ARB FITTING INSTRUCTIONS

Part Number: **3414760**

Description: **TOYOTA HILUX GR SPORT SUMMIT MKII BULLBAR**

Suited to vehicle/s: **TOYOTA HILUX GR SPORT**

Optional Fitting Kits: **3500630– FLIP UP NUMBER PLATE KIT FOR WINCH INSTALLATION**
3501070 – SUMMIT RFL COVER MATT BLACK | DOES NOT SUIT 200 OR Y62

WARNING

REGARDING VEHICLES EQUIPPED WITH SRS AIRBAG;

When installed in accordance with these instructions, the front protection bar does not affect operation of the SRS airbag.

ALSO, 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 bull bar component, contact your nearest authorised ARB stockist. Repairs or modifications to the impact absorption system must not be attempted.
- Do not use this product for any vehicle make or model, other than those specified by ARB.
- Do not remove labels from this bull 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.

ARB 4x4 ACCESSORIES

Corporate Head Office

42-44 Garden St
Kilsyth, Victoria
AUSTRALIA, 3137

Tel: +61 (3) 9761 6622
Fax: +61 (3) 9761 6807

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

www.arb.com.au

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

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 Carnauba 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	ELECTRIC DRILL WITH COMPLETE METRIC DRILL SET
JIG SAW OR OSCILATING MULTITOOL WITH BLADE SUITABLE FOR PLASTIC	LOW TACK MASKING TAPE
FILE	UTILITY KNIFE
TAPE MEASURE	CLAMP
STEEL RULE	WHITE FELT MARKER
HACK SAW	TORQUE WRENCH
TOUCH UP PAINT ANTI CORROSION	RIGHT ANGLE ELECTRIC DRILL

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:

SIZE	Torque Nm	Torque lbft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

WINCH COMPATIBILITY:

WINCH MODEL	ADDITIONAL KITS
Zeon 8:	**W90394** WARN REMOTE SOCKET KIT
Zeon 8s:	**W90394** WARN REMOTE SOCKET KIT & **3500600** HAWSE FAIRLEAD ADAPTER KIT
Zeon 10:	**W90394** WARN REMOTE SOCKET KIT
Zeon 10s	**W90394** WARN REMOTE SOCKET KIT & **3500600** HAWSE FAIRLEAD ADAPTER KIT
Zeon 10 Platinum:	**W89965** WARN ZEON EXTENDED CABLE KIT
Zeon 10-s Platinum:	**W89965** WARN ZEON EXTENDED CABLE KIT **& 3500600** HAWSE FAIRLEAD ADAPTER KIT
VR EVO 8:	**W106928** KIT WIRE EXTENSION VR EVO
VR EVO 8s:	**W106928** KIT WIRE EXTENSION VR EVO **& 3500600** HAWSE FAIRLEAD ADAPTER KIT
VR EVO 10:	**W106928** KIT WIRE EXTENSION VR EVO
VR EVO 10s:	**W106928** KIT WIRE EXTENSION VR EVO **& 3500600** HAWSE FAIRLEAD ADAPTER KIT
Bushranger Covert 10-w	**-**
Bushranger Covert 10-s	**3500600** HAWSE FAIRLEAD ADAPTER KIT

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

PARTS LISTING

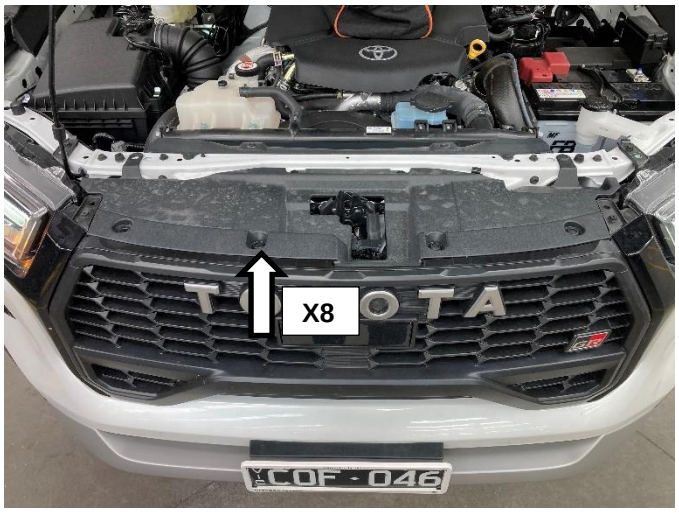
APPLICATION.	PART NO.	QTY	DESCRIPTION
MOUNTS TO VEHICLE	3194818	4	PLATE NUT ASSY HILUX BAR 15ON
	3759666L	1	BRKT CHASSIS IN HILUX 15ON LHS
	3759666R	1	BRKT CHASSIS IN HILUX 15ON RHS
	3759667L	1	BRKT CHASSIS OUT HILUX 15ON LH
	3759667R	1	BRKT CHASSIS OUT HILUX 15ON RH|
	4581007	2	WASHER FLAT 1/2x1 1/2x4mm | TZP SILVER T
	4581040	16	WASHER FLAT M10x25x3 | TZP480
	37500266L	1	MOUNT ASSY LHS SUIT HILUX GR
	37500266R	1	MOUNT ASSY RHS SUIT HILUX GR
	6151094	2	BOLT HXHD M12x1.25x30 | PC8.8 ZP
	6151428	10	NUT FLANGE M12x1.75 | PC8.8 SERRATED
	6151752	12	NUT FLANGE M10x1.5 | PC8.8 BTZP480
	6151965	12	BOLT HXHD FL M10x1.5x30 | PC8.8 ZNB480
	6152127	18	BOLT HXHD FL M12x1.75x30 | PC8.8 ZNS480
BUFFERS & MOULDINGS	3163316	1	RDR CVR LRG, SUIT SUMMIT
	3163294	1	KIT, CVR STRAP SUIT SUMMIT
	3163295	1	KIT, GRILLE OUTER SUIT SUMMIT
	37500180L	1	BRKT SUPPORT GRILLE LHS
	37500180R	1	BRKT SUPPORT GRILLE RHS
	4584329	4	WASHER FLAT M6x12.2x1.2 | BTZP480
	6151173	4	NUT FLANGE M6 | ZNB480 SERRATED
	6151459	4	SCREW BHD M6x16 | BTZP480
UNDER PANELS	6151301	4	NUT CAGED M8 3.3-4.7 | 1238-C
	6151526	10	NUT CAGED M6 1.8-2.7 | BZP480
	6151655	3	NUT FLANGE M8x1.25 | PC8 TZP480 ENS 14/002
	6151730	7	BOLT HXHD FL M8x1.25x20 | FT PC8.8 BZP480 ENS14-001
	6152008	10	BOLT HXHD FL M6x1.0x25 | PC8.8 ZNB480
	6523658L	1	WING PANEL LHS SUIT HILUX GR
	6523658R	1	WING PANEL RHS SUIT HILUX GR
	6523684	1	STONE TRAY SUIT HILUX GR
WINCH COVER PANEL FITMENT (IF NO WINCH IS FITTED)	4584329	8	WASHER FLAT M6x12.2x1.2 | BTZP480
	6151213	4	BOLT HXHD M6x1.0x20 | PC8.8 ZNB480
	6151223	4	NUT HEX NYLOC M6x1.0 | ZNB480
	6523639	1	PANEL WINCH COVER FMB
NUMBER PLATE	4584329	2	WASHER FLAT M6x12.2x1.2 | BTZP480
	5848302	2	PACKER RB NYLON
	6151173	2	NUT FLANGE M6 | ZNB480 SERRATED
	6151459	2	SCREW BHD M6x16 | BTZP480

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

PARTS LISTING - CONTINUED

LIGHTS & SENSORS	3514130	1	SENSOR SURROUND KIT | SUMMIT MKII HILUX
	3500991	1	LAMP CLUSTER, ARB SUMMIT | RH&LS LAMP SET
	37500179L	1	BRKT SUPPORT FOG CLUSTER L
	37500179R	1	BRKT SUPPORT FOG CLUSTER R
	6151173	4	NUT FLANGE M6 | ZNB480 SERRATED
	6151300	2	NUT CAGED M6 2.6-3.5 | 956-C
	6152008	2	BOLT HXHD FL M6x1.0x25 | PC8.8 ZNB480
	6152094	2	SCREW PHD M6x1.0x30 | PC8.8 TX ZNB 480
	6821454	1	LIGHTING HARNESS FOG CLUSTER | SUIT MKII SUMMIT HILUX 20 ON
	6821451	1	HARNESS EXTENSION SUITS TOYOTA
	6821456	1	RADAR HARNESS EXTENSION
	37500169	1	BRACKET CAMERA RELOCATION
	37500120	1	RADAR BRKT LOWER
	37500121	1	RADAR BRKT UPPER
	5670069	2	SPRING COMP STAINLESS 25X6.0ID
	4584421	2	WASHER FLAT M6x18x1.6 NYLON
	6152051	2	SCREW ST PHD 5.2x14 | BP PC8.8 ZNB480
	6151584	2	BOLT HXHD M6x1.0x40 | PC8.8 BTZP
	6151223	6	NUT HEX NYLOC M6x1.0 | ZNB480
	4584329	16	WASHER FLAT M6x12.2x1.2 | BTZP480
	6151459	10	SCREW BHD M6x16 | BTZP480
MISC	180302	8	CABLE TIE 4.8 X 180 MM BLACK
	6191030	1	PINCH WELD 520mm
	6602018	1	ALCHOL SWAB SINGLE SACHET
	665044	1	3M PRIMER STICK
	6781408	1	TAPE DOUBLE SIDED 0.8 x 15 x 300
TEMPLATE	37800214	1	TEMPLATE FLARE CUT 3414760

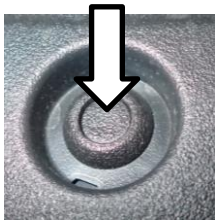
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



Note: Read the instructions thoroughly before starting.

1. Open the bonnet and remove all scrivets (8) retaining plastic cover.Set aside scrivets removed for re-use later on. Remove plastic cover from above grille and set aside, this will be reused.

   TIP: Depress centre to remove.





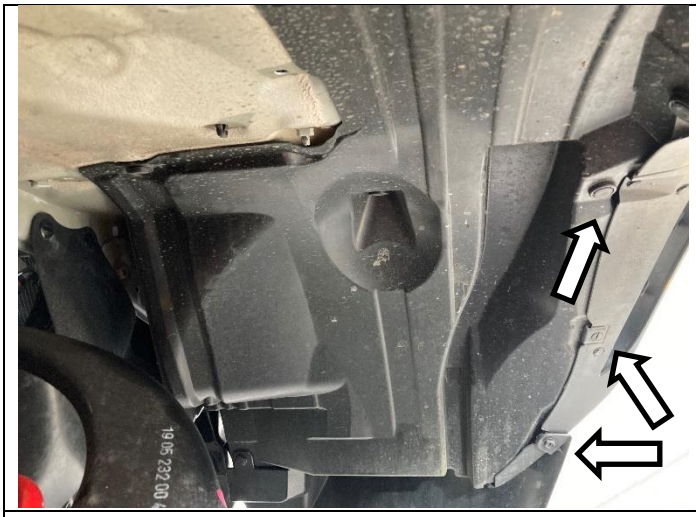
2. Remove upper grille retaining screws (4). Set aside for re-fitment later on.

   Remove centre grille retaining screw (see arrow)
   Set aside for re-fitment later on.



3. Gently unclip and pull back the top outside corners of the grille to reveal final two screws retaining grille. Using an extension and socket, remove and set aside for re-fitment later on.

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



4. Remove all fasteners and scrivets retaining bumper along inside edge of wheel arches – (Right hand side shown).

   Set aside for re-fitment later on.



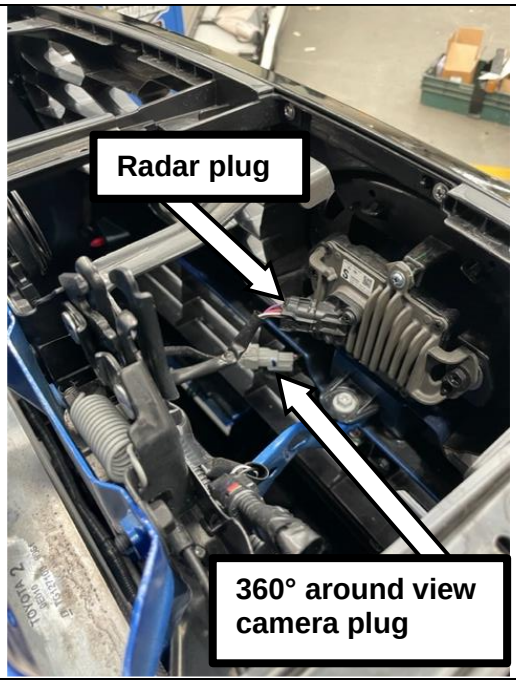
5. Remove all fasteners and scrivets retaining bumper along lower lip.

   Set aside scrivets and fasteners used to attach bumper to OEM stone deflector for re-use later on.



6. Remove dressing piece from underside of bumper and discard.

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



7. The GR Sport Hilux is equipped with Toyota Safety sense and 360° around view camera. Locate the plugs (positioned behind the badge on the grille) and unplug from their respective units prior to proceeding.



