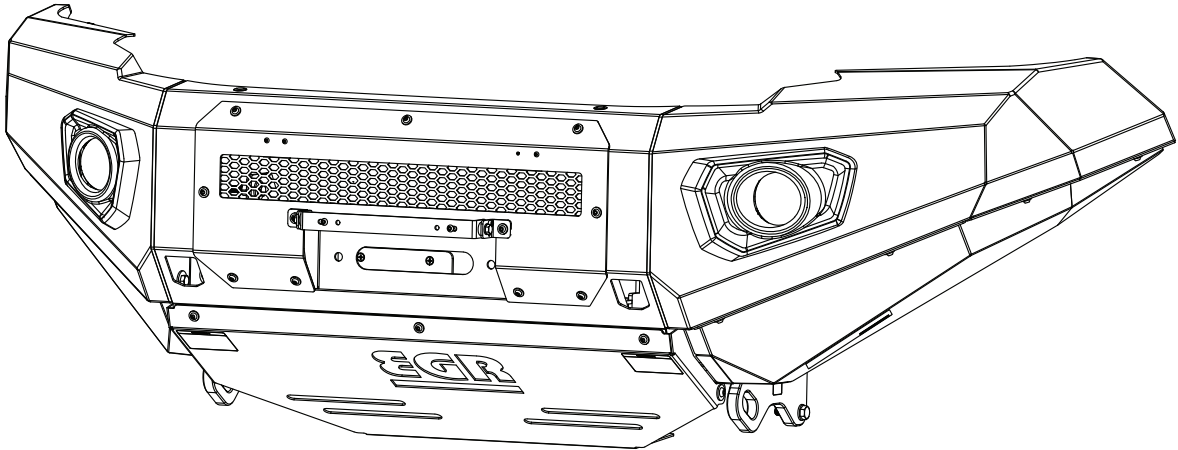
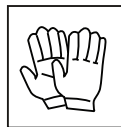
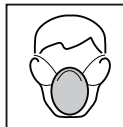


**Toyota Hilux MY20
EGR CrossTrac Bullbar****Caution**

- Do not attach Vehicle Front Protection System (VFPS) to the vehicle using anchorages not intended for this purpose (e.g. engine mounting bolts).
- Do not use this product for any vehicle make or model, other than those specified by the VFPS manufacturer.
- Do not remove the plaque or label from the VFPS.
- Do not modify the structure of the VFPS in any way.
- Do not attach EGR CrossTrac Bullbar to the vehicle using anchorages not intended for this purpose (eg. engine mounting points).
- Do not use this product for any vehicle make or model, other than those specified in this document.
- Do not modify the structure of the Bullbar in any way.

Safety Notes

- Check that all work practices comply with safety standards.
- Please wear appropriate clothing and use safety equipment.

**General Notes**

- Read through the fitting instructions before installation of accessory.
- Always install the accessory following the fitting instructions. Failure to do so may cause damage to the vehicle or the accessory.
- Ensure all recyclable discarded vehicle accessory components and packaging are recycled following local recycling regulations.
- Safely store and protect any removed vehicle components.
- Ensure that all lamp and sensor function is checked after fitment.



Care Instructions

- Do not use any other mounting location / method other than described in this instruction.
- It is advisable to seek assistance of another person when installing this product.
- Repair or modification may affect proper operation of the airbag resulting in serious injury.
- Ensure all torque settings are followed.
- To maintain your Bullbar wash regularly with car wash detergent, hose off and chamois dry.
- Stubborn grime can be removed with kerosene.



Parts Supplied (Assemblies)

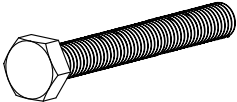
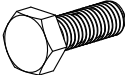
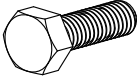








ITEM	DESCRIPTION	QTY	IMAGE
1	Centre Grille Assembly	1	
2	Returns Assembly LHS	1	
3	Returns Assembly RHS	1	
4	Winch Cradle	1	
5	Bash Plate	1	
6	Undercover LHS	1	
7	Undercover RHS	1	
8	Recovery Hook LHS	1	
9	Recovery Hook RHS	1	
10	Mount Bracket Inner LHS	1	
11	Mount Bracket Inner RHS	1	
12	Mount Bracket Outer LHS	1	
13	Mount Bracket Outer RHS	1	
14	Number Plate Mount Assembly	1	

Parts Supplied (Hardware Kit)

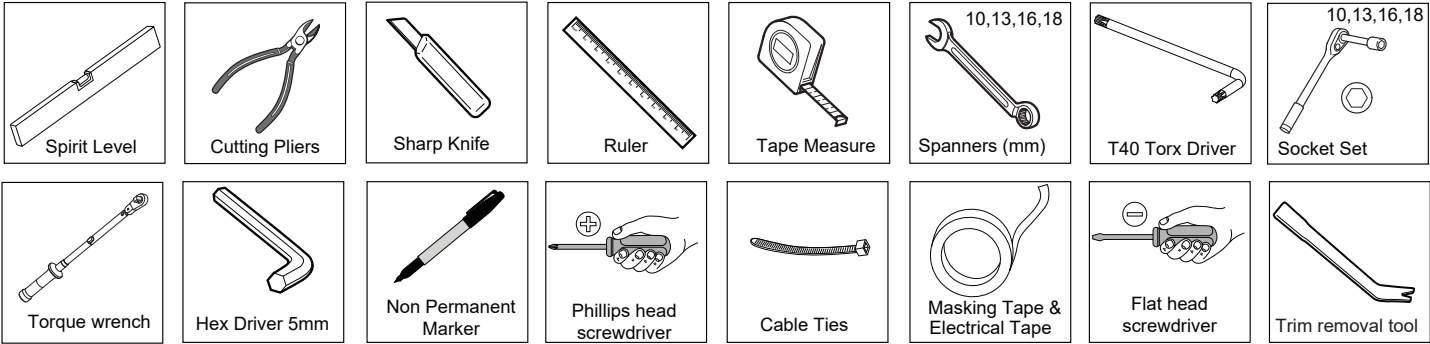
ITEM	DESCRIPTION	QTY	IMAGE
15	Bolt Plate	1	
16	Headlamp Bracket A LHS	1	
17	Headlamp Bracket A RHS	1	
18	Headlamp Bracket B LHS	1	
19	Headlamp Bracket B RHS	1	
20	Grille Bracket	1	
21	Winch Control Box Bracket MISC5909	1	
22	Washer Plate MISC5847	8	
23	M6 x 20 Button Head Allen Screw - Size 4 SCRW1064	13	
24	M6 x 20 Counter Sink Phillips Screw SCRW1077	4	
25	M8 x 30 Button Head Allen Screw - Size 5 SCRW1093	2	
26	M8 x 35 Button Head Torx Screw - T40 SCRW1078	2	
27	M10 x 30 Hex Bolt - AF16 SCRW1066	4	
28	M10 x 40 Hex Bolt - AF16 SCRW1094	4	
29	M10 x 40 Hex Bolt - AF16 SCRW1092 (Fine Thread)	4	
30	M10 x 50 Hex Bolt - AF16 SCRW1067	4	
31	M10 x 100 Hex Bolt - AF16 SCRW1095	4	






















FINE
THREAD

Parts Supplied (Hardware Kit)

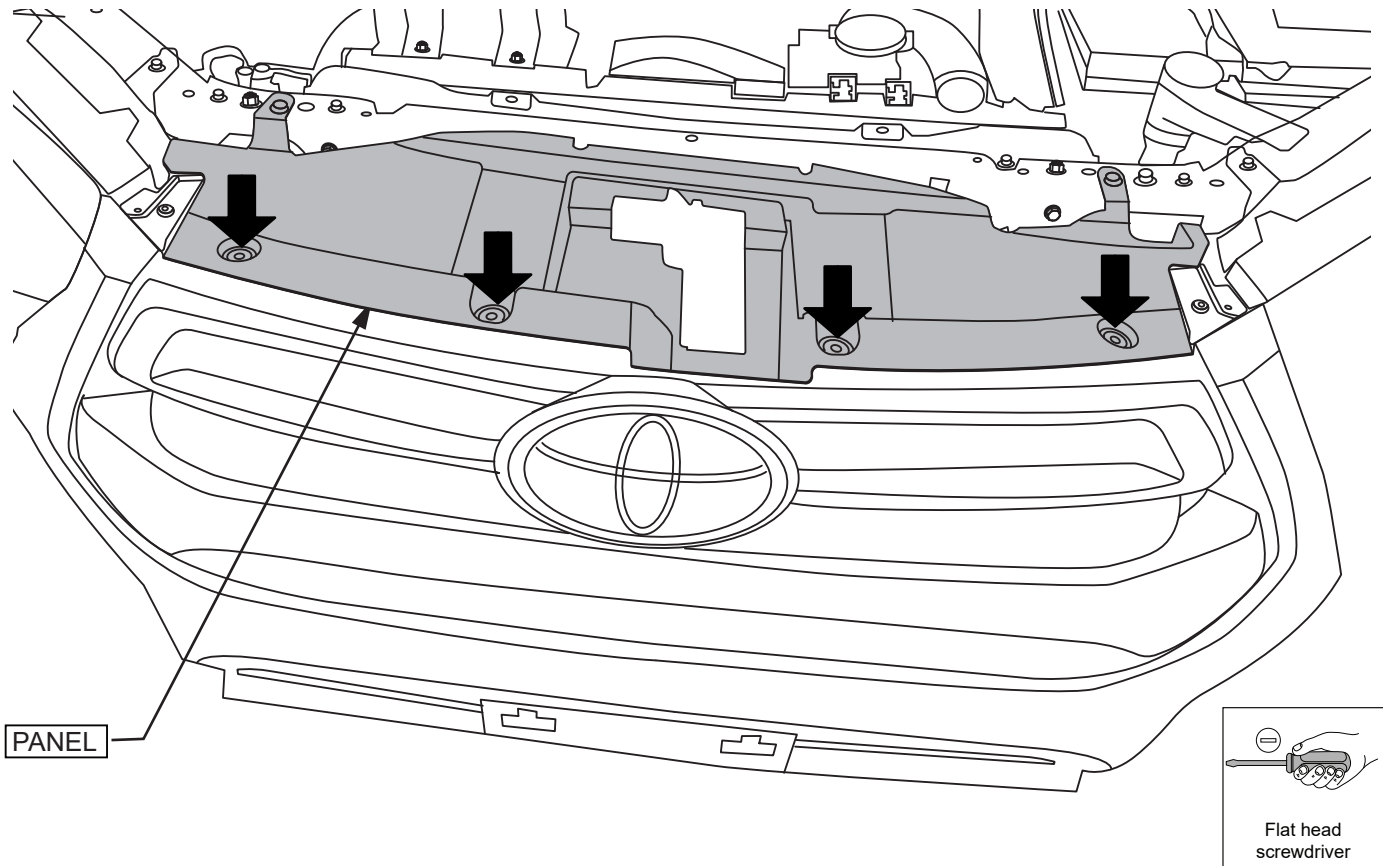
ITEM	DESCRIPTION	QTY	IMAGE
32	M12 x 120 Hex Bolt - AF18 SCRW1069	2	
33	M12 x 45 Hex Bolt - AF18 SCRW1090 (Extra Fine Thread)	2	
34	M12 x 50 Hex Bolt - AF18 SCRW1091 (Extra Fine Thread)	2	
35	Washer M6 WASH0297	15	
36	Washer M8 WASH0298	2	
37	Washer M10 WASH0299	36	
38	Washer M12 WASH0300	8	
39	M10 Lock Nut - AF17 NUTS0343	18	
40	M8 Hex Nut - AF19 NUTS0346	2	
41	M8 Flange Nut - AF13 NUTS0350	2	
42	Spacer with Wire MISC5923	4	

Tools and Materials Required

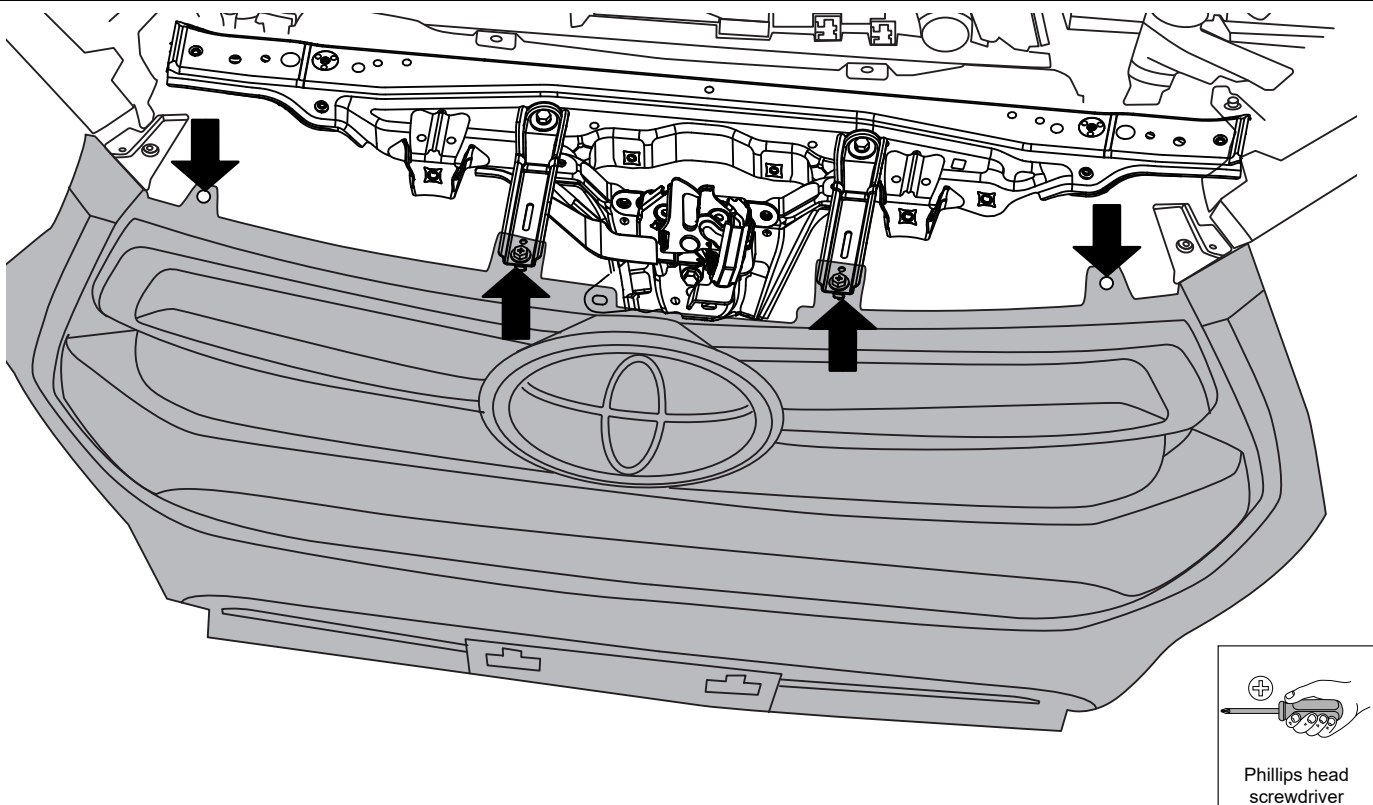


GLOSSARY	
	: Vehicle Part
	: Sequence
	: Part Provided
	:Torque Setting
	: Even Space
	: Reuse
	: Discard
	: Complete for Both Sides
	: Two People
	: Check
	: Caution
	: Clean
	: Location
	: Loosen
	: Adjust
	: Install & Remove
	: Equal
	: Disconnect
	: Connect
	: No Torque
	: Lock

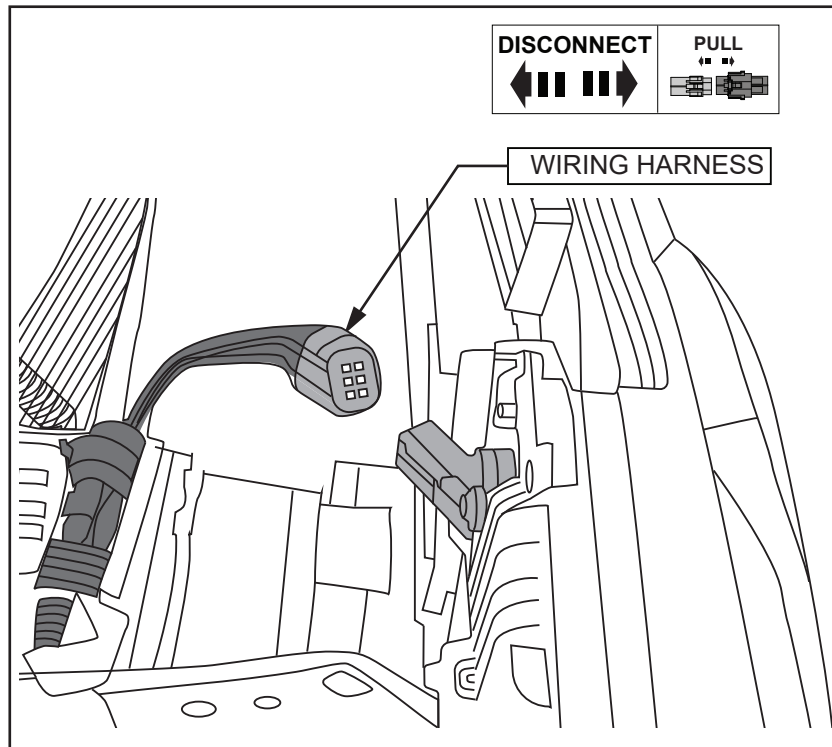
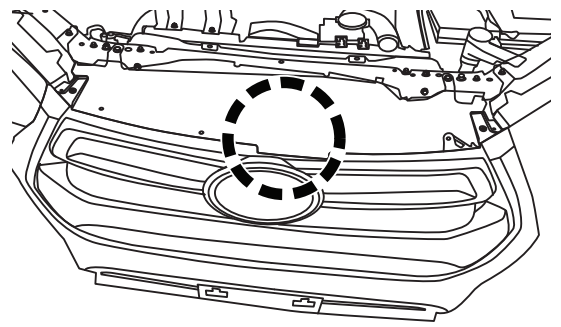
PART 1 - REMOVAL OF VEHICLE PARTS



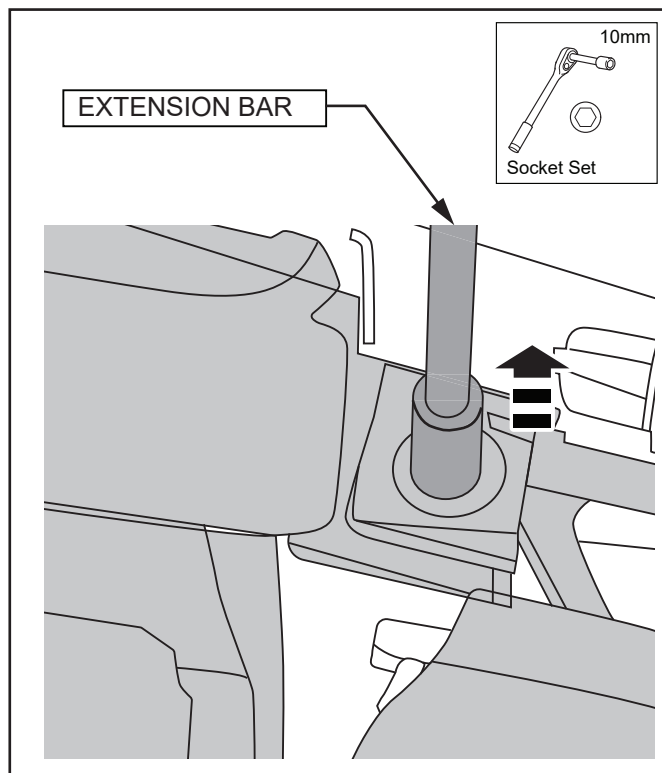
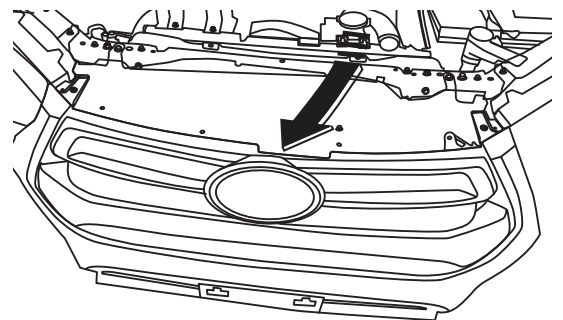
- 1 Remove the four screws fixing trim panel using a trim removal tool. Remove and retain the trim panel and screws.



