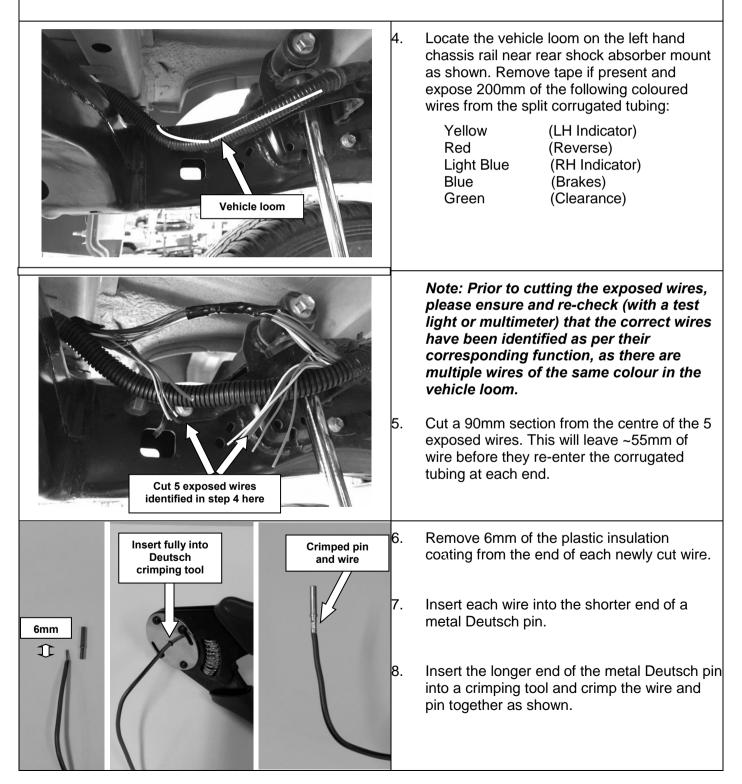


VEHICLE/RSTB WIRING

A trailer wiring solution that incorporates a smart ECU is available for this vehicle. To fit this solution, the rear vehicle wiring harness must be cut and high quality, waterproof Deutsch connectors installed to provide signal pickup points for the ECU.

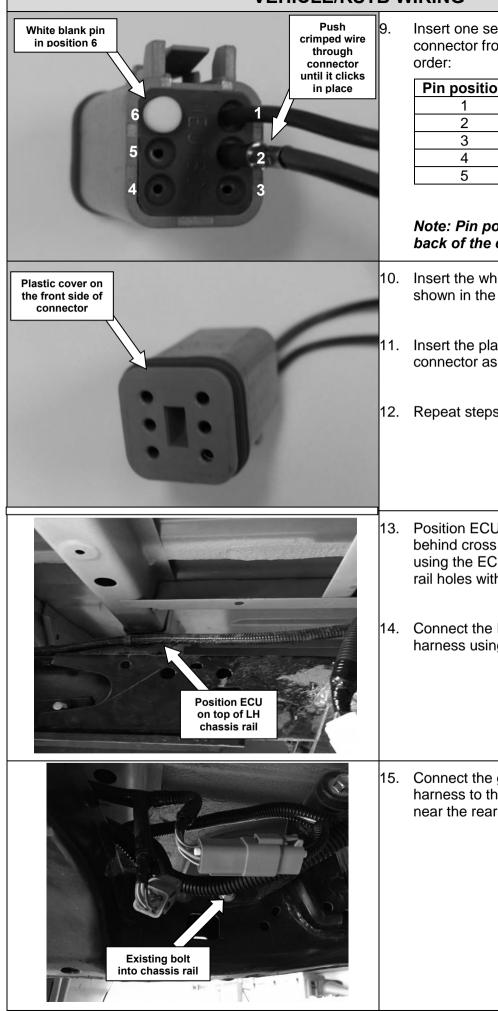
To install this loom, a suitable crimp tool is required. Refer to Page 4 for more details about the crimp tool.

