



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER QT874L

TOYOTA KLUGER GSU/AXUH CL4 – For vehicle 03/2021 - ON

PRODUCT DETAILS:

Part Number:	QT874L	Maximum Towing Braked:	2000	kg
ECU Number:	04826	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1800 mm	Maximum Static Ball Load:	200	kg
TBM/Lug Part Number:	21200			

FITTING DETAILS:

Towbar Installation Time:	90 Mins.	RPA Disable/Other:	YES
Total Installation Time:	120 Mins.		
Bumper Cut Required:	Yes		

Note:

- RPA Disable via centre cluster mute option.
(See image step 44).

TRAILBOSS RECOMMENDS THAT INSTRUCTIONS ARE READ AND UNDERSTOOD COMPLETELY PRIOR TO FITMENT.

BEFORE YOU START:

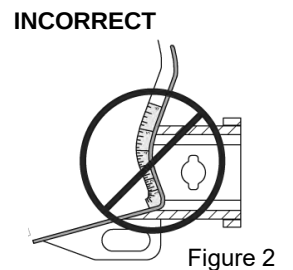
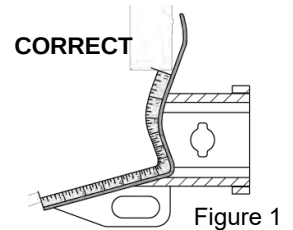
Check all hardware items have been included refer to assembly diagram.
Please ensure this towbar is only fitted to vehicle models as per Trailboss application guide.

Bumper Cuts

Vehicle and bumper variations can and do occur during vehicle manufacture after initial towbar design. Fitment of towbar to vehicle and accuracy of bumper cut must be assessed prior to any bumper modifications made. Incorrect bumper cuts are not covered under Trailboss warranty.

NOTE: Bumper cuts need to be approached with care, refer to notes below.

- Bumper centreline – where the centreline of the bumper needs to be determined, the installer must assess centre point by measurement of bumper width or determining two symmetrical reference points to give centreline.
- Bumper edge – To assist with accurate bumper cut measurement, reference to the start of the bumper edge is now being commonly used.
 - o Measure from bottom edge along bumper and around corner to the 70 mm point (Figure 1).
 - o Do not measure from visible bumper front of corner, upwards (Figure 2).



Drilling

- For any required drilling during installation, ensure that the area is clear of fuel, electrical & other components that may be damaged.
- All holes drilled into metal body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.

Bolts/Fasteners

- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.

NOTE: Achieving correct torque is critical to proper installation and responsibility of the installer. Towbar failures attributed to tension issues from over tightening or under tightening are not covered by Trailboss warranty.

Product Labels

- a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.

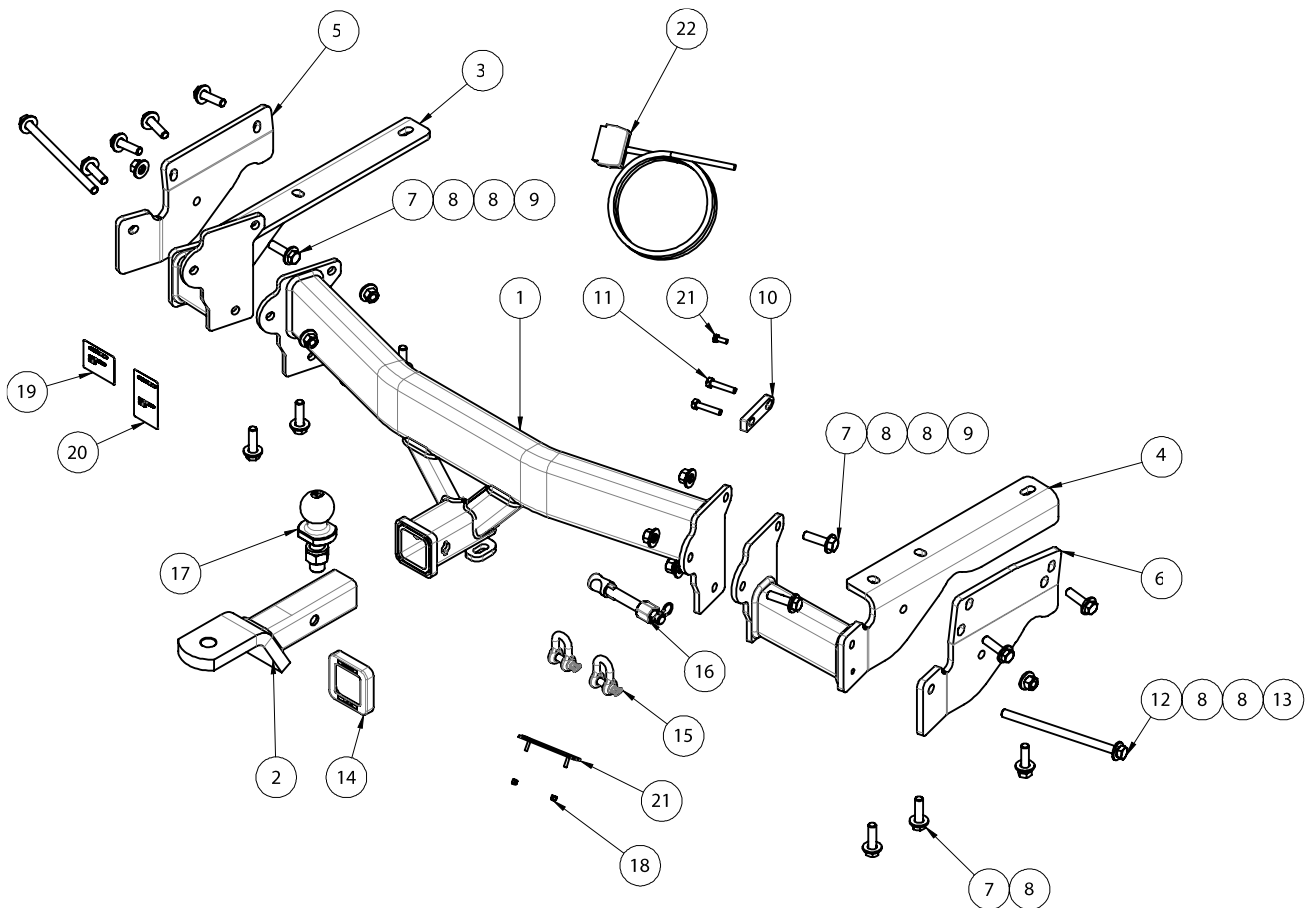
WARNING:

Do not, drill, cut, weld or otherwise modify the towbar.

FOR TOWING PURPOSES ONLY - This towbar is designed and tested by Trailboss to adhere to ADR 62/02 which provides only for the expected load demands of towing.



TOWBAR ASSEMBLY DIAGRAM

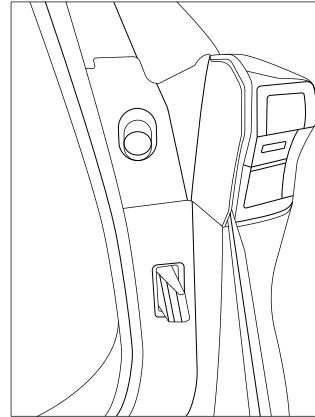


ITEM	DESCRIPTION	QTY
1	TOYOTA KLUGER WELDED ASSEMBLY	1
2	TRAILER BALL MOUNT	1
3	SIDE ARM – LHS	1
4	SIDE ARM – RHS	1
5	LAMINATE PLATE LHS	1
6	SIDE PLATE – RHS	1
7	SET SCREW HEX HD M12x45x1.25P	16
8	WASHER PLAIN M14x28x3	26
9	NUT HEX HD M12x1.25P	6
10	EXHAUST SPACER	1
11	BOLT HEX HD M8x40x1.25P	2
12	BOLT HEX HD M12x200x1.75P	2

ITEM	DESCRIPTION	QTY
13	NUT HEX HD M12x1.75P	2
14	HITCH BOX COLLAR COVER	1
15	"D" SHACKLE 10mm	2
16	SMART PIN GOLD	1
17	TOWBALL 50mm	1
18	NUT NYLOC HEX HD M4x0.7P	2
19	COMPLIANCE LABEL	1
20	DOOR RATING LABEL	1
21	PLUG BRACKET	1
22	WIRING LOOM	1
23	SET SCREW HEX HD M6x16x1.0P	1

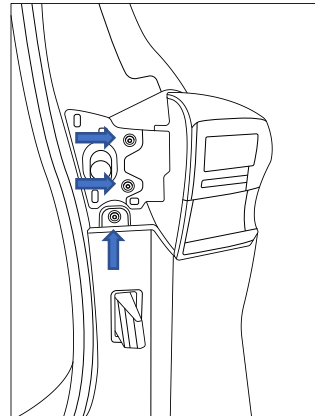
-
1. Remove the plastic taillight cover.

Repeat for the other side



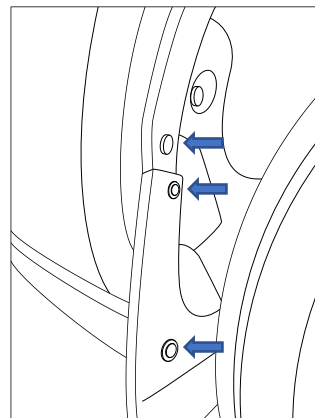
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2. Remove 3x screws.
Pull the taillight rear ward and disconnect any wiring.

