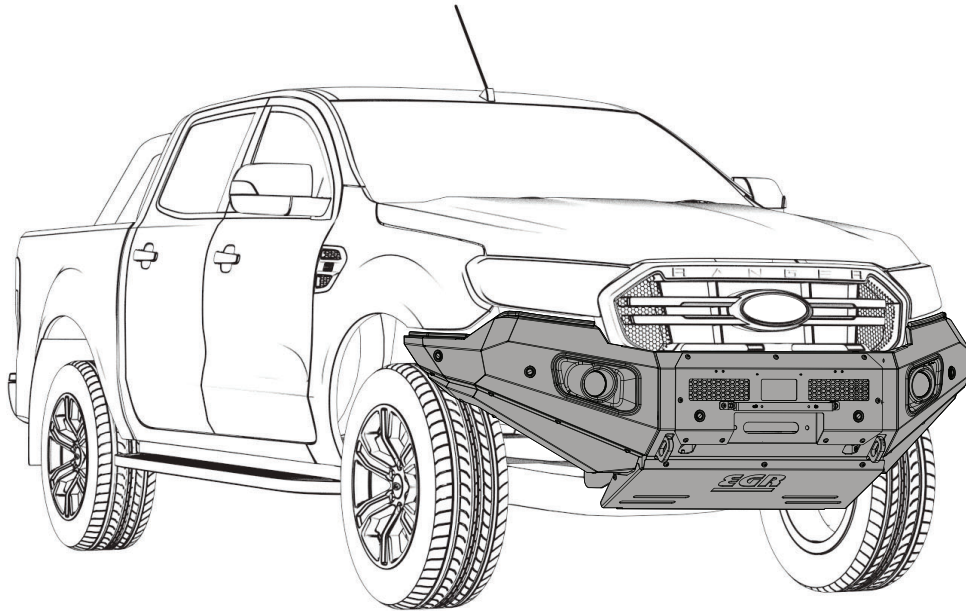




FITTING INSTRUCTION

Ford Ranger PX3 2019-2022 EGR CrossTrac Bullbar

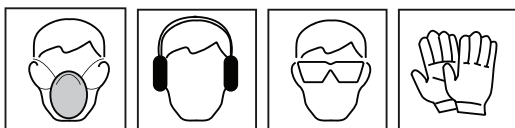


Caution

- 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.



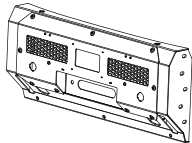
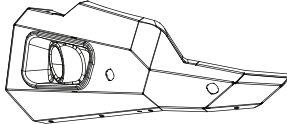
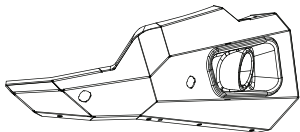
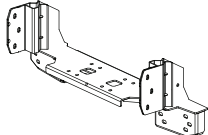

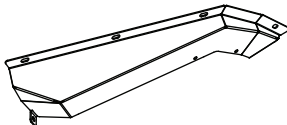
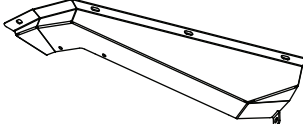
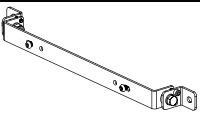
General Notes

- 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.

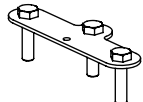
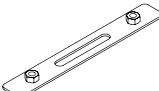
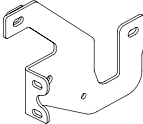

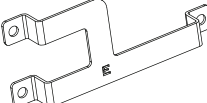
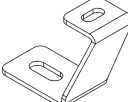
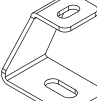
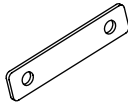
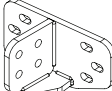



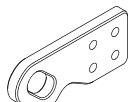
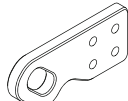
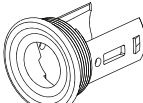
Care Instructions

- Do not use this product in any other motor vehicle for which it is not designed.
- 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.


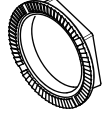
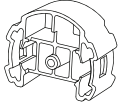
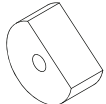
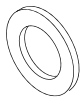

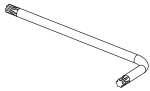
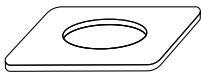
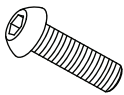
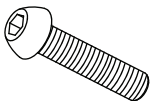
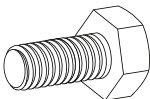
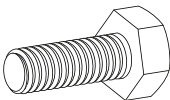
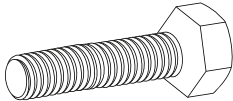
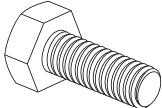


– Parts Supplied (Assemblies)

| ITEM | DESCRIPTION | QTY | IMAGE |
|------|-----------------------------|-----|---|
| 1 | Centre Grill 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 | Number Plate Mount Assembly | 1 |  |


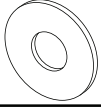


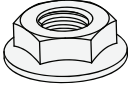


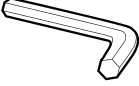
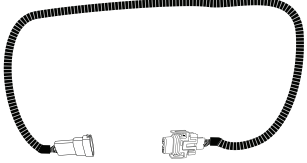
– Parts Supplied (Hardware Kit) –

| ITEM | DESCRIPTION | QTY | IMAGE |
|------|-----------------------------|-----|---|
| 9 | Bolt Plate | 2 |  |
| 10 | Nut Plate | 2 |  |
| 11 | Mount Bracket LHS | 1 |  |
| 12 | Mount Bracket RHS | 1 |  |
| 13 | Radar Bracket | 1 |  |
| 14 | Trim Bracket LHS | 1 |  |
| 15 | Trim Bracket RHS | 1 |  |
| 16 | Under Cover Strap | 2 |  |
| 17 | Recovery Hook Mount LHS | 1 |  |
| 18 | Recovery Hook Mount RHS | 1 |  |
| 19 | Inner Support Bracket | 2 |  |
| 20 | Pinch Weld Bulb Seal - 1.5m | 1 |  |
| 21 | Recovery Hook - Red | 2 |  |
| 22 | Recovery Hook - Black | 2 |  |
| 23 | Parking Sensor Bezel | 6 |  |

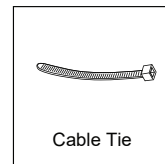
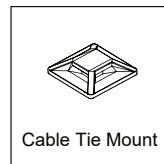
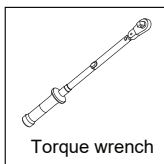
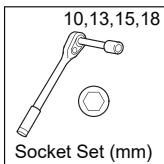
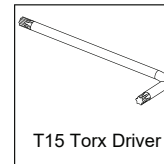
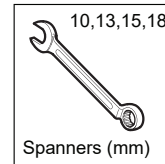
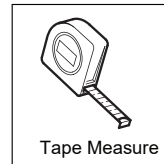
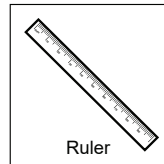
– Parts Supplied (Hardware Kit) –

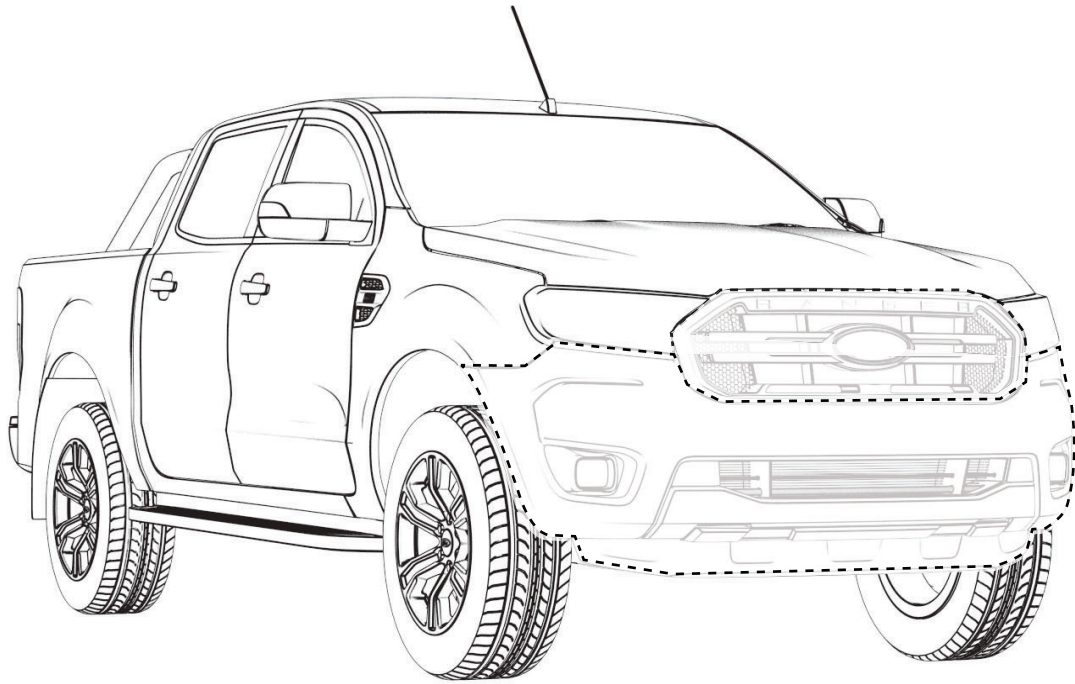
| ITEM | DESCRIPTION | QTY | IMAGE |
|------|---------------------------------|-----|---|
| 24 | Parking Sensor Blank | 6 |  |
| 25 | Parking Sensor Bezel Nut | 6 |  |
| 26 | Parking Sensor Cap | 6 |  |
| 27 | Parking Sensor Real Foam | 6 |  |
| 28 | Foam Spacer | 12 |  |
| 29 | M4 x 10mm Torx Screw - T15 | 12 |  |
| 30 | T15 Torx Driver | 1 |  |
| 31 | 3mm Spacer | 6 |  |
| 32 | M6 x 20mm Allen Screw - Size 4 | 22 |  |
| 33 | M8 x 30mm Allen Screw - Size 5 | 6 |  |
| 34 | M10 x 30mm Hex Head Bolt - AF16 | 4 |  |
| 35 | M10 x 40mm Hex Head Bolt - AF16 | 6 |  |
| 36 | M10 x 50mm Hex Head Bolt - AF16 | 14 |  |
| 37 | M12 x 50mm Hex Head Bolt - AF18 | 8 |  |
| 38 | Washer M6 | 22 |  |
| 39 | Washer M8 | 6 |  |