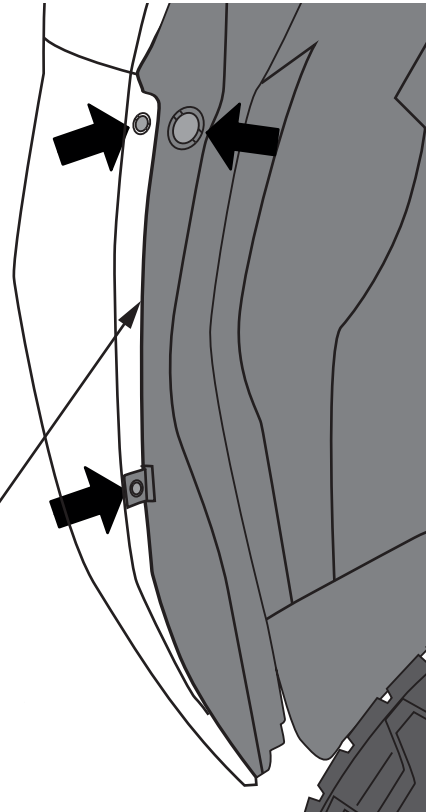
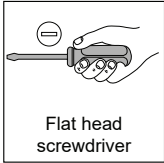
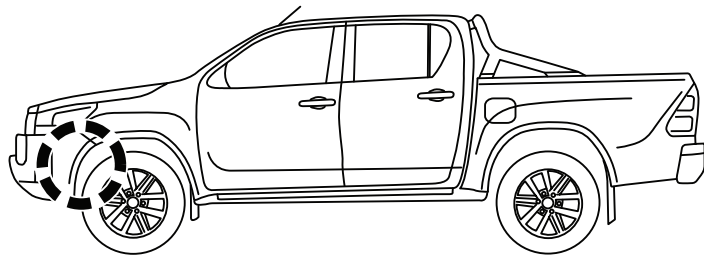
- 2 Remove the four screws fixing the grille to the frame. Retain the grille and screws.



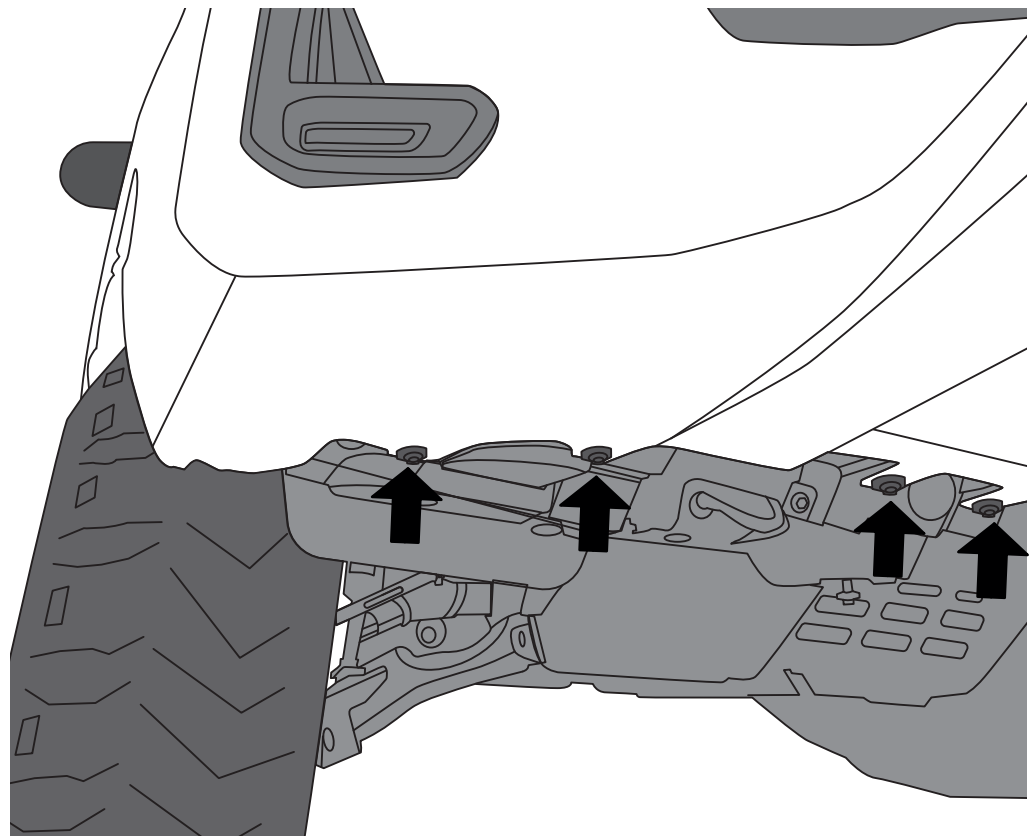
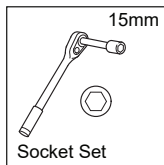
3 Disconnect the vehicle wiring harness from the bumper.



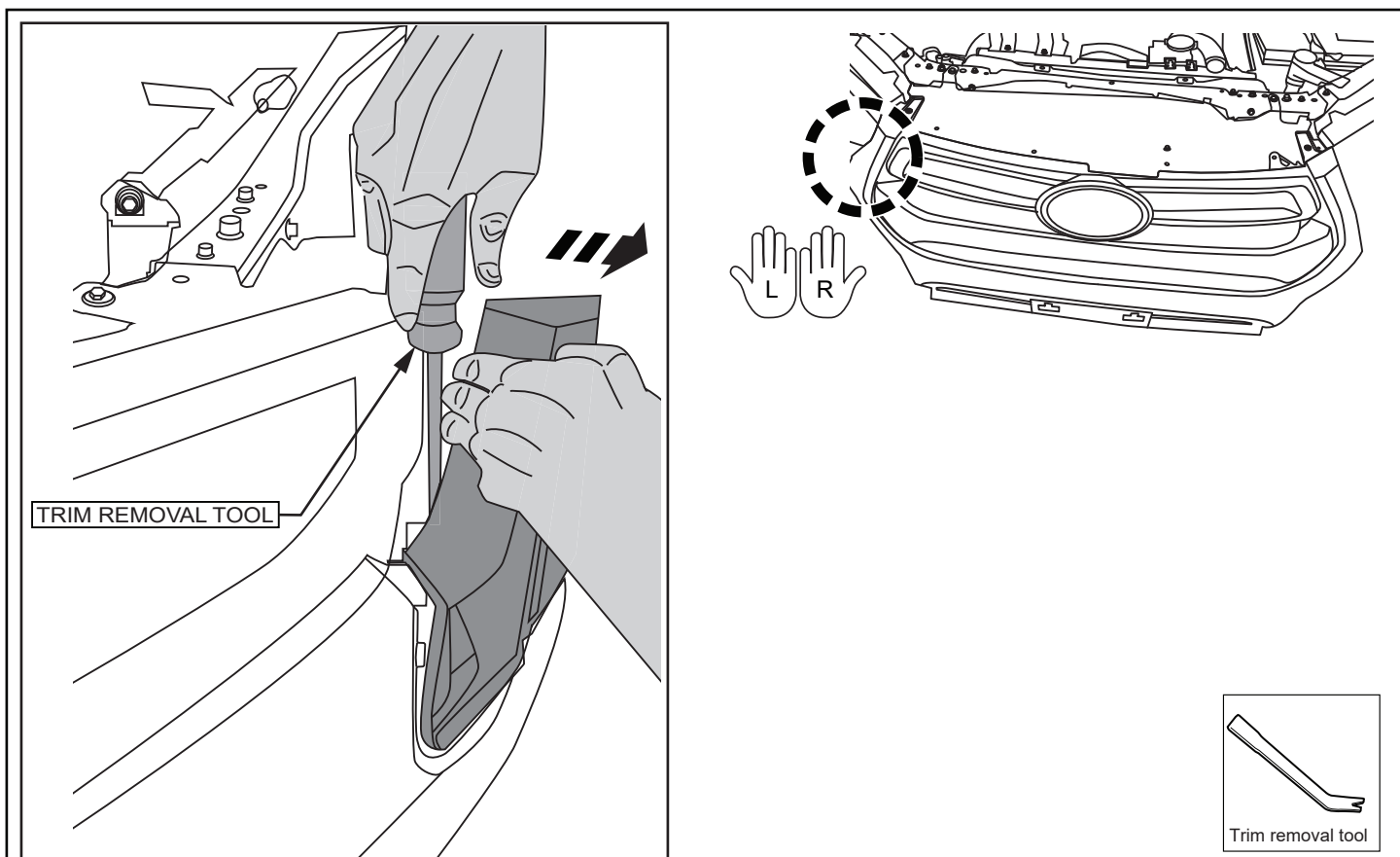
4 Look down the middle of the vehicle behind the grille and locate the middle screw securing the bumper. Remove the screw using long extension bar on the ratchet.



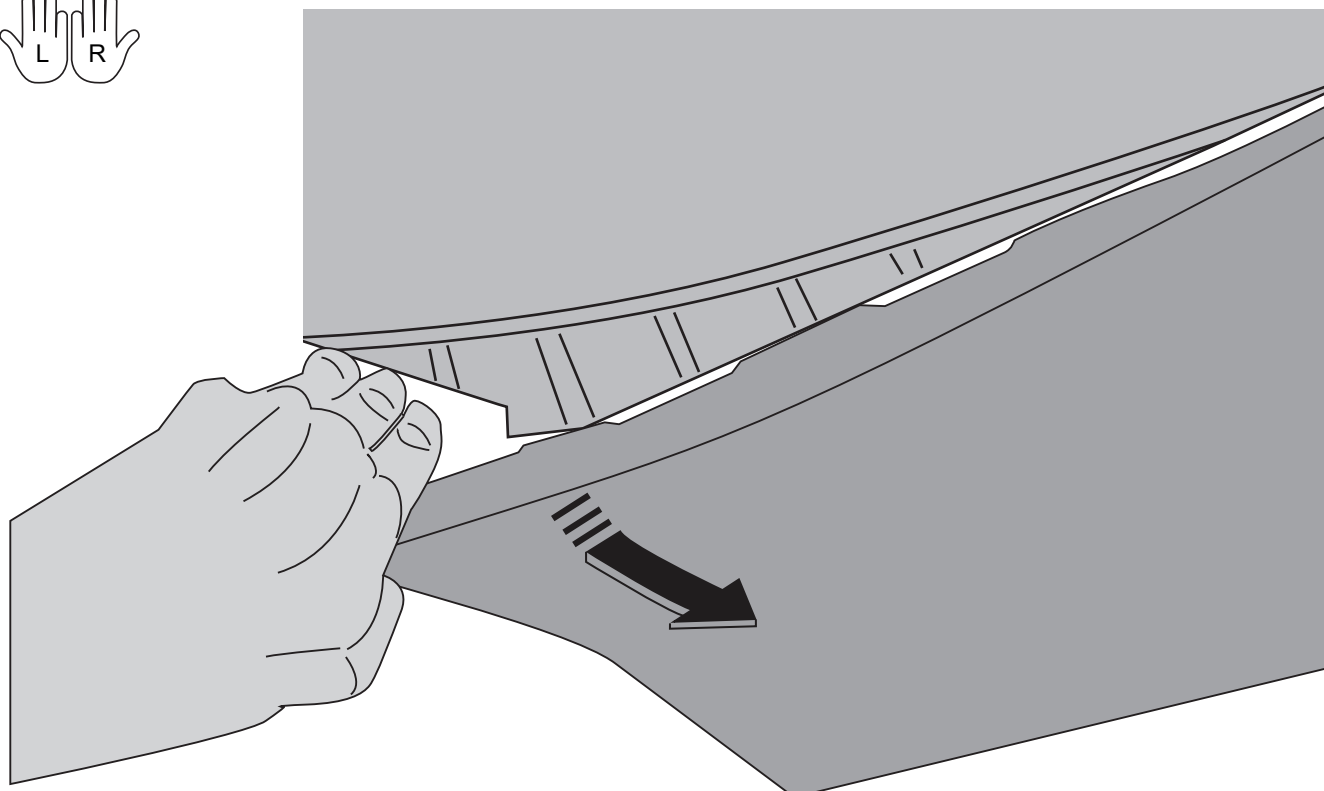
5 Remove the three screws connecting the wheel arch liner to the bumper.



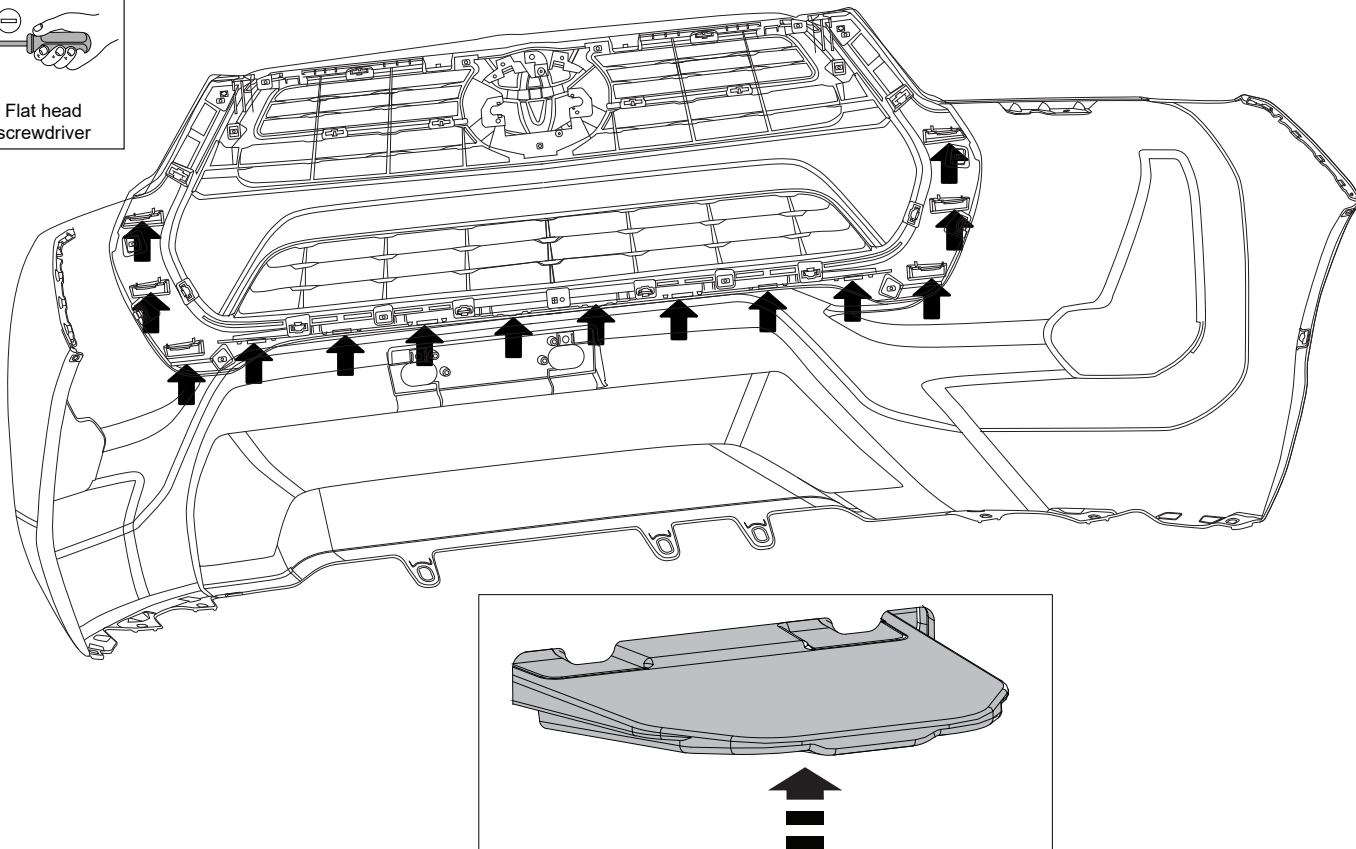
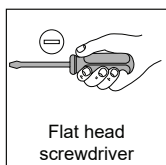
6 Remove all lower fixings securing the bumper to the vehicle. Repeat on LHS.



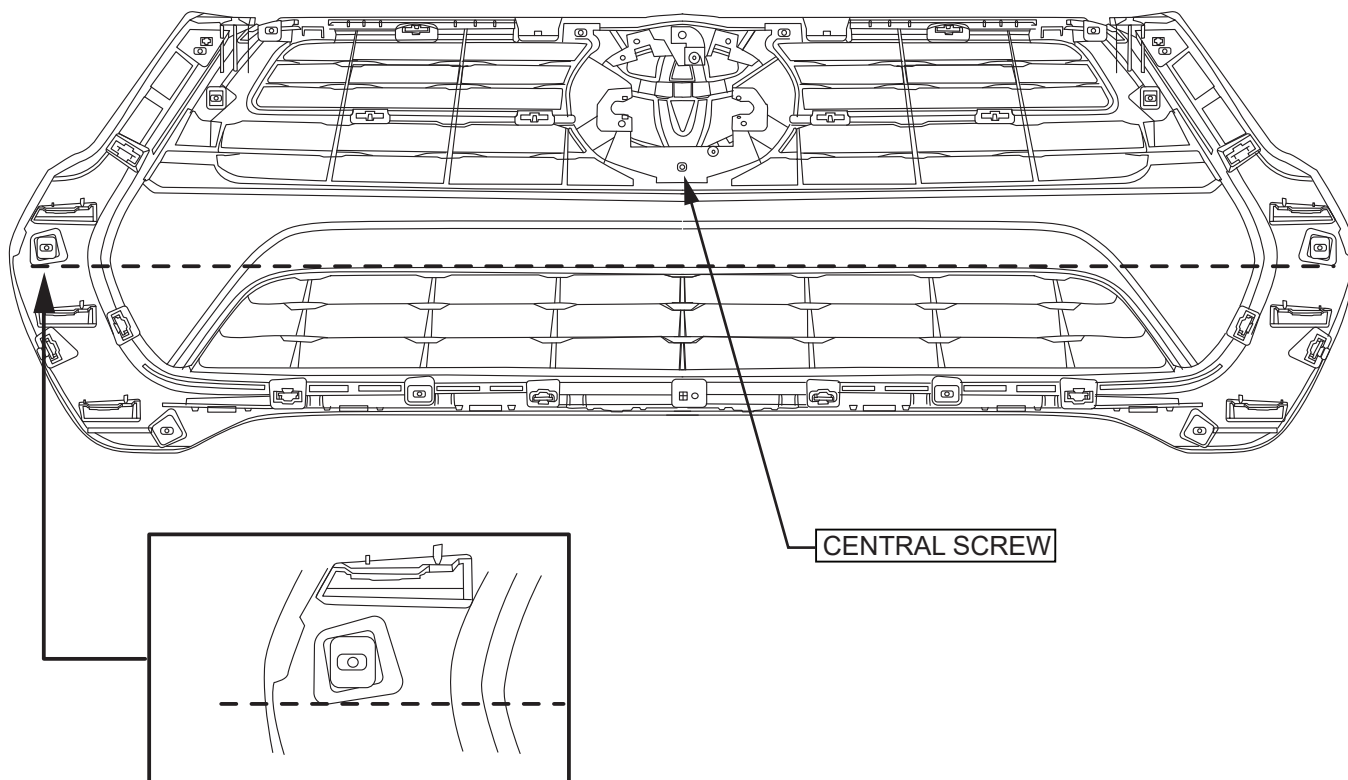
- 7** Use a trim removal tool to disengage the grille clip near the headlight by gently pulling the grille forwards and pressing the clip with the tool. Ensure the clip is disengaged then repeat on LHS



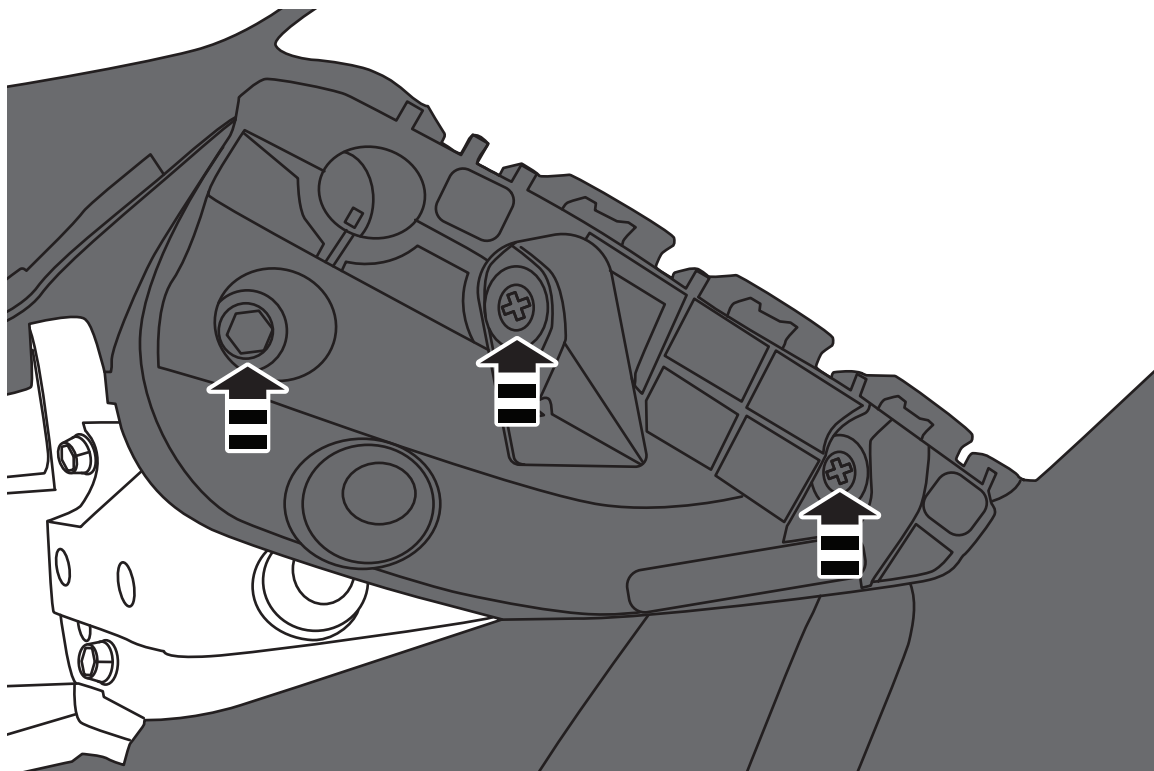
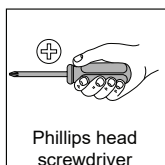
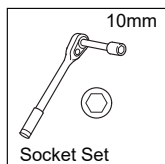
- 8** Gently unclip the LHS of the bumper by pulling it away from the fender. Repeat on RHS.