Repeat for the other side



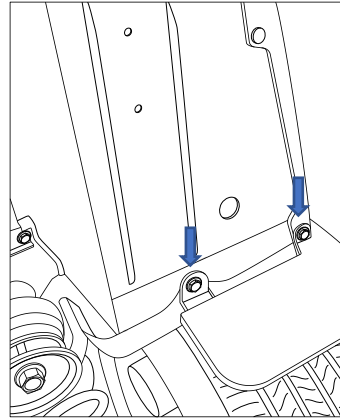
-
3. Remove 2x screws and 1x scrivet clip.

Repeat for other side.

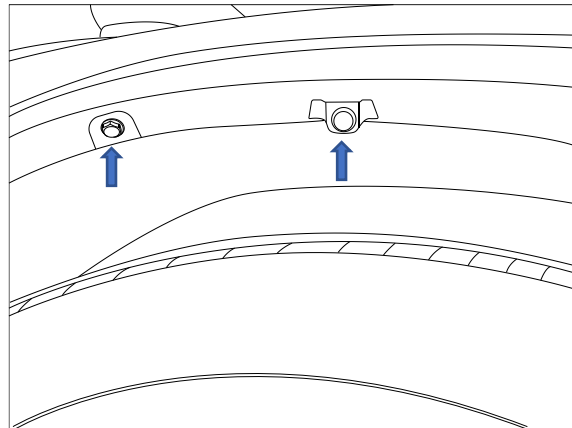


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4. Remove 2x screws behind the mud guard.
Remove the mud guard.

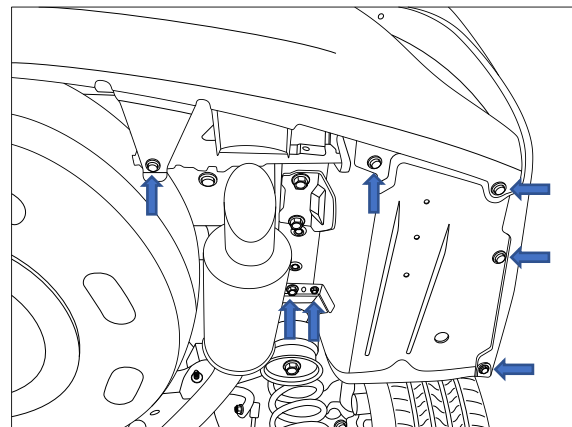
Repeat for the other side.



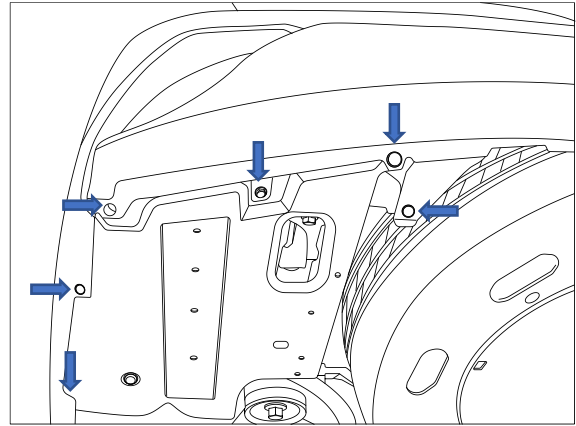
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5. Remove 1x screw and 1x scrivet clip.
Peel and remove the wheel arch.



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6. Remove 1x bolt, 3x screws and 3x scrivet clips.
Remove underside cover.

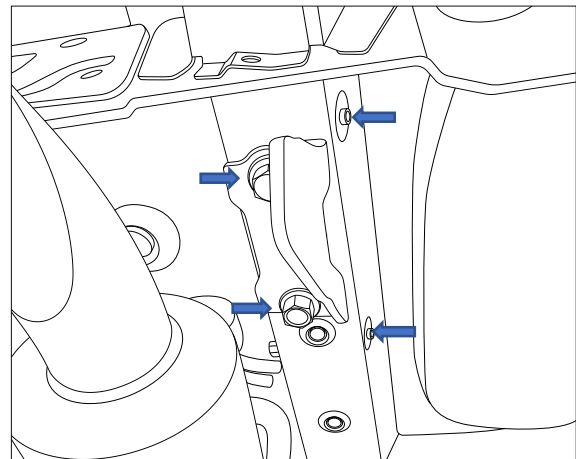


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7. Remove 2x screws, 4x scrivenets and 2x plastic nuts.
Remove the underside cover.

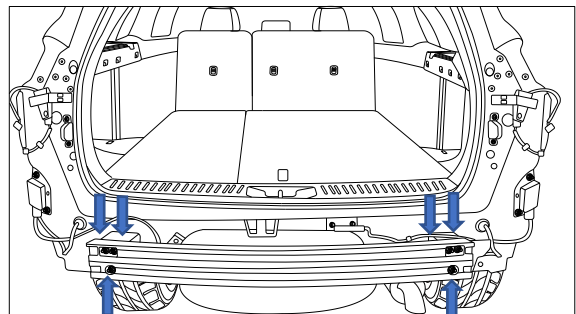


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8. Remove 2x bolts and the shipping hook
Remove 2x gromets on the side of the chassis.

Repeat for the other side.

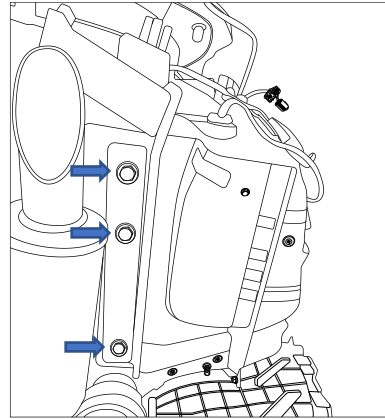


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9. Unclip the bumper and discount the wiring located
on the RHS of the bumper.
Remove 6x nuts and discard the impact beam.

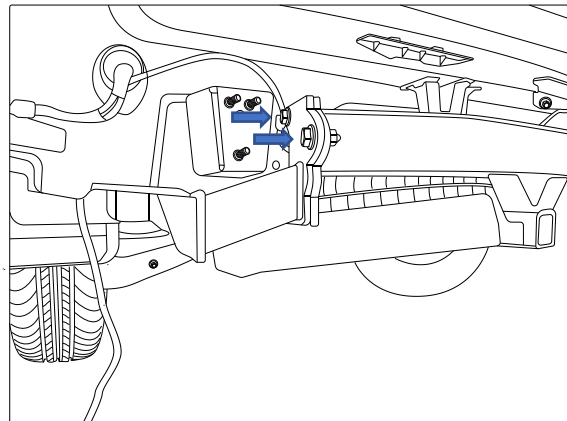


-
10. Fit the side arm and loosely secure with 3x bolts and 3x washers.

Repeat for the other side.



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11. Fit the cross tube between the side arms and loosely secure with 2x bolts, 4x washers and 2x nuts per side.



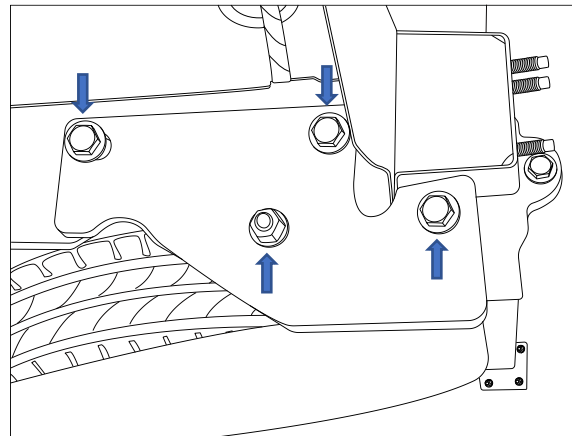
-
12. Fit the side plate chassis and loosely secure with 4x bolts, 6x washers and 2x nuts.

Repeat for the other side.