– Parts Supplied (Hardware Kit)

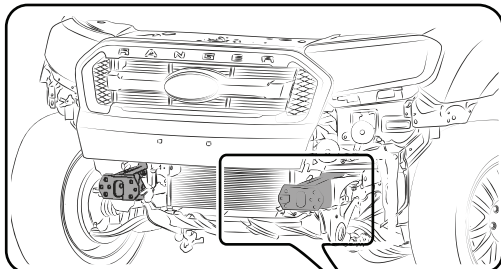
| ITEM | DESCRIPTION | QTY | IMAGE |
|------|--------------------------|-----|---|
| 40 | Washer M10 | 44 |  |
| 41 | Washer M12 | 16 |  |
| 42 | Flange Nut M6 - AF10 | 6 |  |
| 43 | Flange Nut M8 - AF13 | 6 |  |
| 44 | M10 Flange Locknut -AF16 | 20 |  |
| 45 | M12 Lock Nut - AF18 | 8 |  |
| 46 | 4mm Hex Drive | 1 |  |
| 47 | 5mm Hex Drive | 1 |  |
| 48 | Fog Lamp Harness | 2 |  |

– Tools and Materials Required 

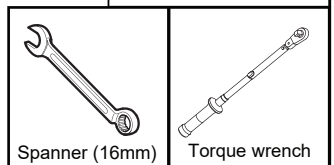




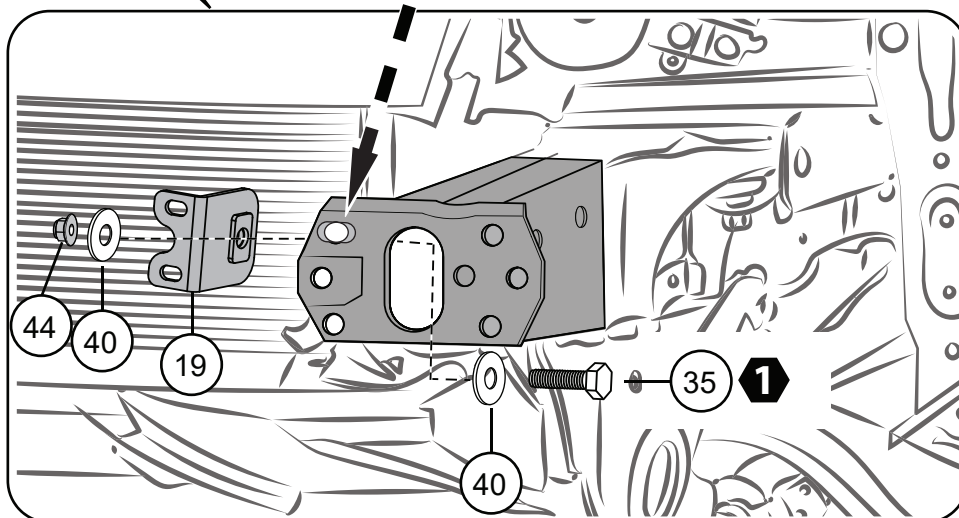
- 1** Remove the front bumper including the fog lights/DTRL's and retain. Remove the Sump Guard and retain. Remove the Grill and retain. Refer to vehicle specific workshop manual for front bumper bar and grille removal instructions. (Note: The Ford Ranger has several front bumper and grille combinations. Please follow the specific workshop manual for the model variant being worked on.)



LHS SHOWN

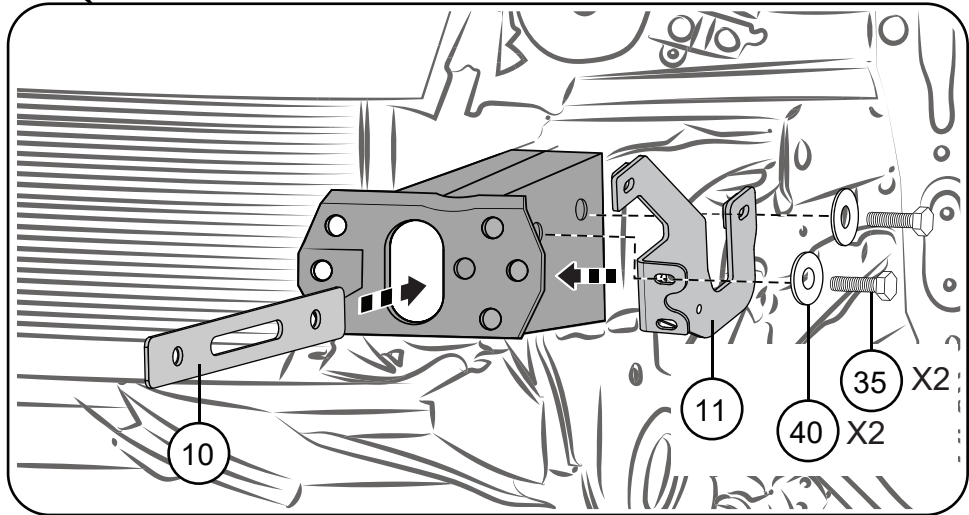
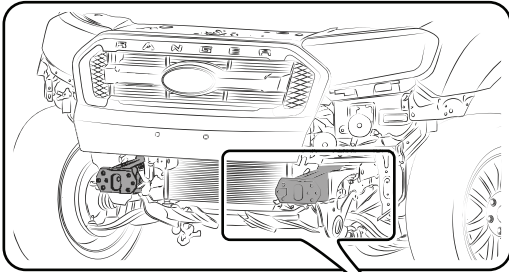


Ensure slots are aligned to holes

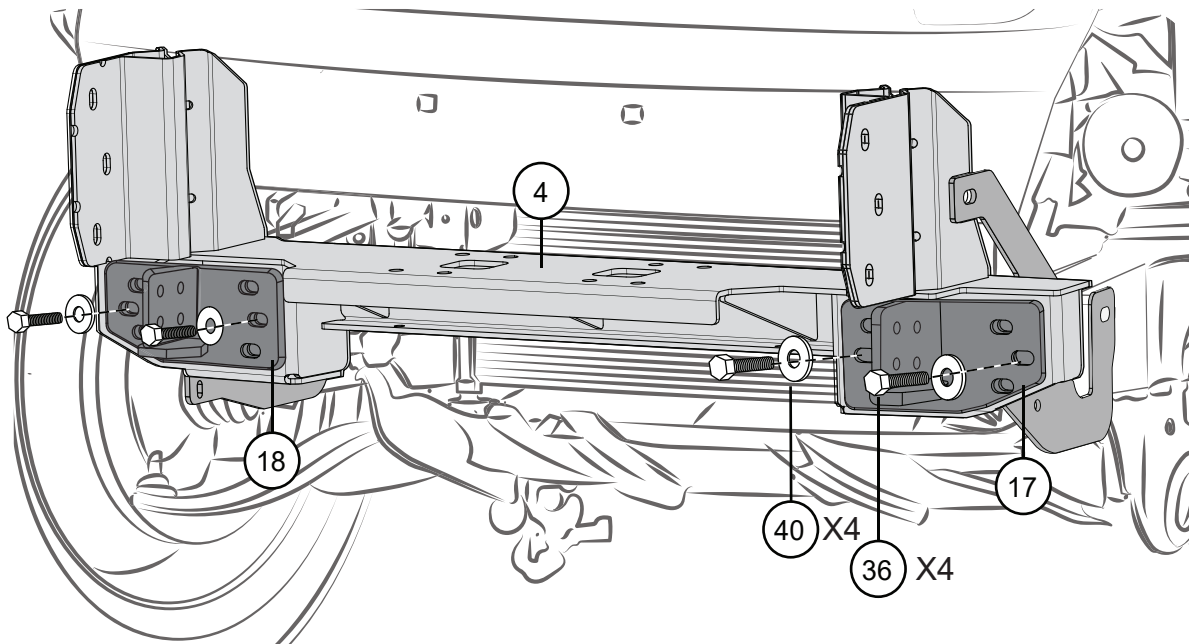


- 2** Secure the Inner Support Bracket (19) to the inboard side of the chassis frame using an M10 x 40 Hex Head Bolt (35), Two M10 Washers (40) and an M10 Flange lock nut (44). Torque to 42Nm. Repeat for RHS
 Note: Ensure the slots on the support bracket align with the holes located on the vehicle chassis.

LHS SHOWN



- 3** Insert the Nut Plate (10) into the chassis frame opening. Loosely secure the LHS Mount Bracket (11) to the outboard side of the chassis frame using the Nut Plate (10), two M10x40 Hex Head Bolts (35) and two M10 Washers (40). Repeat for RHS.