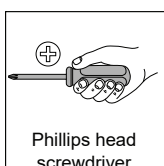
- 9** Disconnect the clips securing the bumper to the grille. Note: Lift the grille tab with flat screwdriver to release it from the bumper bar.



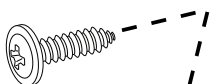
- 10** Locate the middle screw bosses on the grille and using a marker draw a straight line from the of one boss to the middle of the opposite boss. Cut the grille along this line. Discard the lower portion. Remove and retain the Grille Central Screw for installation in step 37.



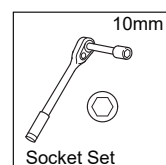
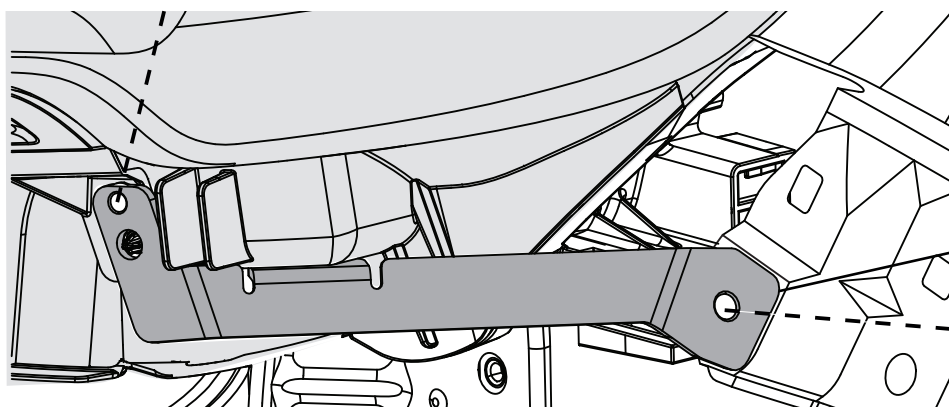
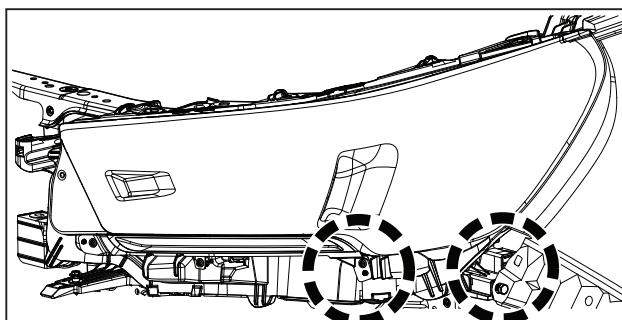
- 11** Remove the two screws and one bolt fixing the bumper support bracket to the fender. Remove the bumper support bracket. Retain the screw.



VEHICLE
SCREW



LHS HEADLIGHT - LOWER FENDER SIDE



16

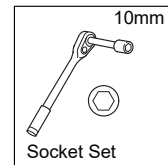
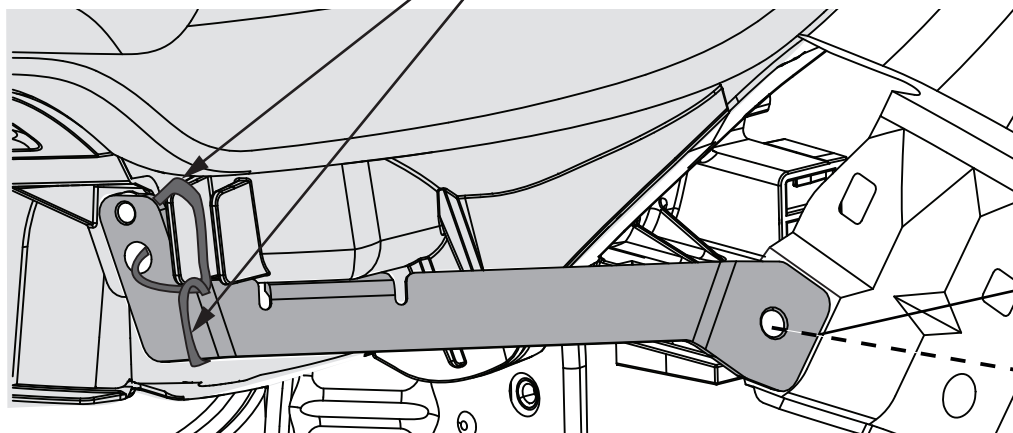
35

VEHICLE
SCREW

- 12** If fitting to a vehicle with a lower moulding on the headlight then remove and retain the outboard screw of the headlamp moulding. Remove and retain the screw fixing the fender to the headlamp. Install the Headlamp Bracket A LHS (16) using the headlamp moulding screw removed earlier, the fender screw removed earlier and an M6 Washer (35) as shown. Repeat on RHS. Proceed to Step 12. If vehicle does not have a lower moulding proceed to Step 11.

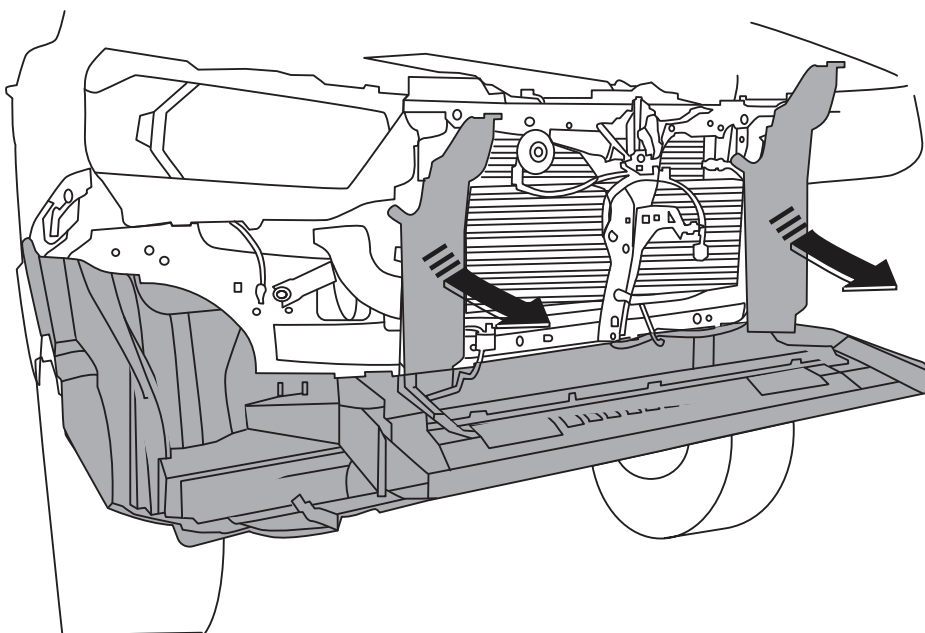


CABLE TIE X2

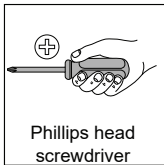


LHS HEADLIGHT - LOWER FENDER SIDE

- 13** If fitting to a vehicle without a lower moulding on the headlight then remove and retain the screw fixing the fender to the headlamp.
 Install the Headlamp Bracket A - LHS (16) using the fender screw removed earlier and an M6 Washer (35) as shown.
 Loop a cable tie through the large hole on the Headlamp Bracket A LHS (16) and over the tab on the headlamp, but do not tighten.
 Loop another cable tie over the Headlamp Bracket A LHS (16) and the cable tie installed previously.
 Tighten both cable ties. Repeat on RHS.

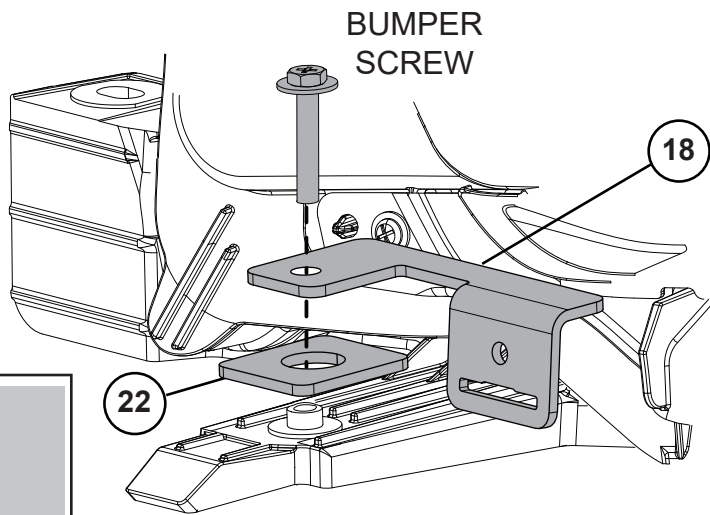
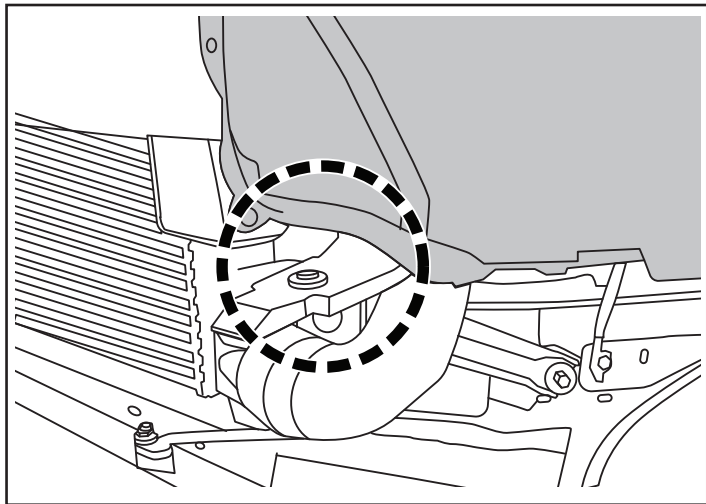


- 14** Remove the upper air deflectors by pulling them forward to disengage the clips from the vehicle.

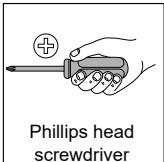


Phillips head
screwdriver

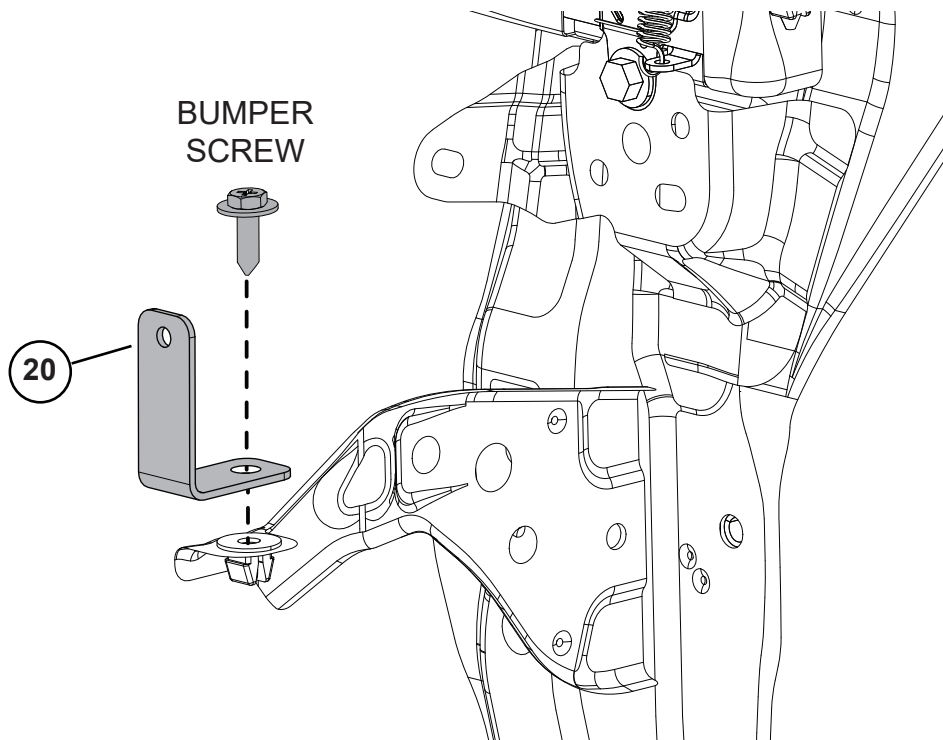
LHS HEADLIGHT - LOWER BRACKET



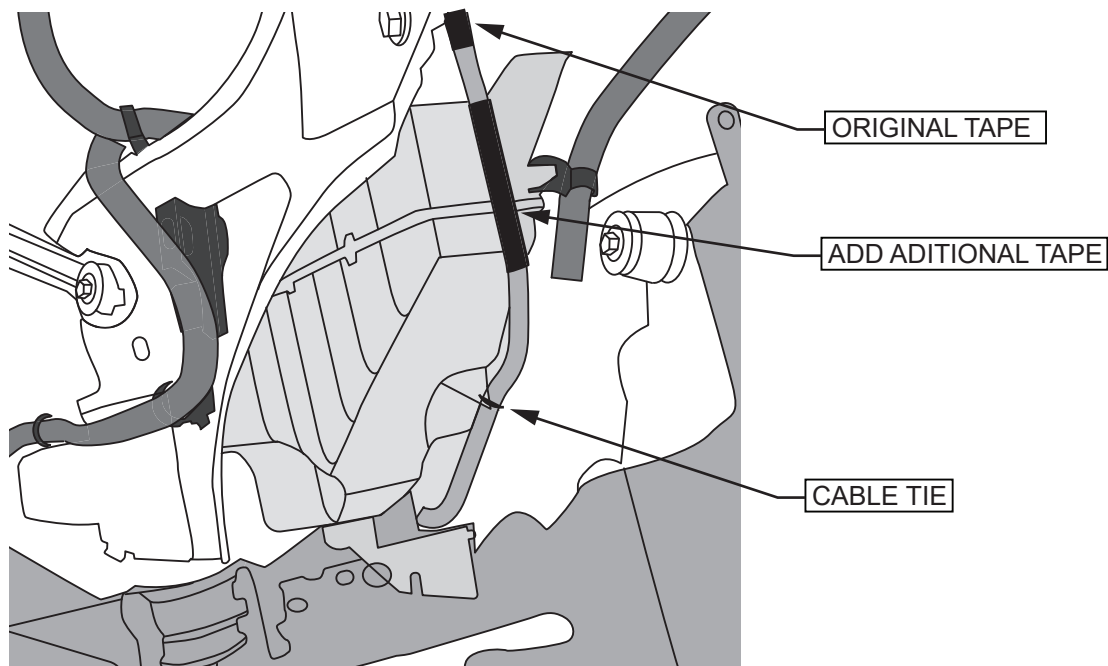
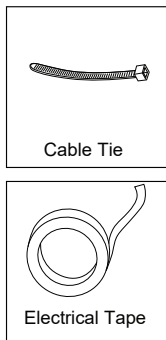
- 15** Install the Headlamp Bracket B LHS (18), a Washer Plate (22) and the bumper screw removed earlier. Repeat on RHS.