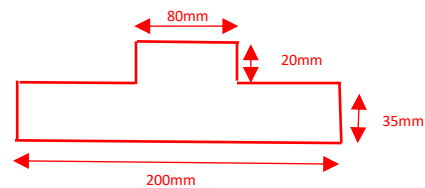
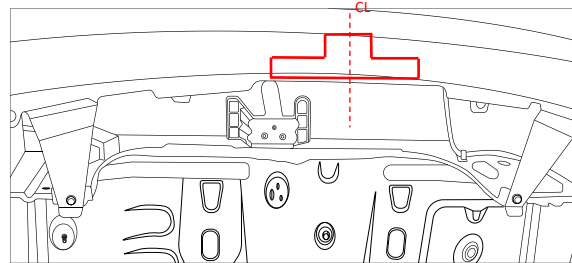
Torque fasteners as follows:

M12 x 1.75P = 77 Nm

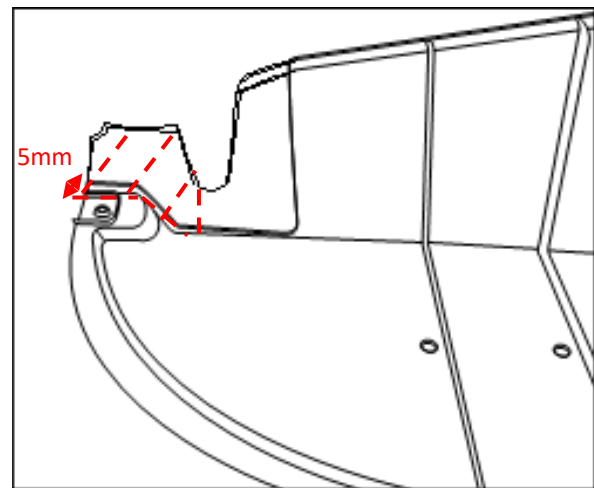
M12 x 1.25P = 89 Nm



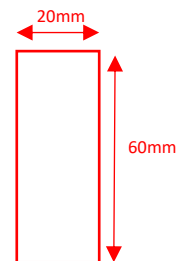
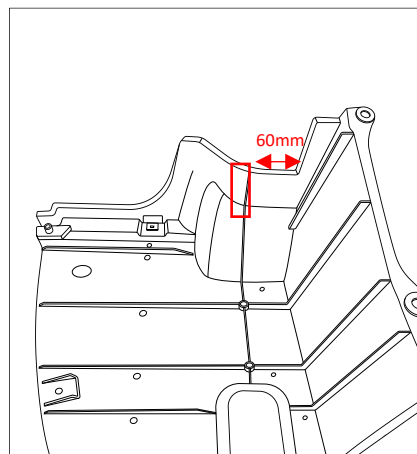
13. Place masking tape on the bumper outer skin
Mark and cut out an area as shown to clear the
hitch box.



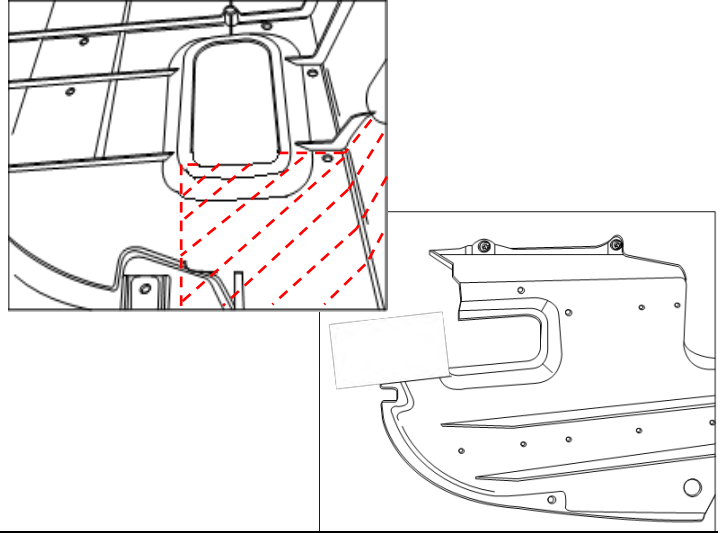
14. On the RHS underside trim,
Mark and cut out a line 5mm offset from corner as
shown.



15. Mark and cut out an area 20mm x 60mm.



16. On the LHS underside trim,
Mark and cut out an area as shown

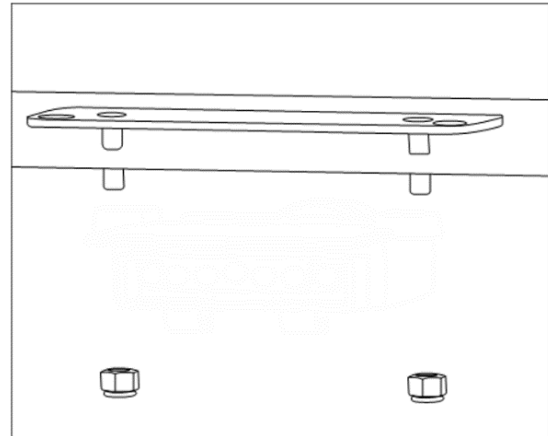


17. Locate the plug bracket on the LHS of the tow bar
and ensure the harness cable length is long
enough.

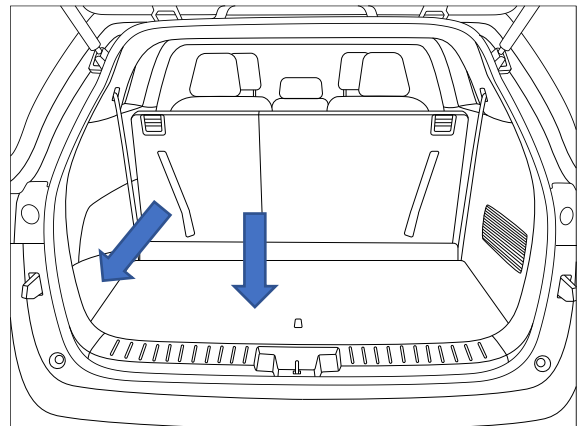
Drill 2x ø5mm holes 69mm apart

Remove all swarf and rough edges.

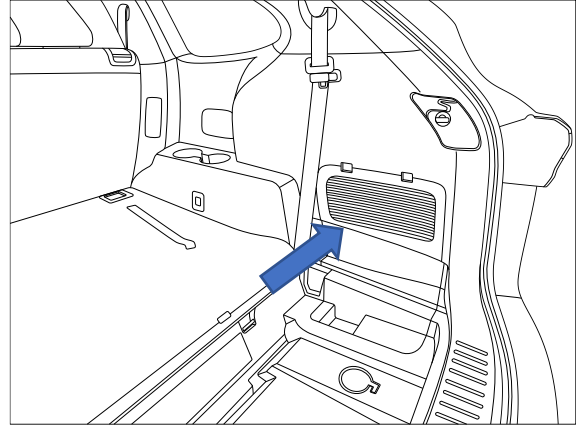
Place the plug bracket on the bumper.



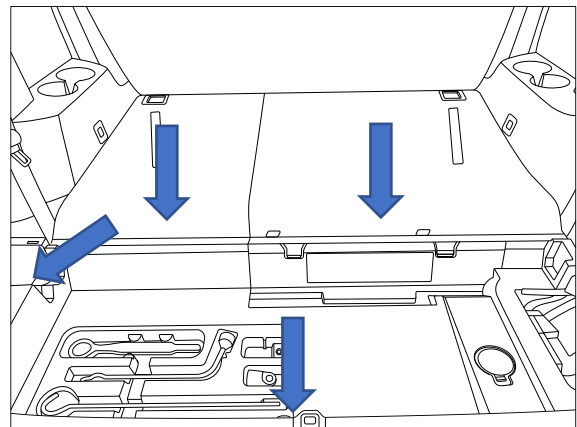
18. In the vehicle cabin remove the centre and LHS boot
floor trim.
19. Fold down the second-row seat.



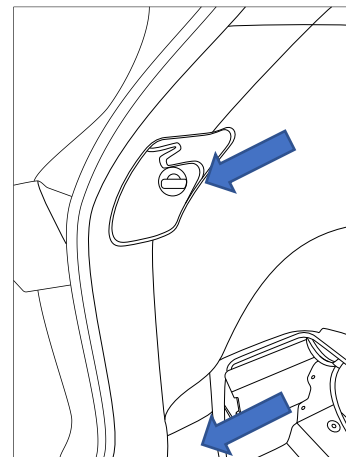
20. Remove the battery cover.



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21. Remove the 7x scrivenets holding the carpet trim.
22. Remove the 1x M10 nut that secures the tool tray.
23. Remove the tool tray.
24. Remove the LHS compartment trim.
25. Remove rear scuff trim.

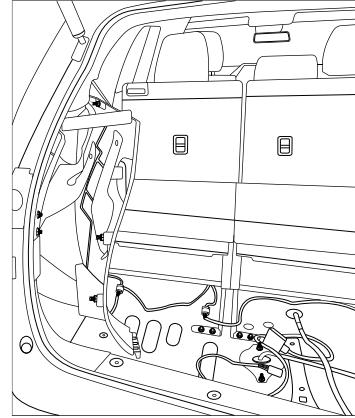


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26. Locate the LHS cargo net hook, twist off cargo to expose M10 bolt, remove bolt.
27. Locate the LHS cargo anchor hook remove the plastic trim to and remove the M10 bolt.

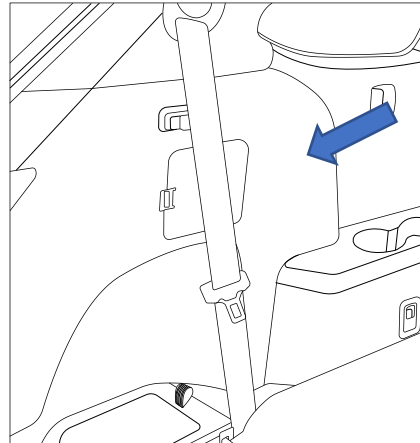


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28. Dislodge the LHS trim enough to gain access the trailer 6-way prewire connector.

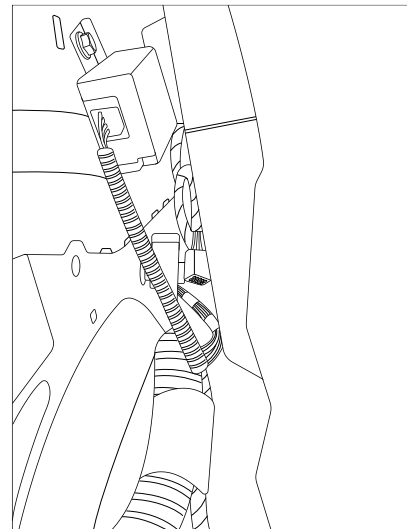
Note: Care must be taken not to damage the trim.