8. Ensure inner guards are unclipped from front bumper.



9. Disconnect fog light wiring and front parking sensors – (Left Hand side shown).

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



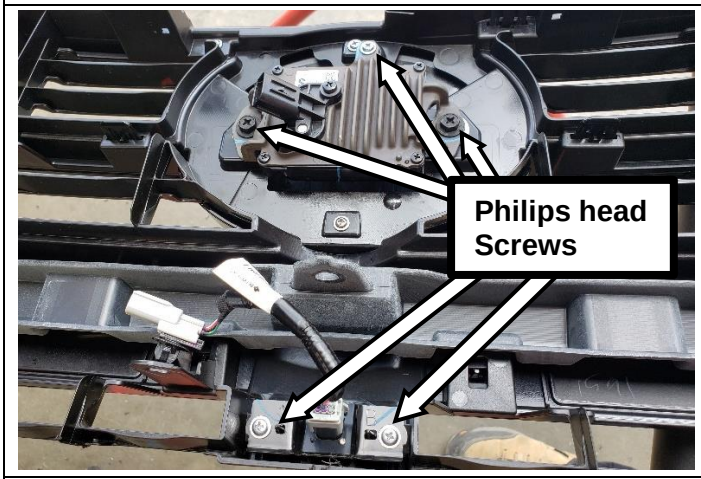
10. Remove registration plate and set aside, then carefully remove bumper from vehicle by pulling on each side of the bumper near the wheel arches and working your way towards the centre.

    Set grille and bumper aside on a soft non-marking surface for re-use later in the fitment procedure.



11. Using a paint pen or white marker, label each parking sensor (Left or Right) prior to removing from bumper.

    Once marked, unclip parking sensors (2) from bumper and store for reuse.



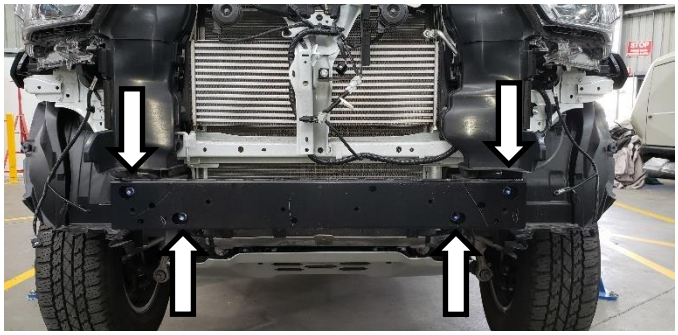
12. If equipped, remove the camera and/or radar module by removing the five Philips head screws connecting them to the grille.



13. Remove plastic lower crush absorber from vehicle and discard.

    Note: Lower crush absorber is retained by plastic clips. Levering absorber free with a large screw driver may aid removal.

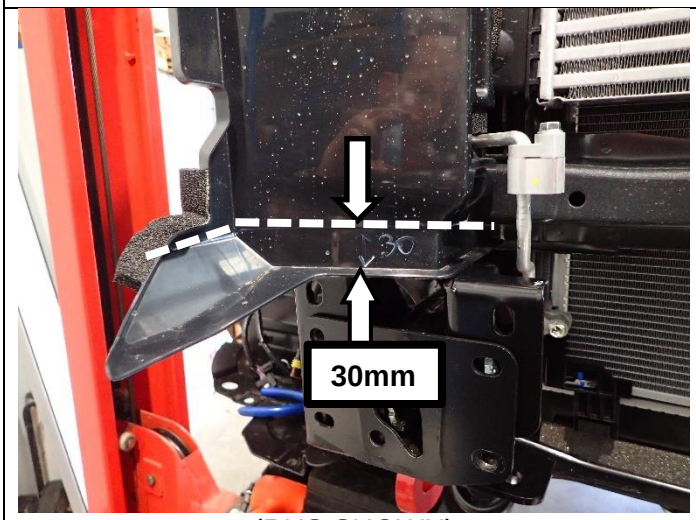
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



14. Remove two M10 bolts on both sides (4 total) fixing crash beam to chassis and remove crash beam.

    Discard crash beam.

    Note: Retain four M10 bolts for reuse.



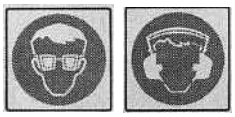
(RHS SHOWN)



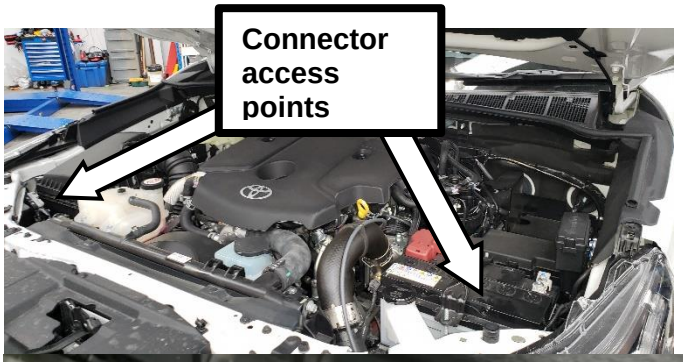
15. Locate air deflector panels and mark up 30mm from bottom edge as detailed in the image – (Right Hand side shown).
16. Use an oscillating multitool or shears to carefully cut lower portion away and discard.

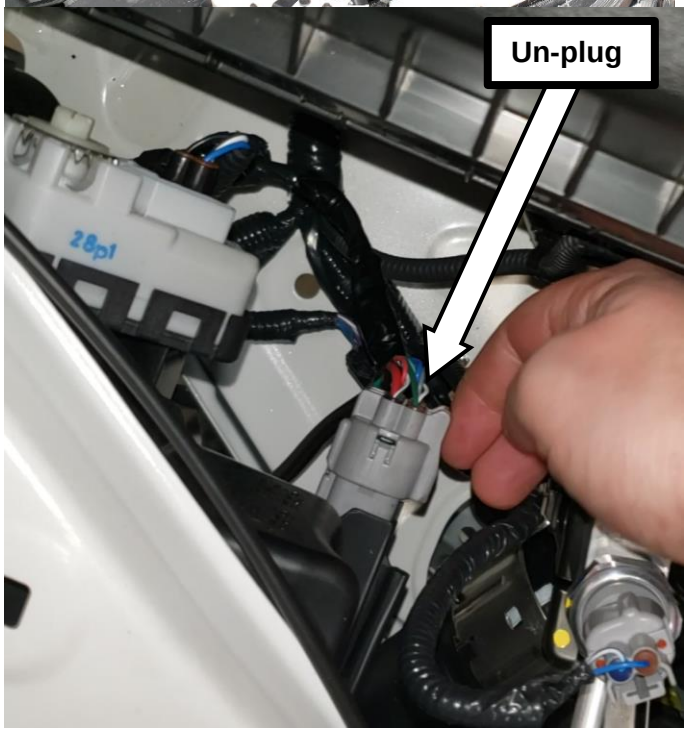
    Note: Take care not to damage any other components on the vehicle whilst cutting.

17. Carefully remove any burrs or sharp edges with a file and/or sandpaper.

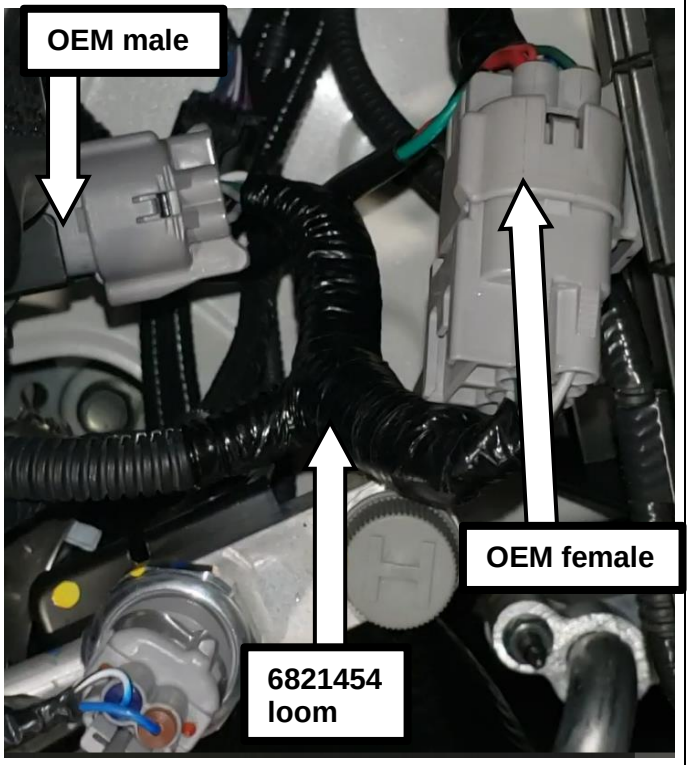


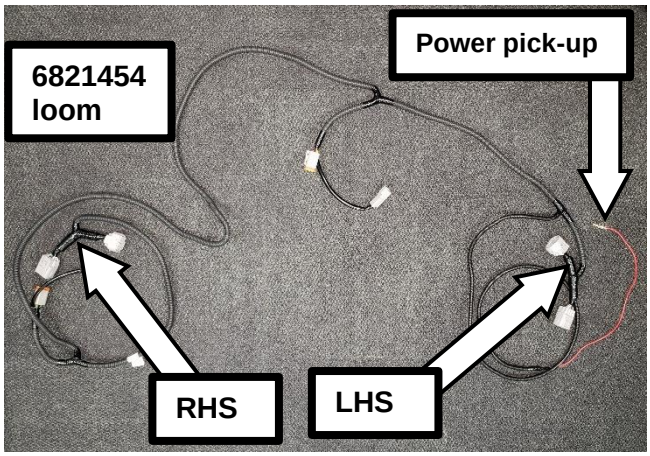
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

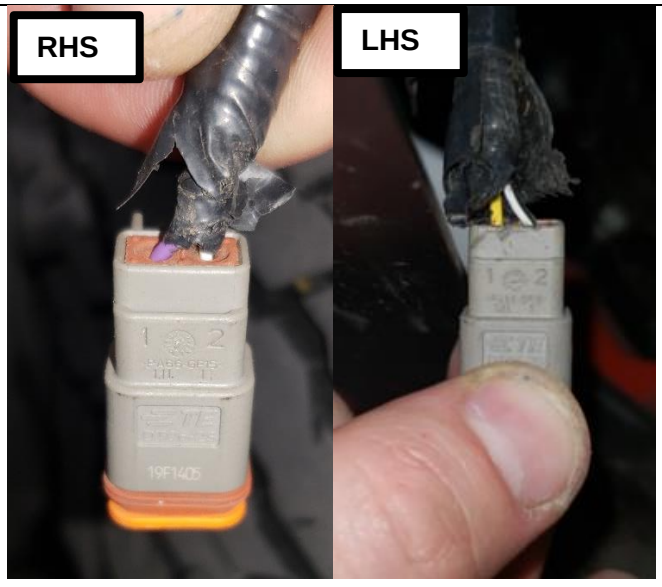




18. From the inside of the engine bay, unplug the grey OEM connector from each headlight. Plugin the corresponding male/female connectors from the wiring loom 6821454 (provided in the kit) into the OEM connectors.



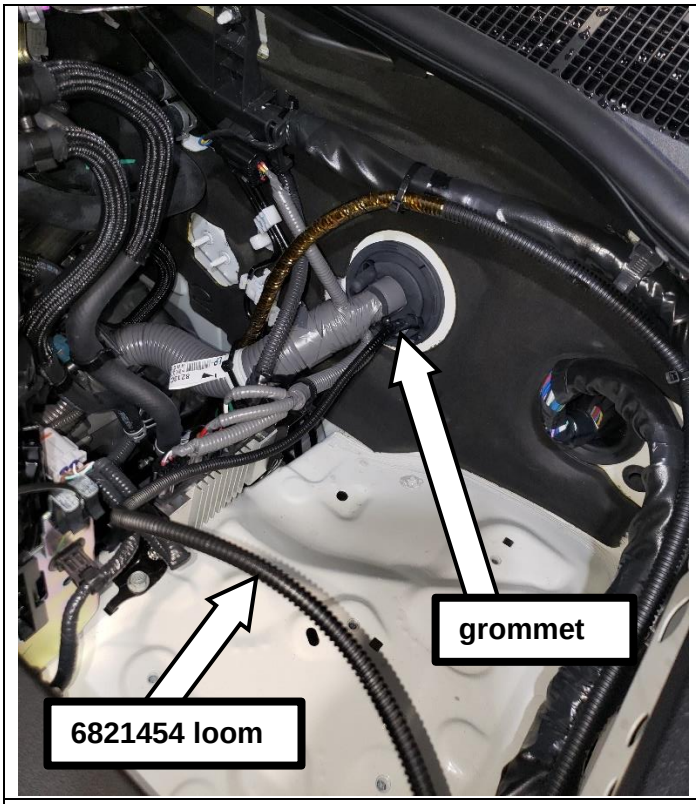




19. Cut the OEM connector off the loom for the OEM foglights and fit the deutsch connectors as shown.

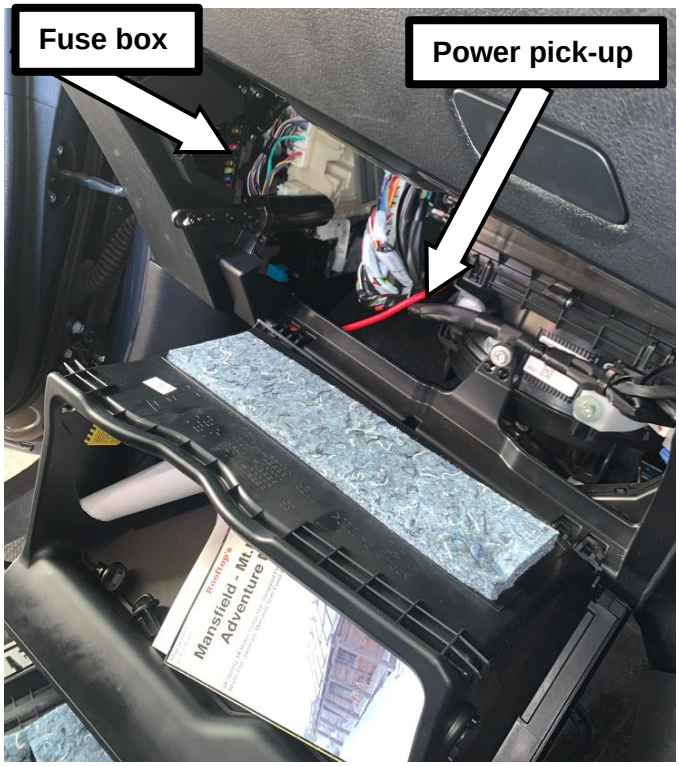
Side	Deutsch Pin	Vehicle Wire Colour
RHS	1	Purple
RHS	2	White/Black
LHS	1	Yellow
LHS	2	White/Black