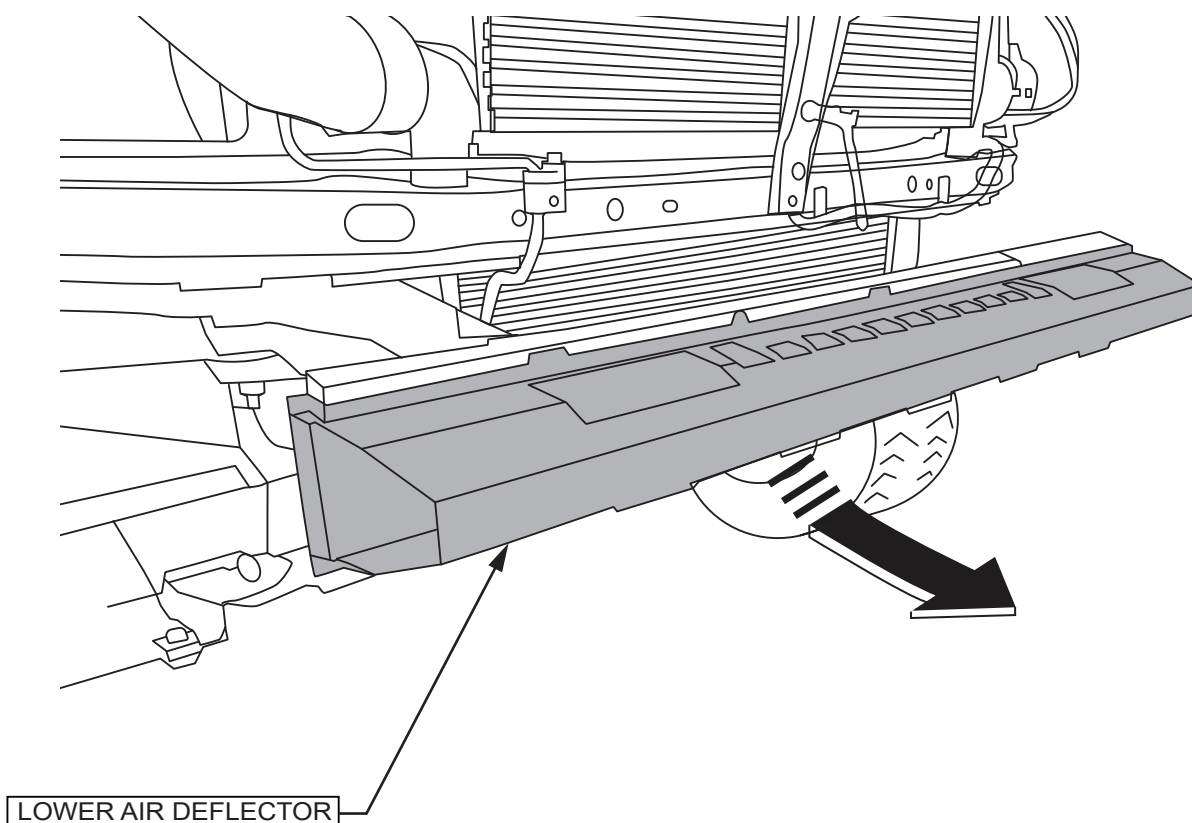
Phillips head
screwdriver



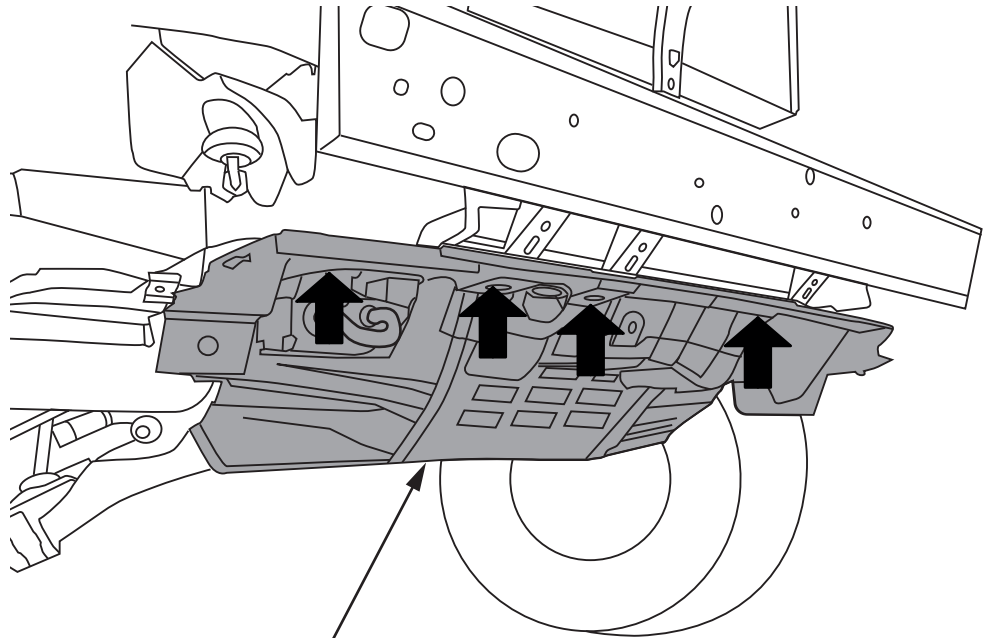
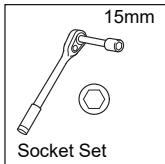
- 16** Install the Grille Bracket (20) into the radiator frame using the bumper screw removed earlier.



- 17** On the LHS of the vehicle locate the washer bottle hose and loosely cable tie the hose to the washer bottle to avoid the hose hanging down. Add additional tape lower than the original tape in the area shown. Tighten the cable tie.

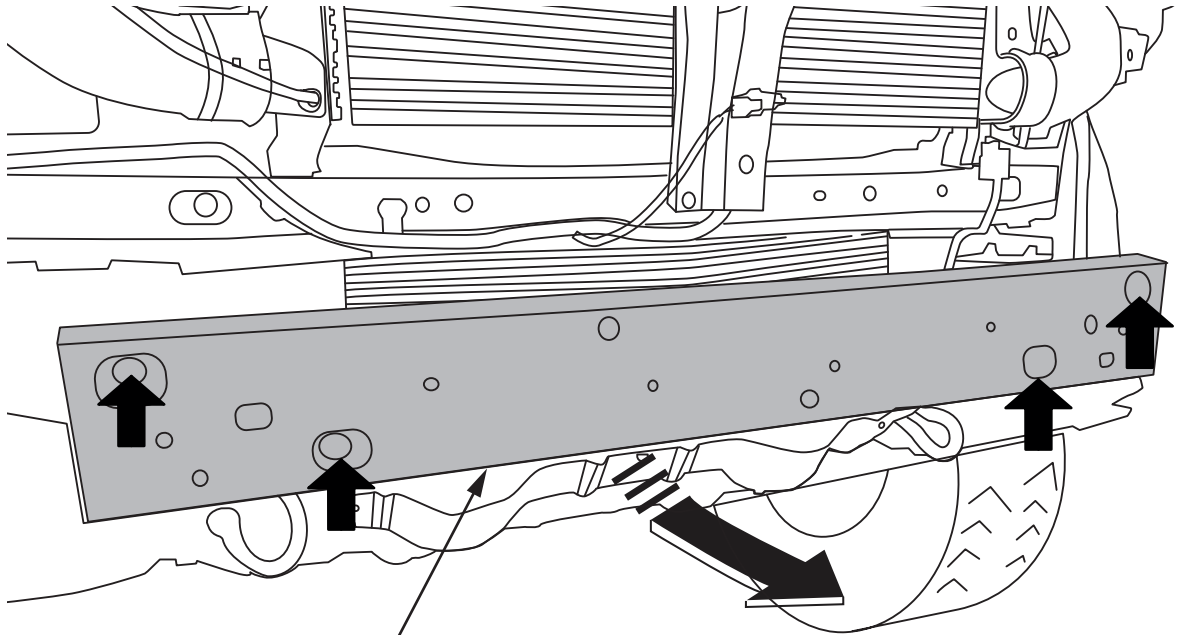
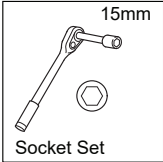


- 18** Remove the lower air deflectors by pulling them forward to disengage the clips from the vehicle.



UNDERBODY PRTECTION PANEL

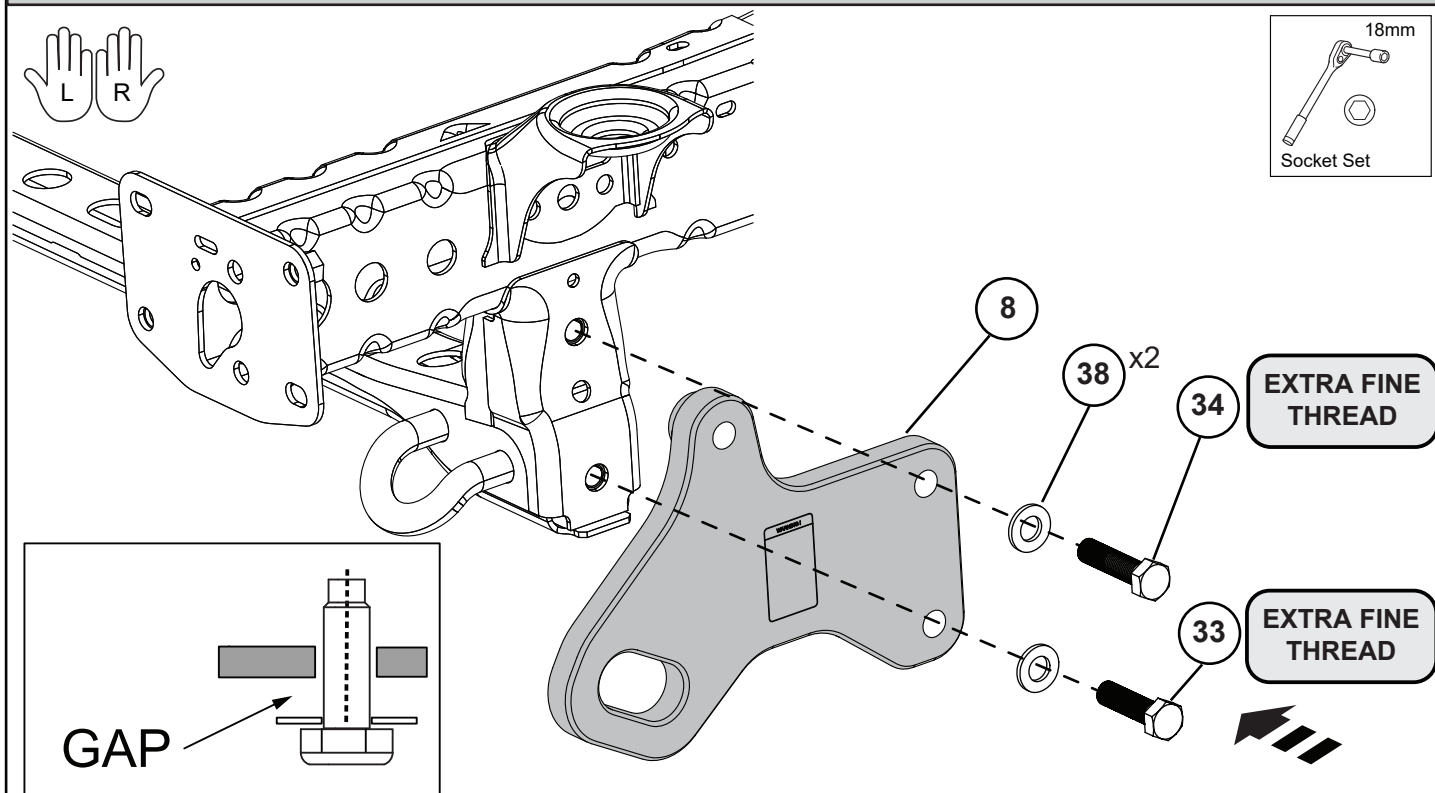
- 19** Remove the screws fixing the underbody protection panel.
Remove the underbody protection panel.



LOWER AIR DEFLECTOR

- 20** Remove the four bolts fixing the bumper beam to the chassis frame end plates
Remove the bumper beam

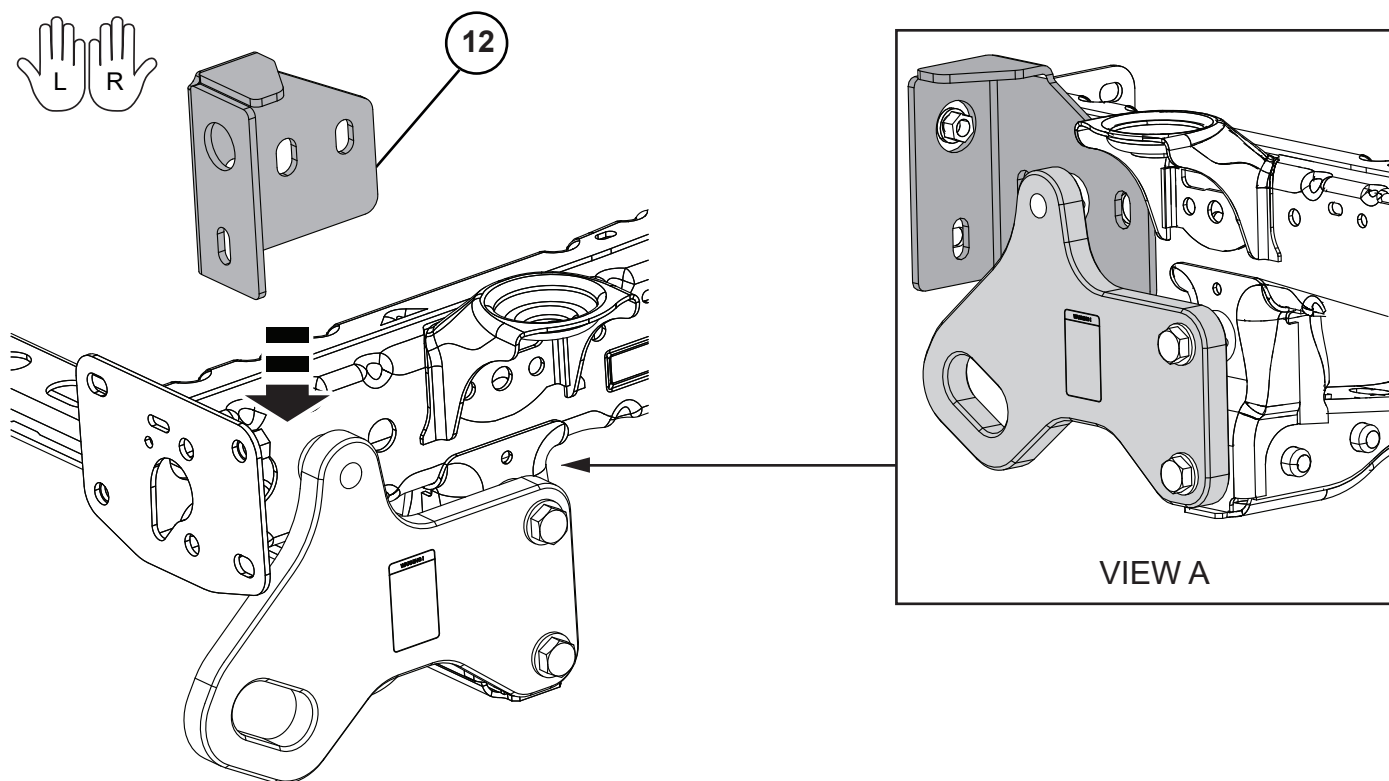
PART 2 - INSTALL OF FIXING STRUCTURE TO VEHICLE



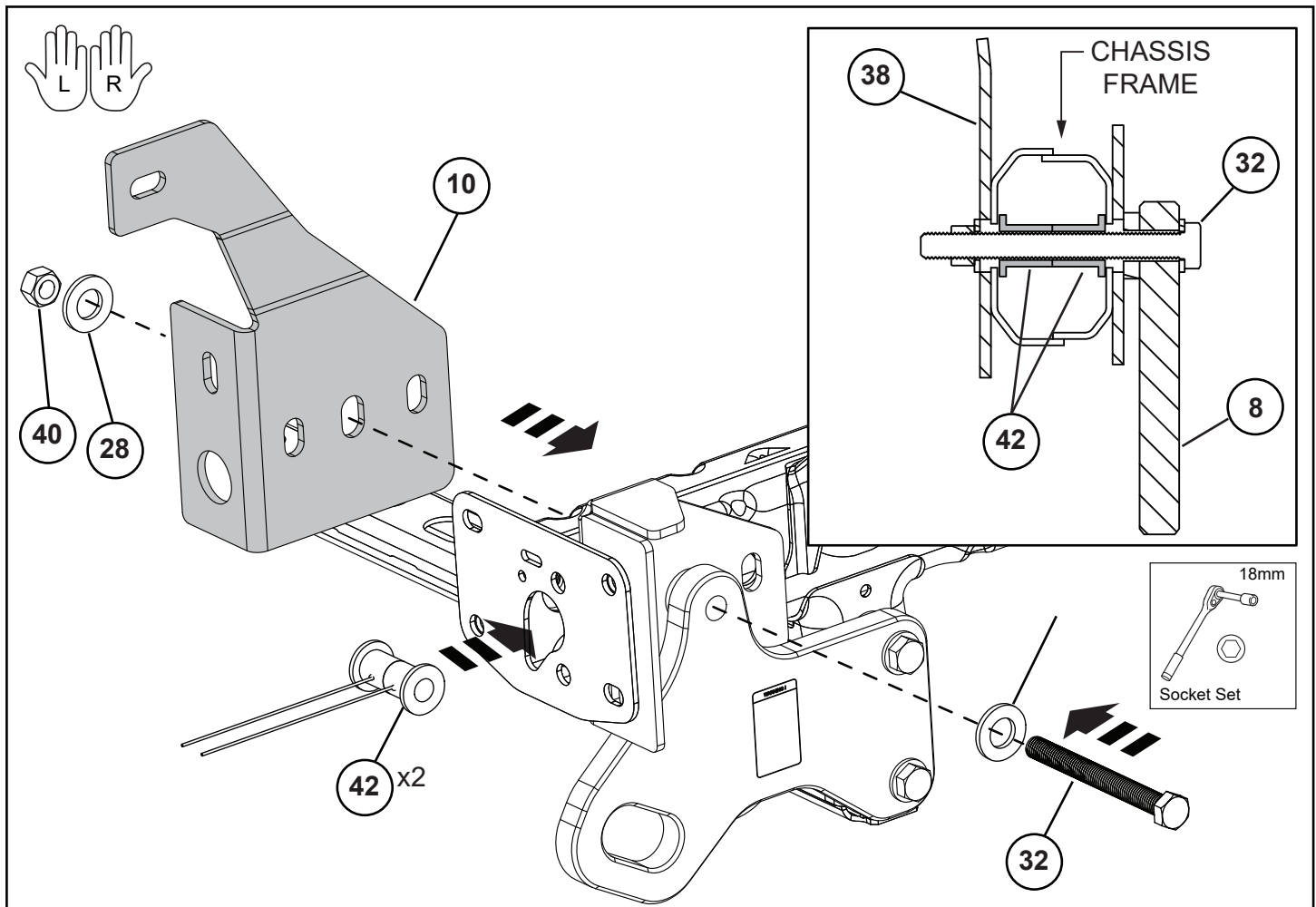
- 21** Loosely attach the Recovery Hook LHS (8) to the chassis frame using an M12 x 45 Hex Bolt (33) in the top hole, an M12 x 50 Hex Bolt (34) in the lower hole and an M12 Washer (38) with each bolt. Repeat on RHS.

Note: Both Bolts are Extra Fine Thread, check the part number on the bag matches the Part Supplied table before installing.

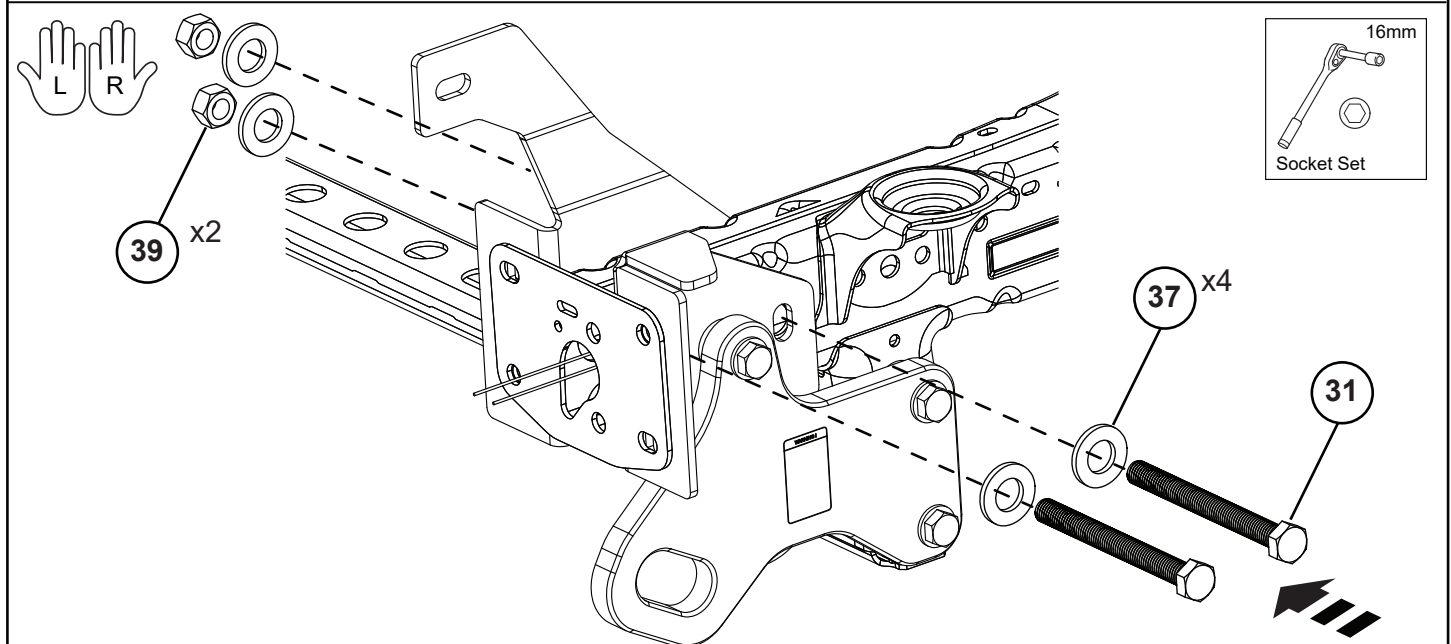
Note: Ensure a gap is left between the bolt head and the part to allow adjustment.