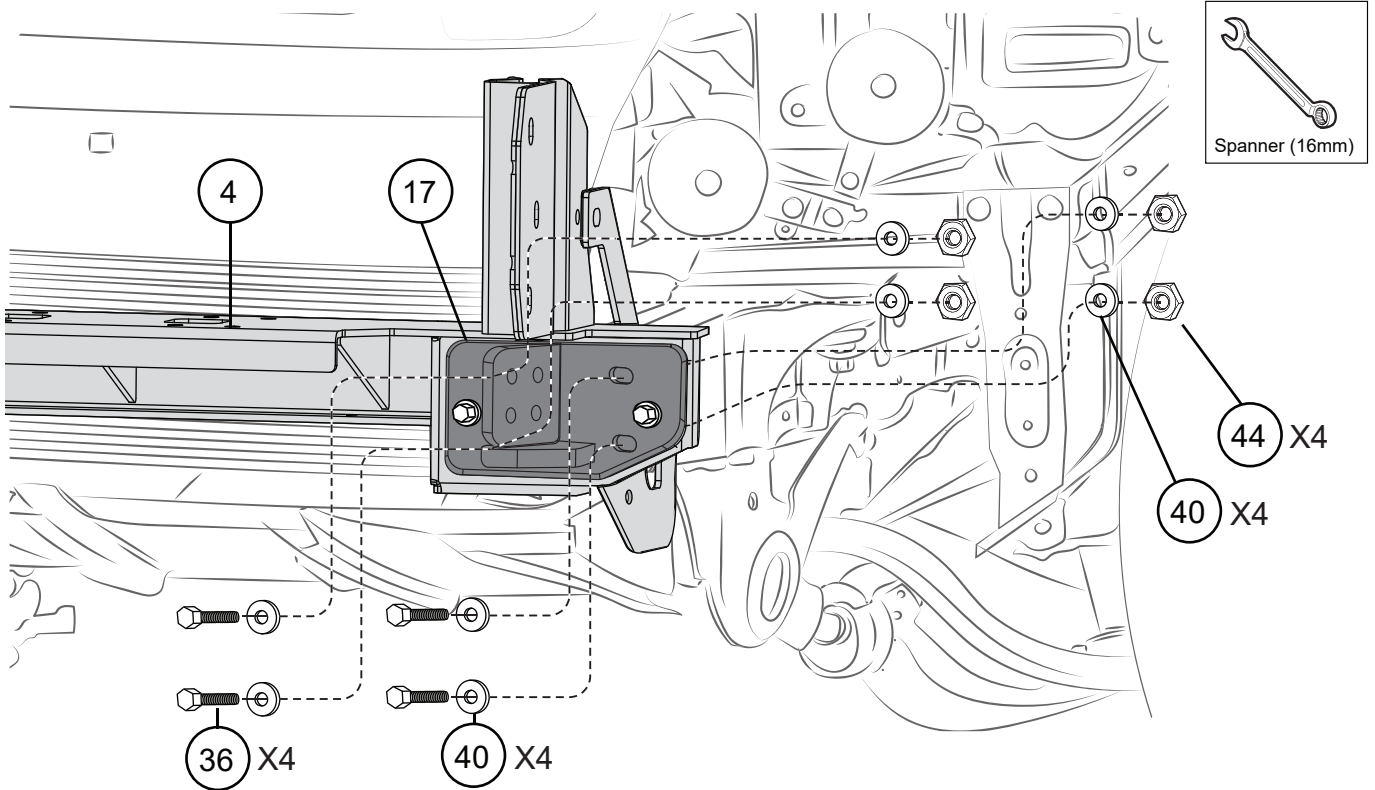
- 4** Loosely secure the Winch Cradle (4), LHS Recovery Hook Mount (17) and RHS Recovery Hook Mount (18) to the front of the vehicle chassis frame using four M10 x 50 Hex Head Bolts (36) and four M10 Washers (40).

CAUTION:

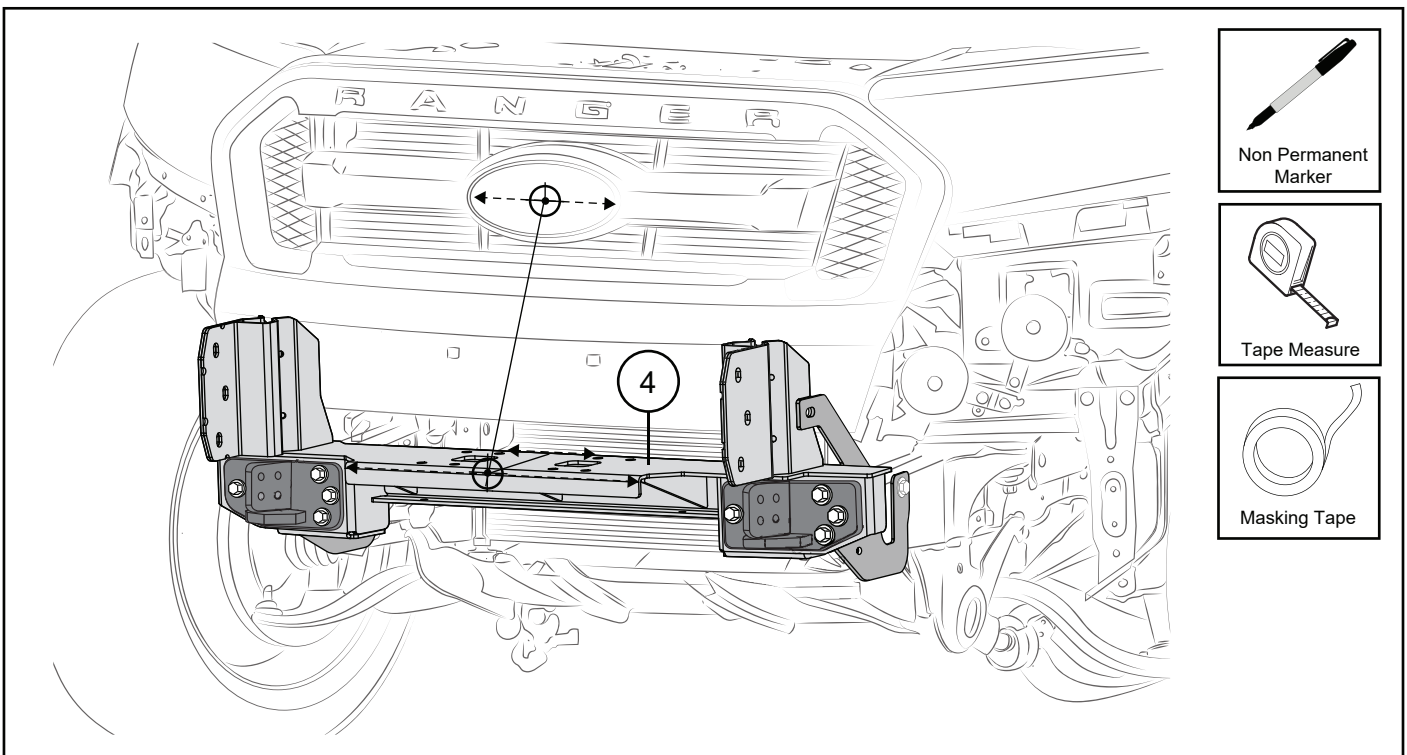
Heavy Load – Two person lift or mechanical lifting aid required.

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

LHS SHOWN



- 5** Loosely secure four M10 x 50 Hex Head Bolts (36) using eight M10 Washers (40) and four M10 Flange Lock Nuts (44). Repeat for RHS.

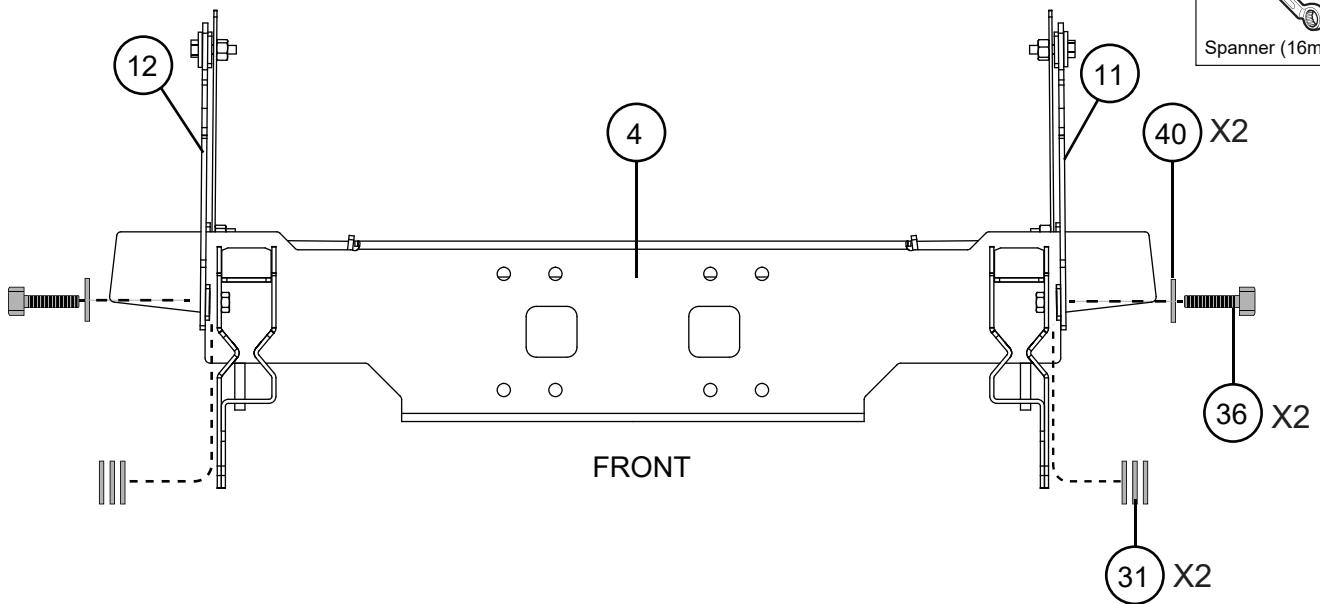


- 6** Using a Non-permanent Marker and Masking Tape, Tape Measure, find and mark the centre line of the Winch Cradle (4). Find and mark the vehicle body centre line. Tip: Measure the vehicle body centre line between the grille emblem. If grille has been removed, measure the centre line between the head lamps.