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29. This image is an indication of where the connector location is behind the trim.

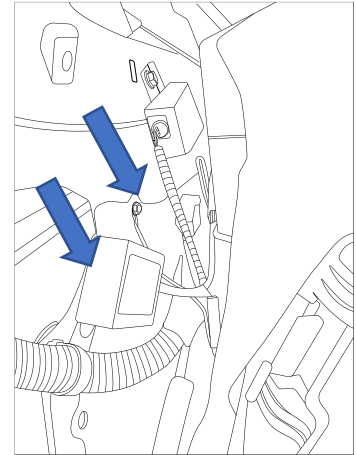


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30. Locate the trailer prewire 6-way connector which is taped to the vehicle main harness.
31. Pull the connector rearward to allow ease of accessibility.



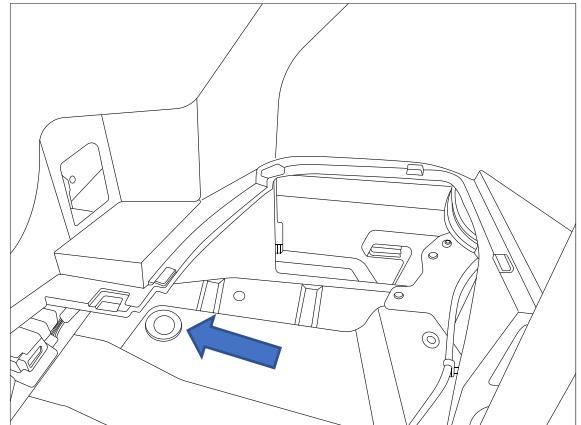
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32. Plug in the trailer patch connector to the mating vehicle connector.
 33. Secure the trailer patch ground ring terminal to vehicle thread with supplied M6 bolt.
 34. Clean the area with supplied alcohol wipe in a suitable area.
 35. Apply the double-sided tape to the ECU.
 36. Connect the trailer patch 12-way connector to the ECU (04826).
 37. Place the ECU to vehicle sheet metal ensure good adhesion.

Ensure the ECU is mounted with the connector pointing downwards to avoid water ingress or condensation.



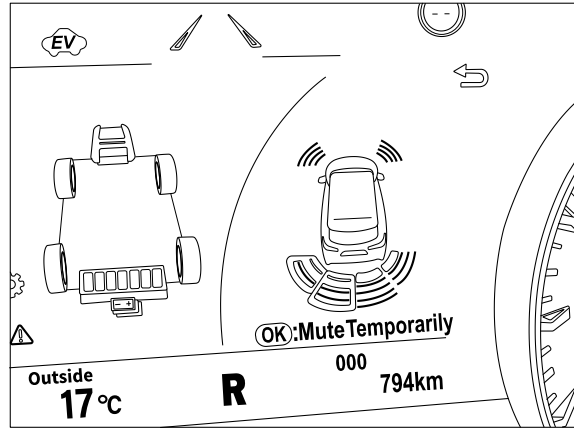
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38. Locate the blanking grommet in the LHS side rear cavity and remove.

If the grommet is used drill ø30mm hole file down and rough edges and spray rust inhibitor.



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39. From outside the vehicle feed the tail harness (1200mm) blue connector through the hole and slide the grommet to desired location ensure the grommet is seated properly.
 40. Secure the grommet with supplied cable tie.
 41. Route the tail harness blue connector towards the trailer patch mating connector.
 42. Connect the blue mating connectors.
 43. Secure the harness with cable ties, ensure no rattle or squeaks.
 44. Replace all removed parts from steps 1-7 and 19-28 in reverse.

45. To disable RPA the system, when in reverse the image will come up on the centre cluster and can be muted by pressing the ok button on the steering wheel.
46. Place instructions in glovebox when finished.





CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE
VEHICLE'S GLOVEBOX AFTER INSTALLATION

**THANK YOU FOR PURCHASING TRAILBOSS. WITH CORRECT MAINTENANCE AND CARE
THIS PRODUCT WILL PROVIDE A LIFETIME OF TROUBLE-FREE OPERATION.**

TOWBAR MAINTENANCE AND CARE:

1. Trailboss recommend that the towbar LUG or TBM (Trailer Ball Mount) Pull Pin and R-clip are removed and stored when not in use. Removal of LUG or TBM (Trailer Ball Mount) is advisable when not in use to assist with any of the following.
 - Ensure rear number plate is not obscured.
 - Allow maximum available departure angle and prevent any potential interference.
 - Prevent possible interference with vehicles reverse sensors or camera detecting a tow ball mount as an obstruction during reversing.
 - Removes towball mount as an obstruction for when moving around the rear of the vehicle.
2. Trailboss recommends routine inspection of your towbar to ensure trouble free towing.
 - Bolt security and tension should be regularly inspected and checked for correct tension. Replace any worn or defective parts with suitable grade & class fasteners. Inspection should be requested to coincide with vehicle major services.
3. It is the owner's responsibility to ensure towing and down ball weight capacities of the towing vehicle are not exceeded.
 - Towing and down ball weights allowable may differ according to model variations. Please refer to owner's manual or vehicle dealer to confirm exact rating for your vehicle model variant.
 - It is not uncommon for the vehicle tow rating to differ from the towbar rating. When this occurs, the lesser rating must be adhered to.
 - For vehicles fitted with enhanced vehicle functions that may be altered/changed when towing i.e Trailer sway mitigation, blind spot detection, adaptive cruise control etc. Please consult owner's manual to understand changes enabled when towing and after towing.

WARRANTY INFORMATION:

Trailboss Towbars are covered by a Lifetime Warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

For further details please contact customer service on 1800 812 017.

PRO SERIES SILENT ANTI-RATTLE HITCH PIN

Your Trailboss towbar is equipped with a Pro Series Silent Anti-Rattle Hitch Pin technology to help reduce towbar tongue rattle in most driving conditions. Please ensure below instructions are understood and routine maintenance is carried out to ensure best towing experience.

Regularly inspect for wear and check the tightness of the Silent Anti-Rattle Hitch Pin. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- Before towing, ensure R-Clip is properly installed and hitch pin nut is installed and tensioned. Replacement parts are available from your Pro Series Distributor.

TOWBALL MOUNT REMOVAL/INSTALLATION

STEP 1

Insert Trailer Ball Mount (TBM) (a) into towbar hitchbox (b), aligning hole in TBM shank (c) with hole in hitchbox (d) (Fig. 1)

STEP 2

Insert Silent Anti-Rattle Hitch Pin (e) through hole in hitchbox and hole in TBM shank (g); ensure the locators are inserted into the notches in the hitchbox (Fig. 2)

STEP 3

Screw Silent Anti-Rattle Hitch Pin (f) onto Smart Pin (g); tighten Smart Pin Nut until finger tight, ensuring TBM is restrained from up and down movement.

STEP 4

Tighten Silent Anti-Rattle Hitch Pin Nut by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig. 4).

STEP 5

Install Silent Anti-Rattle Hitch Pin R-Clip through the hole that provides best clearance or easiest access. (Fig. 5)

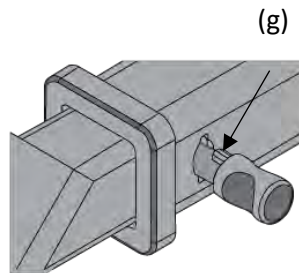
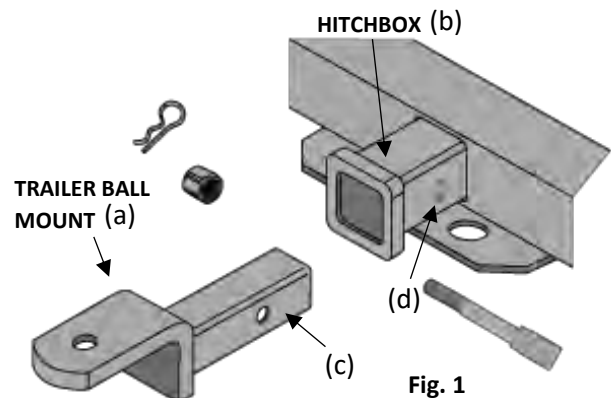


Fig. 2

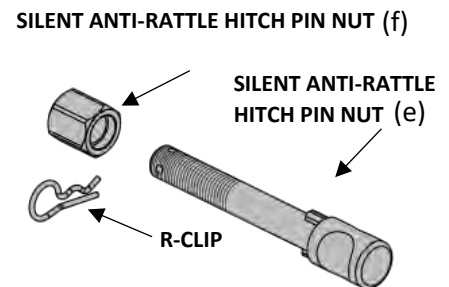


Fig. 3

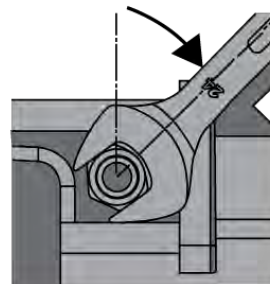


Fig. 4

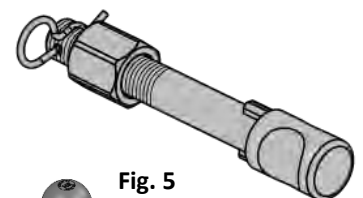


Fig. 5

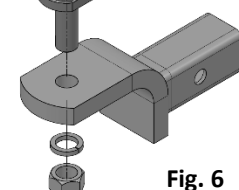


Fig. 6



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TBM/Lug Part Number:	21200			

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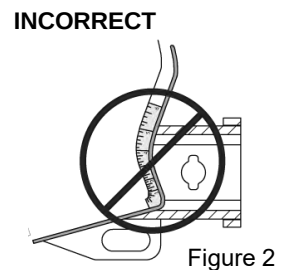
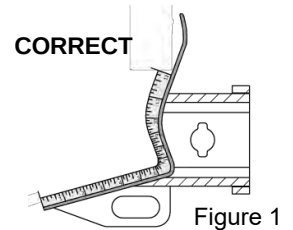
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NOTE: Bumper cuts need to be approached with care, refer to notes below.