Follow the steps below to install the trailer wiring solution:



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VEHICLE/RSTB WIRING



Insert one set of wires into a male 6-pin connector from the back in the following order:

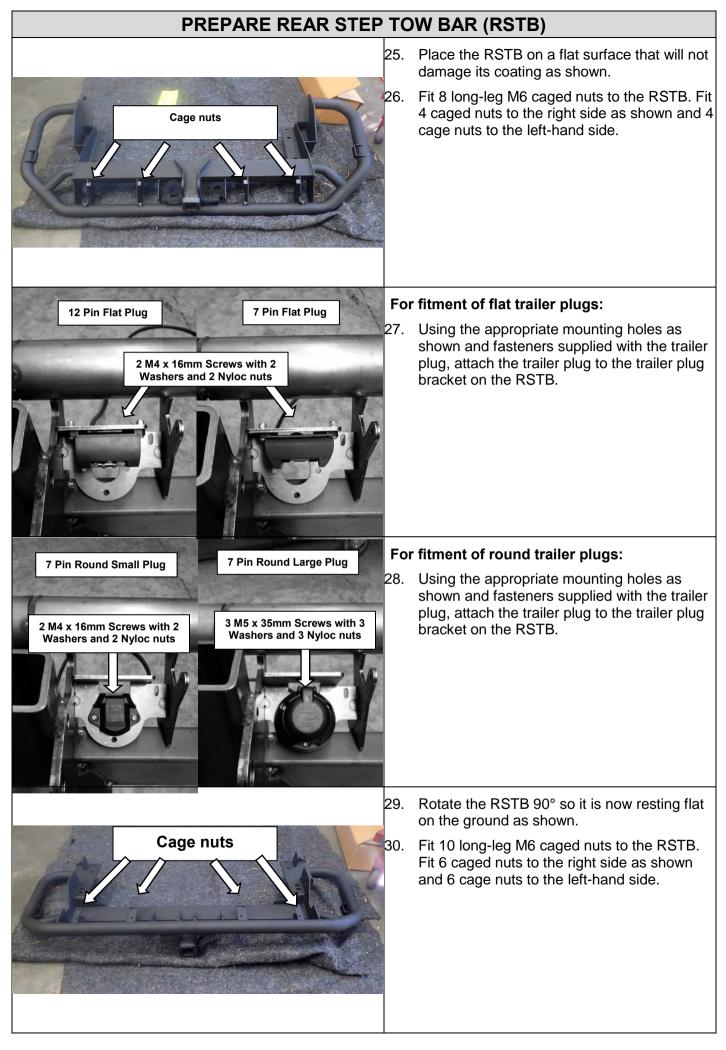
Pin position	Wire colour	
1	Yellow	
2	Red	
3	Light Blue	
4	Blue	
5	Green	

Note: Pin positions are shown on the back of the connector.

- 0. Insert the white blank pin into position 6 as shown in the previous step.
- 1. Insert the plastic cover to the front of the connector as shown.
- 12. Repeat steps 17-19 for the other connector.
- Position ECU on top of LH chassis rail behind cross member as shown. Secure using the ECU mounting holes and chassis rail holes with 2 cable ties.
- 14. Connect the ECU unit to the RSTB wiring harness using the large 12 pin connector.
- Connect the ground wire of the RSTB harness to the bolt on the LH chassis rail near the rear shock absorber mount.