Align the Winch Cradle (4) to the Vehicle body center line by adjusting the horizontal positioning of the Winch Cradle (4).

LHS

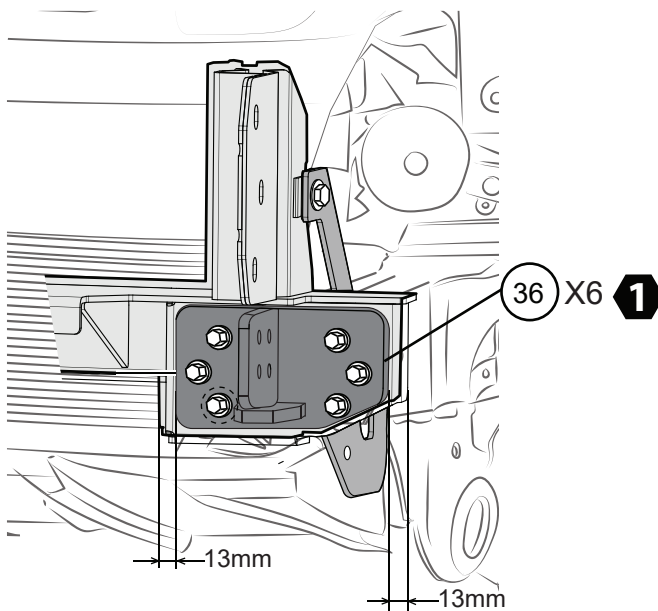
TOP VIEW (Shown without vehicle for clarity)



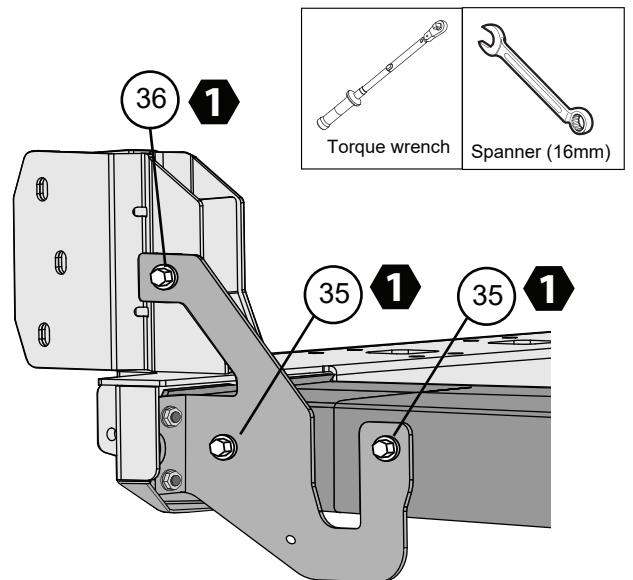
- 7** Loosely secure the LHS Mount Bracket (11) to the Winch Cradle (4) using an M10 x 50 Hex Head Bolt (36) and an M10 Washer (40). Ensure there is no gap between the Winch Cradle (4) and LHS Mount Bracket (11). If a gap is present, insert the 3mm Spacers (31) as required. Repeat for RHS.

Note: There may be variation between the vehicle body and the chassis frame. Therefore the number of 3mm Spacers (31) required may be different on each side.

LHS SHOWN



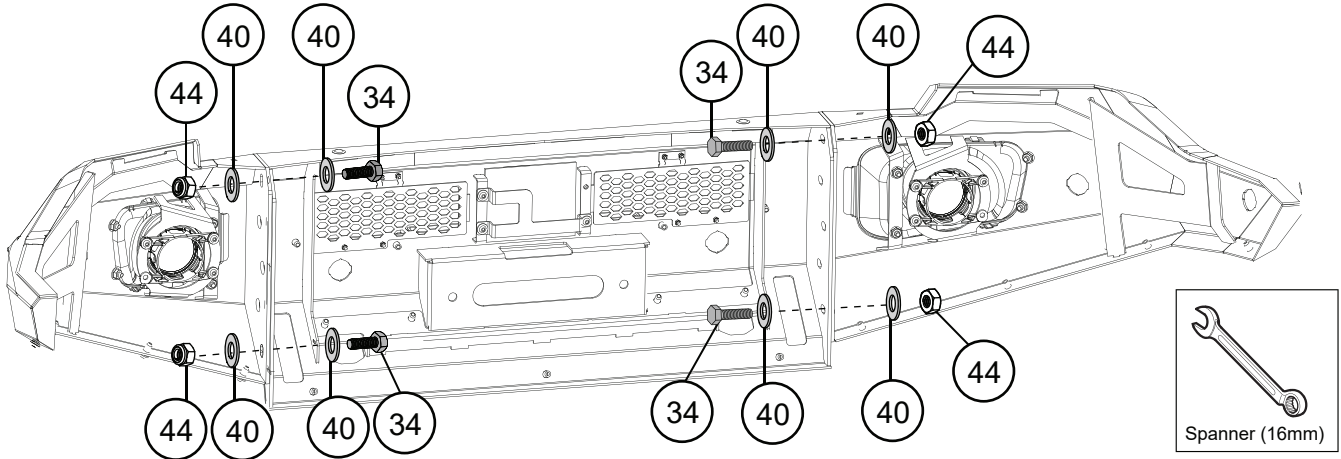
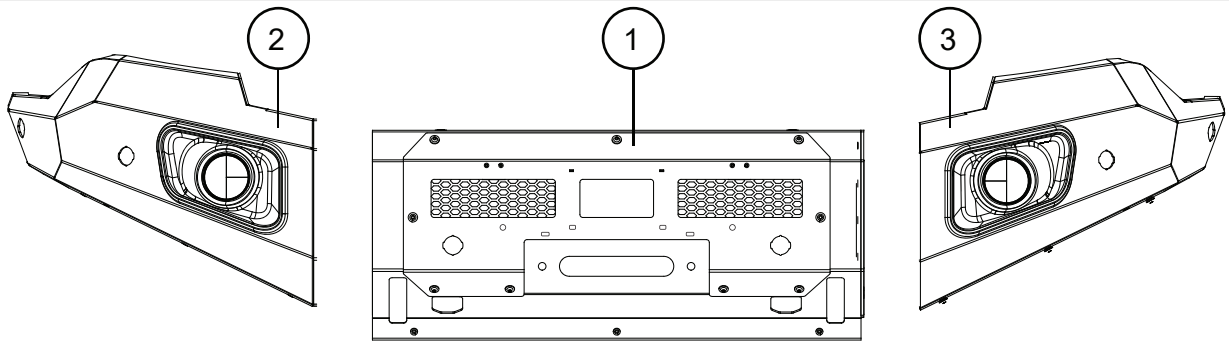
LHS SIDE VIEW (Shown without vehicle for clarity)



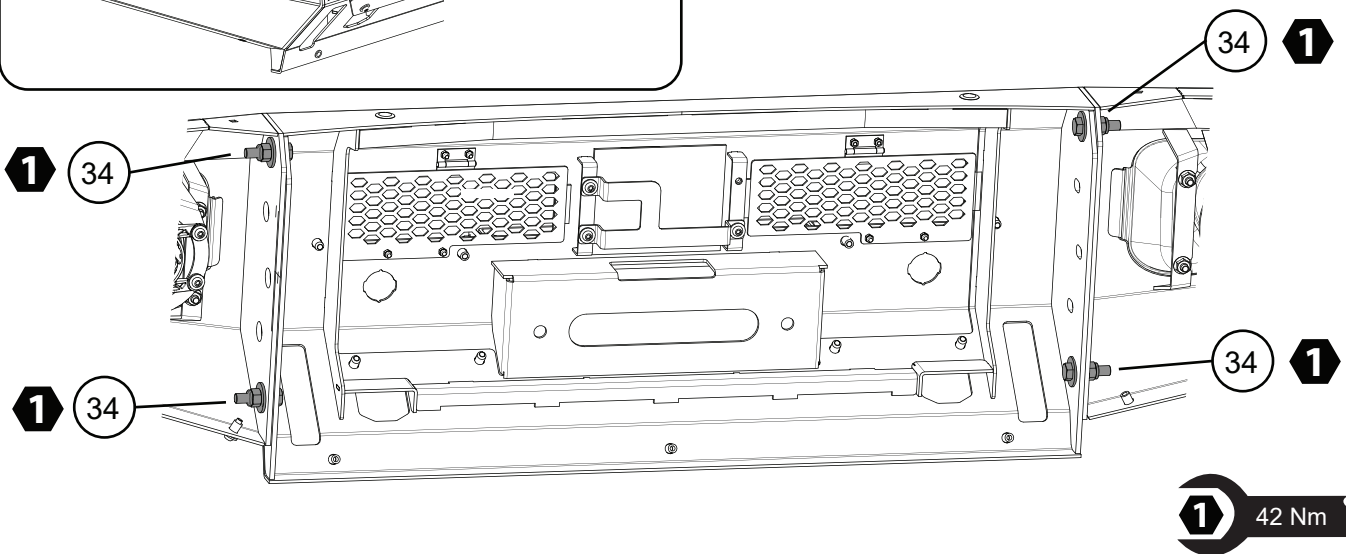
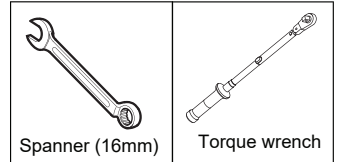
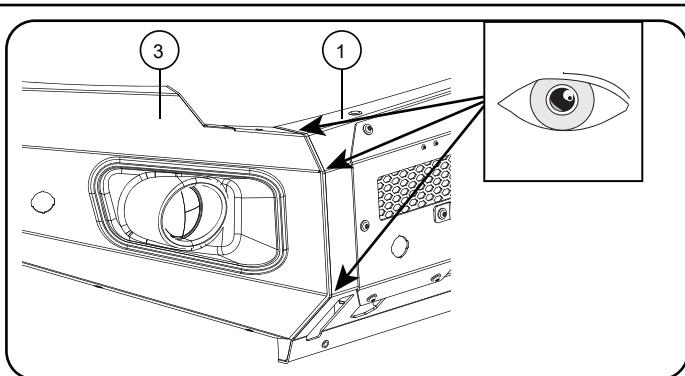
- 8** Tighten all M10 x 40 Hex Head Bolts (35) and M10 x 50 Hex Head Bolts (36). Torque all to 42 Nm. Repeat for RHS.