- Bumper centreline – where the centreline of the bumper needs to be determined, the installer must assess centre point by measurement of bumper width or determining two symmetrical reference points to give centreline.
- Bumper edge – To assist with accurate bumper cut measurement, reference to the start of the bumper edge is now being commonly used.
 - o Measure from bottom edge along bumper and around corner to the 70 mm point (Figure 1).
 - o Do not measure from visible bumper front of corner, upwards (Figure 2).



Drilling

- For any required drilling during installation, ensure that the area is clear of fuel, electrical & other components that may be damaged.
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Bolts/Fasteners

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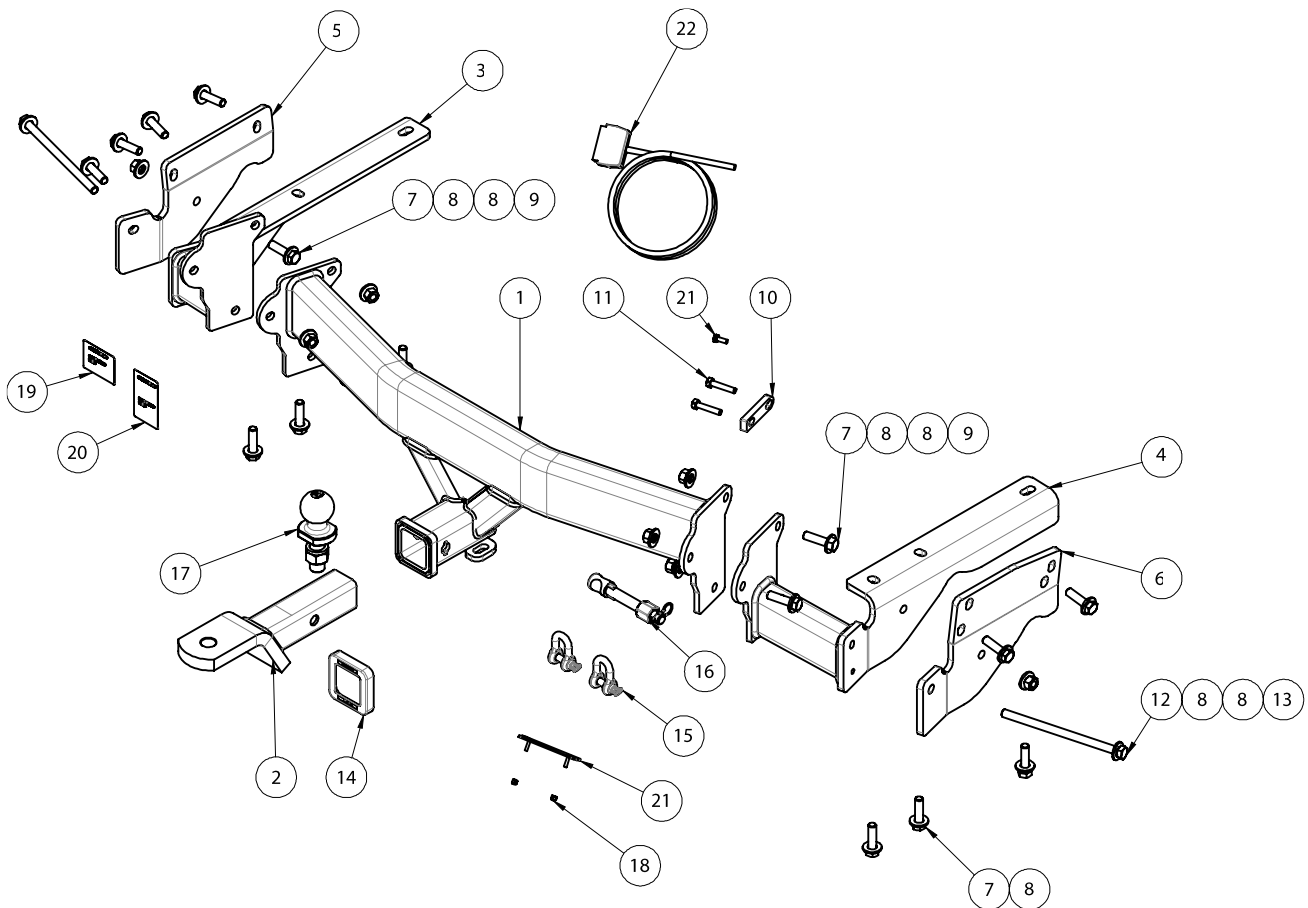
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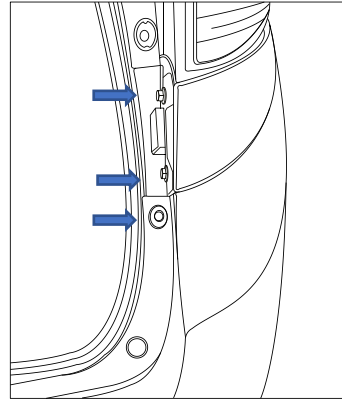


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6	SIDE PLATE – RHS	1
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8	WASHER PLAIN M14x28x3	26
9	NUT HEX HD M12x1.25P	6
10	EXHAUST SPACER	1
11	BOLT HEX HD M8x40x1.25P	2
12	BOLT HEX HD M12x200x1.75P	2

ITEM	DESCRIPTION	QTY
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15	"D" SHACKLE 10mm	2
16	SMART PIN GOLD	1
17	TOWBALL 50mm	1
18	NUT NYLOC HEX HD M4x0.7P	2
19	COMPLIANCE LABEL	1
20	DOOR RATING LABEL	1
21	PLUG BRACKET	1
22	WIRING LOOM	1
23	SET SCREW HEX HD M6x16x1.0P	1

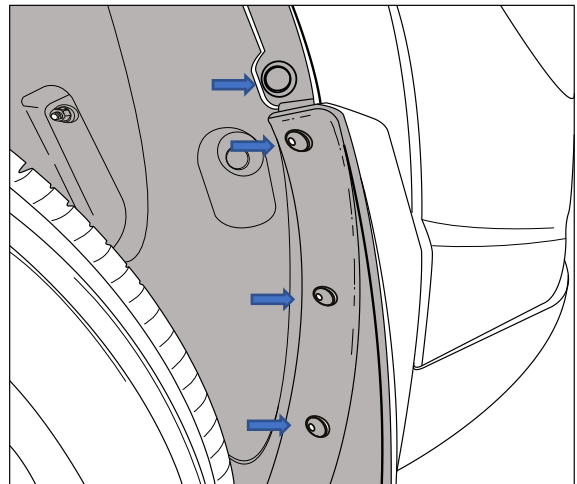
1. Release the tail gate to expose the boot of the vehicle.
Remove 3x screws.
Pull the tail light rear ward.

Repeat for the other side.



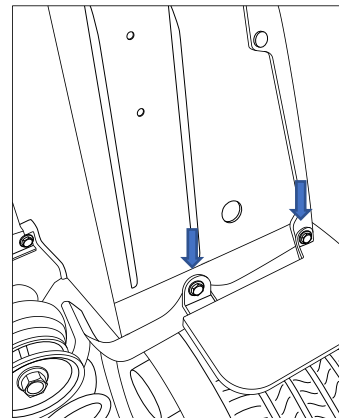
2. On the inside of the rear guards remove 1x scrivet clip and 3x Allen Key Head Screws.

Repeat for the other side.

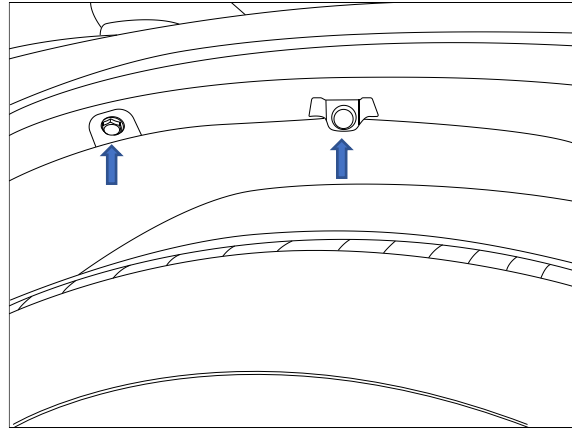


3. Remove 2x screws behind the mud guard.
Remove the mud guard.

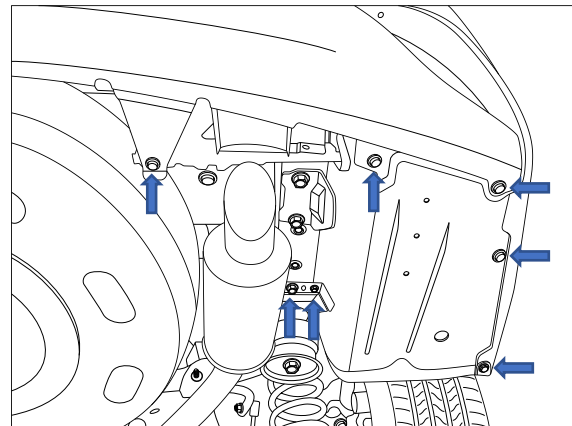
Repeat for the other side.