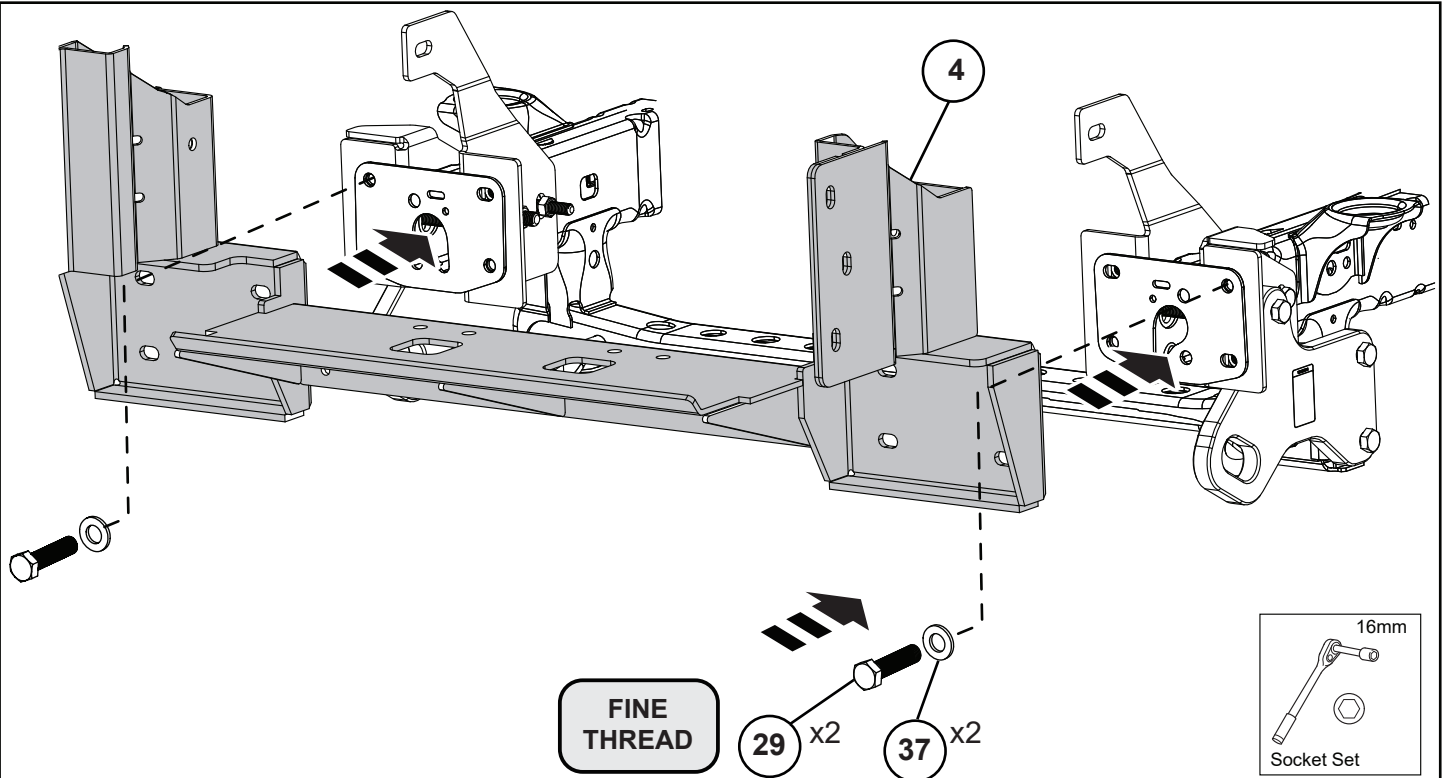
- 22** Install the Mount Bracket Outer LHS (12) between the chassis frame and the Recovery Hook LHS. The Mount Bracket Outer LHS (12) will rest on the weld nut on the chassis frame as shown in View A. Repeat on RHS.



- 23** Insert a Spacer with Wire (42) into the opening on the chassis frame feeding the Spacer onto an M12 x 120 Hex Bolt (32) with M12 Washer (38). Ensure that the bolt passes through the Recovery Hook and Mount Bracket Outer already installed. Once the first Spacer is installed onto the bolt insert the second spacer and push the bolt fully through the chassis frame, see the section. Install the Mount Bracket Inner LHS (10) onto the end of the bolt and loosely secure with an M12 Washer (28) and M12 Hex Nut (40). Do not tighten the bolt. Repeat on RHS.



- 24** Install an M10 x 100 Hex Bolt (31), two M10 Washers (37) and an M10 M-Lock Nut (39) in both the front and rear hole of the Mount Bracket Outer (LHS). Do not tighten the bolts. Repeat on RHS.



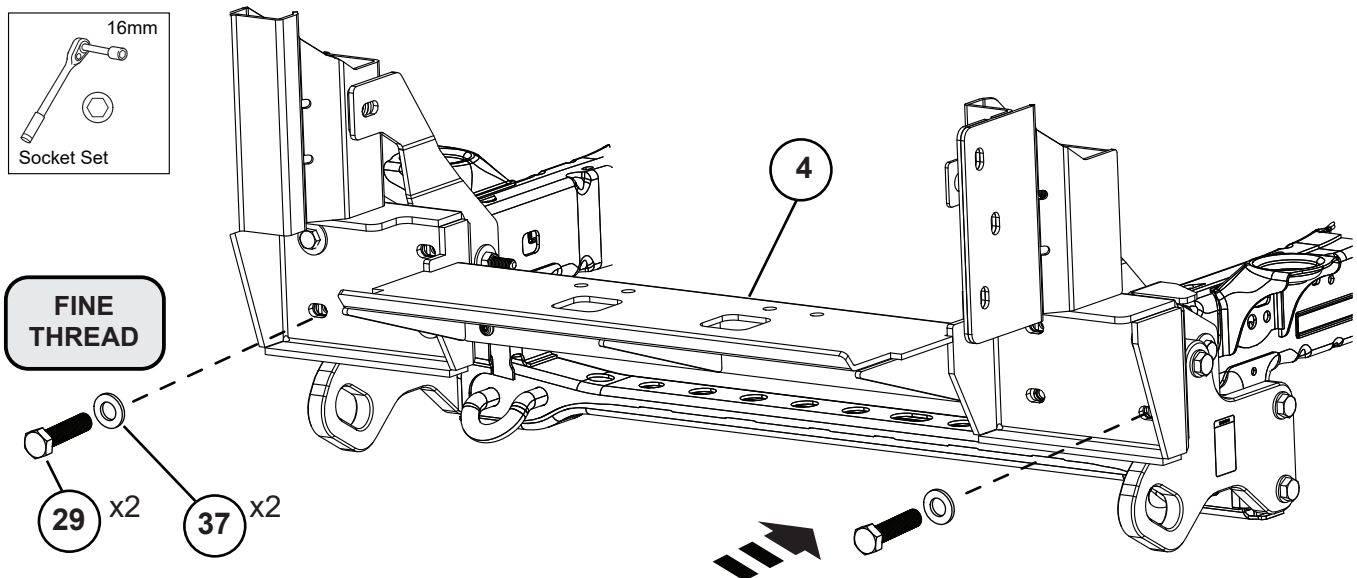
- 25** Loosely secure the Winch Cradle (4) onto the front of the chassis frame using two M10 x 40 Hex Bolts (29) and two M10 Washers (37). Install the bolts into the top outboard slot as shown. Do not tighten the bolts.

CAUTION:

Heavy Load – Two person lift or mechanical lifting aid required.

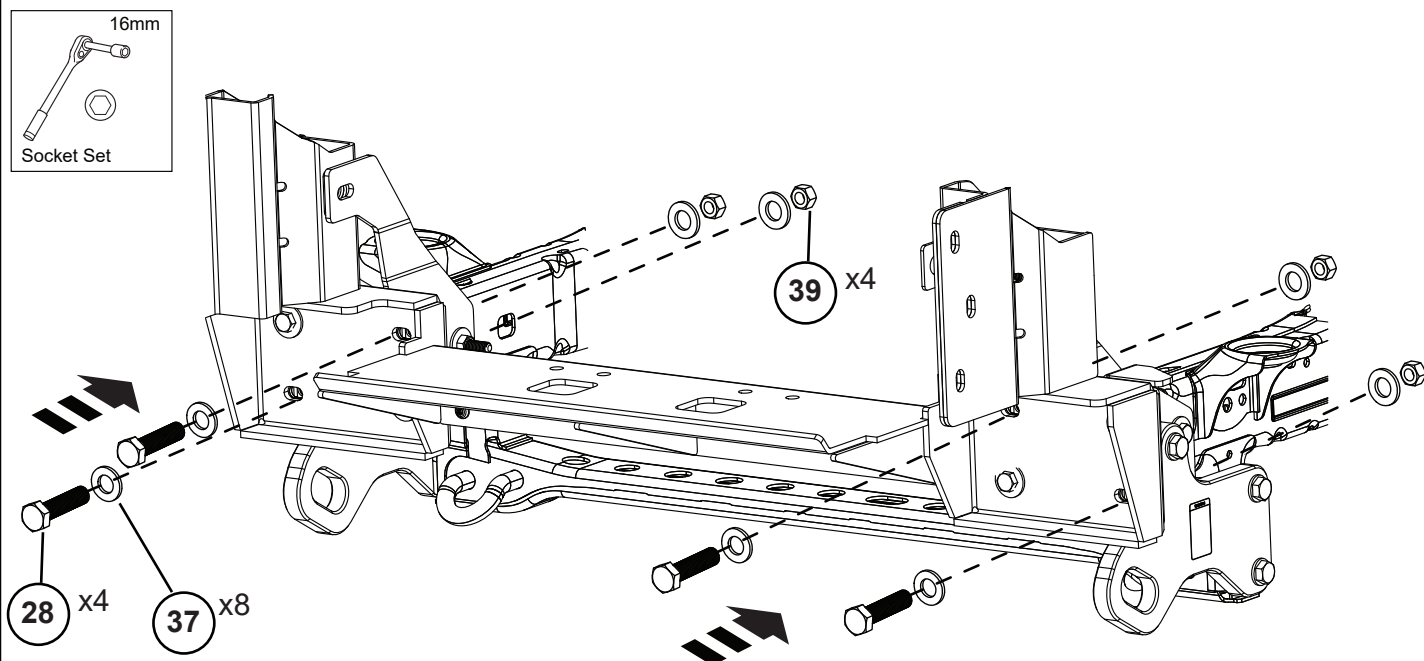
Unsecured Load – Keep clear of unsecured object. Spotter or mechanical lifting aid required.

Note: Both Bolts are Fine Thread, check that the part number on the bag matches the Part Supplied table before installing.

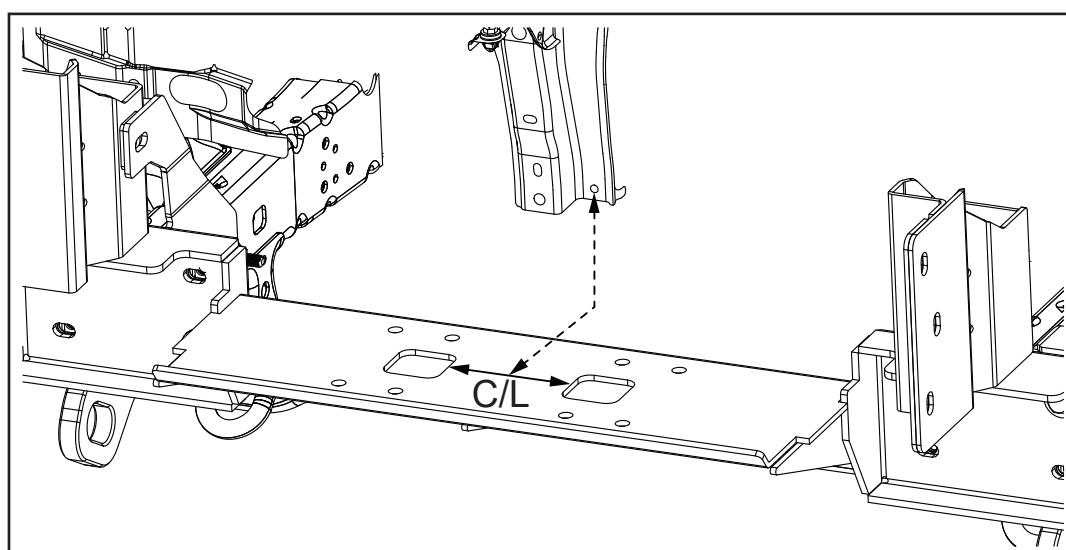
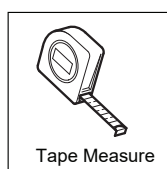
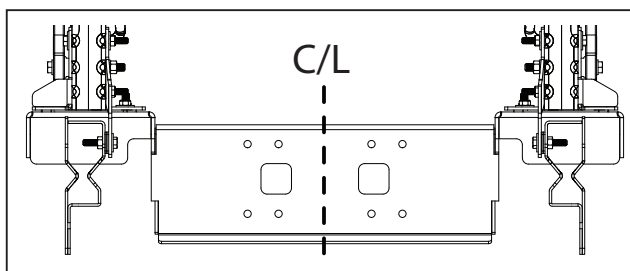
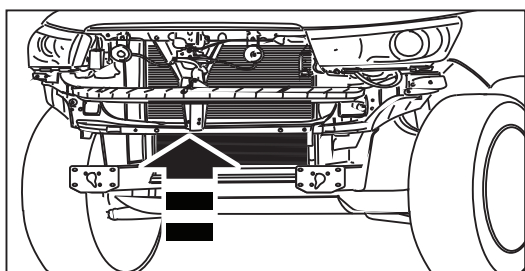


- 26** Install two M10 x 40 Hex Bolts (29) and two M10 Washers (37) through the Winch Cradle (4) and into the chassis frame. Install the bolts into the bottom inboard slots as shown. Do not tighten the bolts.

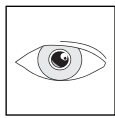
Note: Both Bolts are Fine Thread, check that the part number on the bag matches the Part Supplied table before installing.



- 27** Install four M10 x 40 Hex Bolts (28), eight M10 Washers (37) and four M10 M-Lock Nuts (39) through the Winch Cradle (4) and the chassis frame. Do not tighten the bolts.



- 28** Using a Non-Permanent marker, Masking Tape and Tape Measure find then mark the centre of the Winch Cradle (4) using the edge of the rectangular cutouts. Align the centre marked on the Winch Cradle (4) with the middle of the hole shown on the radiator support frame. Once aligned finger tighten bolts securing the Winch Cradle so that it does not move.



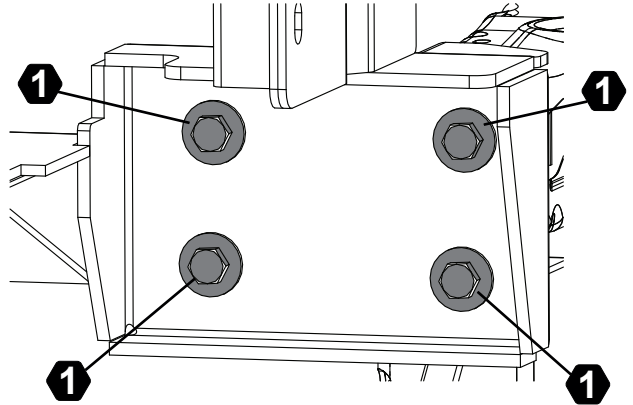
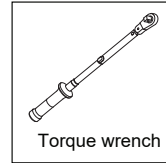
NO GAP

10

12



1 44 Nm

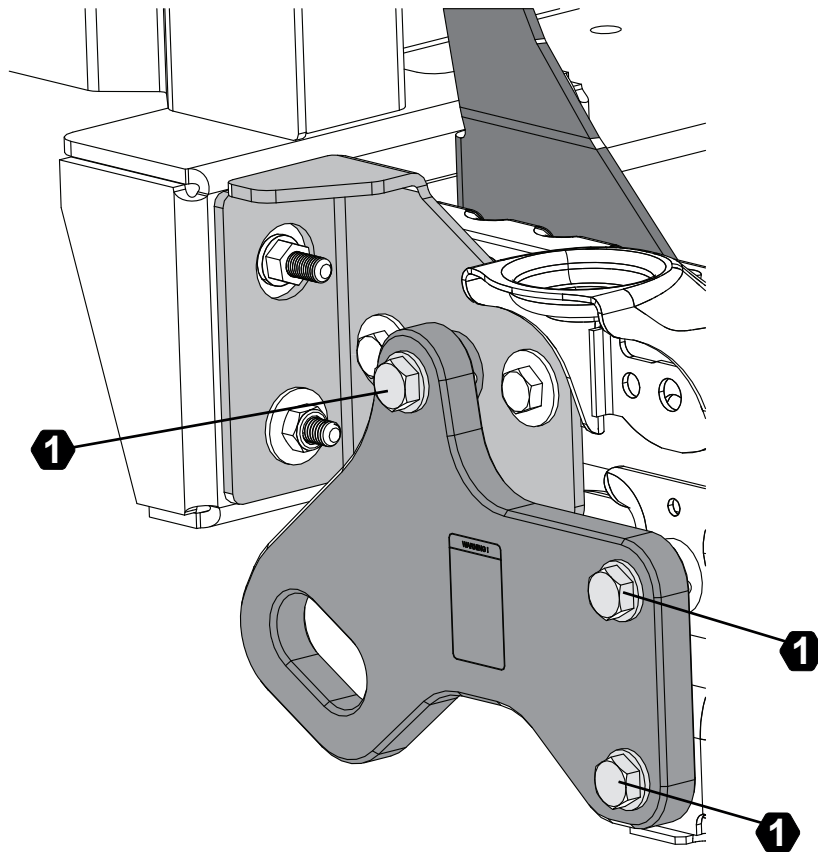
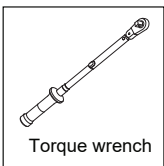


29

Ensure that the Mount Bracket Inner LHS (10) and Mount Bracket Outer LHS (12) are pushed forward so that there is no gap to the chassis frame end plate.
Tighten the M10 Bolts to 44 Nm.
Repeat on RHS.



1 77 Nm

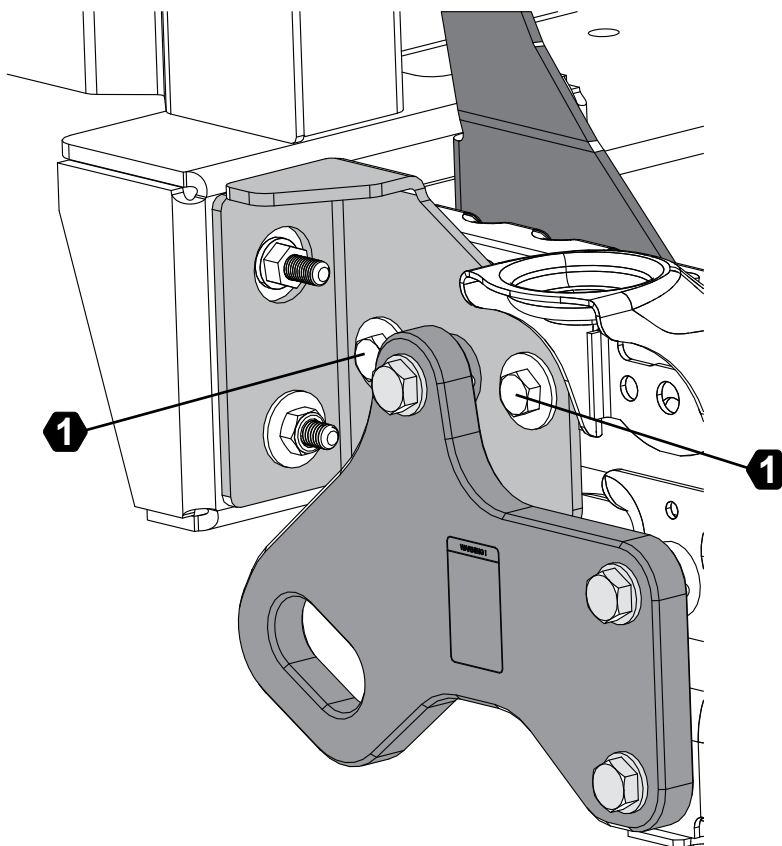
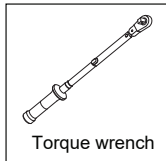


30

Tighten the M12 Bolts securing the Recovery Hook LHS (8) to 77 Nm.
Repeat on RHS.