Note: Prior to tightening, ensure Recovery Hook Mount (18) is centered (13mm clearance either side)

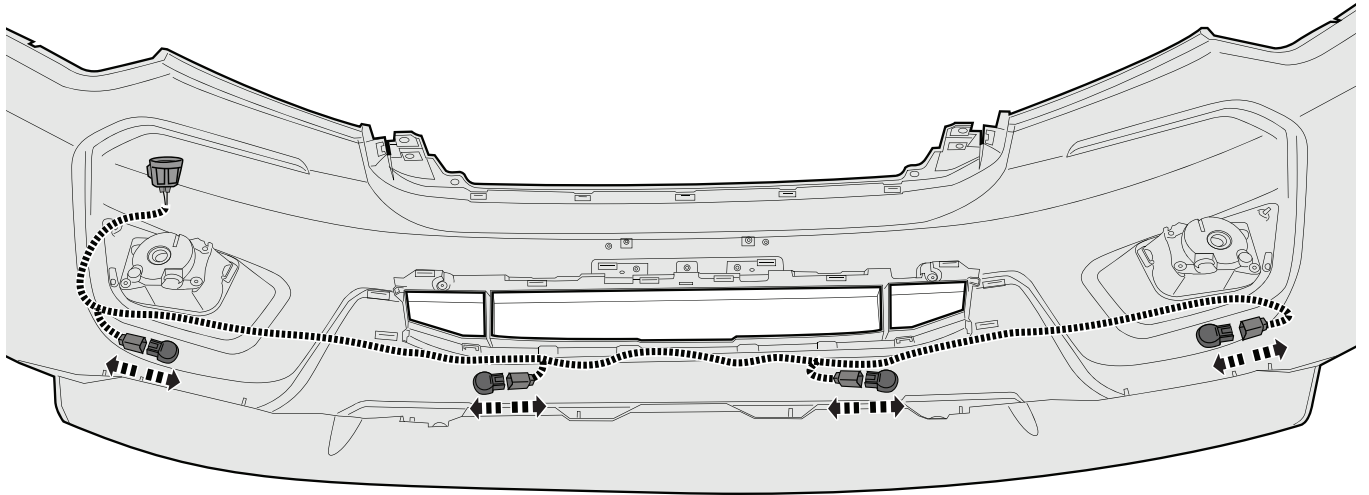
1 42 Nm



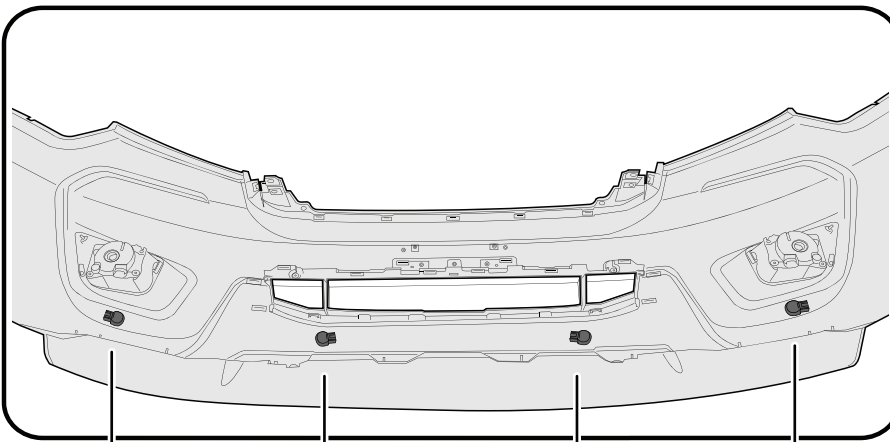
9 Loosely secure the LHS & RHS Return Assemblies (2)(3) to the Centre Grill Assembly (1) with four M10 x 30 Hex Head Bolts (34), eight M10 Washers (40) and four M10 Lock nuts (44). Do not tighten.



10 Visually inspect the front facing surfaces of the Centre Grill 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 (34) to 42Nm.

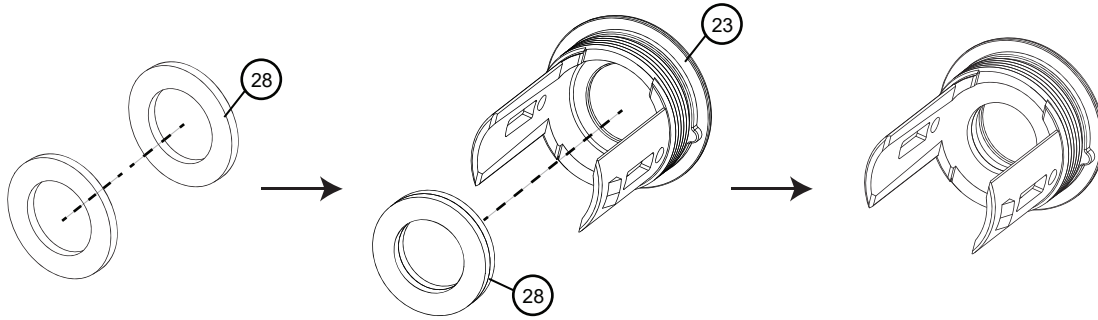


11 Remove the parking sensor wiring loom from the previously removed front bumper and retain for later.

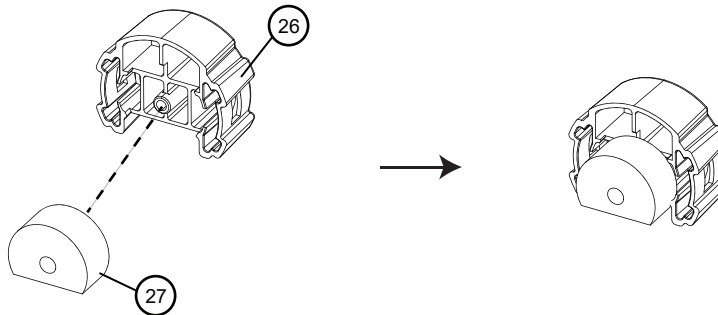


12 Carefully remove the factory parking sensors from their housings by pushing in the side clips and pulling up to release from the front bumper. Once removed retain the parking sensors. If present, remove Factory Radar Unit from front bumper and retain for later.