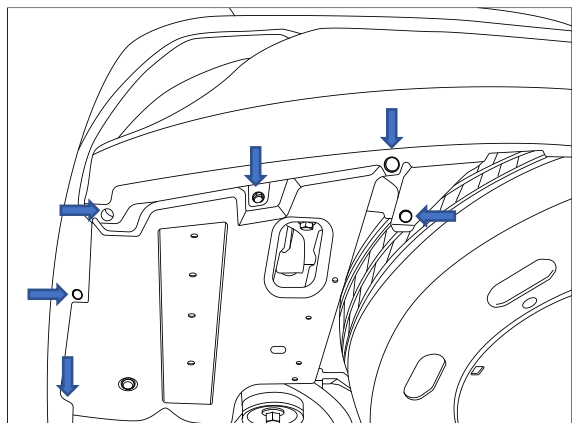
-
4. Remove 1x screw and 1x scrivet clip.
Peel and remove the wheel arch.



-
5. Remove 1x bolt, 3x screws and 3x scrivet clips.
Remove underside cover.

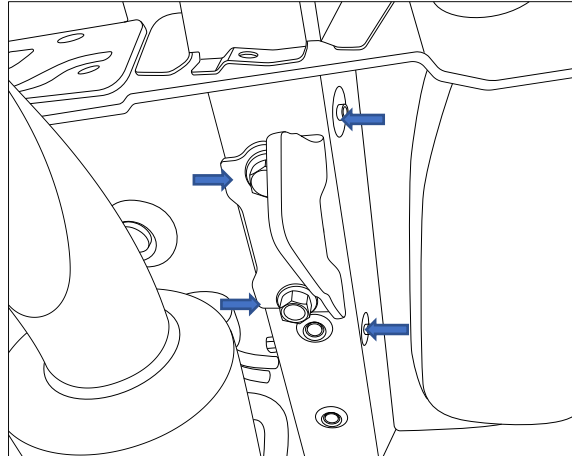


-
6. Remove 2x screws, 4x scrivets and 2x plastic nuts.
Remove the underside cover.

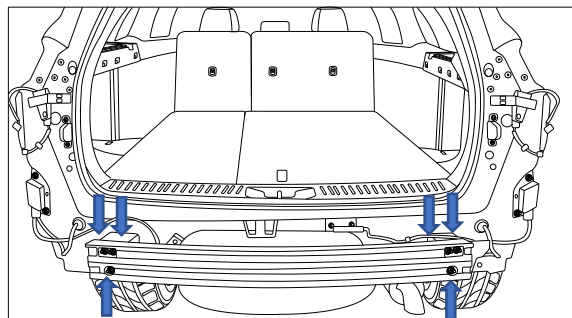


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7. Remove 2x bolts and the shipping hook
Remove 2x gromets on the side of the chassis.

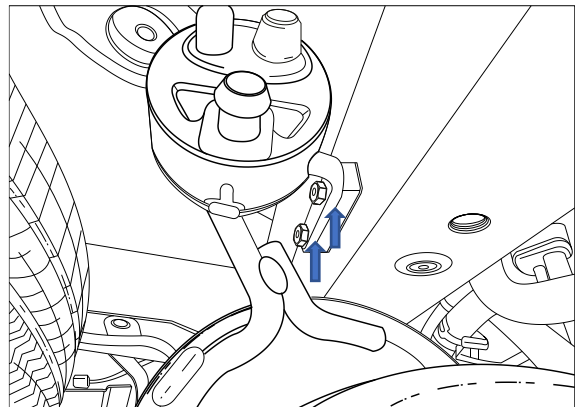
Repeat for the other side.



-
8. Unclip the bumper and discount the wiring located
on the RHS of the bumper.
Remove 6x nuts and discard the impact beam.

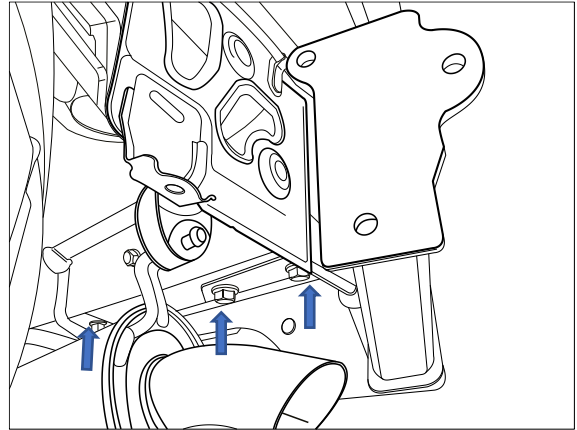


-
9. On the Driver side, unbolt the Exhaust Hanger
where it mounts to the inside of the Chassis
Rails. Re-attach Exhaust Hanger with the
exhaust spacer provided and 2x M10x40mm Set
Screws.

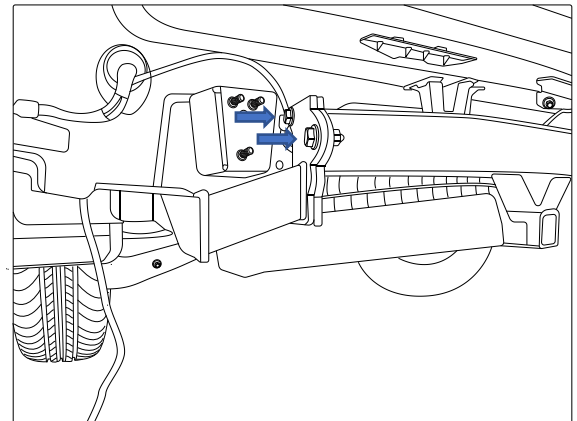


10. On the Driver's side loosely secure the corresponding side arm using the vertical mounts and 3x M12x45 Set Screws on the chassis rails. See images on Page 3 for clarification.

Repeat for the other side.



11. Fit the cross tube between the side arms and loosely secure with 2x bolts, 4x washers and 2x nuts per side.



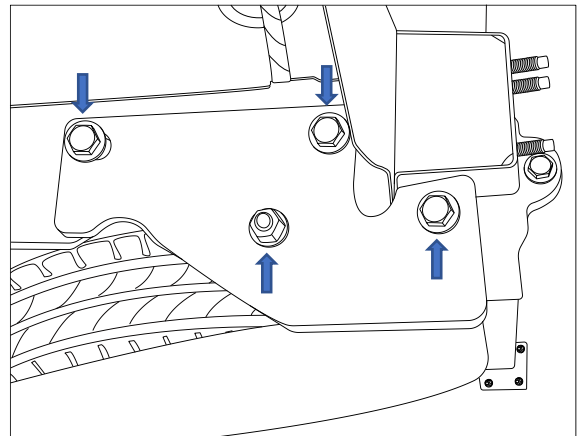
12. Fit the side plate chassis and loosely secure with 4x bolts, 6x washers and 2x nuts.

Repeat for the other side.

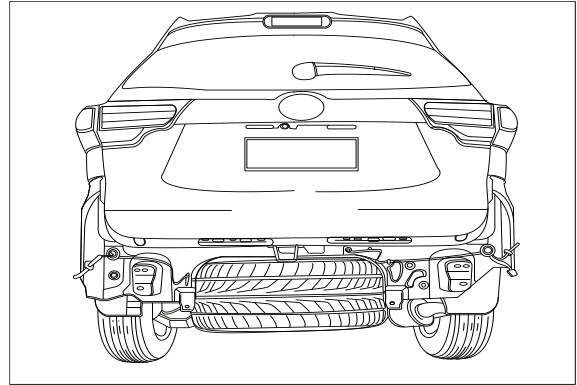
Torque fasteners as follows:

M12 x 1.75P = 77 Nm

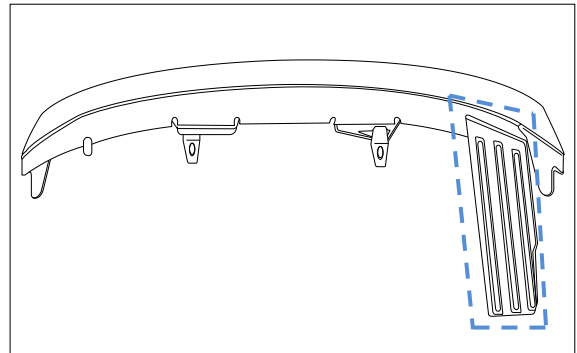
M12 x 1.25P = 89 Nm



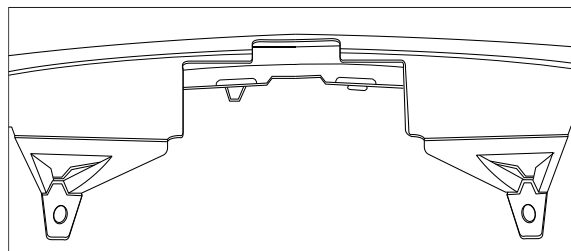
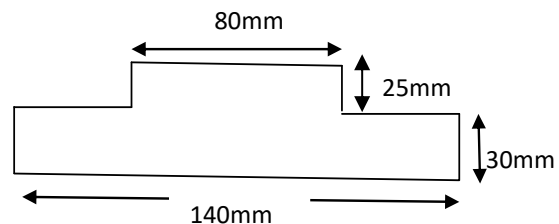
13. Please be advised that this Towbar has very tight clearances. It is **CRITICAL** that the spare tyre be reset. Lower the tyre out of the cradle using the factory tool kit and push the tyre while it is loose as far forward (to the front of the vehicle) and re-seat it into the cradle. This will allow for sufficient clearance to the tow bar and spare tyre.