VEHICLE/RSTB WIRING Route the positive supply wire to the front of 16. Existing vehicle the vehicle following the existing vehicle harness harness along the left chassis rail. 17. Continue routing the positive supply wire Positive terminal through the engine bay to the battery. Connect the positive supply wire to the 18. positive terminal of the battery using the existing bolt as shown. 20A Fuse 19. Connect the RSTB wiring harness to the 2 male 6-pin connectors. Note: The RSTB wiring harness is not polarity sensitive in this region so the male 6-pin connectors can be connected to either female connector. 20. Ensure vehicle tail lights function correctly. Cable tie connectors and RSTB Fasten the connectors to the vehicle loom 21. wiring harness to vehicle loom using the cable ties provided. 22. Re-wrap the un-cut wires with the existing split corrugated tubing and new tape. Tidy and fasten all wiring using the cable ties 23. provided. Warning: Make sure all wires are securely fastened away from any hot, sharp or moving surfaces. Do not fasten wiring harness to fuel or brake lines. 24. Ensure vehicle tail lights function correctly.

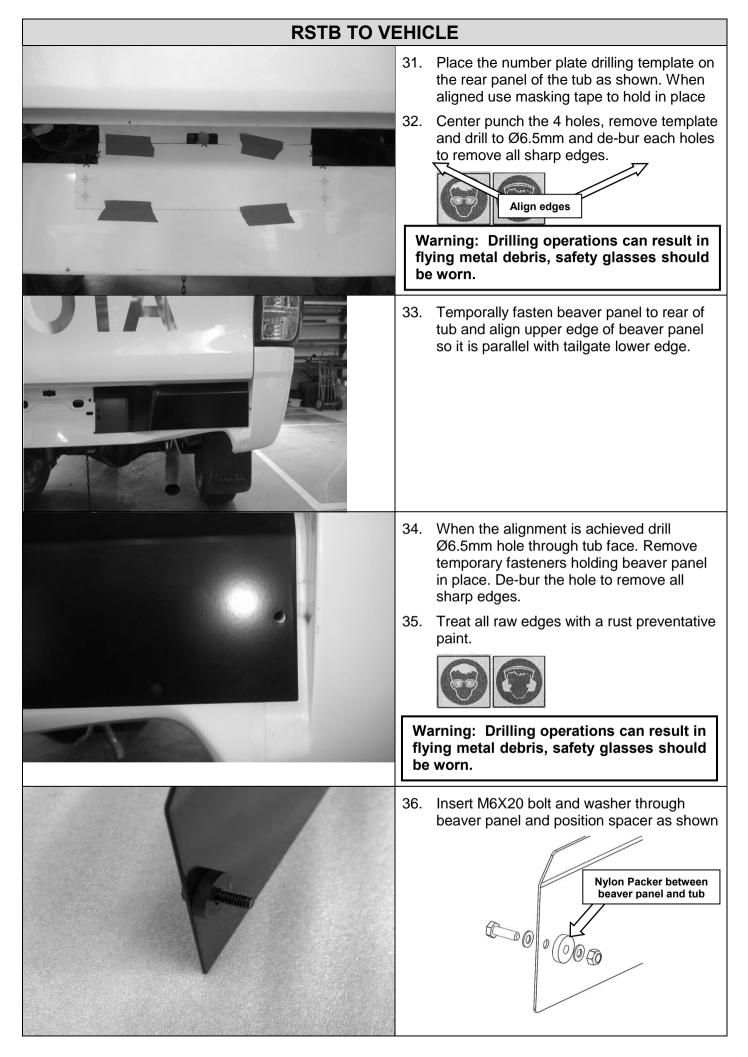
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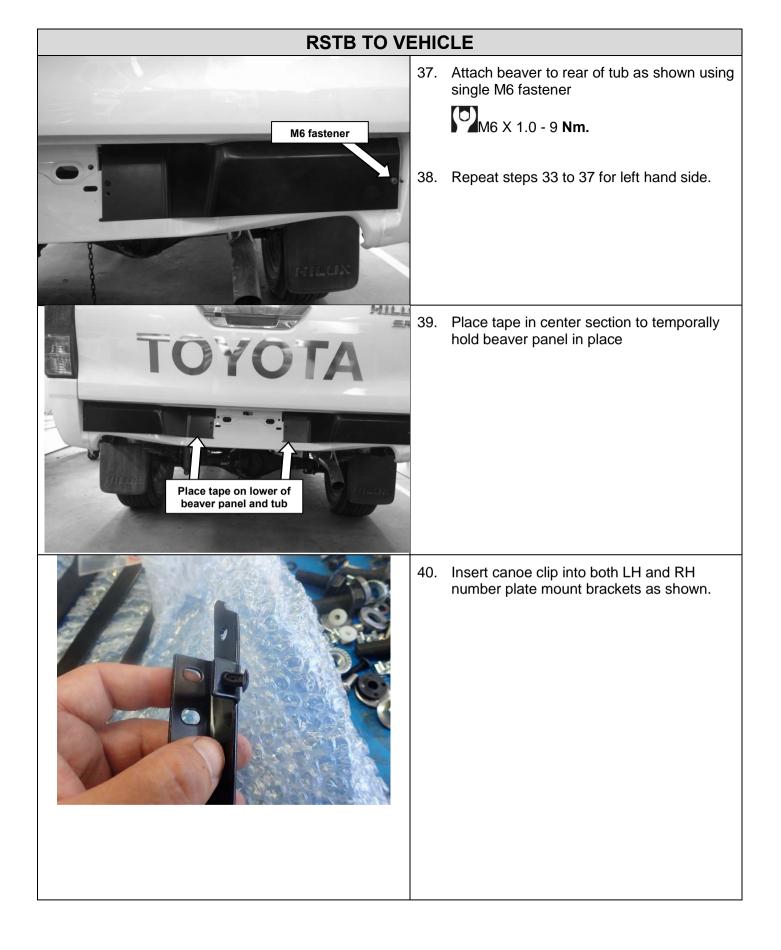