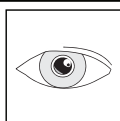
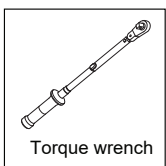
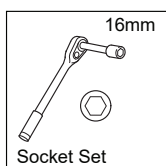
1 17 Nm



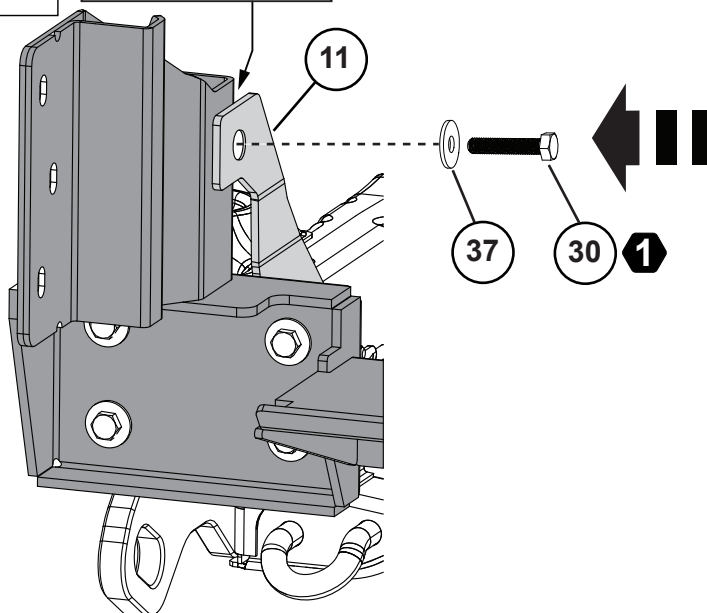
- 31** Tighten the M10 Bolts securing the Mount Bracket Inner LHS (10) and Mount Bracket Outer LHS (12) to 17Nm.
Repeat on RHS.



1 44 Nm

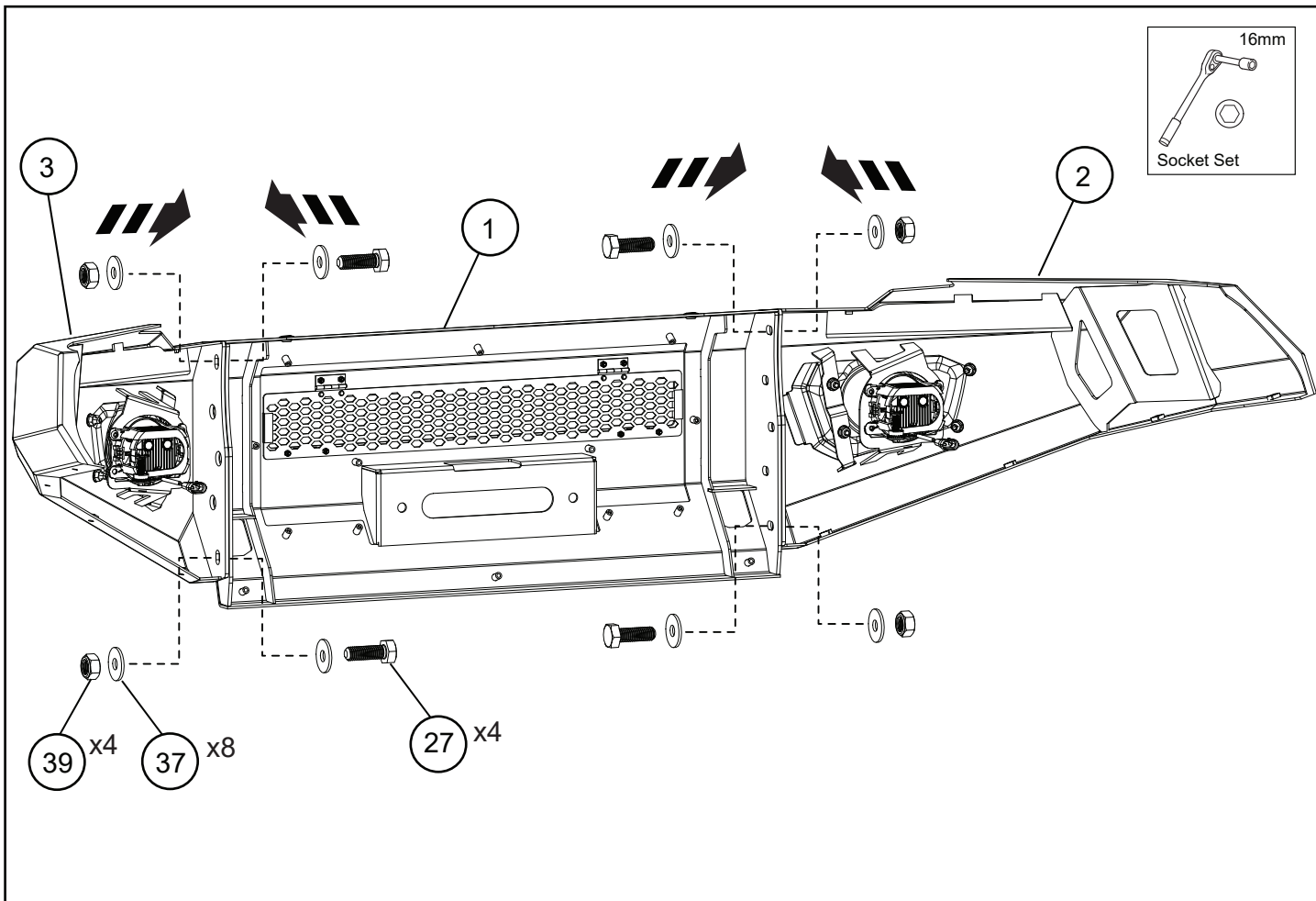


22 +

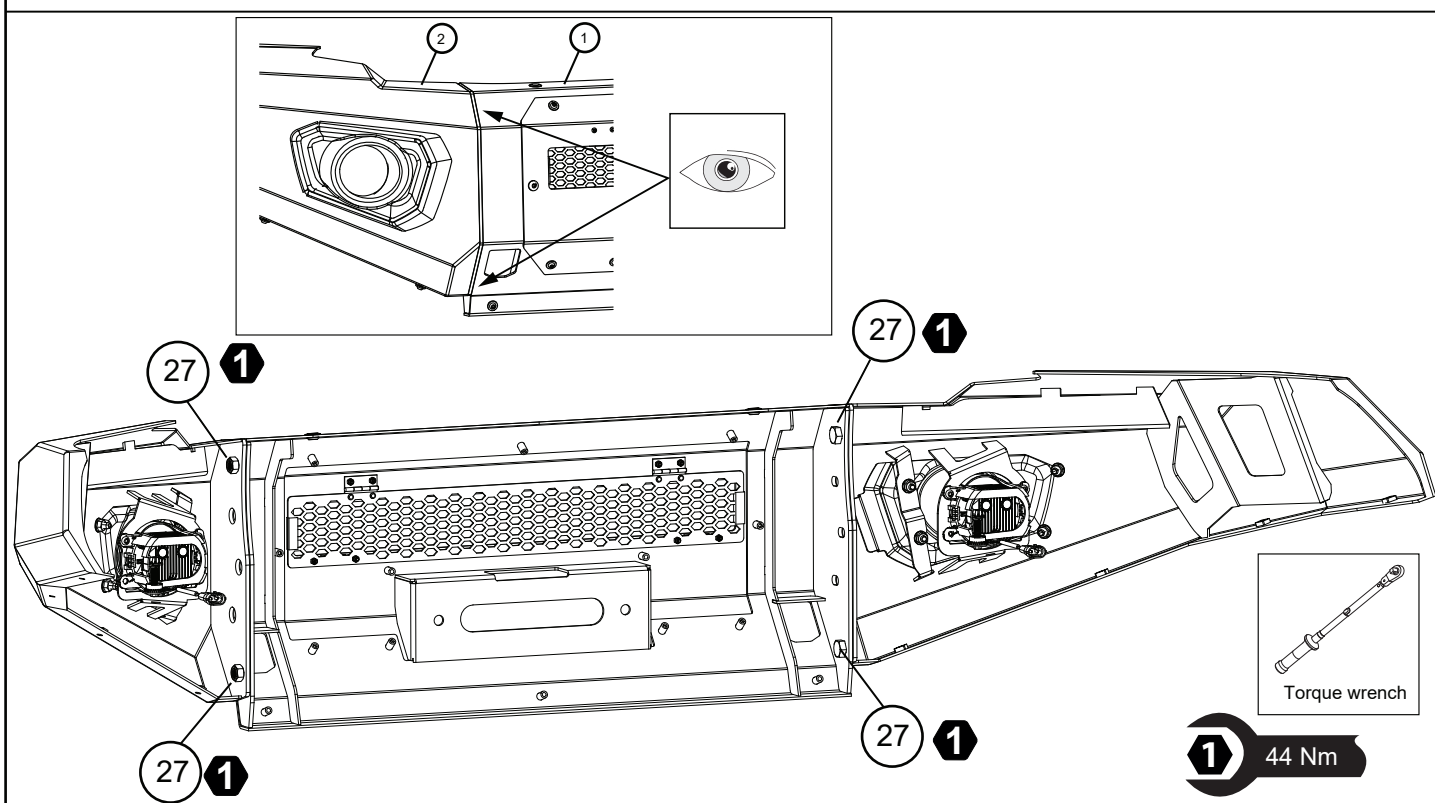


- 32** Take note of the gap between the Mount Bracket Inner (10/11) and the Winch Cradle (4) on each side by trialling the number of Washer Plates (22) that will fit without pushing the bracket away from the Winch Cradle.
Attached the Mount Bracket Inner (10/11) to the Winch Cradle (4) using an M10 x 50 Hex Head Bolt (30), an M10 Washer (37) and the number of Washer Plates noted earlier.
Tighten the M10 Bolts to 44 Nm.
Repeat on RHS.

If installing WARN VR EVO 10-S winch (sold separately) refer to Appendix A, then continue to step 22.

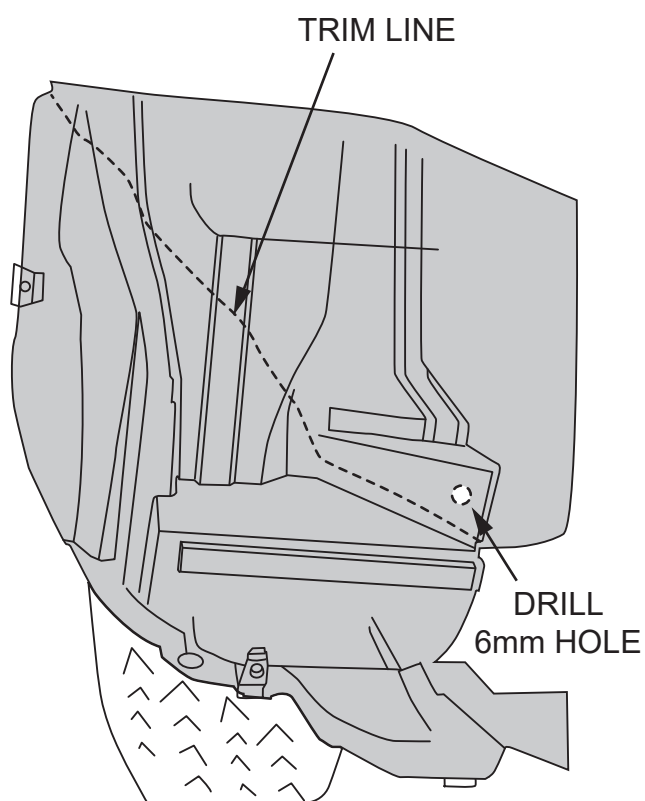


- 33** Loosely secure the LHS & RHS Return Assemblies (2)(3) to the Centre Grille Assembly (1) with four M10 x 30 Hex Head Bolts (27), eight M10 Washers (37) and four M10 M-Lock nuts (39). Do not tighten.

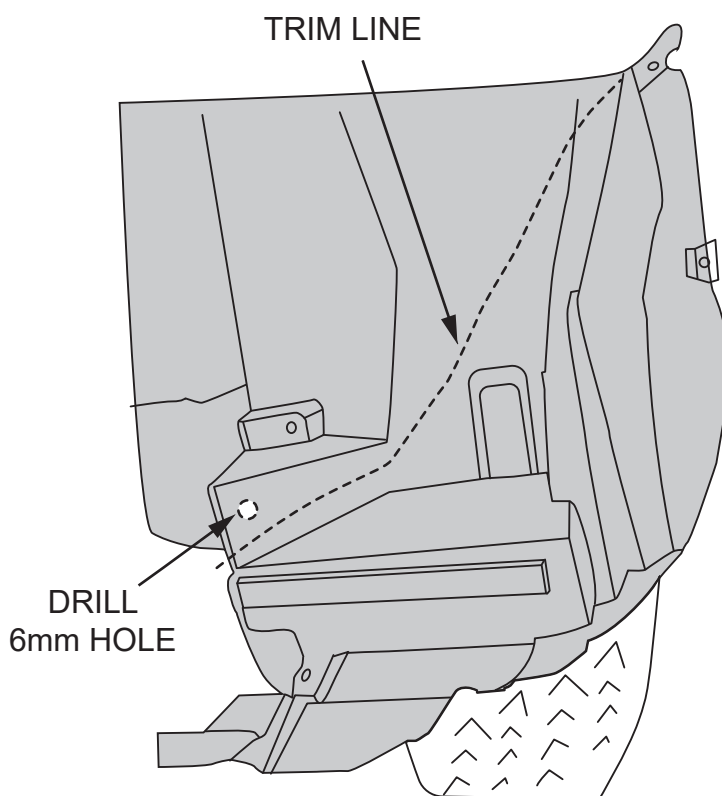


- 34** Visually inspect the front facing surfaces of the Centre Grille Assembly (1) and the Return Assemblies (2),(3) to ensure they are sitting as flush as possible. Torque the M10 x 30 Hex Head Bolts (27) to 44 Nm.

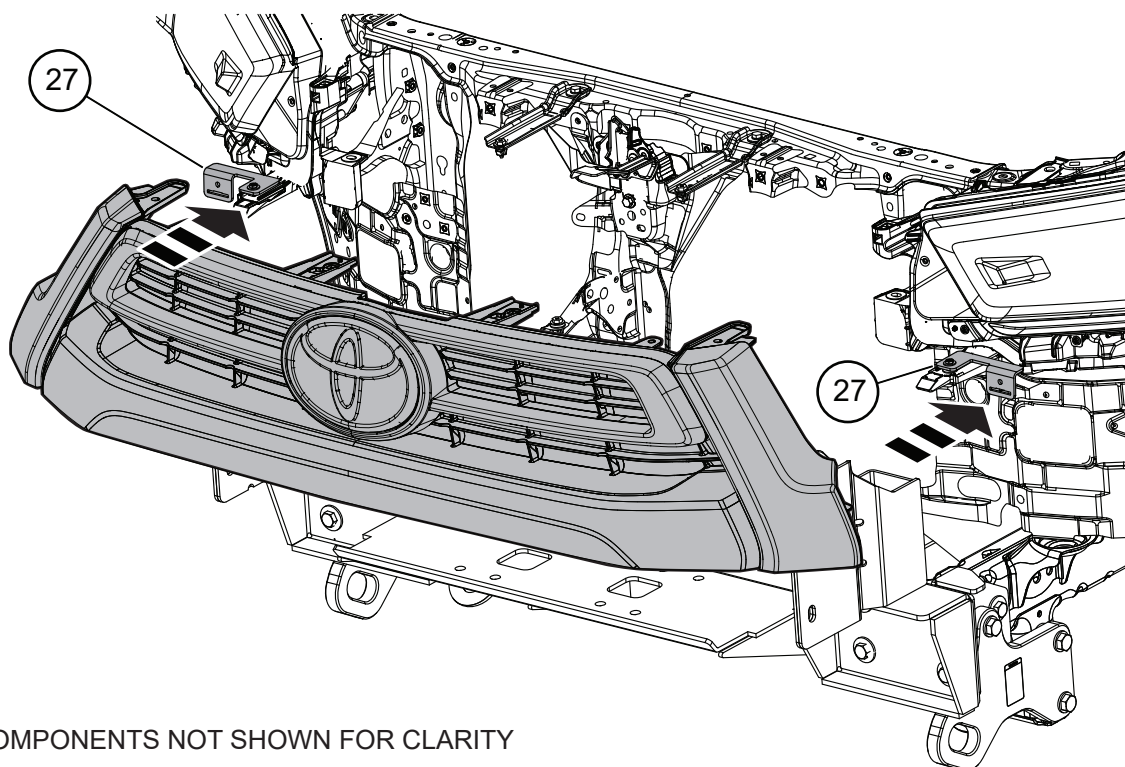
RHS LINER



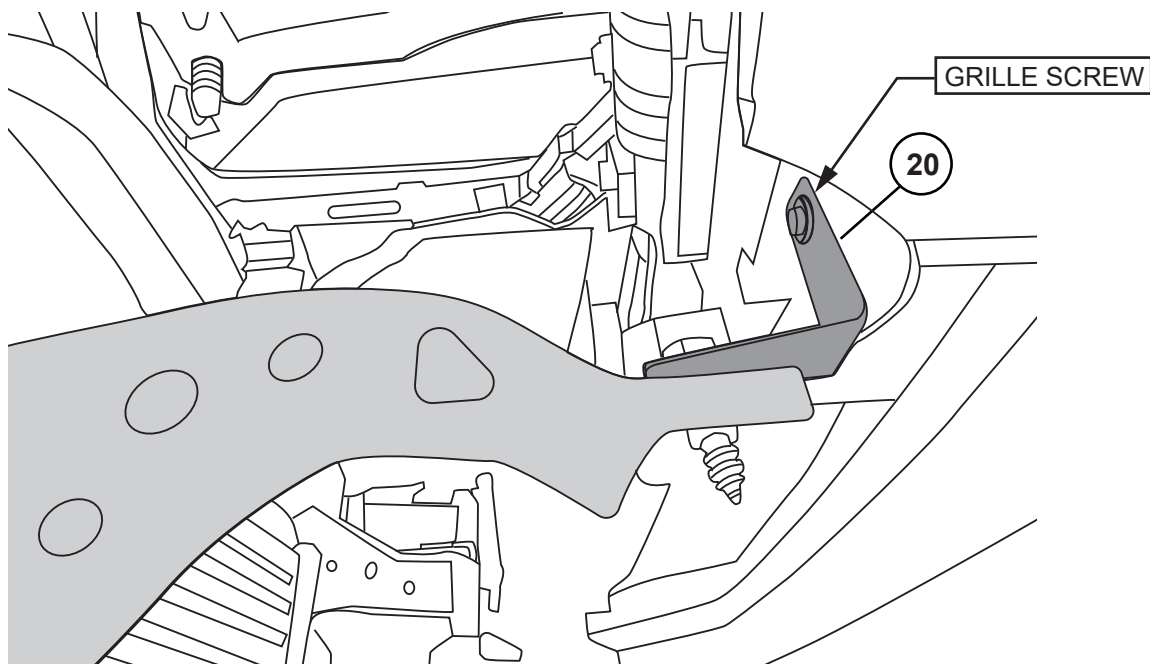
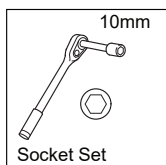
LHS LINER



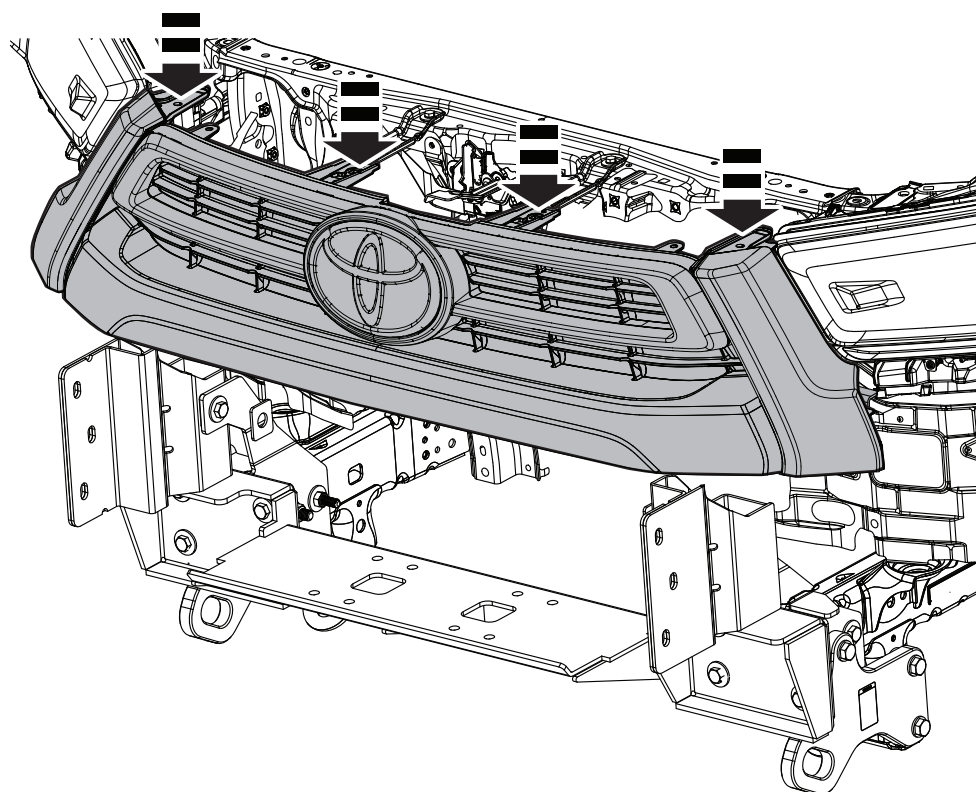
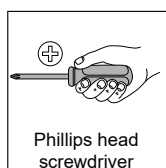
- 35** Looking from the Front of the vehicle towards the rear pull the Wheel Arch Liner down to gain access.
Mark the Wheel Arch Liner LHS / RHS as shown and trim the Liner
Drill a 6mm Hole in approximately the position shown.