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

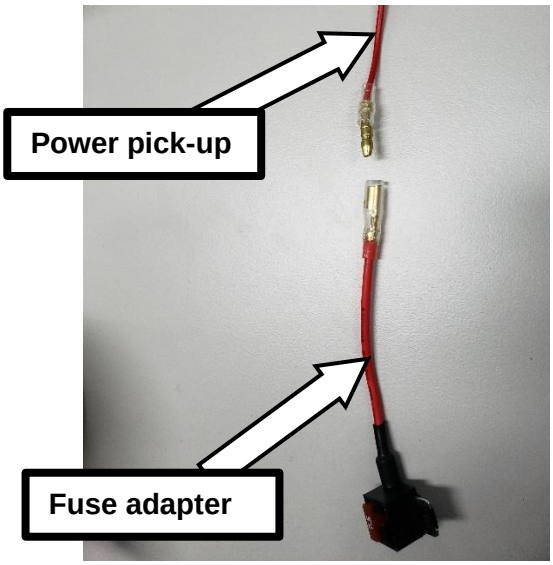


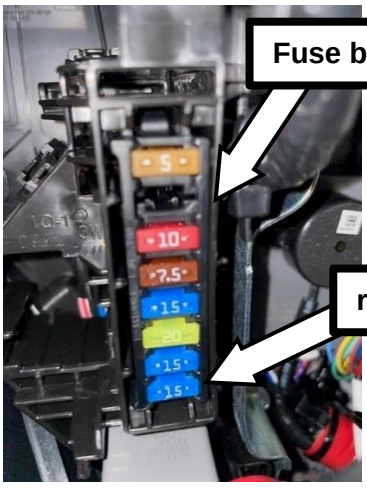
20. Located in the rear left hand side of the engine bay, cut the end of the grommet nipple, and feed the power pick-up end of the 6821454 through the firewall.



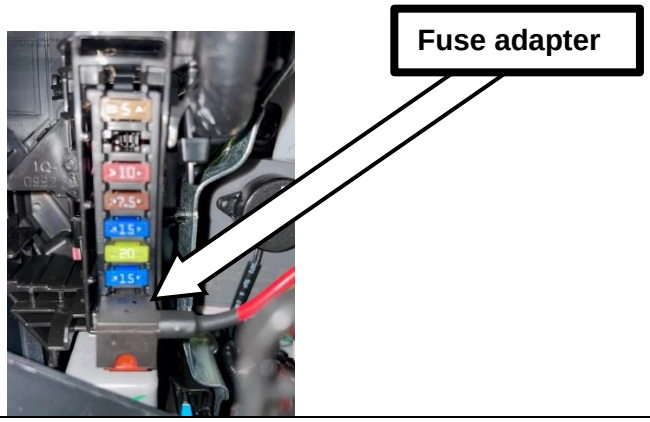


21. Drop the glove box in accordance with the vehicle manual to gain access to the fuse box located behind.
22. Connect the fuse adapter to the end of the power pick-up end.





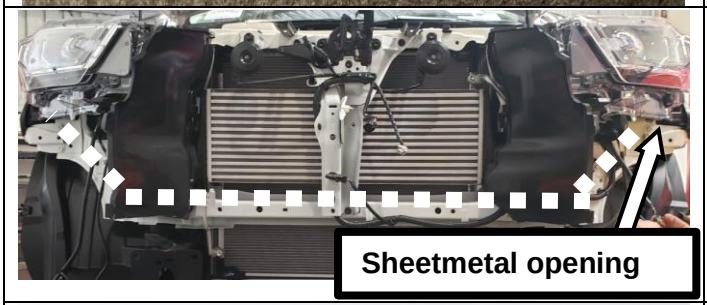
23. Remove the bottom fuse in the fuse box, and place in the empty spot in the fuse adapter.



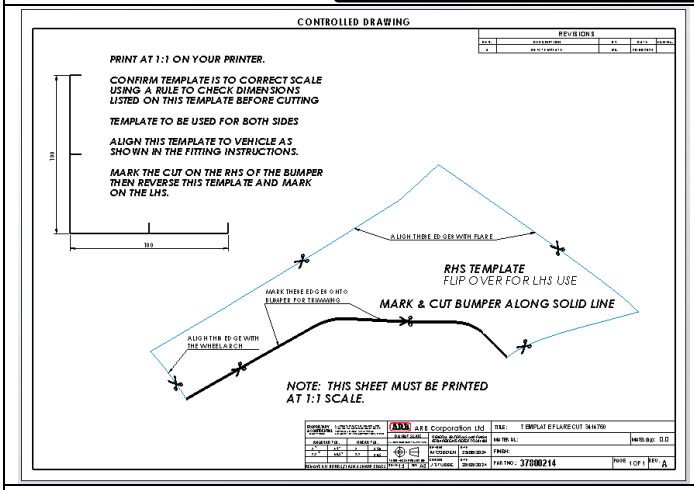
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



24. Trim the fuse box cover, and reconnect over fuse box.
25. Reinstall glovebox as per vehicle manual.



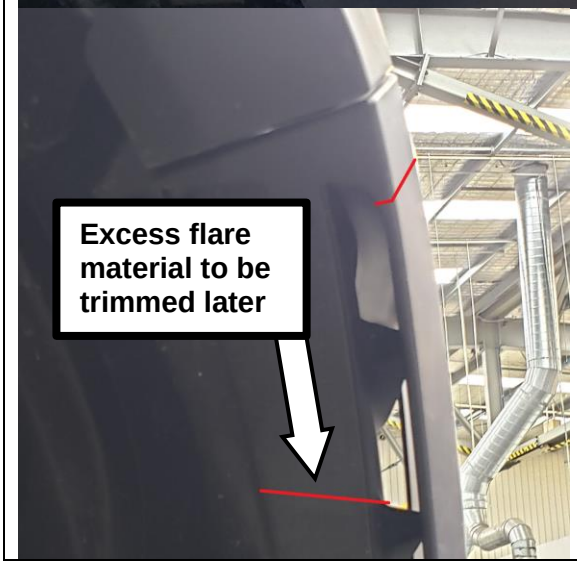
26. Ensure wiring loom 6821454 is routed down through the opening in the sheetmetal behind the headlight, and across the air deflectors.



27. Carefully cut out flare/bumper cut template supplied.

28. **Note: Template will be used for both sides (LH & RH) – be careful not to damage.**





29. Stick masking tape onto flare at area underneath headlight running the tape well in towards the centre of the bumper.

30. Position template onto the flare aligning with edges of bumper specified on template.

31. Using a permanent marker, outline edges of bumper cut template onto masking tape where the flare and bumper cut will be performed.

    Cut path shown. Leave excess material on flare in the wheel arch to be trimmed later.

    Remove template and repeat for LHS. Take care not to rip template upon removal.

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



32. Identify the solid section running through the grille as pictured. The grille will be trimmed immediately below this feature.

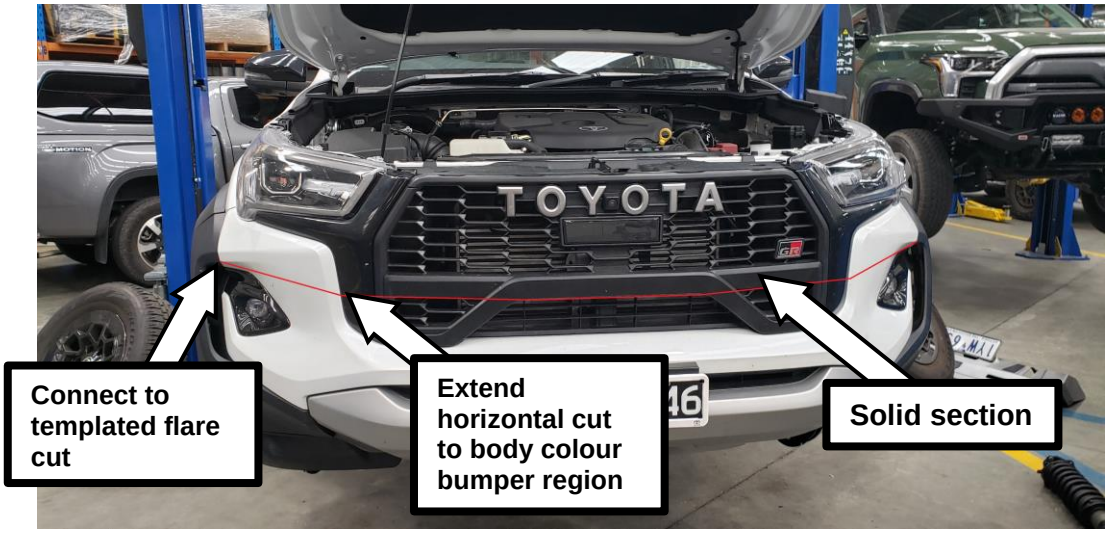
    Apply a generous amount of masking tape in the area indicated on the grille. Extend horizontal line to the body colour section of the bumper.

33. Using a ruler draw a continuous straight line from the edge of the cutting template to the line marked in the previous step.

    Note: A steel rule or tape measure can be used as a guide for marking out.

34. Repeat above for LHS.

35. Final cut line should appear as shown below, connecting to the templated cut on the flares:

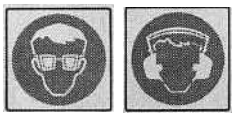


Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



36. Carefully cut bumper along marked lines using an oscilatting multitool or jig saw.
    Repeat for LHS.

37. Discard lower grille and bumper section, this will not be reused



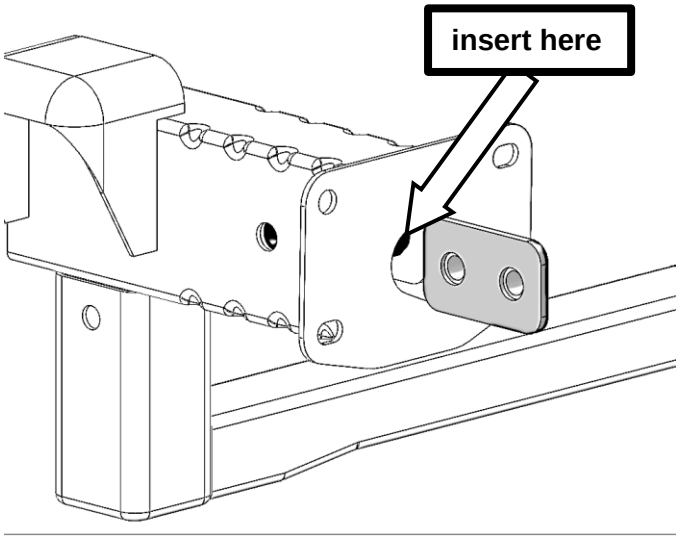
Warning: Cutting operations can result in flying debris, safety glasses should be worn.

38. Re-install trimmed bumper and grille using OEM fasteners removed in previous steps.

    Ensure both scrivets are fitted inside wheel arches on each side, as well as the obscured screws between the grill and headlight shown in Step 3.

39. Fit Pinch weld to RH side along the cut edge on the flare. Carefully trim off any excess length and use remainder for other side.

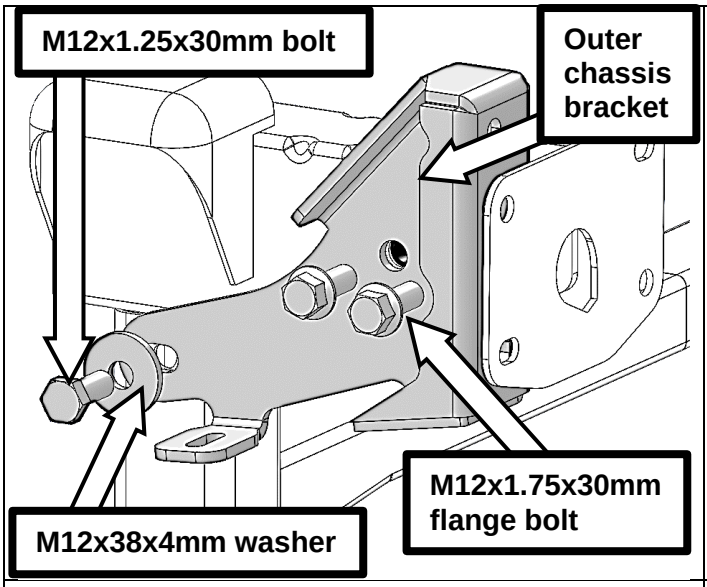
    Note: 1 full length of pinch weld supplied, ½ used on each side of vehicle.