14. The rear Bumper is a two-piece item with a bottom garnish. Separate the garnish from the Bumper. Cut the extended locating flange to follow the line of the underside of the garnish.

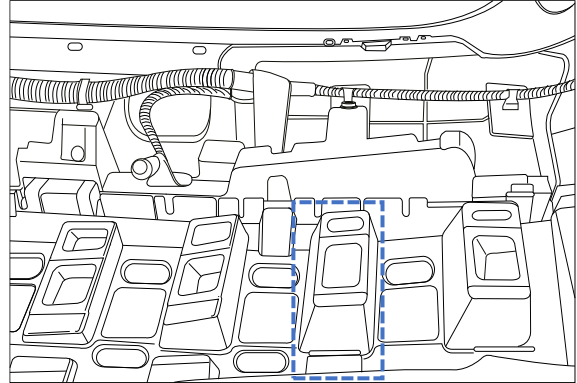


15. Place masking tape on the bumper outer skin. Mark and cut out an area as shown to clear the hitch box.

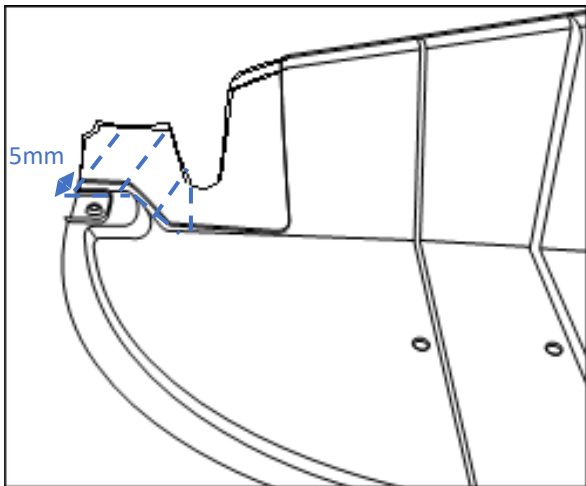


16. On the backside of the Bumper bar, there are several reinforcement blocks, cut the second block inboard from the driver's side.

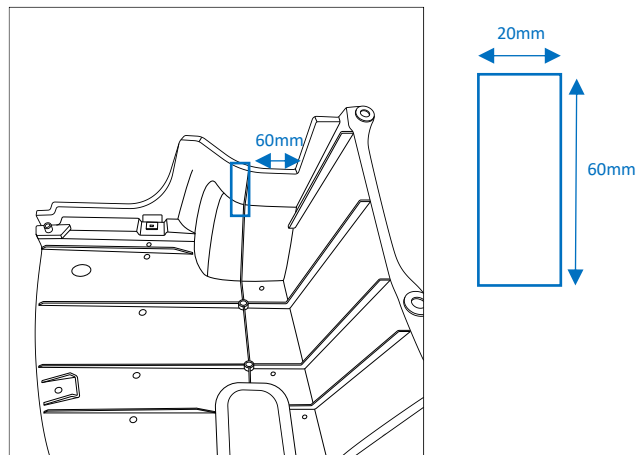
Repeat for passenger side of Bumper bar



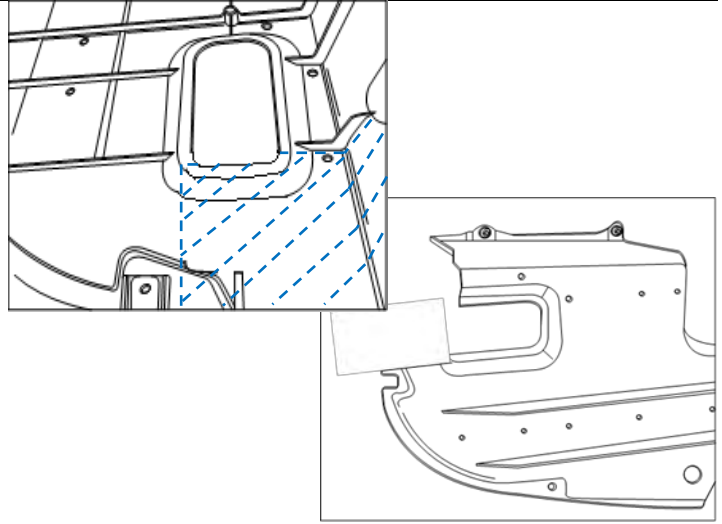
17. On the RHS underside trim, Mark and cut out a line 5mm offset from corner as shown.



18. On the LHS underside trim, Mark and cut out an area 20mm x 60mm.



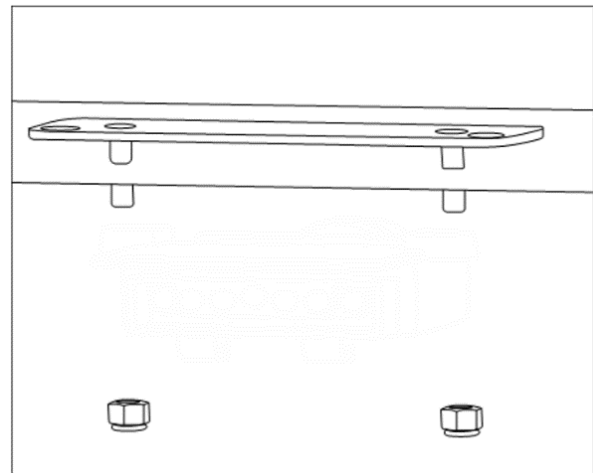
19. On the LHS underside trim,
Mark and cut out an area as shown



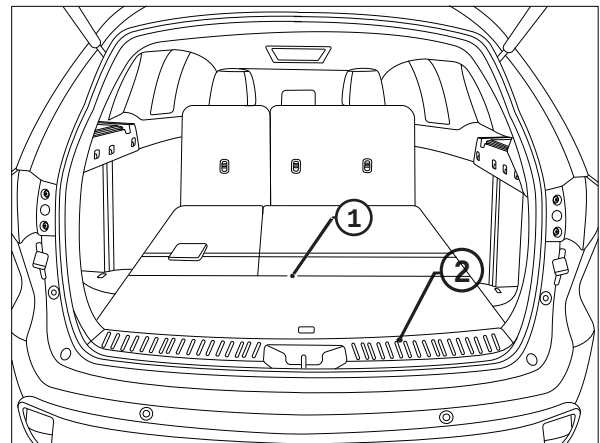
20. Locate the plug bracket on the LHS of the tow bar and ensure the harness cable length is long enough.
Drill 2x ø5mm holes 69mm apart

Remove all swarf and rough edges.

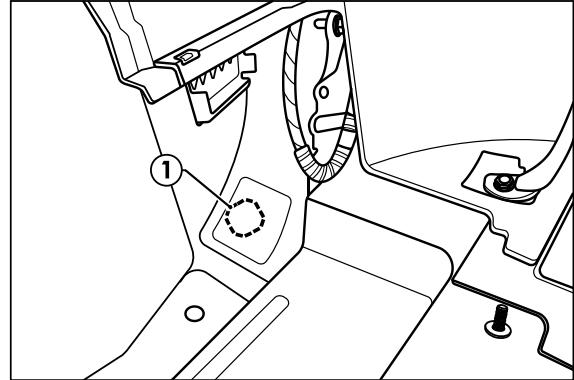
Place the plug bracket on the bumper.



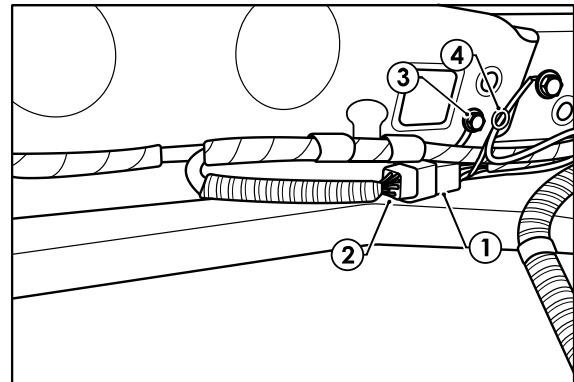
21. Fold down the rear seats and remove the luggage compartment floor cover (1) and remove the centre, LHS and RHS tool trays (not shown).
22. Remove the luggage compartment rear trim (2).