- 36** Re-install the grille, ensuring that the outer bottom clips on the grille engage the opening on the Headlamp Bracket B LHS / RHS (18 / 19).

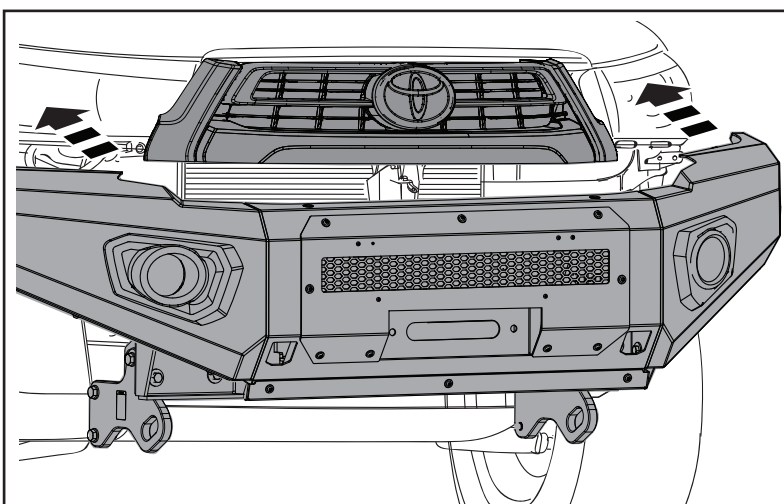


- 37** In the centre of the vehicle attach the Grille Bracket (20) installed earlier to the grille using the grille screw removed in Step 10.

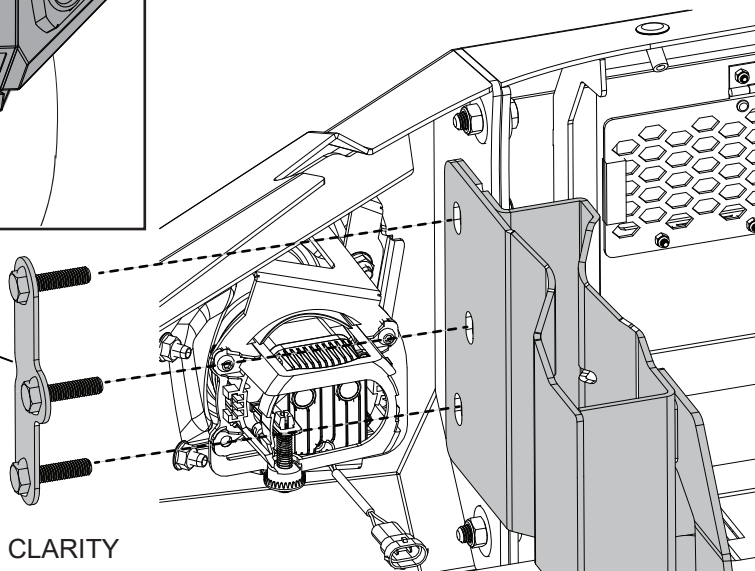


SOME VEHICLE COMPONENTS NOT SHOWN FOR CLARITY

- 38** Install the four screws fixing the grille to the vehicle.



15



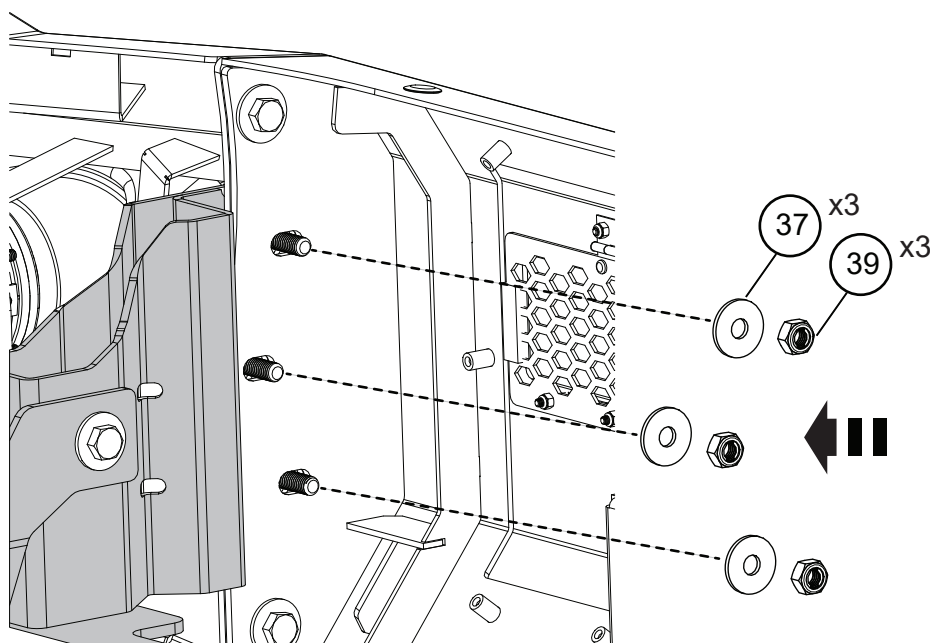
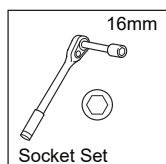
SOME VEHICLE COMPONENTS NOT SHOWN FOR CLARITY

- 39** Lift and position the Bull Bar Assembly onto the Winch Cradle (4). Once in position, insert the two Bolt Plates (15) from the underside of the vehicle. The Bolt Plates (15) must be installed from the outboard side on the LHS and RHS Winch Cross Member uprights.

CAUTION:

Heavy Load – Two person lift or mechanical lifting aid required.

Unsecured Load – Keep clear of unsecured object. Spotter or mechanical lifting aid required.



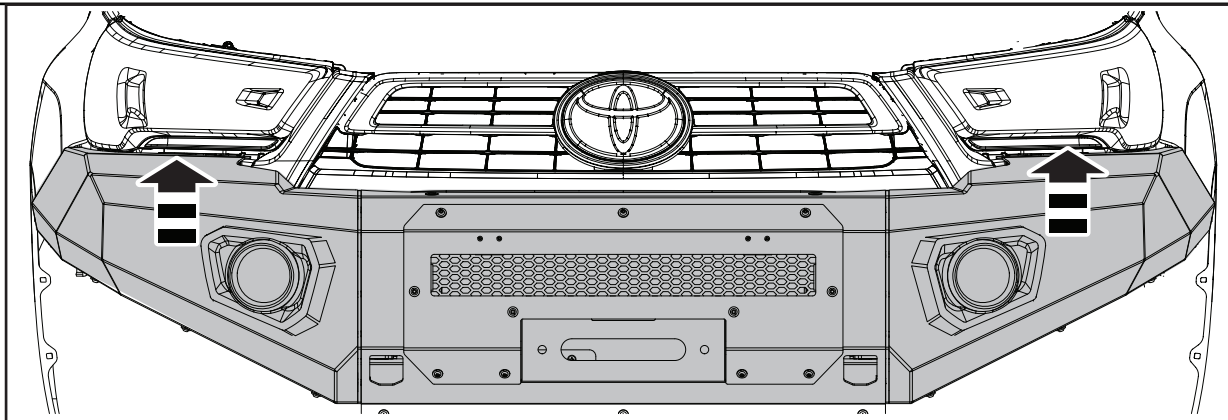
SOME VEHICLE COMPONENTS NOT SHOWN FOR CLARITY

- 40** From the underside of the vehicle, Loosely secure three M10 Washers (37) and three M10 M-Lock nuts (39) to each Bolt Plate (15).

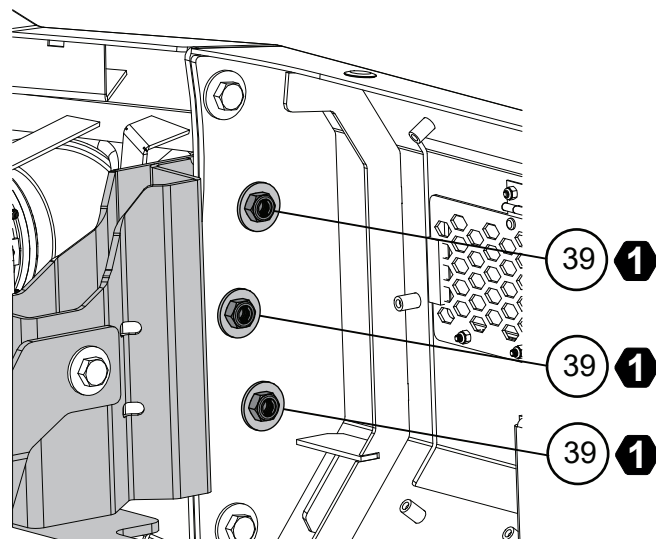
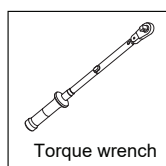
CAUTION:

Heavy Load – Two person lift or mechanical lifting aid required.

Unsecured Load – Keep clear of unsecured object. Spotter or mechanical lifting aid required.

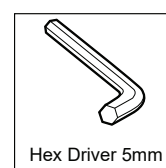
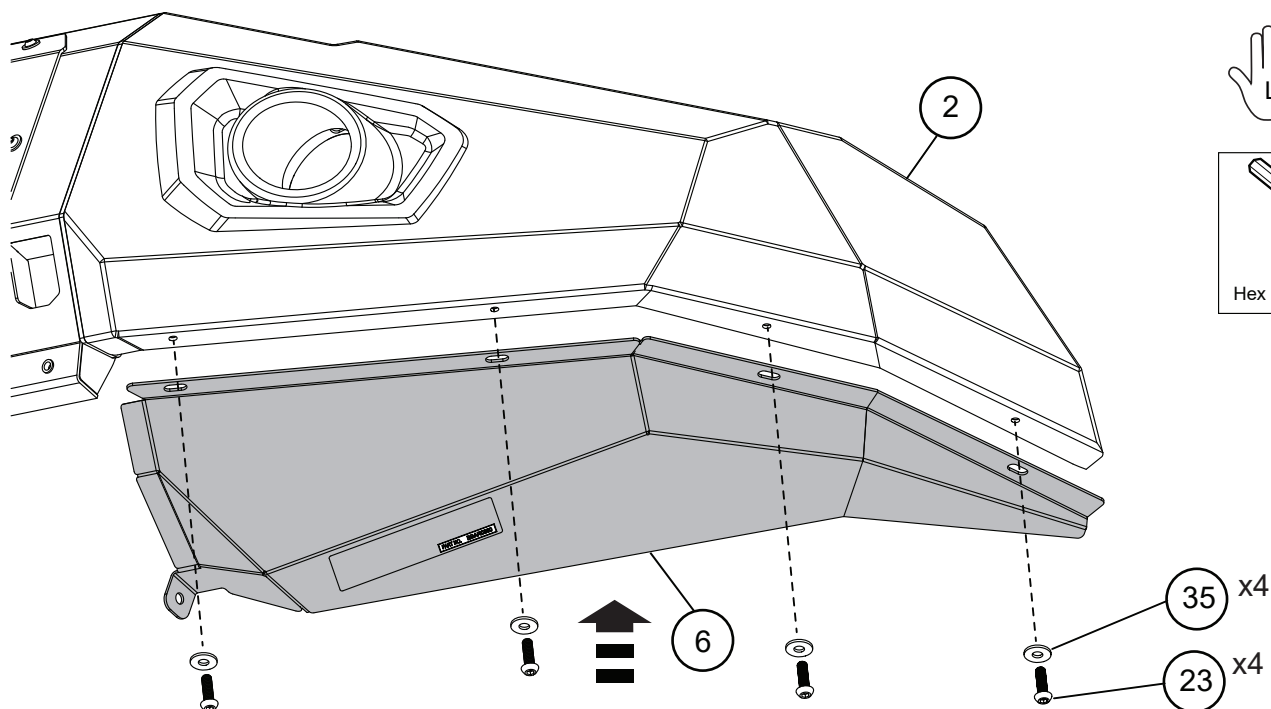


1 44 Nm

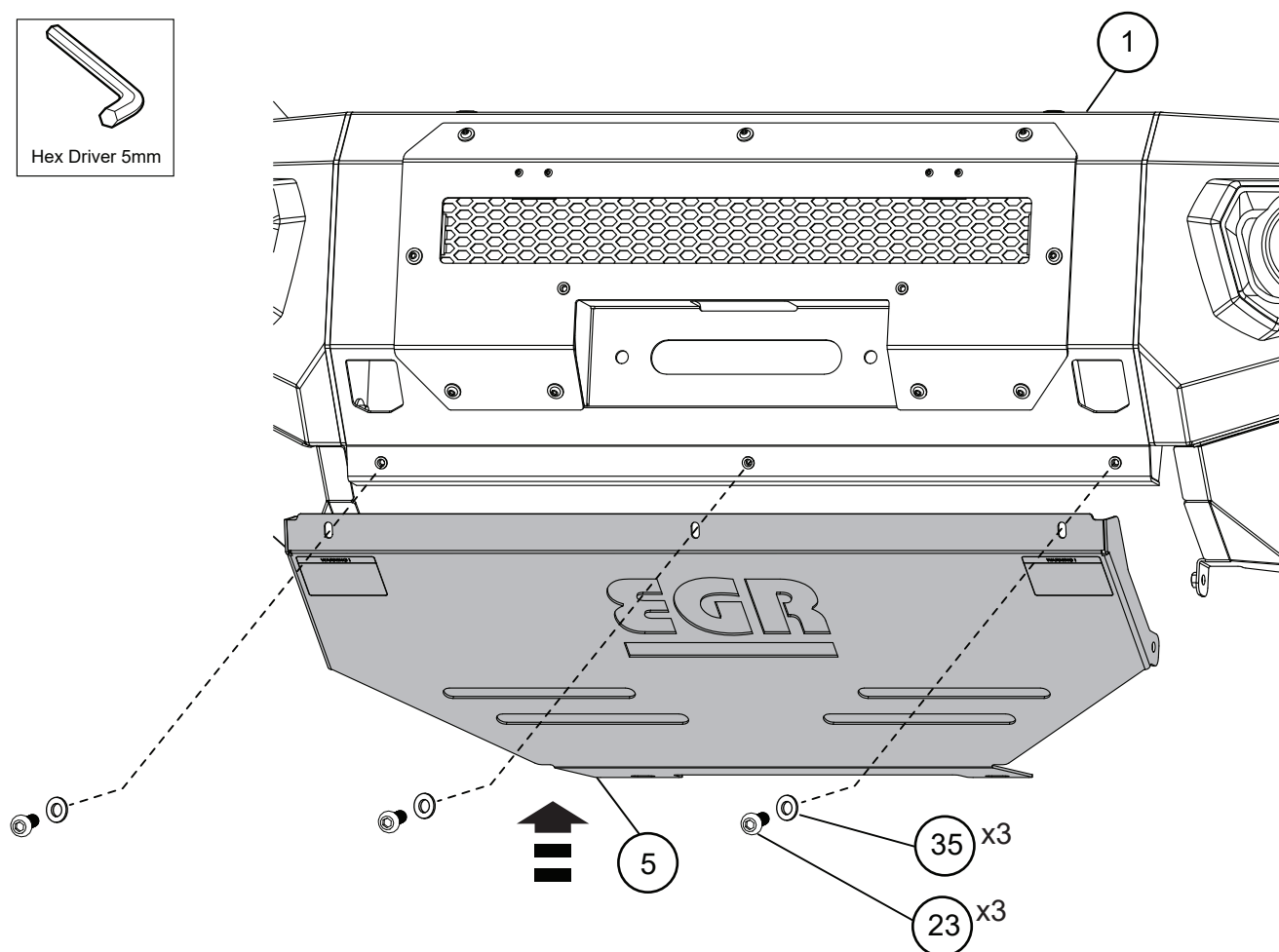
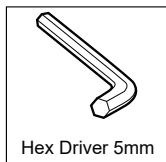


SOME VEHICLE COMPONENTS NOT SHOWN FOR CLARITY

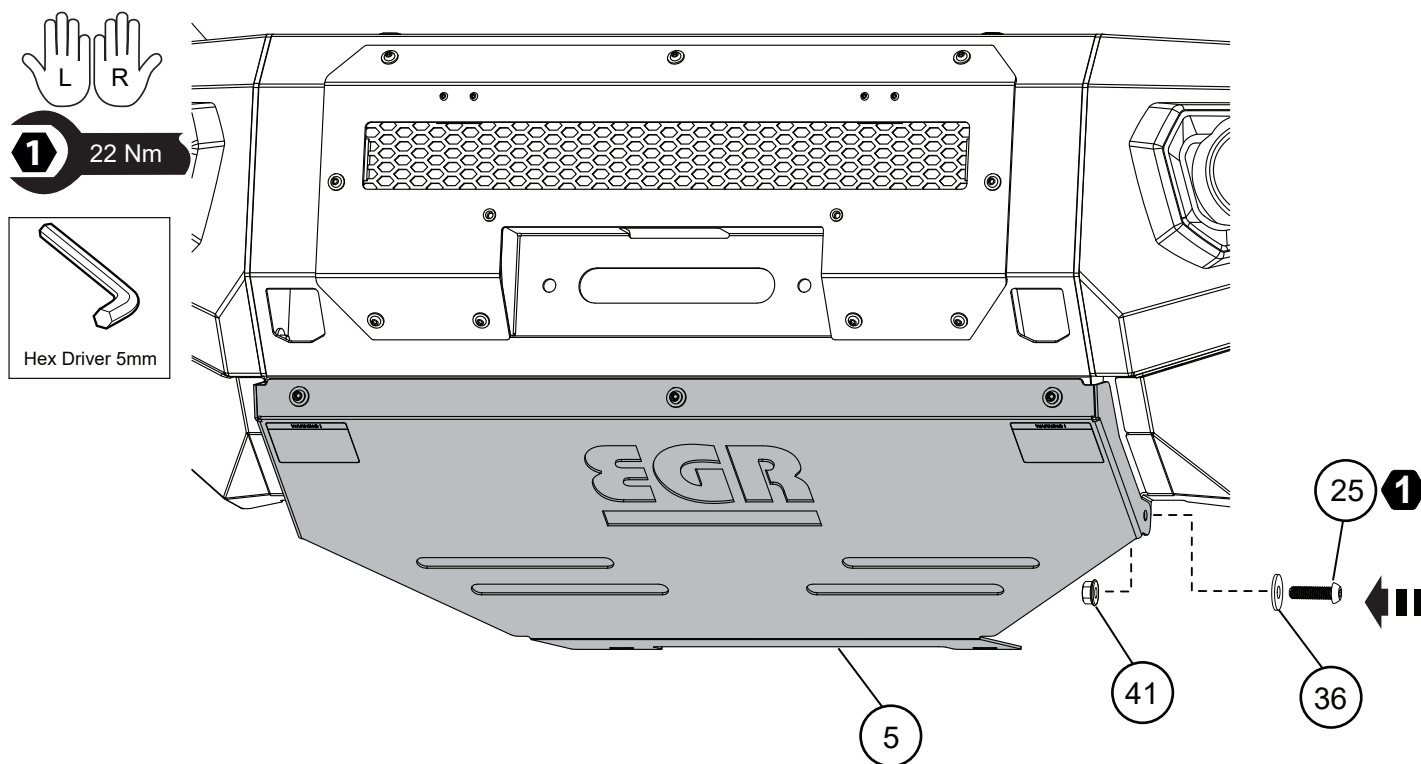
- 41** Adjust the vertical positioning of the assembly to ensure there is an even gap beneath each headlight. A second person is required to torque the M10 M-Lock Nuts (39) installed in the previous step once an even fitment is achieved. Access to the M10 M-Lock Nuts (39) is possible from the underside or top side. Once correctly positioned torque to 44 Nm.