40. Insert two M12x1.75 nut plate into RHS chassis rail as shown.

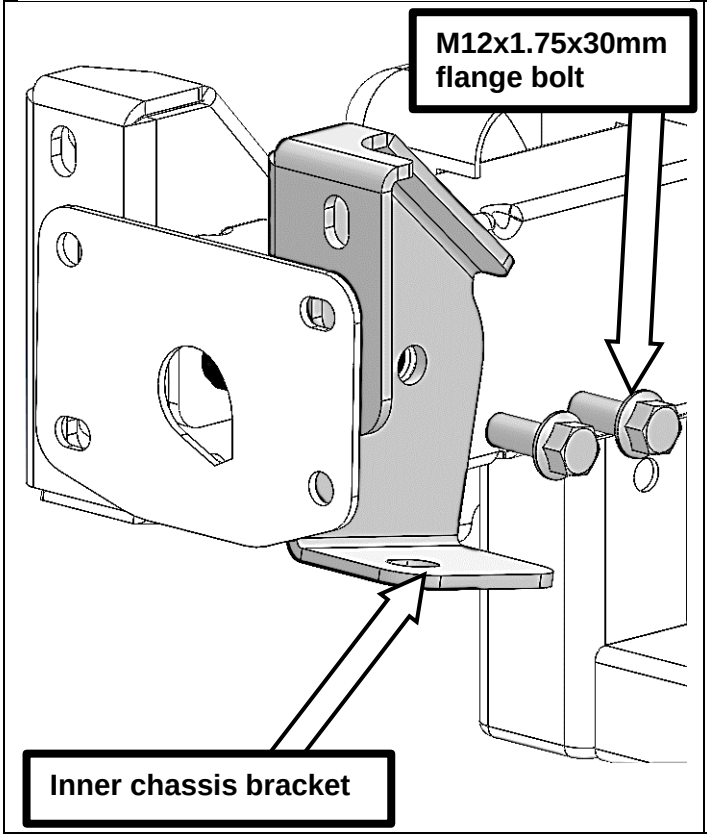
    Note: 1 x nut plate is used to fasten the outer chassis support to the outside face of the chassis and 1 x nut plate is to fasten the inner chassis support to the inner face of the chassis. Install nut plates accordingly.

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



41. Loosely fasten RHS outer chassis support bracket to outside face of chassis using two M12x1.75x30mm flange bolts installed into the previously installed nut plate.

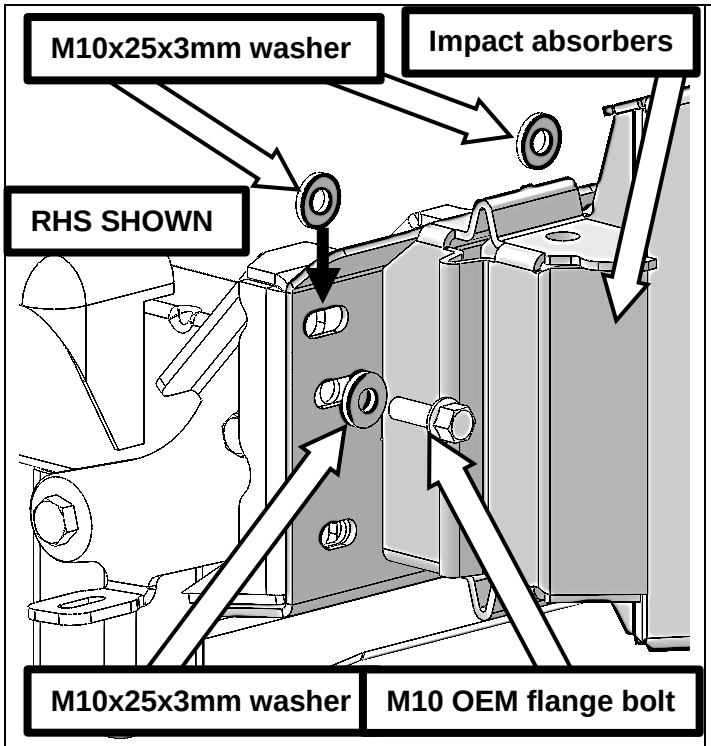
42. Loosely fasten the RHS outer chassis support bracket at the rear hole using one M12x1.25x30 bolt and M12x38x4mm flat washer installed into OEM captive nut in the chassis bracing.



43. Loosely fasten RHS inner chassis support bracket to inside chassis face using two M12x1.75x30mm flange bolts installed through the holes into the previously installed nut plate.

44. Repeat process to install chassis support brackets on LHS .

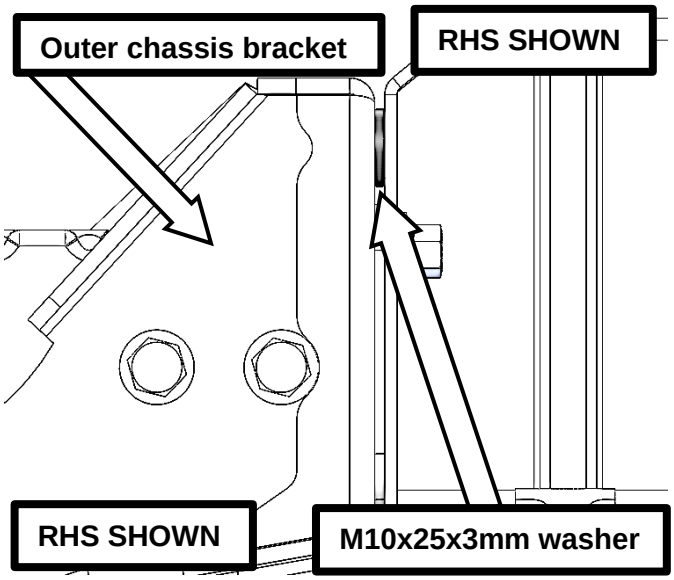
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

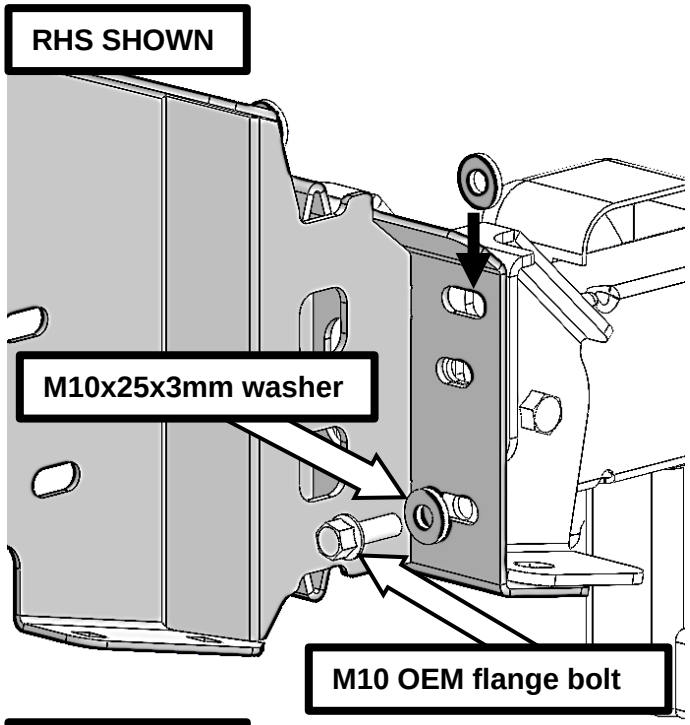


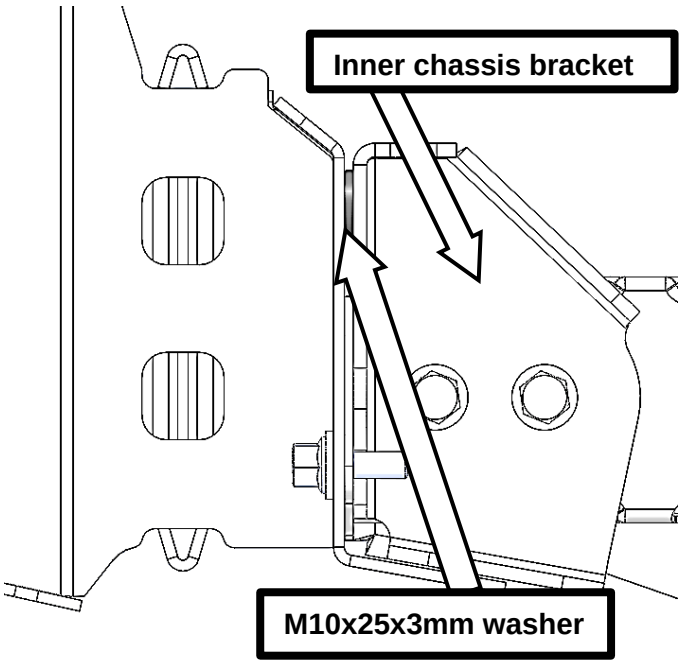
45. Loosely install the bull bar impact absorbers onto vehicle chassis flange by fastening two OEM M10 flange bolts (retained in step 14) and two M10x25x3mm flat washers into the chassis flange captive nuts.

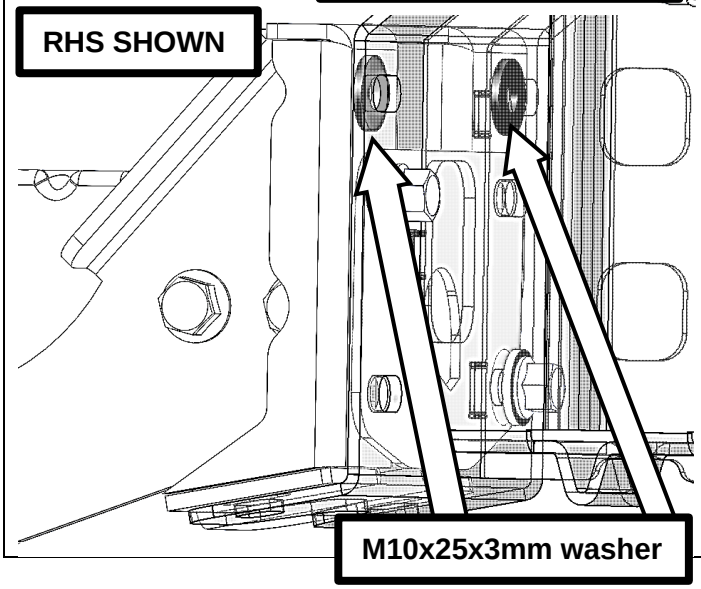
IMPORTANT

46. Ensure two M10x25x3mm flat washers are installed inline with the top impact absorber slots, between the impact absorbers and rear chassis support brackets.

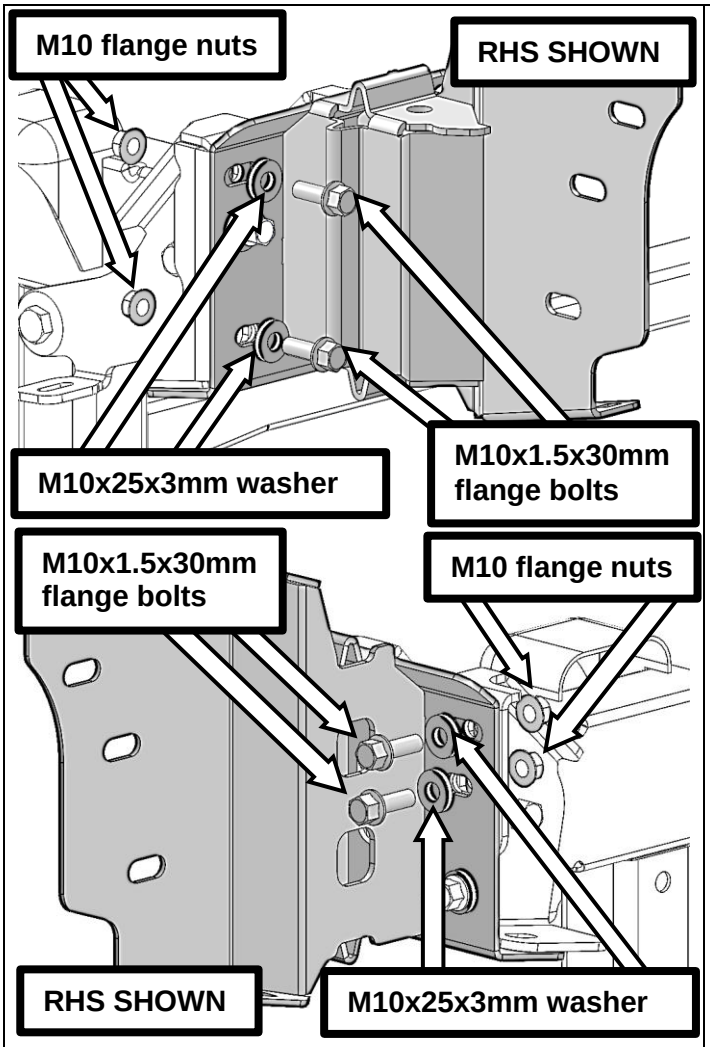






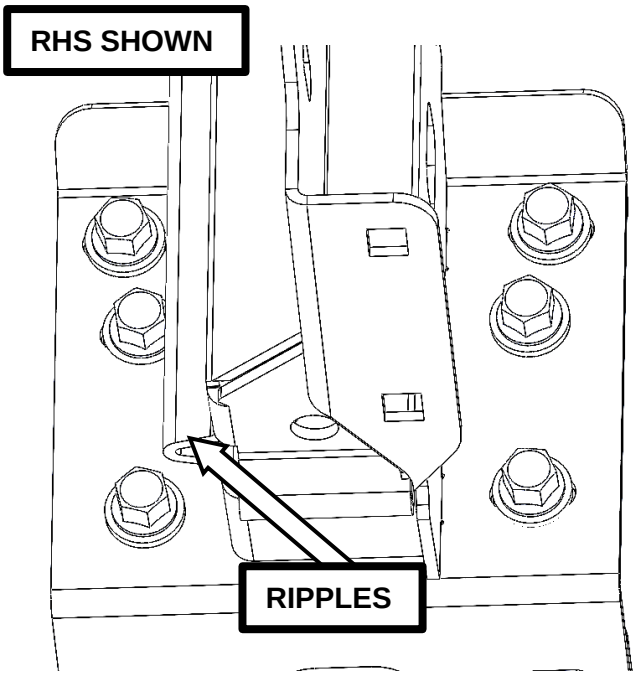


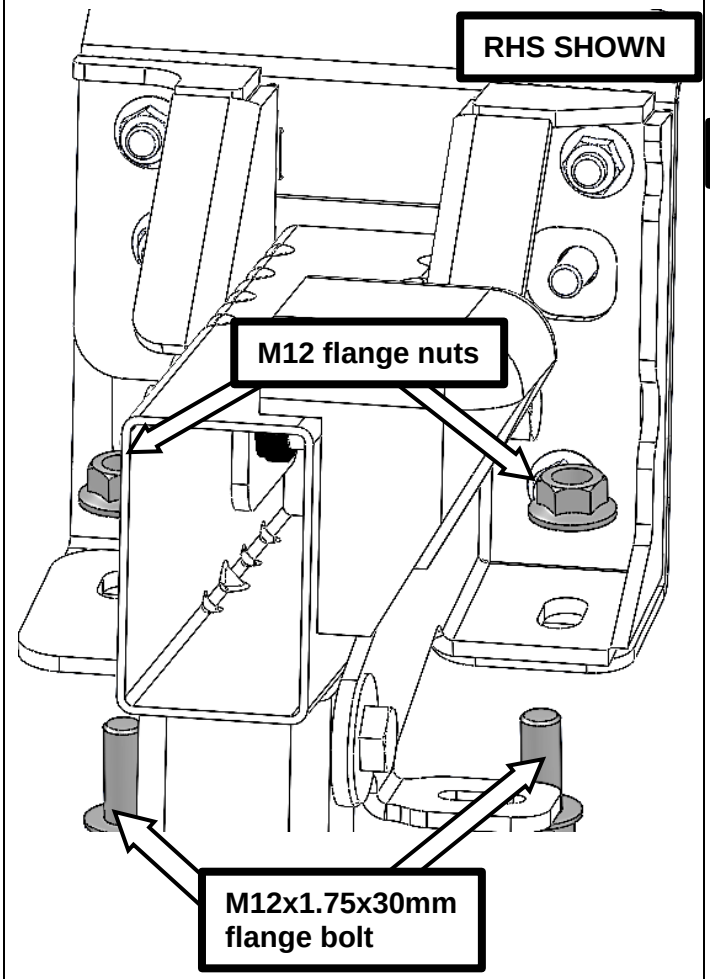
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