23. Locate a suitable area in the LHS rear quarter and drill out the grommet hole (1) to Ø30mm.
24. After drilling, file any rough or sharp edges and spray on rust inhibitor.

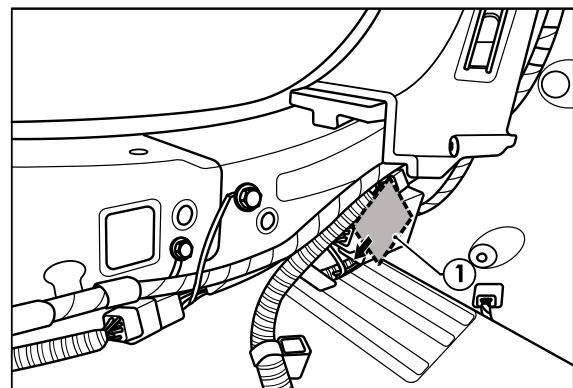


25. Connect the trailer patch (P/No:100471-WL) break-out connector (1) to the vehicle break-out connector (2).
26. Secure the trailer patch ground ring terminal (3) to the vehicle grounding point (4).
27. From outside the vehicle feed the tail harness (1200mm) blue connector through the hole and slide the grommet to desired location ensure the grommet is seated properly.
28. Secure the grommet with supplied cable tie.
29. Route the tail harness blue connector towards the trailer patch mating connector.
30. Connect the blue mating connectors.

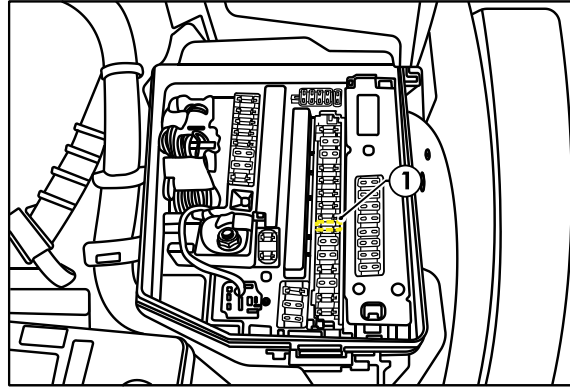


31. Apply double sided tape to the ECU (1) and adhere it to the outward face of the inner sheet metal on the RHS of the luggage compartment.

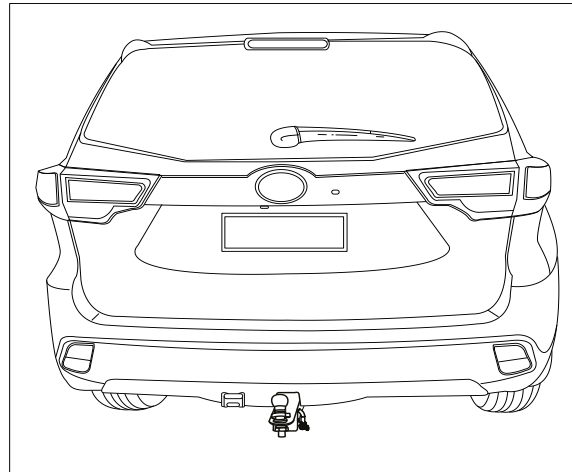
Ensure the ECU is mounted with the connector pointing downwards as much as possible to avoid water ingress or condensation.



-
32. Referring to the fuse panel, locate the 'Towing' fuse location (1). Insert the (supplied) 30-amp fuse into the 'Towing' fuse location (1).



-
33. Test the body harness using a light board or multimeter.
34. Using cable ties (not supplied), secure harnesses away from any moving parts, sharp edges or hot surfaces at 200mm intervals.
35. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles following steps 1-9, 20-21 in reverse.
36. Place the instructions in the glove box after fitment.





CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE
VEHICLE'S GLOVEBOX AFTER INSTALLATION

**THANK YOU FOR PURCHASING TRAILBOSS. WITH CORRECT MAINTENANCE AND CARE
THIS PRODUCT WILL PROVIDE A LIFETIME OF TROUBLE-FREE OPERATION.**

TOWBAR MAINTENANCE AND CARE:

1. Trailboss recommend that the towbar LUG or TBM (Trailer Ball Mount) Pull Pin and R-clip are removed and stored when not in use. Removal of LUG or TBM (Trailer Ball Mount) is advisable when not in use to assist with any of the following.
 - Ensure rear number plate is not obscured.
 - Allow maximum available departure angle and prevent any potential interference.
 - Prevent possible interference with vehicles reverse sensors or camera detecting a tow ball mount as an obstruction during reversing.
 - Removes towball mount as an obstruction for when moving around the rear of the vehicle.
2. Trailboss recommends routine inspection of your towbar to ensure trouble free towing.
 - Bolt security and tension should be regularly inspected and checked for correct tension. Replace any worn or defective parts with suitable grade & class fasteners. Inspection should be requested to coincide with vehicle major services.
3. It is the owner's responsibility to ensure towing and down ball weight capacities of the towing vehicle are not exceeded.
 - Towing and down ball weights allowable may differ according to model variations. Please refer to owner's manual or vehicle dealer to confirm exact rating for your vehicle model variant.
 - It is not uncommon for the vehicle tow rating to differ from the towbar rating. When this occurs, the lesser rating must be adhered to.
 - For vehicles fitted with enhanced vehicle functions that may be altered/changed when towing i.e Trailer sway mitigation, blind spot detection, adaptive cruise control etc. Please consult owner's manual to understand changes enabled when towing and after towing.

WARRANTY INFORMATION:

Trailboss Towbars are covered by a Lifetime Warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

For further details please contact customer service on 1800 812 017.

PRO SERIES SILENT ANTI-RATTLE HITCH PIN

Your Trailboss towbar is equipped with a Pro Series Silent Anti-Rattle Hitch Pin technology to help reduce towbar tongue rattle in most driving conditions. Please ensure below instructions are understood and routine maintenance is carried out to ensure best towing experience.

Regularly inspect for wear and check the tightness of the Silent Anti-Rattle Hitch Pin. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- Before towing, ensure R-Clip is properly installed and hitch pin nut is installed and tensioned. Replacement parts are available from your Pro Series Distributor.

TOWBALL MOUNT REMOVAL/INSTALLATION

STEP 1

Insert Trailer Ball Mount (TBM) (a) into towbar hitchbox (b), aligning hole in TBM shank (c) with hole in hitchbox (d) (Fig. 1)

STEP 2

Insert Silent Anti-Rattle Hitch Pin (e) through hole in hitchbox and hole in TBM shank (g); ensure the locators are inserted into the notches in the hitchbox (Fig. 2)

STEP 3

Screw Silent Anti-Rattle Hitch Pin (f) onto Smart Pin (g); tighten Smart Pin Nut until finger tight, ensuring TBM is restrained from up and down movement.

STEP 4

Tighten Silent Anti-Rattle Hitch Pin Nut by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig. 4).

STEP 5

Install Silent Anti-Rattle Hitch Pin R-Clip through the hole that provides best clearance or easiest access. (Fig. 5)

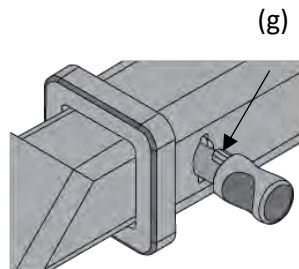
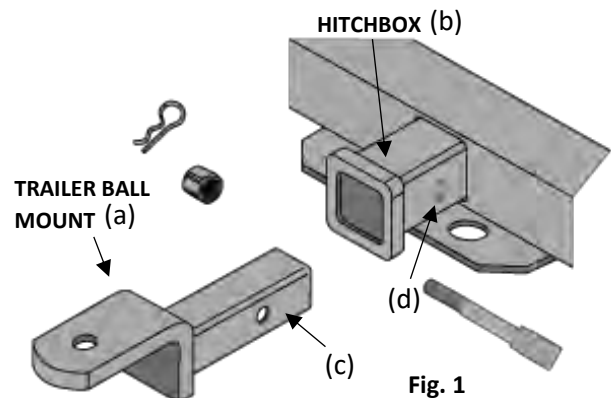


Fig. 2

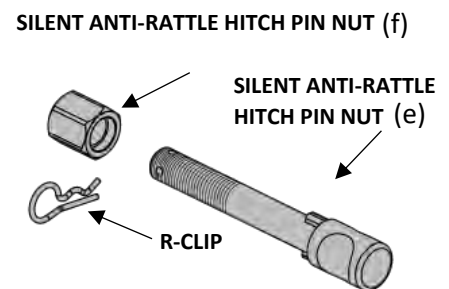


Fig. 3

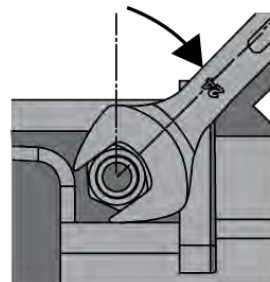


Fig. 4

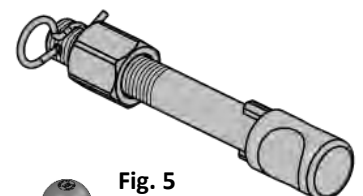


Fig. 5

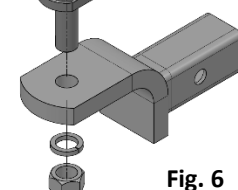


Fig. 6