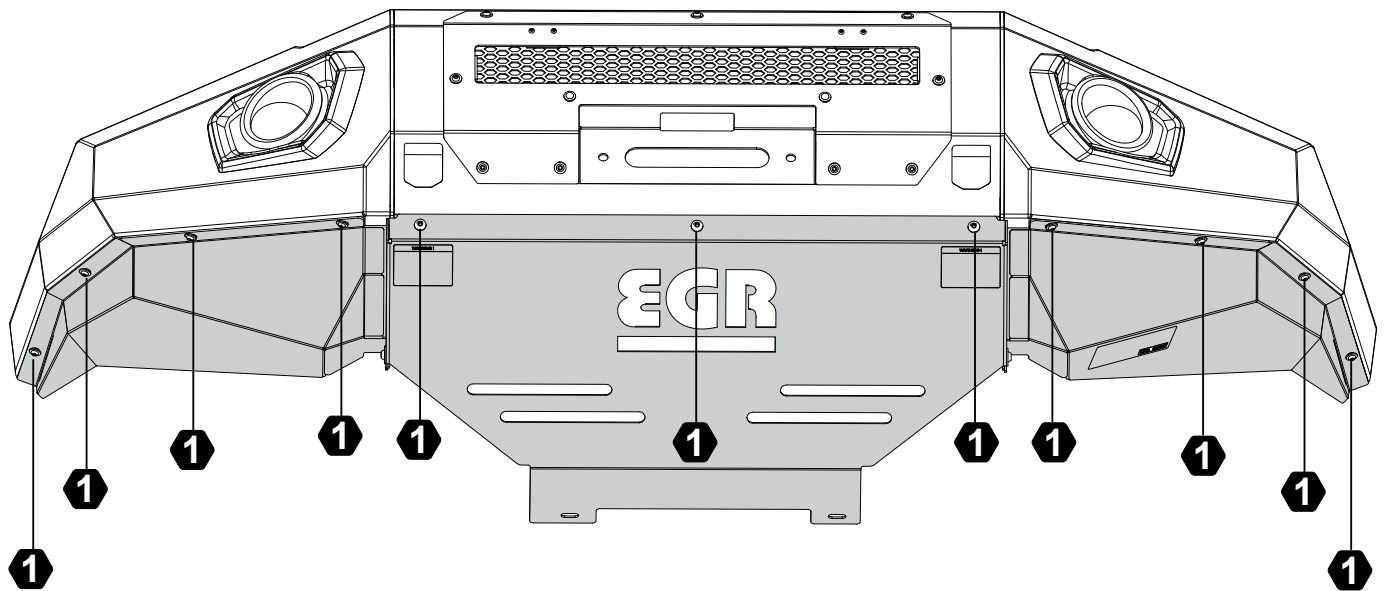
- 42** Install the Undercover LHS (6) to the Return Assembly LHS (2) using four M6 x 20 Button Head Screws (23) and four M6 Washers (35). Do not tighten. Repeat on RHS.



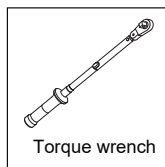
- 43** Install the Bash Plate (5) to the Centre Grille Assembly LHS (1) using three M6 x 20 Button Head Screws (23) and three M6 Washers (35). Do not tighten.



- 44** Attached the Bash Plate (5) to the Undercover LHS (6) using an M8 x 30 Button Head Screw (25), and M8 Washer (36), and an M8 Flange nut (41). Do not tighten. Repeat on RHS. Once both LHS and RHS are installed tighten both sides to 22 Nm.



1 9 Nm



45 Tighten the M6 Screws to 9 Nm.

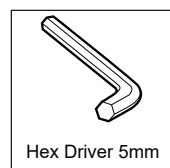


FIGURE A

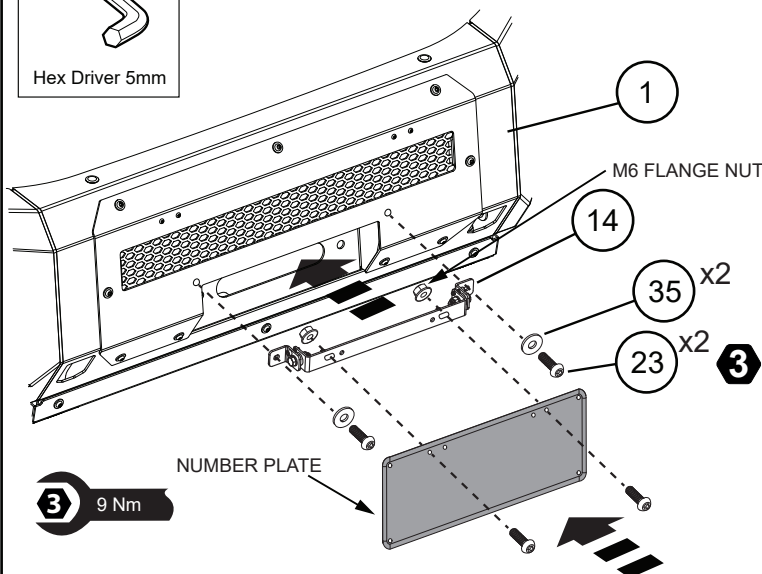
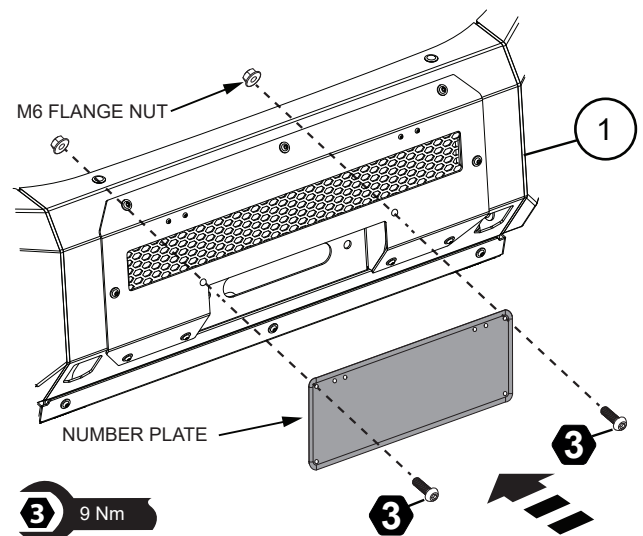


FIGURE B



46 The Number Plate Mount Assembly rotates to allows access to the Fairlead and Winch Rope. If a winch is not installed the Number Plate can be installed directly onto the Centre Grille Assembly as shown in **Figure B**.

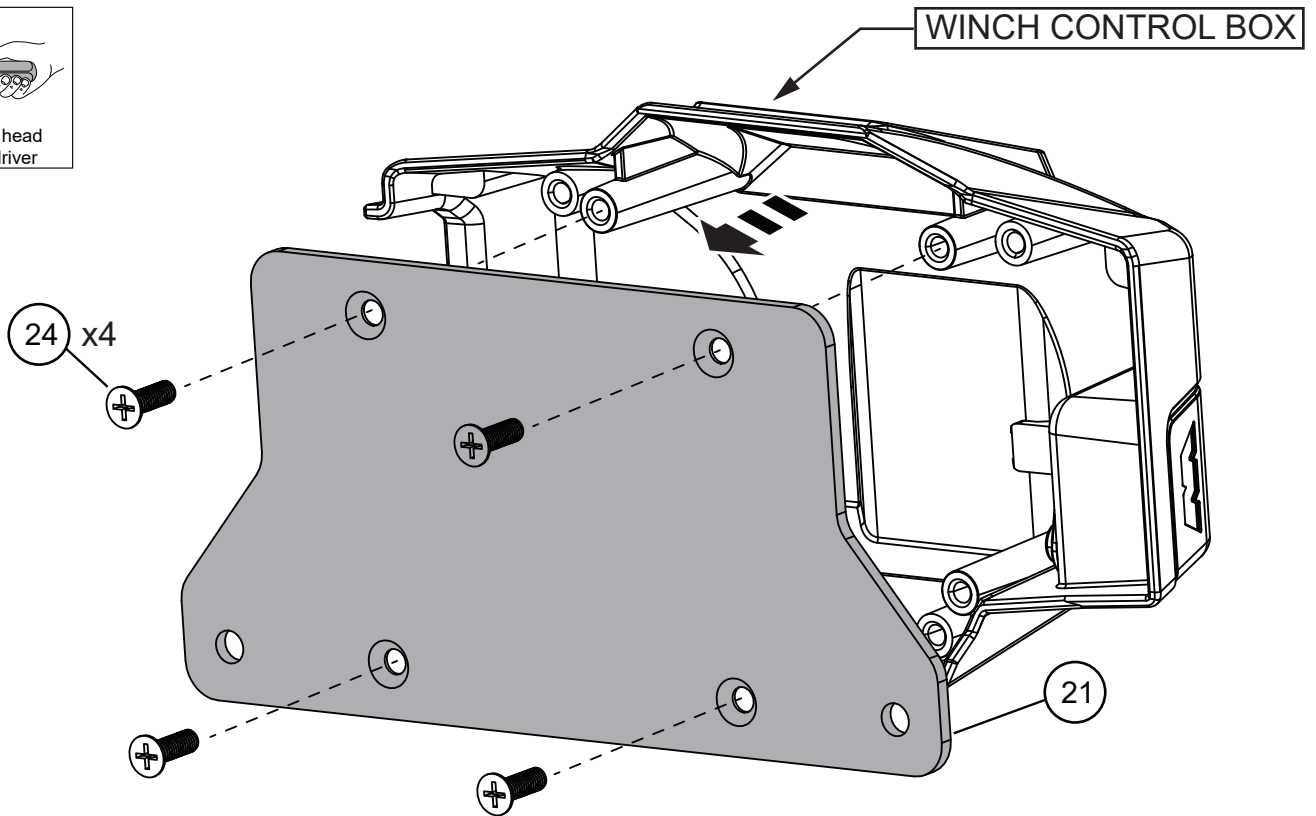
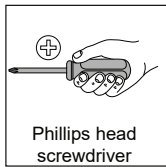
Attach the Number Plate Mount Assembly (14) to the Centre Grille Assembly (1) using 2x M6 x 20mm Screws (23) and 2x M6 Washers (35). Torque to 9 Nm.

Use the 2 x M6 Screws and Nuts pre-installed in the front of the Number Plate Mount Assembly to install the Number Plate onto Bull Bar as shown in **Figure A**.

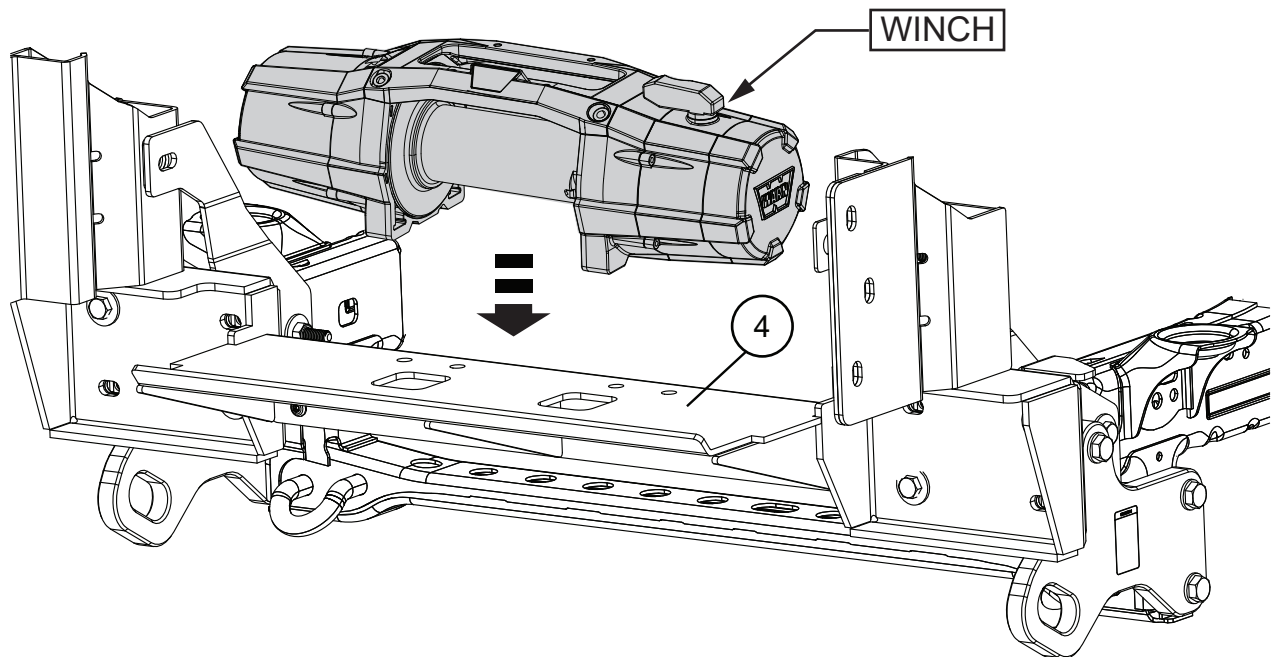
OR

Use the 2x M6 Screws and Nuts pre-installed in the front of the Number Plate Mount Assembly (14) to install the Number Plate onto the Centre Grille Assembly (1) as shown in **Figure B**.

APPENDIX A - INSTALLATION OF WARN VR EVO 10-S WINCH

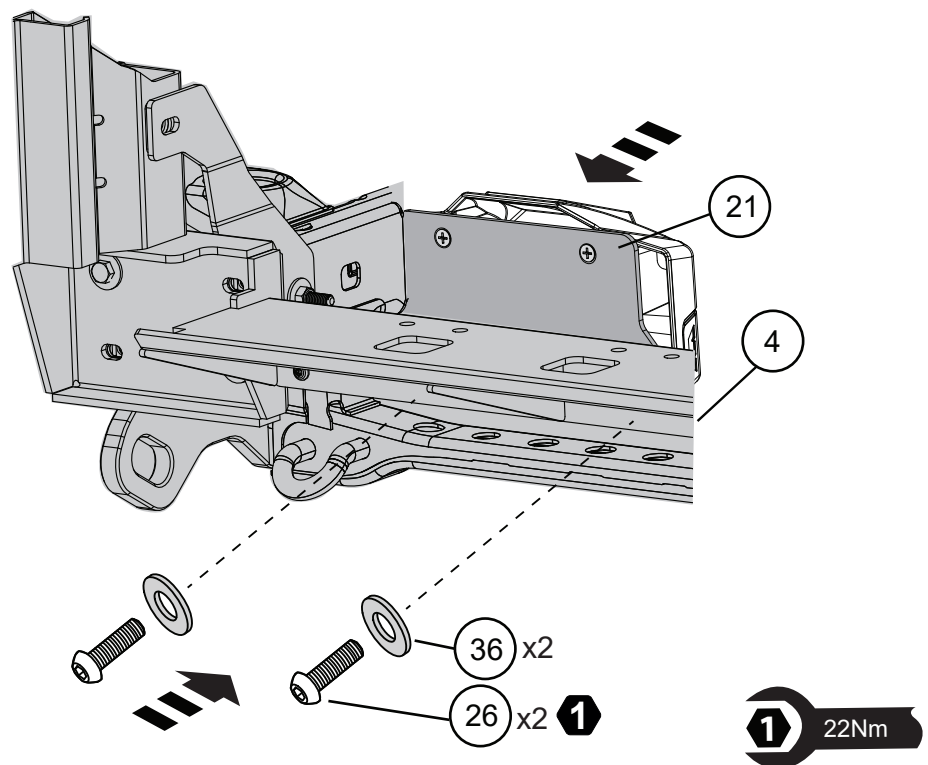


- A1** Attach the winch control box to the Winch Control Box Bracket (21) using four M6 x 20 Counter sink Phillips Screws (24).

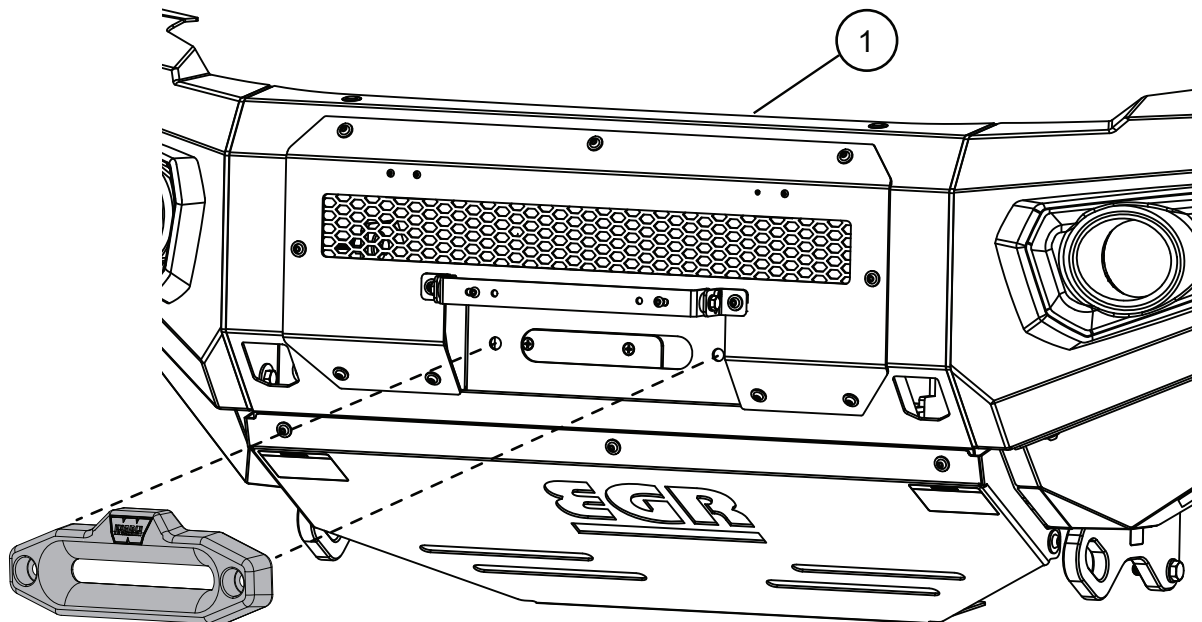


- A2** Place the winch onto the Winch Cradle (4) and align the holes in the winch with the holes in the Winch Cradle (4).
Use the fasteners supplied with the winch to secure the winch to the Winch Cradle (4).
Tighten the fasteners supplied with the winch to the torque specified in the installation manual for the winch.

APPENDIX A - INSTALLATION OF WARN VR EVO 10-S WINCH



- A3** Attach the Winch Control Box Bracket (21) to the Winch Cradle (4) using two M8 Washers (36) and two M8 x 35 Button Head Torx Screws (26) using a T40 bit. Tighten to 22 Nm.



WINCH HAWSE
FAIRLEAD

- A4** Install the winch hawse fairlead supplied with the winch into the Centre Grille Assembly (1) using the fasteners supplied with the winch. Tighten the fasteners supplied with the winch to the torque specified in the installation manual for the winch.