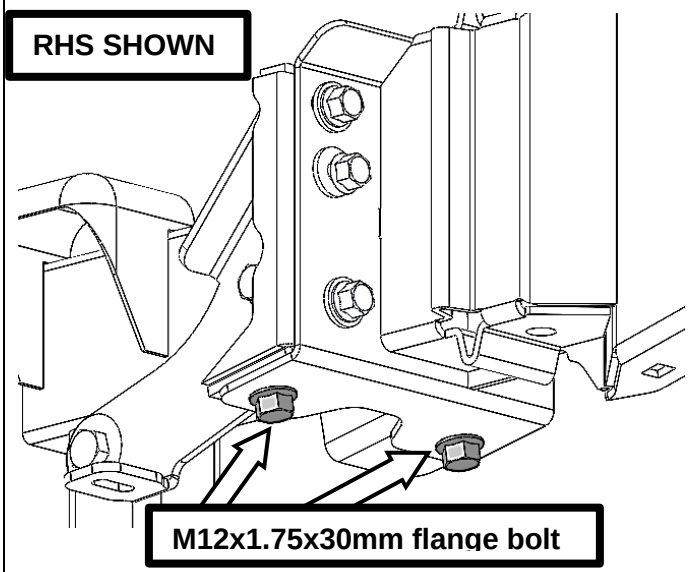
47. Loosely fasten four M10x1.5x30mm flange bolts, M10x25x3mm flat washers, M10 flange nuts through bull bar impact absorbers, chassis flange and rear chassis support brackets.

NOTE: IMPACT ABSORBERS ARE HANDED. RIPPLES ARE ON THE OUTSIDE OF MOUNTS





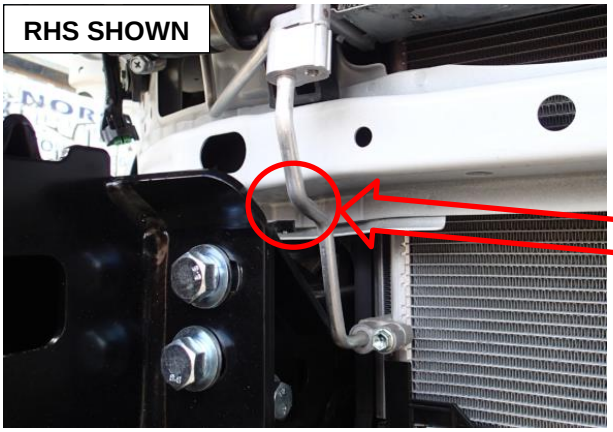
48. Loosely install two M12x30 flange bolts through lower slot of the impact absorbers and chassis support brackets into M12 flange nuts.



49. Repeat process to install impact absorbers on the LHS.

Note: Starting with the M10 bolts installed from the front of the impact absorber, tighten all fasteners enough to eliminate any play in mount or support brackets but to still allow for adjustment of bull bar.

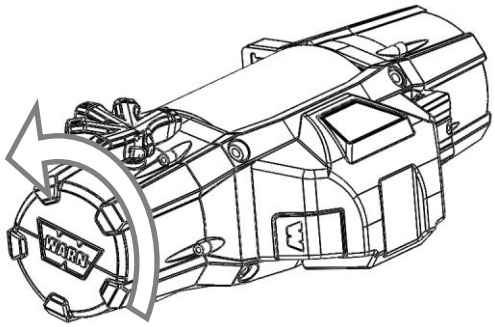
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



50. Check clearance between mount and AC line is approximately 15mm.

NOTE:
If necessary the AC tube can be carefully bent away from the bracket by pushing the top section towards the vehicle.
While bending the tube. Make sure you support the lower fittings to avoid damage.

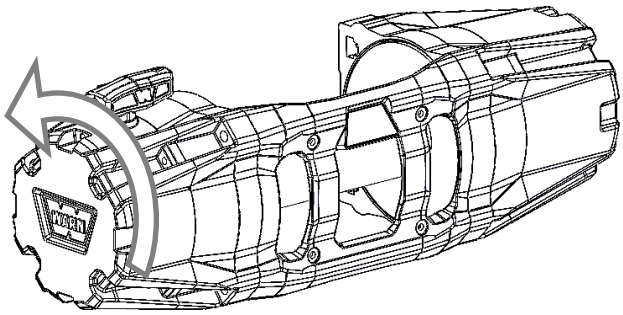
51. If fitting winch, continue from here for respective winch installation instructions. If not fitting winch, skip to step 52.

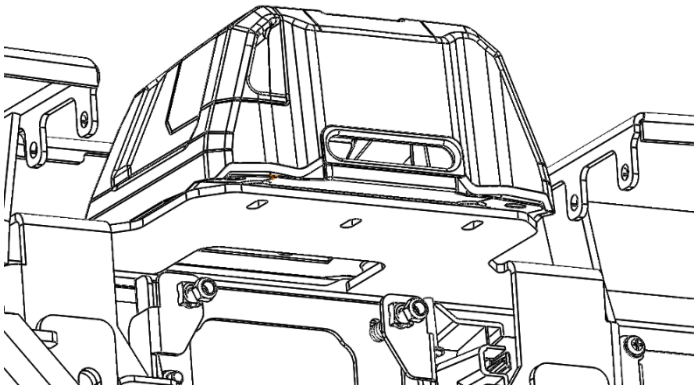


Warn Zeon winches*: Undo the screws in the gearbox end of the winch. Carefully slide the gearbox away from the winch only until it is able to rotate. Rotate the gear box anti-clockwise 72° and replace screws.

Install the Warn Zeon remote socket relocation kit W90394 to the winch.

***Not required for Zeon Platinum models.**





HINT: Apply some split cable protection conduit to the winch cables where they pass behind the Bull Bar

Warn VR Evo Winches: Undo the screws in the gearbox end of the winch. Carefully slide the gearbox away from the winch only until it is able to rotate. Rotate the gear box anti-clockwise 90° and replace screws.
Remove the control box as per the VR Evo control pack relocation kit guide.

Install the Warn VR Evo wire extension kit W106928 to the winch and control box.

1. Referring to instructions supplied in Warn kit W106928, separate control box from winch.

   Retain the M5 cap screws.

2. Mount the Control Box to the winch cradle using three of the original M5 cap screws retained from previous step and three M6x16 washers.

   M5 – 5 **Nm.**

3. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip.

   Pass the rear cables downwards between the bar and the trimmed Bumper. Route and cable tie the control box cables clear of the winch spool.

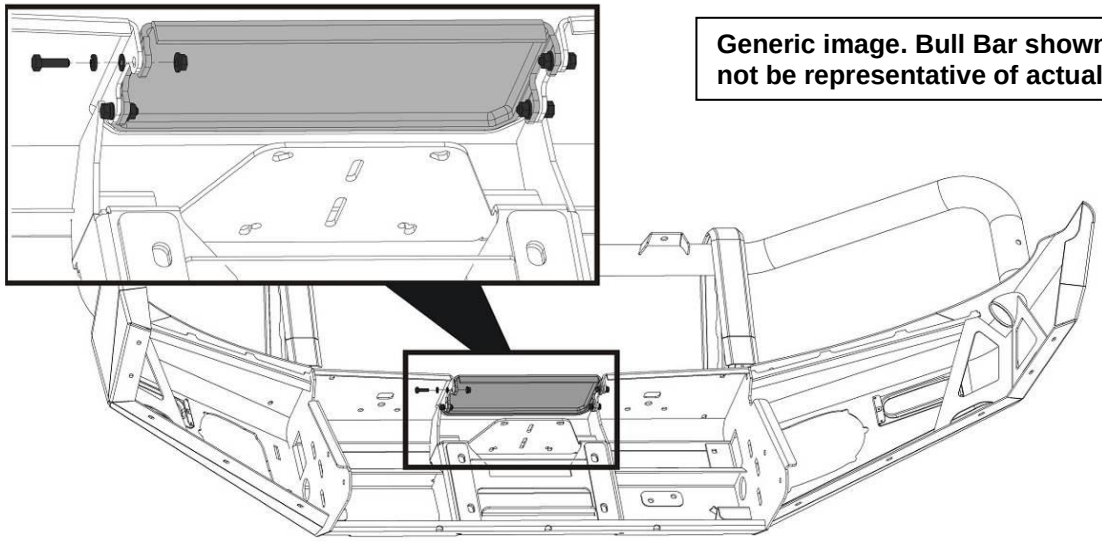
Bushranger Covert variants are directly compatible and do not need to be clocked for installation.

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

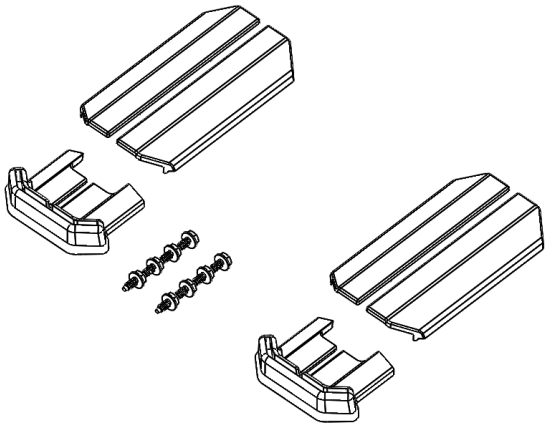
52. Slide the winch cover panel from the bottom up until it is level with the top face of the bar.

53. Fit the winch cover panel to the bar using 4 x M6 x 20 hex bolts, flat washers and nyloc nuts.

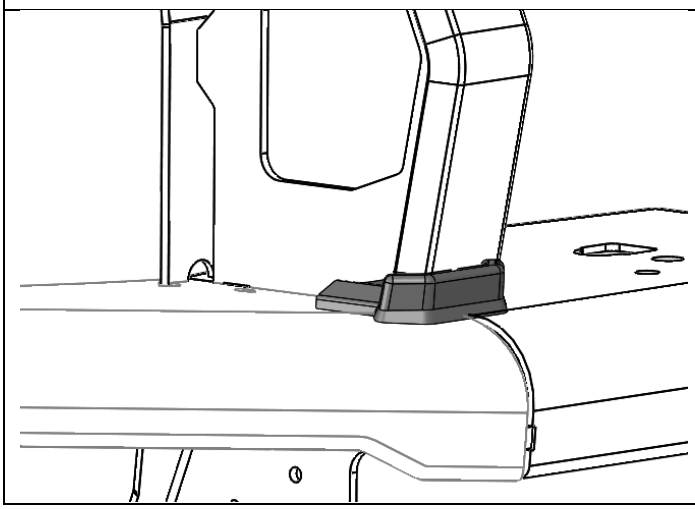
Warning: Be careful not to scratch the finish of the winch cover panel.



Generic image. Bull Bar shown may not be representative of actual product.



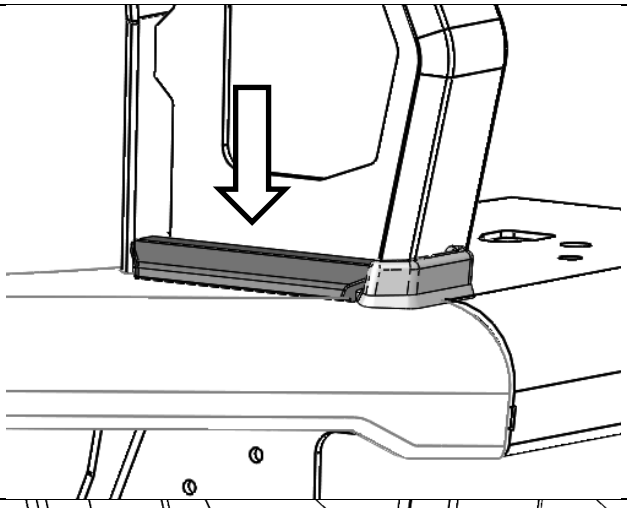
54. Identify the cover strap plastics kit, 3163294.