1



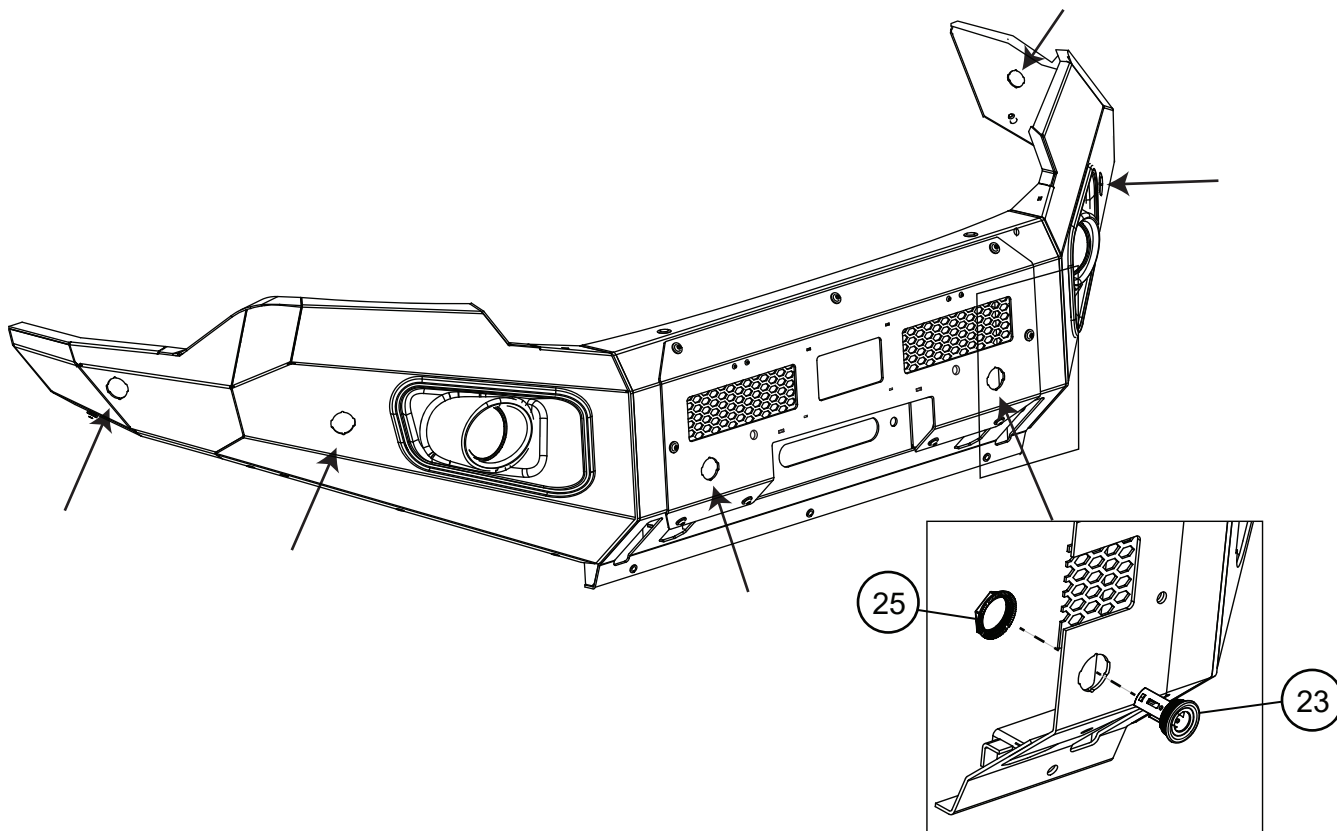
2



13 Attach two Foam Spacers (28) together, with the adhesive surfaces in contact with each other. Insert the Foam Spacers (28) into the Parking Sensor Bezel (23).

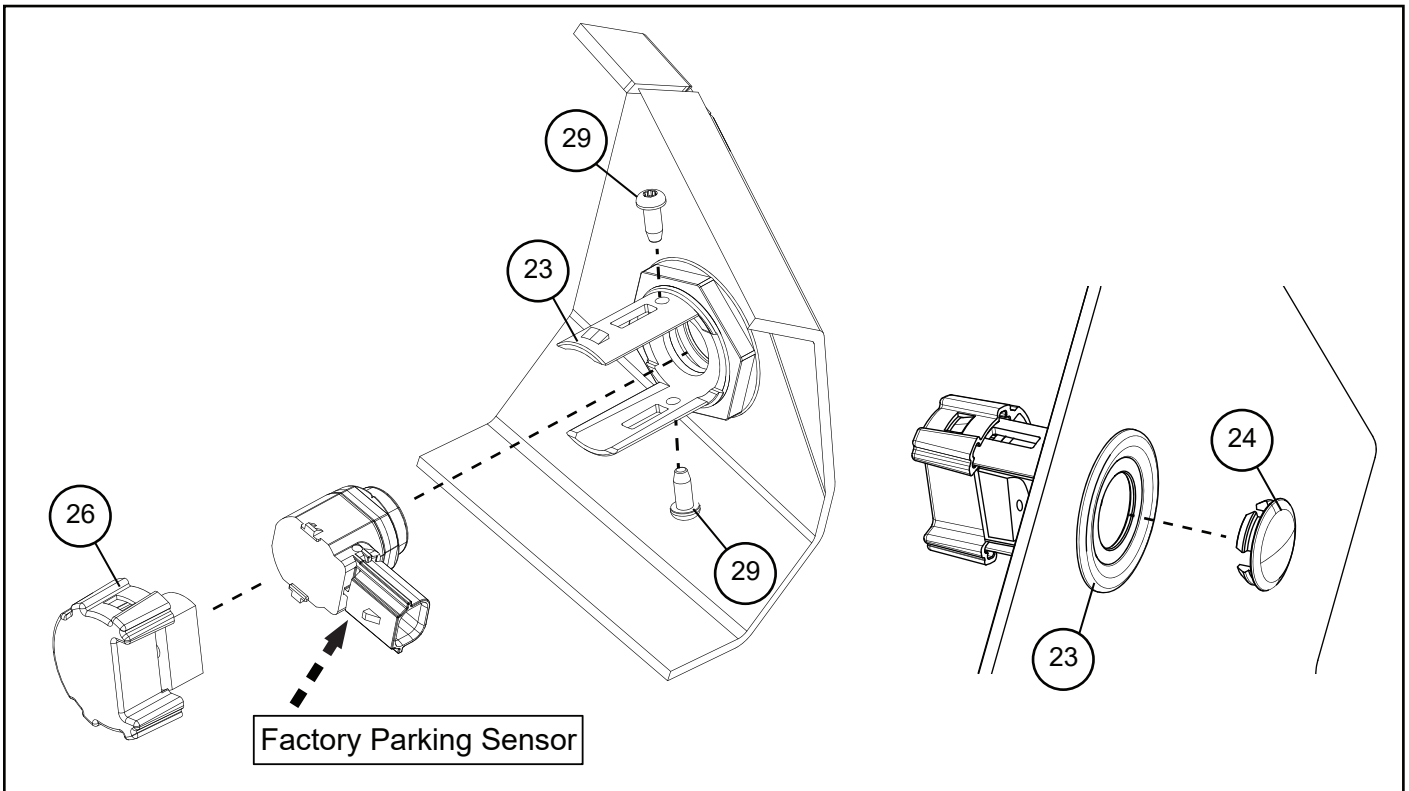
Attach the Parking Sensor Rear Foam (27) to the Parking Sensor Cap (26).

Repeat this for all six Parking Sensor Bezels (23) and Parking Sensor Caps (26).



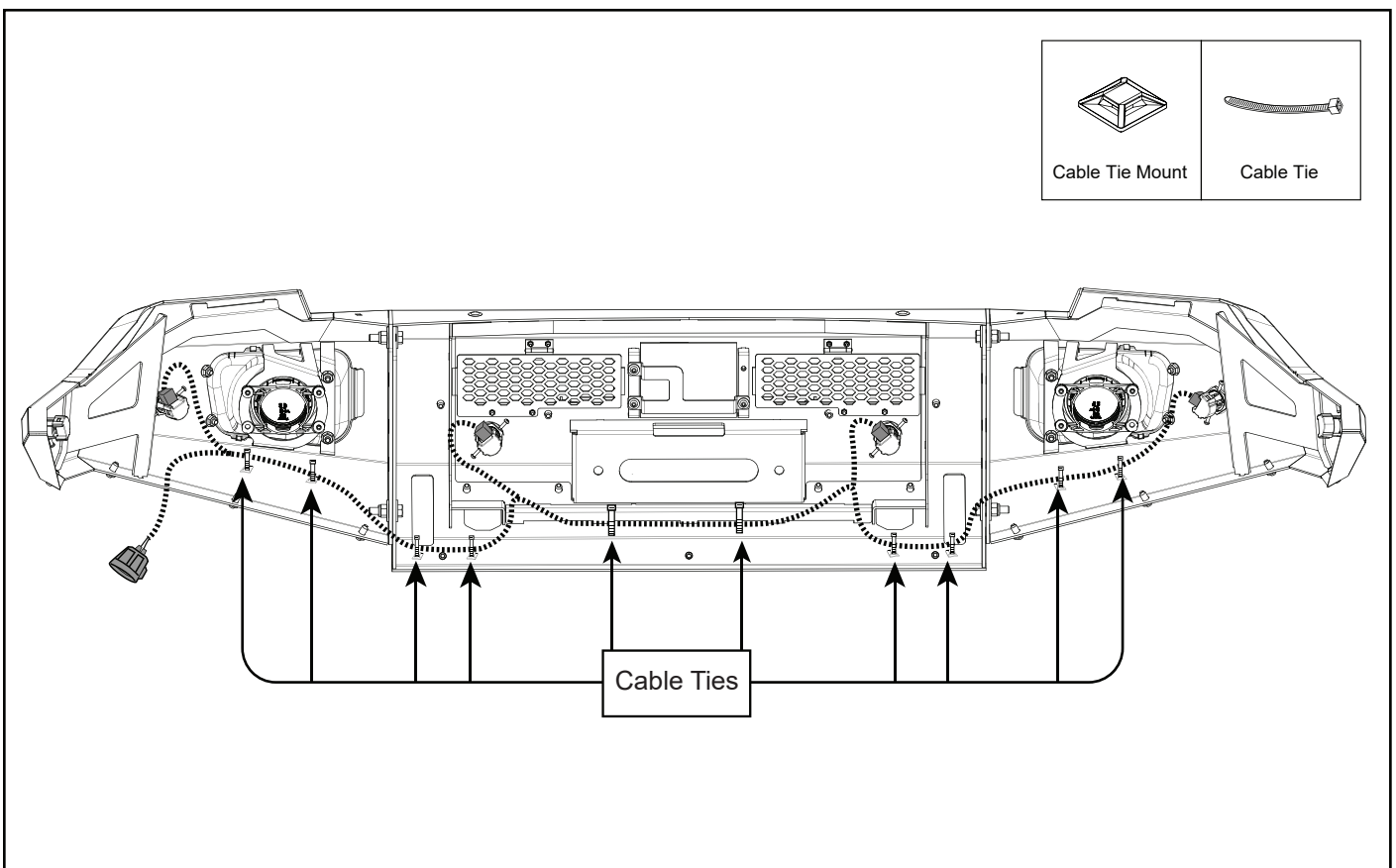
14 Insert the Parking Sensor Bezel (23) through the holes marked above. Ensure the notch on the Parking Sensor Bezel is aligned with the notches in the hole.