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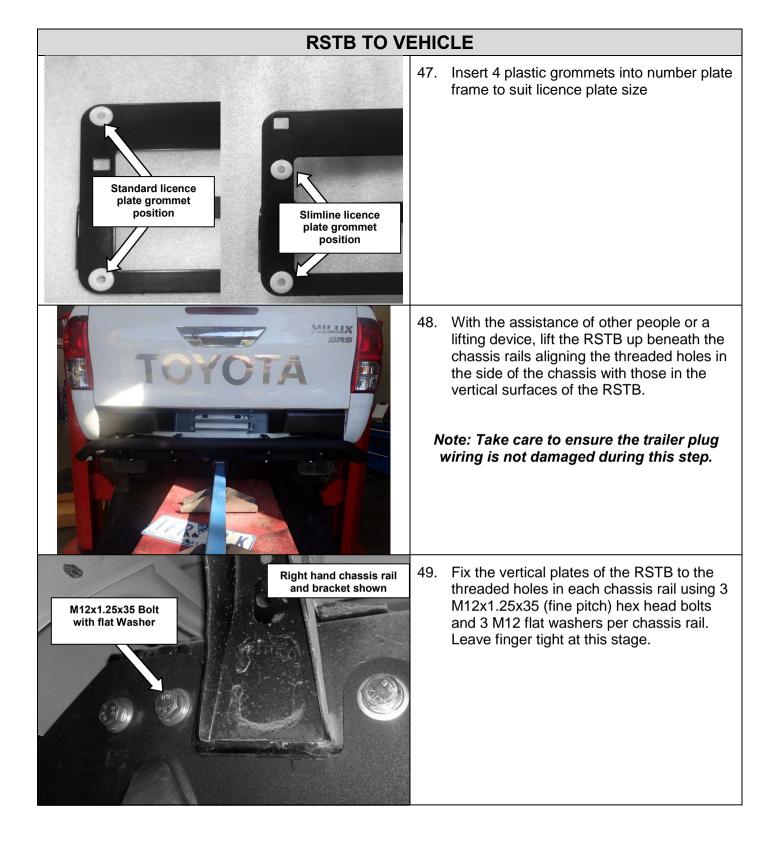
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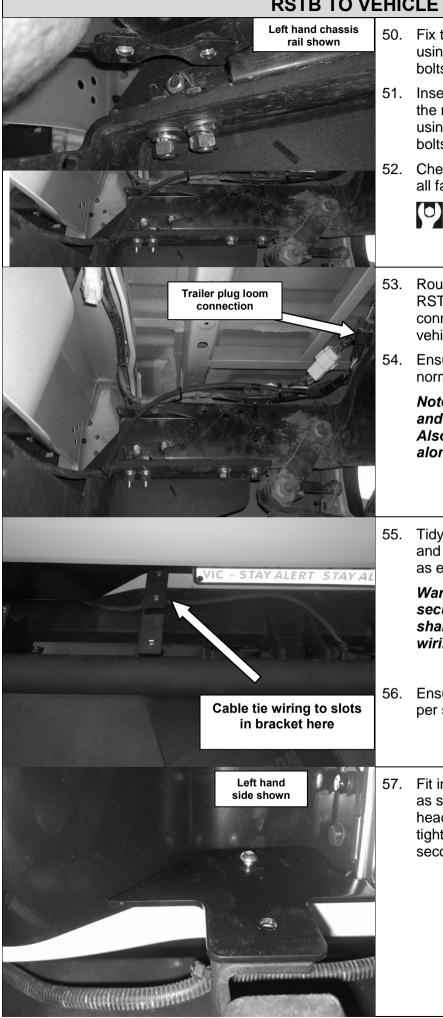