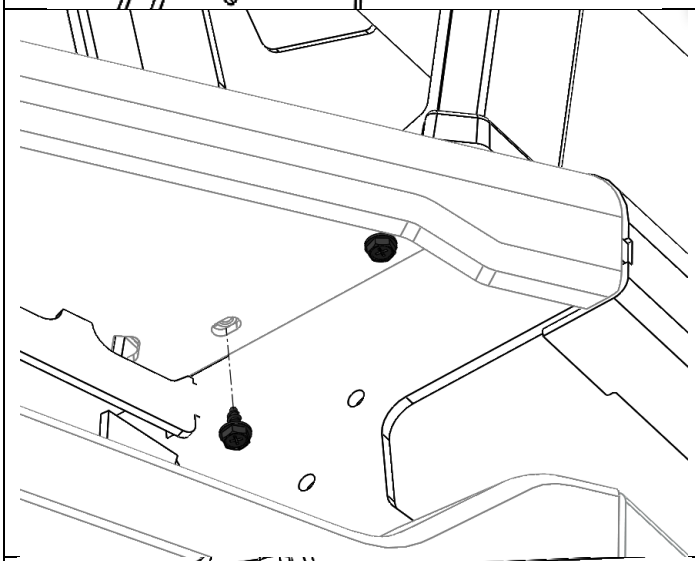
55. Fit the rubber intersection mouldings to the base of each upright cover strap.

Ensure that the skirt of the rubber moulding is not folded back on itself and is sitting flat against the bull bar.

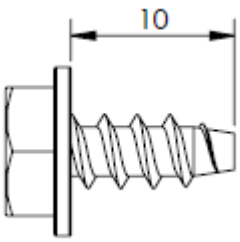
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

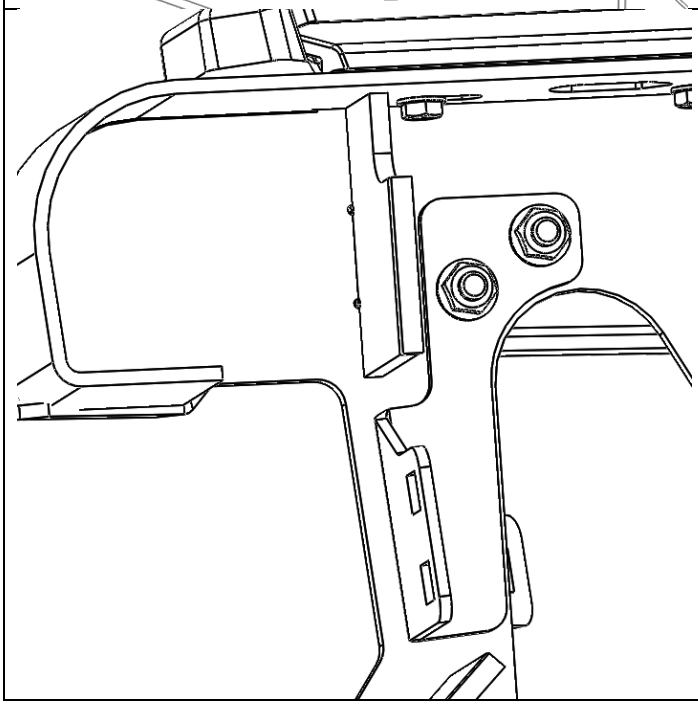


56. Place the plastic cover down onto the rubber moulding, repeat on both sides of the cover straps.



57. From underneath, fit two screws into each plastic cover. Tighten until the covers are secure and have firmly clamped the rubber moulding.

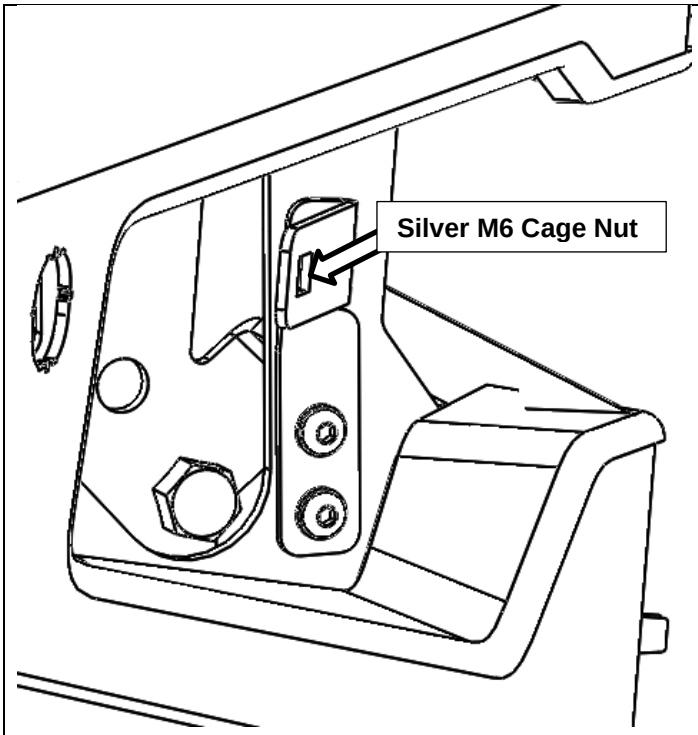




58. Assemble both grille retaining brackets onto the inside of the upright with M6x20 pan head screw, 12mm washer and flange nut. Torque to specification.

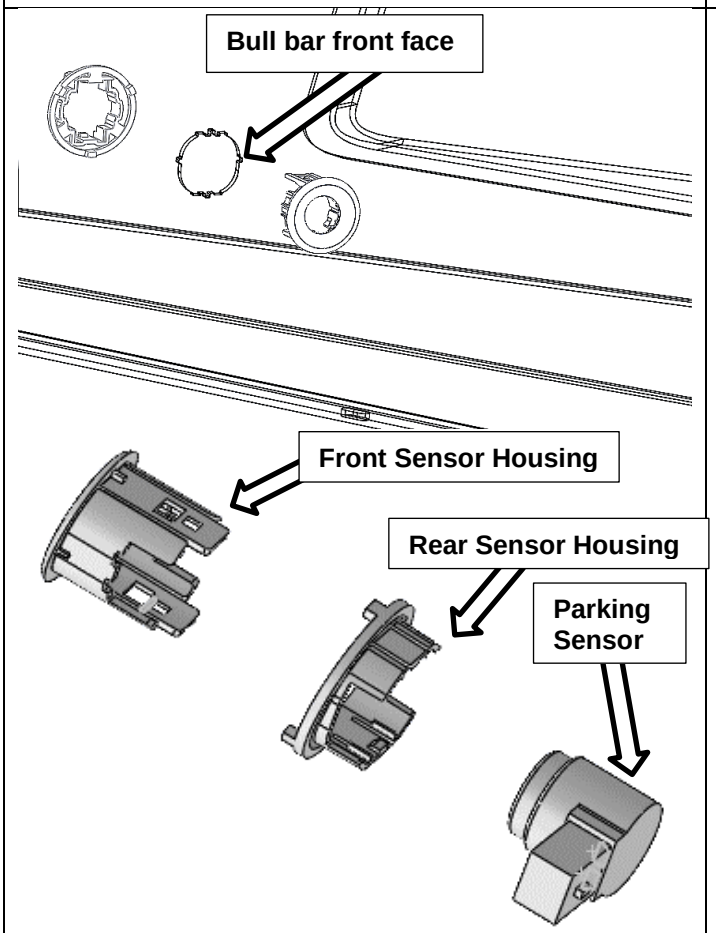
M6 - **9 Nm.**

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



59. Assemble both fog cluster mounting brackets onto the outside of the uprights with M6 flange bolts and flange nuts. Torque to specification.
60. Assemble silver M6 cage nuts into both fog cluster mounting brackets.

M6 - **9 Nm.**



61. Fit the front sensor housing from the front of the bull bar into the designated aperture.
62. Fit the rear sensor housing to the rear side of the bull bar.

Note: Ensure the two pieces engage correctly and are secure.

63. Fit the parking sensor into the sensor housing. Ensure the tails of the sensors are in the same orientation as found in the bumper.

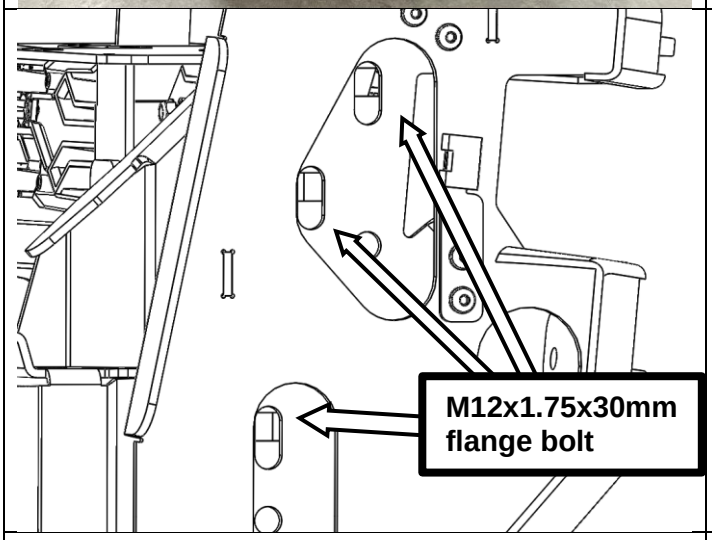
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



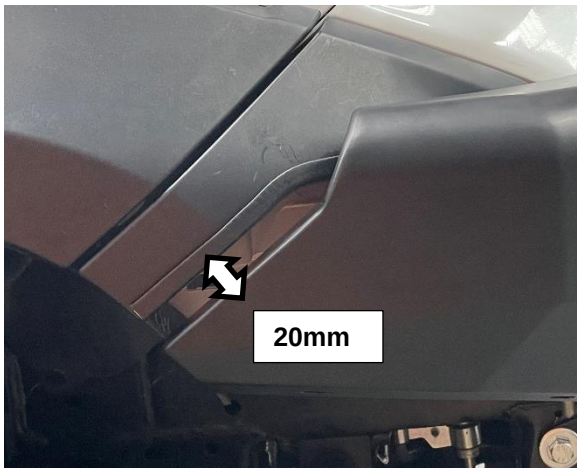
Fitment of bull bar to vehicle

64. With the assistance of another person, place the bar on the vehicle mount brackets.

WARNING: Due to the weight of the bar and winch if fitted, it is advised that you use some form of mechanical assistance when lifting the bar onto the vehicle such as an elevating trolley.



65. With the bull bar sitting in place, fit three black M12x1.75x30 flange head bolts and M12 flange nuts per side. Leave finger tight for now.



66. Check the clearance of the bar to the vehicle, and adjust position of bar left/right until it's sitting central to body, then tighten all fasteners joining mount assembly to chassis brackets (four M10 ARB and two M10 OEM bolts each side).

M10 – 44Nm

67. Tighten all inner and outer M12 chassis support bracket fasteners.

M12 – 77Nm

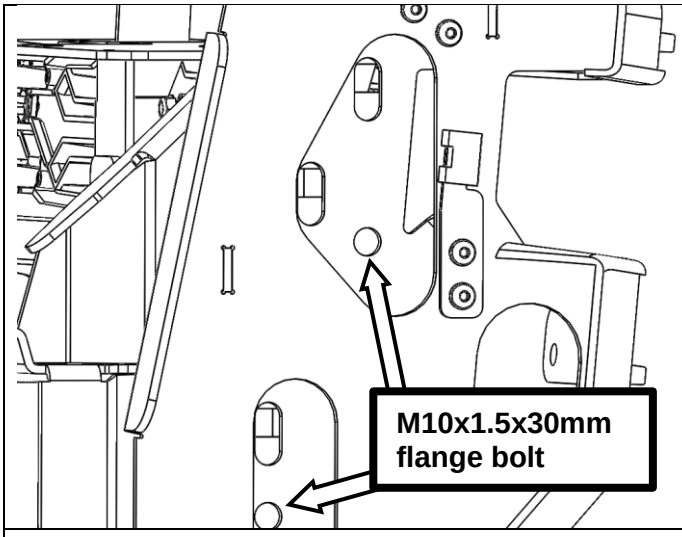
68. Once bull bar has been positioned central to the body, adjust bull bar on mounting slots to achieve a parallel 20mm gap between wings and bumper cut profile.

Wing return should align to wheel arch tangent.

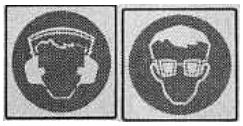
Torque M12 mounting bolts to specification.

M12 - **77 Nm.**

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

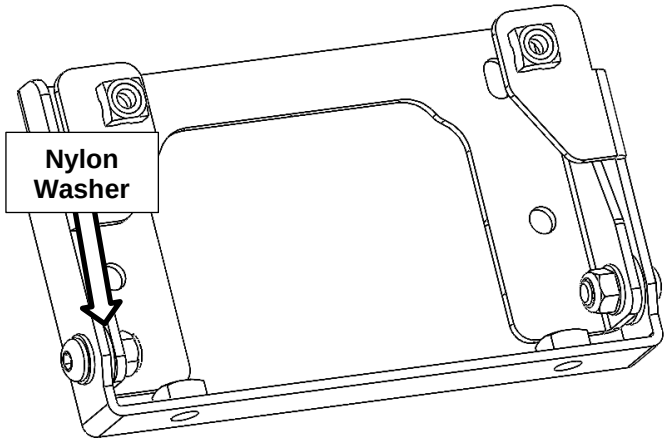


69. Drill four Ø10mm holes (2 per side) through mount assembly using existing holes in bull bar as guide. This may require a right-angled drill.

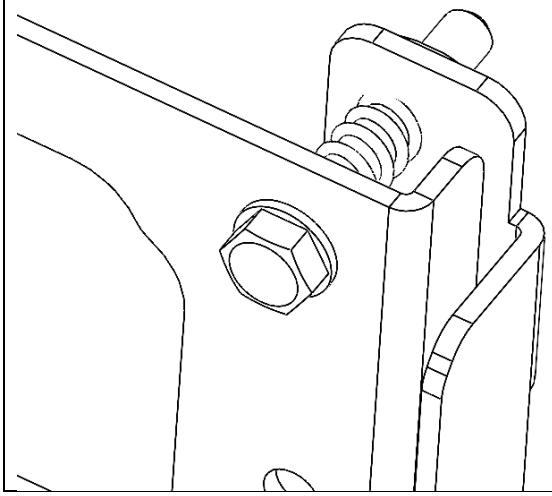


70. Add anti-corrosion touch up paint to areas drilled, then assemble and tension four M10x30 flange bolts and flange nuts to specification.