Secure the Parking Sensor Bezel (23) with the Parking Sensor Bezel Nut (25). Repeat for all Parking Sensors.

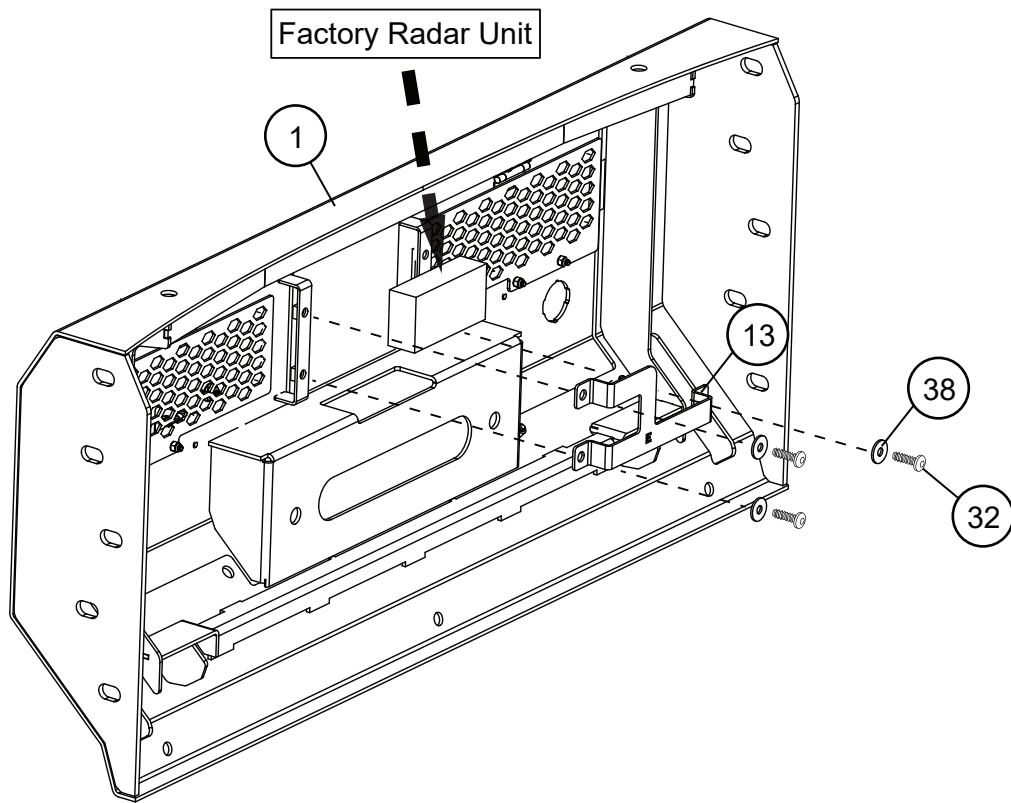


15 Insert the Factory Parking Sensor, followed by the Parking Sensor Cap (26) into the Parking Sensor Bezel (23). Secure the Factory Parking Sensor by screwing in two M4x10 Self Tapping T15 Torx Screws (29) into the Parking Sensor Bezel (23). Do not over tighten as this may damage the Parking Sensor.

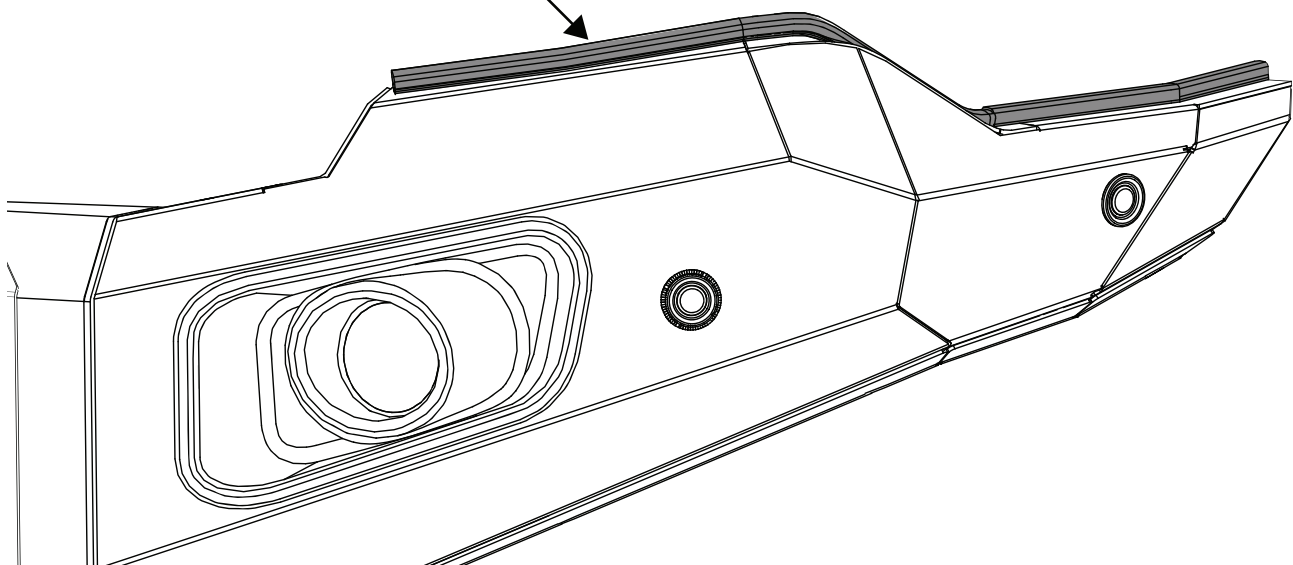
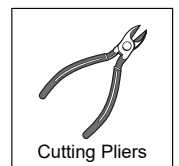
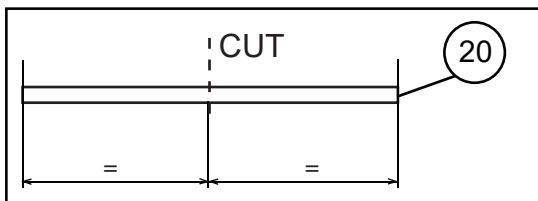
If there is no Parking Sensor present, simply press the Parking Sensor Blank (24) into the Parking Sensor Bezel (23).



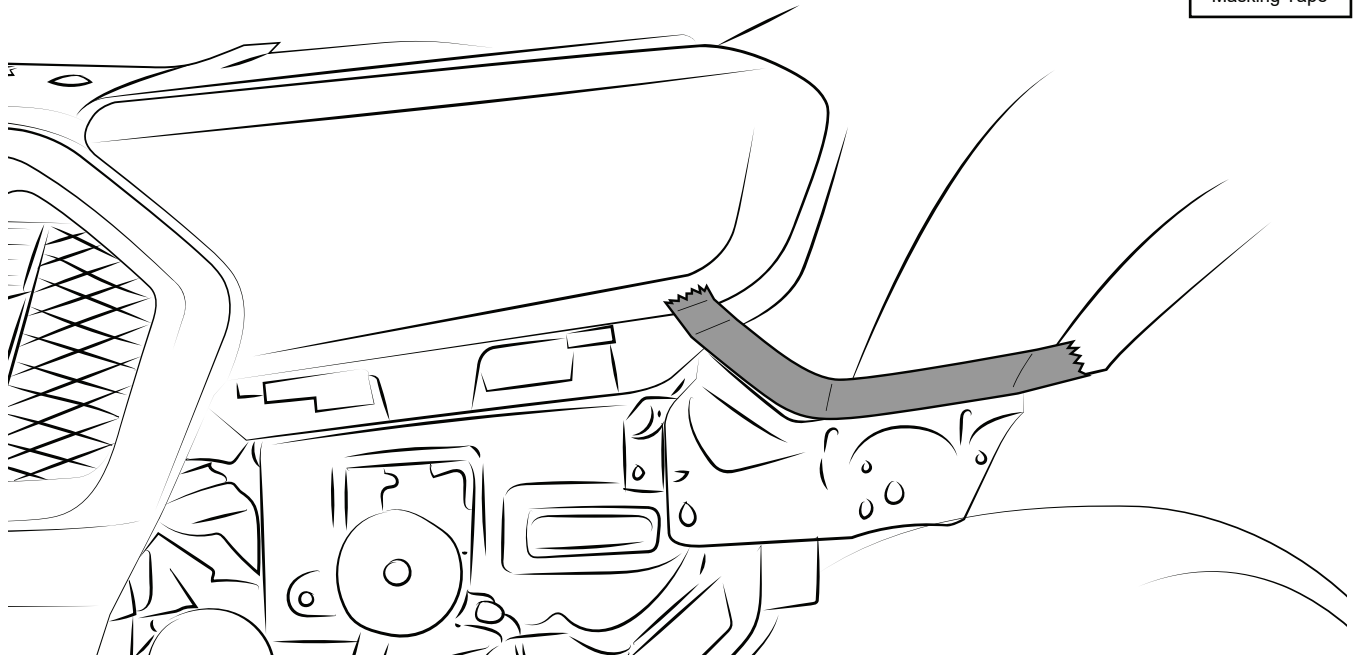
16 Install the factory sensor wiring loom removed from the original bumper earlier. Ensure all connectors are connected to the sensor plugs. Using Cable Tie Mounts and Cable Ties, secure the harness through the area shown above on the Bullbar Assembly.