Nylon packer Mylon packer Model and washer	41.	Assemble LH license plate bracket as shown taking note of mounting bracket orientation. Repeat step for opposite side of license plate bracket. Tighten the screws enough so the brackets can be rotated by hand but not freely by themselves.
<image/>	43.	Complete assembly should look like picture shown.
	44.	Tighten the M6 bolts on both LH and RH brackets enough so the brackets can be rotated by hand but not freely by themselves.
	45. 46.	Fix the license plate assembly to the beaver panel using 4 M6x1.0x16 button head screws, 8 M6 flat washers (black), and 4 M6 nyloc nuts as shown. Tighten all screws to the specified torque.
M6x20 black button head fastener with black flat washer. M6 nyloc and flat black washer on tub inside face		M6 X 1.0 - 9 Nm .



RSTB TO VEHICLE



- Fix the front two horizontal mount points using M12x1.25x35 (fine pitch) hex head bolts, flat washer and nut.
- Insert chassis plate in chassis and fasten the remaining horizontal mount points using 2 M12x1.25x35 (fine pitch) hex head bolts and 2 M12 flat washers
- Check RSTB spacing to vehicle and tighten all fasteners to the specified torque.



- Route the trailer plug loom through the RSTB and attach to the appropriate connector on the RSTB wiring harness or vehicle loom as shown.
- Ensure all trailer tail lights function normally.

Note: Test that the trailer park, brake and reverse lights function normally. Also test the left and right indicators along with the hazard setting.

Tidy and fasten all wiring using cable ties and the slots in the RSTB brackets, as well as existing fastening locations.

Warning: Make sure all wires are securely fastened away from any hot, sharp or moving surfaces. Do not fasten wiring harness to fuel or brake lines.

Ensure trailer tail lights function normally as per step 54.

Fit infill plate on either side of licence plate as shown using 1 M6 X 16 Stainless button head screw per infill plate. Only hand tighten fastener at this stage ensuring second hole is aligned.

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62. Attach the step plate extrusion to the RSTB using 8 M6x1.0x16 button head screws. Proceed to tighten fasteners installed in step 61

NOTE: Do not install washers under the 8 M6 button head screws that are fixing the step plate extrusion to the RSTB

63. Reattach the spare wheel beneath the vehicle.

FITTED PRODUCT