M10 - **44 Nm.**

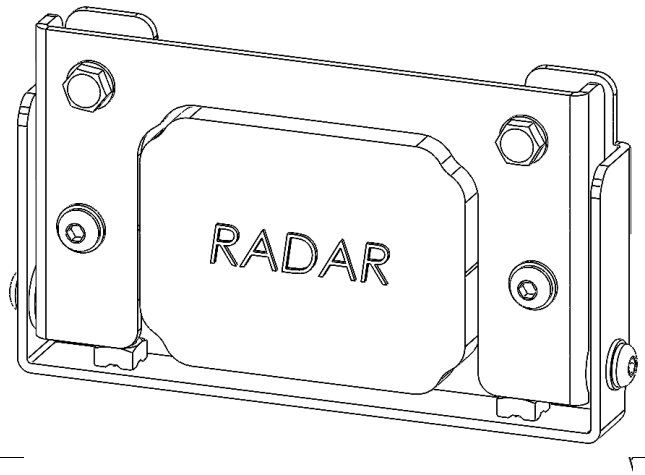


71. Assemble upper and lower half of radar bracket using two M6 button head screws, four M6 flat washers, two M6 nylon washers and two M6 nyloc nuts. Tighten to remove any play, while still allowing the bracket to pivot freely.



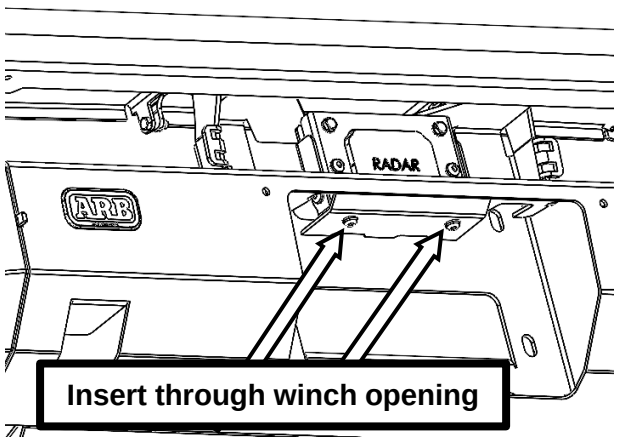
72. Add the adjustment bolts using the two M6x40 hex head bolts, two M6 flat washer and two springs provided. Position is not important at this stage.

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



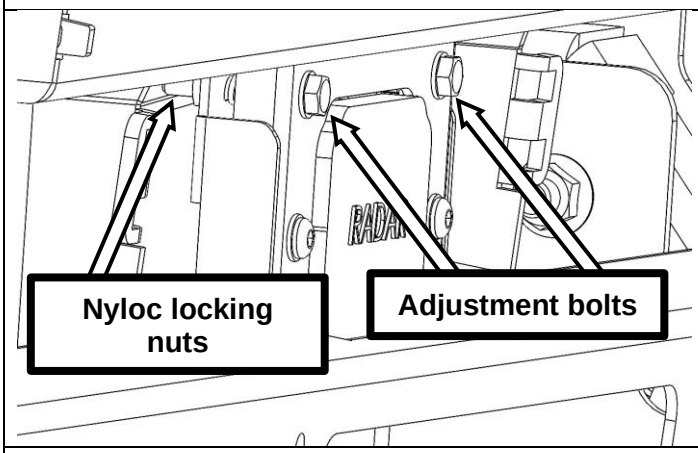
73. Fasten radar module to the bracket using two M6 button head screws, four M6 flat washers and two M6 nyloc nuts. Torque to spec.

M6 - **9 Nm.**



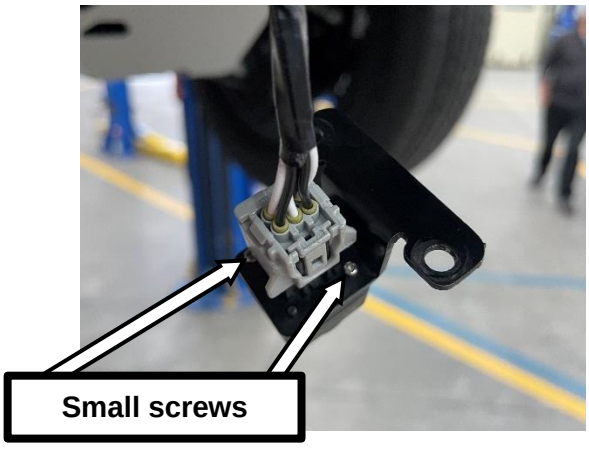
74. Fasten radar assembly to the bull bar using two M6 button head screws and two M6 flat washers. Torque to spec.

M6 - **9 Nm.**



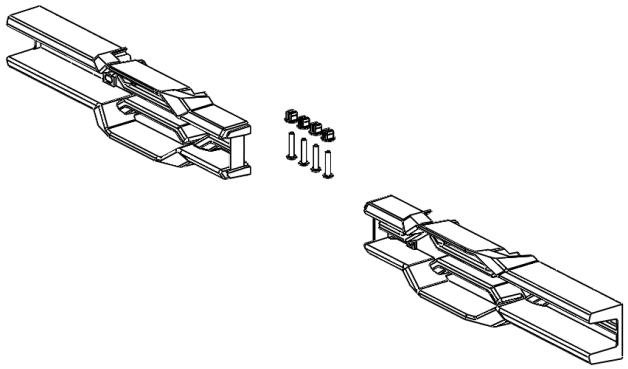
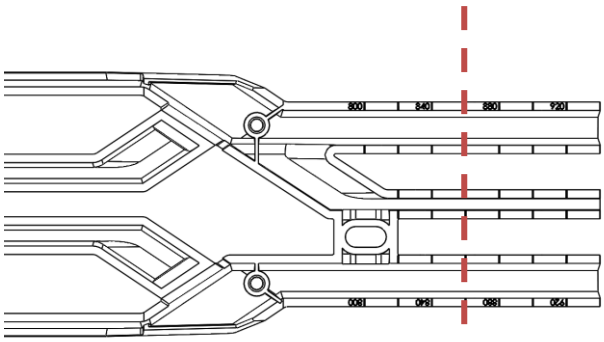
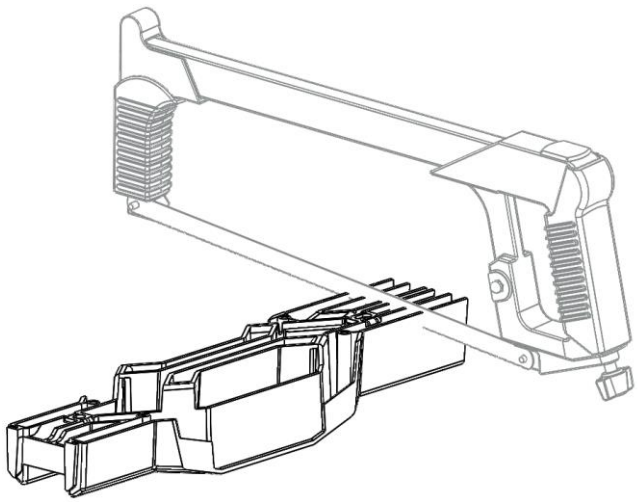
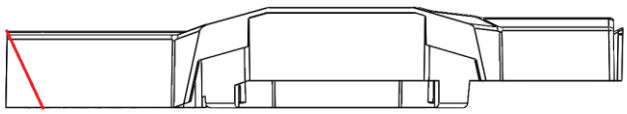
75. Place a digital level on the front face of the radar. The front face should be 90 degrees to level ground with a tolerance of ± 1 degree. Turn the two adjustment bolts evenly to alter the angle of the radar module to fall within this tolerance.
76. With radar positioned correctly, install two M6 nyloc nuts against the captive nuts (rear), to lock rotation of adjustment bolts. Ensure that the adjustment bolts do not rotate as the nyloc nuts are torqued to specification.

M6 - **9 Nm.**

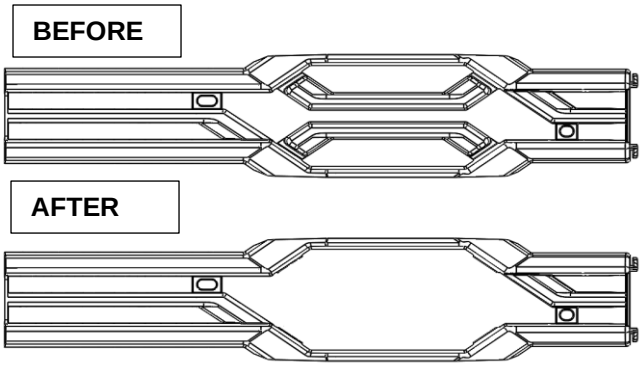


77. Remove two small screws to remove camera from original camera bracket. Retain screws, and fit to supplied camera bracket. Cut-out is keyed to the camera to prevent misorienting the camera. Supplied camera bracket shown.

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

	78. Identify the outer grille section kit, 3163295.
	79. Mark both grille panels to be cut at the 920mm markings on the back face.
	80. Use a hacksaw or similar cutting tool to carefully cut the grille panel at the positions marked in the step above. **Discard the off cuts and clean up the cut edges using a file or sandpaper.**
	81. Mark cut grille section at the 840 mm markings, before cutting diagonally, connecting to initial cut.

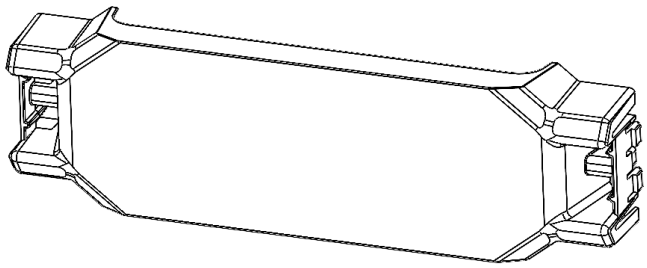
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



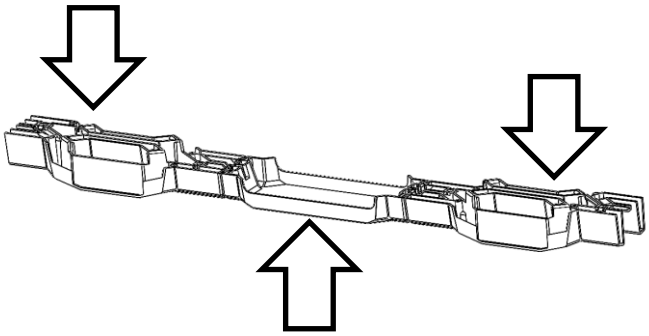
82. If fitting a winch, remove grille sections shown for access to clutch lever.

Cut from rear with an oscillating multi-tool.

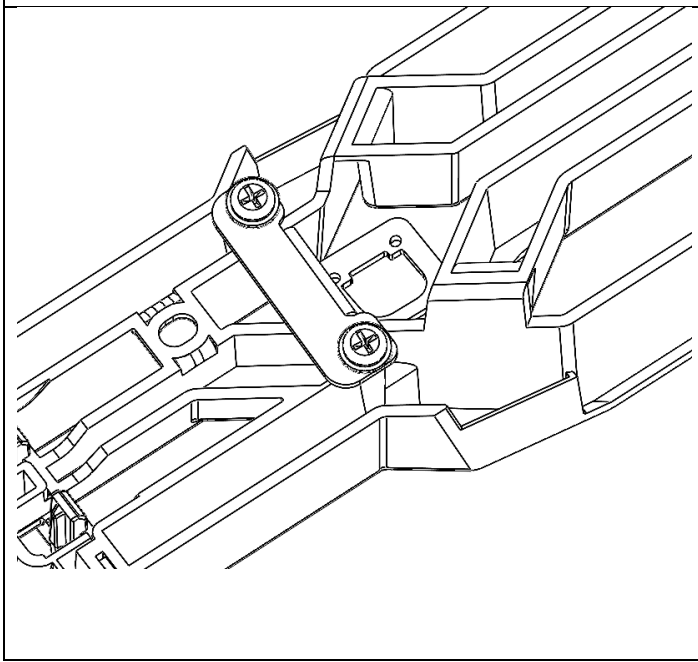




83. Identify the radar cover section kit, 3163316.

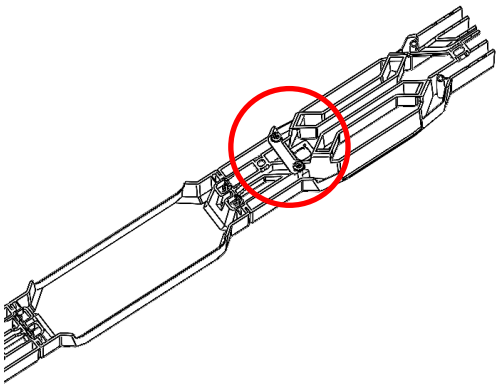


84. Assemble centre section with both outer sections included in kit 3163295. Make sure clips are fully engaged.

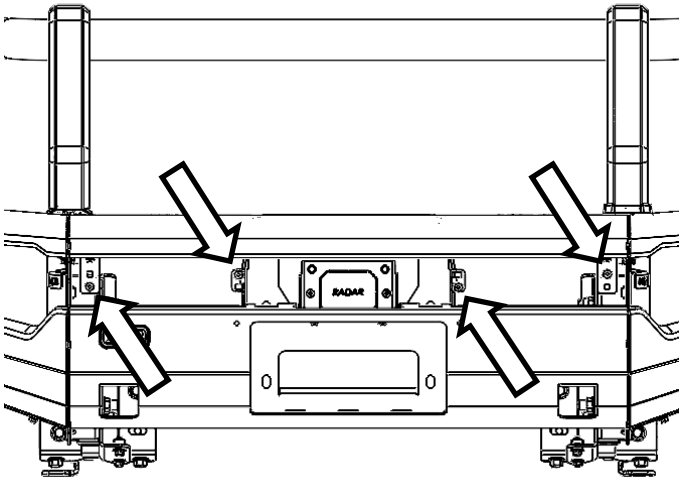


85. Fit camera on supplied bracket to the grille on the RHS, using two 5.2x14 pan head screws.

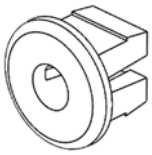
Note: Camera module not shown.

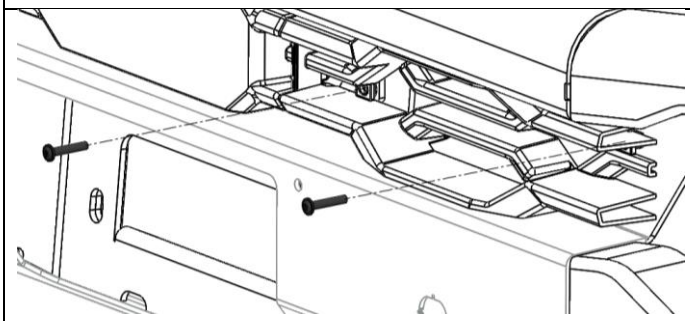


Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



86. Press four round plastic grommets from grille kit into the square cut-outs seen from the front of the bull bar.

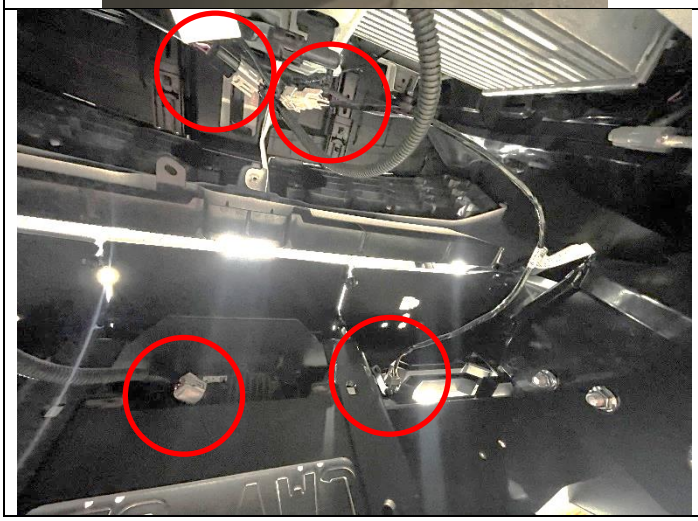




87. Attach grille assembly to bull bar using four torx head screws supplied in grille kit.



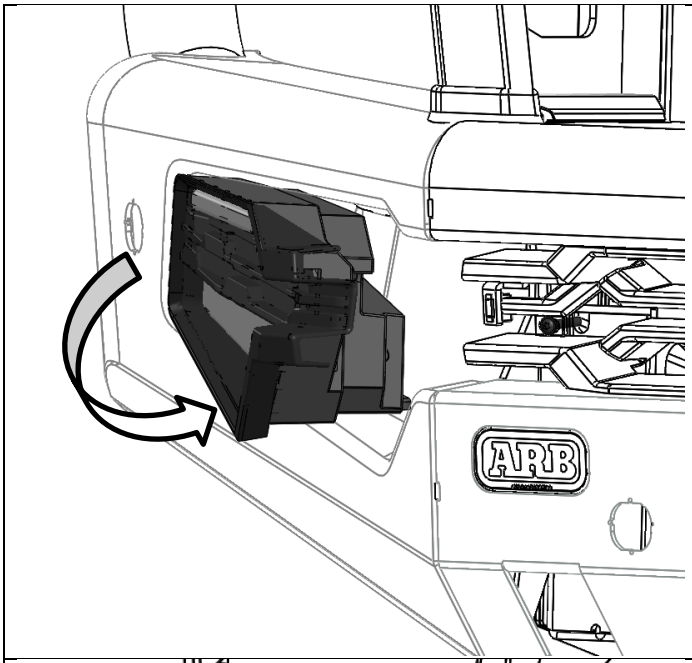
88. Camera (if fitted) should sit in the grille as shown.



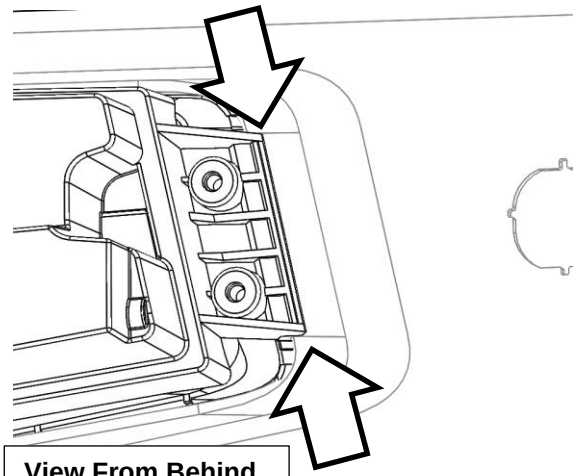
89. Plug in the front camera using extension harness 6821451, and radar module using extension harness 6821456.



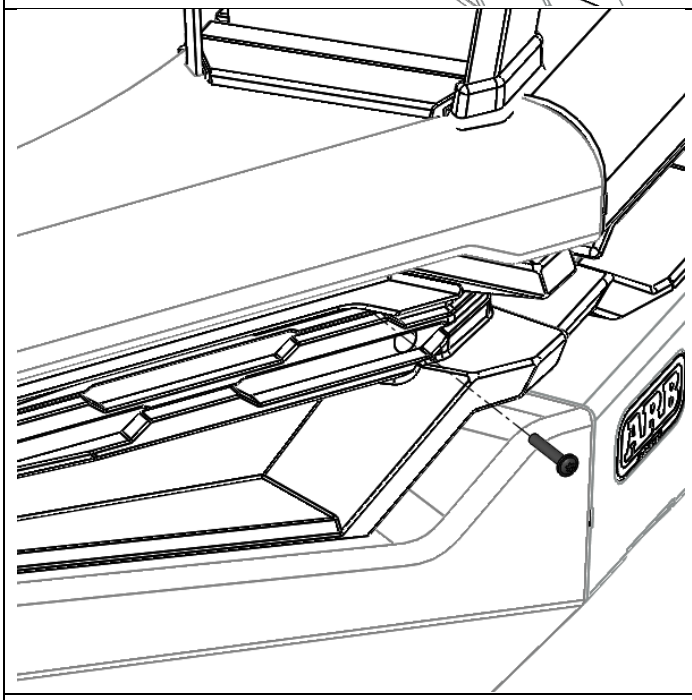
Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



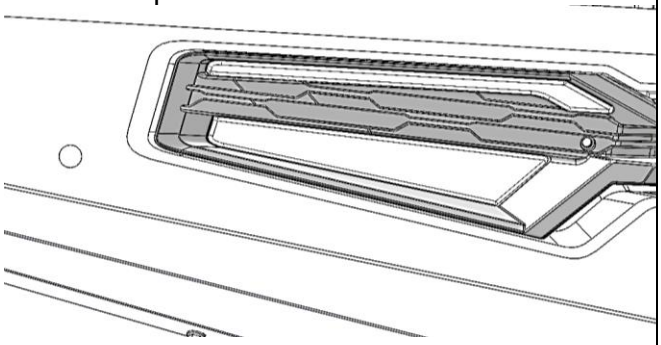
90. Index the outside groove of the lamp cluster over the edge of the aperture in the bull bar wing. Then rotate the lamp cluster into place.



View From Behind



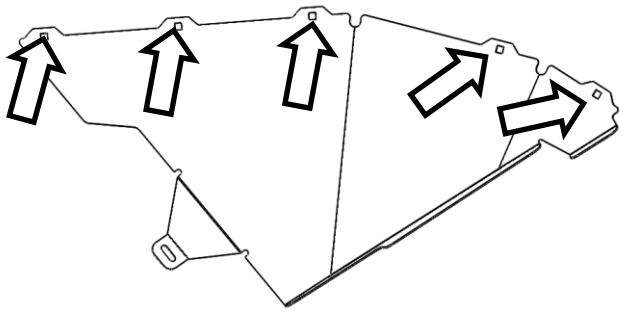
91. Secure lamp cluster with an M6 torx head screw.



M6 - **9 Nm.**

Note: push lamp cluster hard against the aperture in the bull bar wing when fastening.

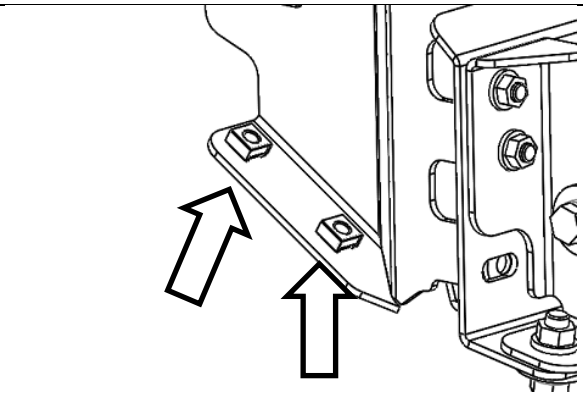
Connect lighting harness into the back of each fog cluster.



92. Fit five M6 cage nuts to each wing under panel.

Note: Cage nut heads to be located on top side.

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



93. Fit four M8 cage nuts to RH and LH bull bar impact absorbers as indicated. (RH Mount Shown)

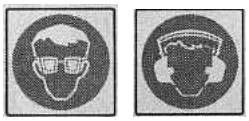
    Note: Cage nut heads to be located on top side of mount assembly.



94. Temporarily place the wing under panel in position, and mark lines onto the OEM inner guards and excess flare left in Step 31 (LH & RH) using lower edge of wing under panels as guide ensuring enough guard remains so that it may be neatly tucked/secured behind wing under panel lip.

    Caution: Use care not to damage the windscreen washer bottle or hoses when trimming LH inner guard.

95. Carefully cut along marked lines using jig-saw or shears.

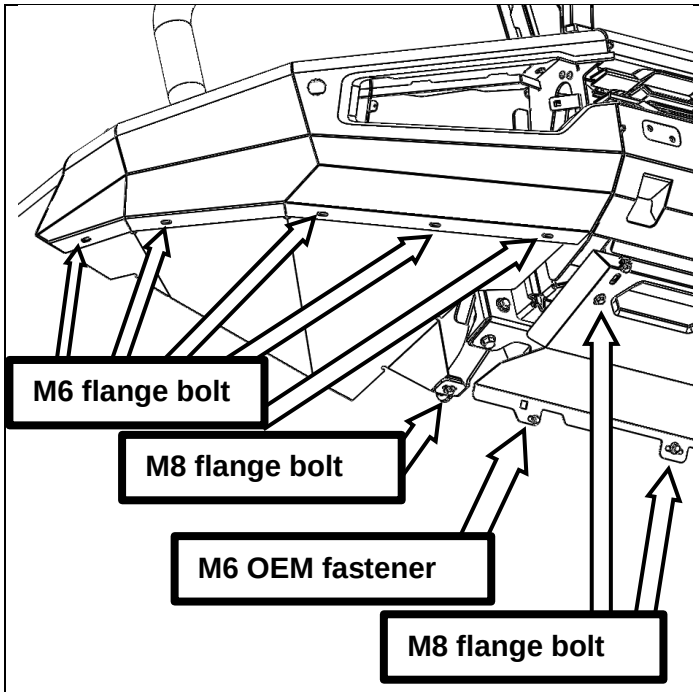


Warning: Drilling operations can result in flying metal debris, safety glasses should be worn.



96. Secure trimmed flare to inner guard liner using double sided tape provided.

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd

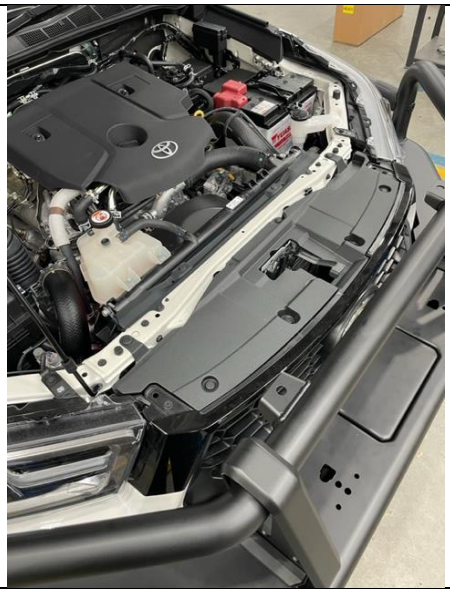


97. Fasten stone tray using five M8 flange bolts and two M6 OEM fasteners.

    Fasten wing under panels to bull bar using eight M6 flange bolts.

    Fasten lower corner of wing under panel using two M8x1.25x20mm flange bolts and M8 flange nuts

    M6 – 9Nm M8 – 22Nm



98. Re-install upper radiator cover panel and fasten using eight OEM scrivets.

FITTED PRODUCT – TOYOTA HILUX GR SPORT SUMMIT MKII

NOTICE: ONCE SUMMIT BAR IS FITTED:

- **Ensure all bolts are tensioned correctly.**
- **All wiring is clear of sharp edges or moving surfaces and secured properly.**
- **Piping is secured well away from sharp or moving components.**
- **Check operation of winch, if fitted.**
- **Check all wiring and connections to turn signal lamps and clearance lights and that they are functioning correctly.**

Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd



Copyright © 2024 by ARB Corporation Limited. All rights reserved, this document must not be reproduced without the express authority of ARB Corporation Ltd