- 17** If present, secure the Factory Radar Unit to Grille ASM using the Radar Bracket (13), three M6 Washers (38) and three M6 x 20 Button Head Allen Screws (32).

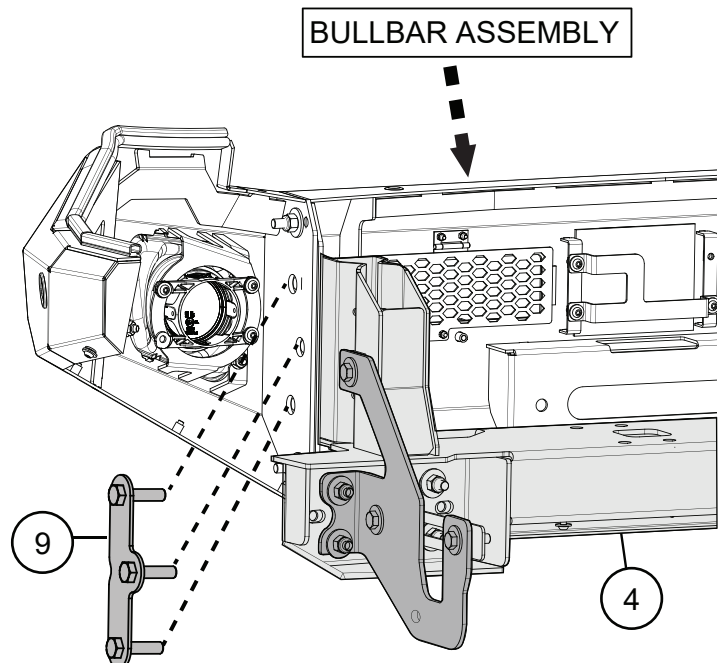
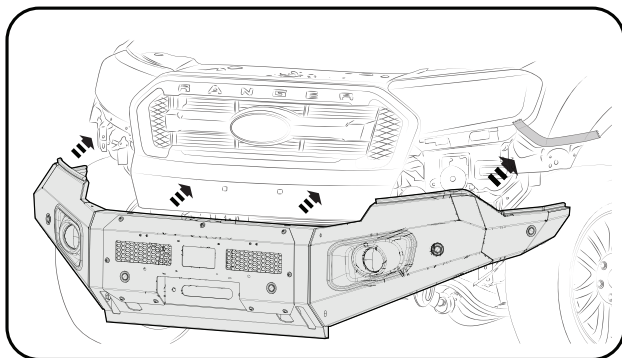


- 18** Cut the Bulb Seal (20) into half. Install the Bulb Seal (20) onto the top edge of each Return Assembly (2),(3). Start feeding the Bulb Seal (16) from inboard to outboard. Trim off the remaining excess.



- 19** Apply Masking Tape to the edge of the front fender from the headlight to the wheel arch. This is to protect against scratching paint when installing the Crosstrac bumper.

LHS INNER VIEW: SHOWN WITHOUT VEHICLE FOR CLARITY



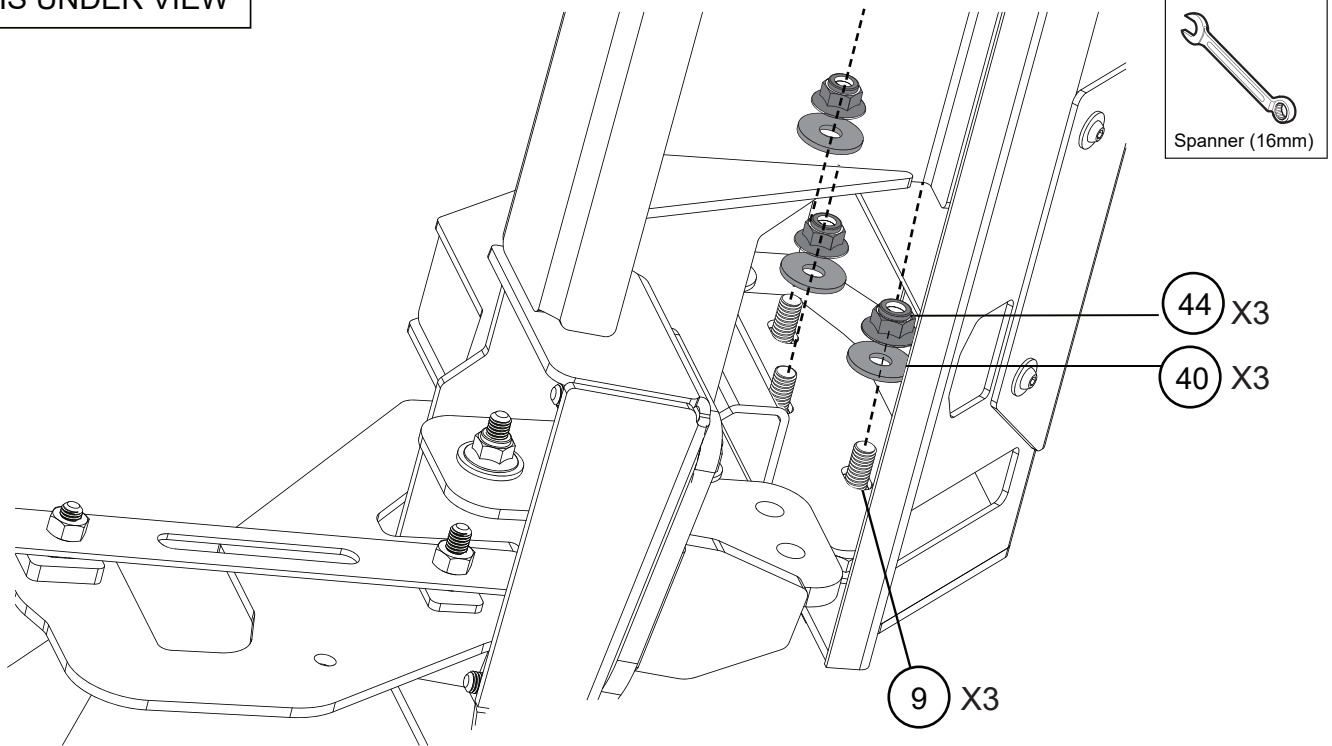
- 20** Lift and position the Bullbar Assembly onto the Winch Cross Member (4). Once in position, insert the two Bolt Plates (9) from the underside of the vehicle. The Bolt Plates (9) must be installed from the outboard side on the LHS and RHS Winch Cross Member uprights.

CAUTION:

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

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

LHS UNDER VIEW

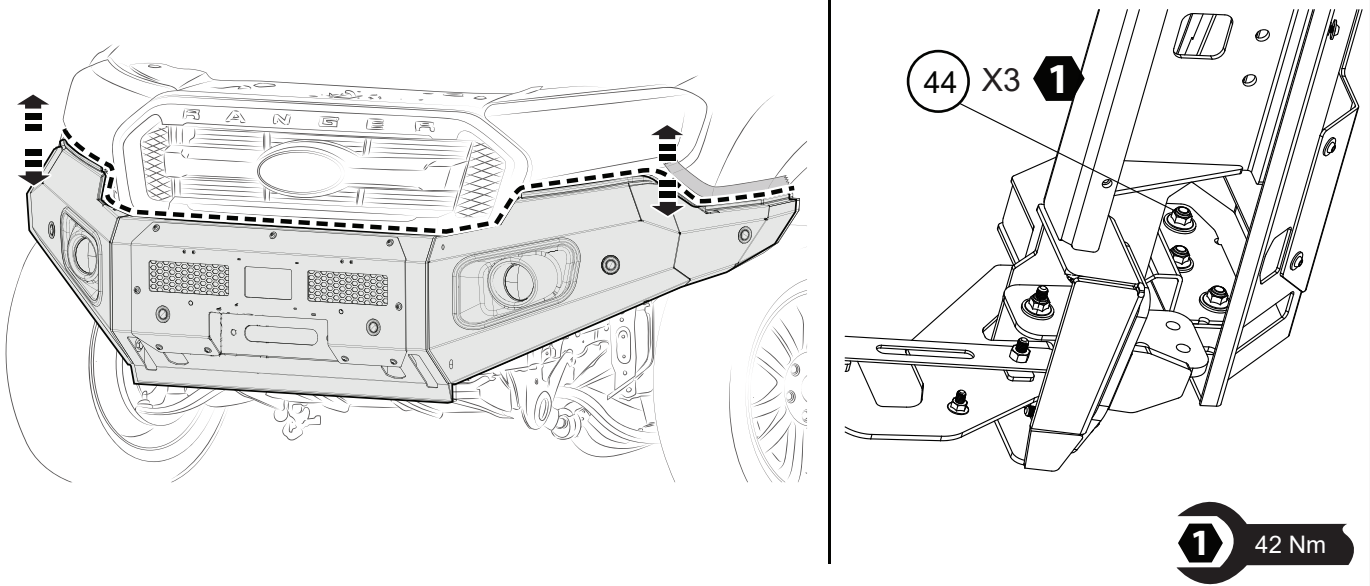
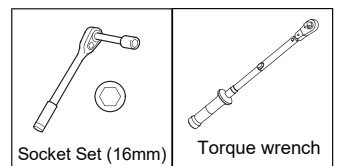
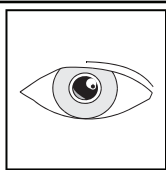


- 21** From the underside of the vehicle, Loosely secure three M10 Washers (40) and M10 Lock nuts (44) to the Bolt Plate (9). Repeat for RHS.

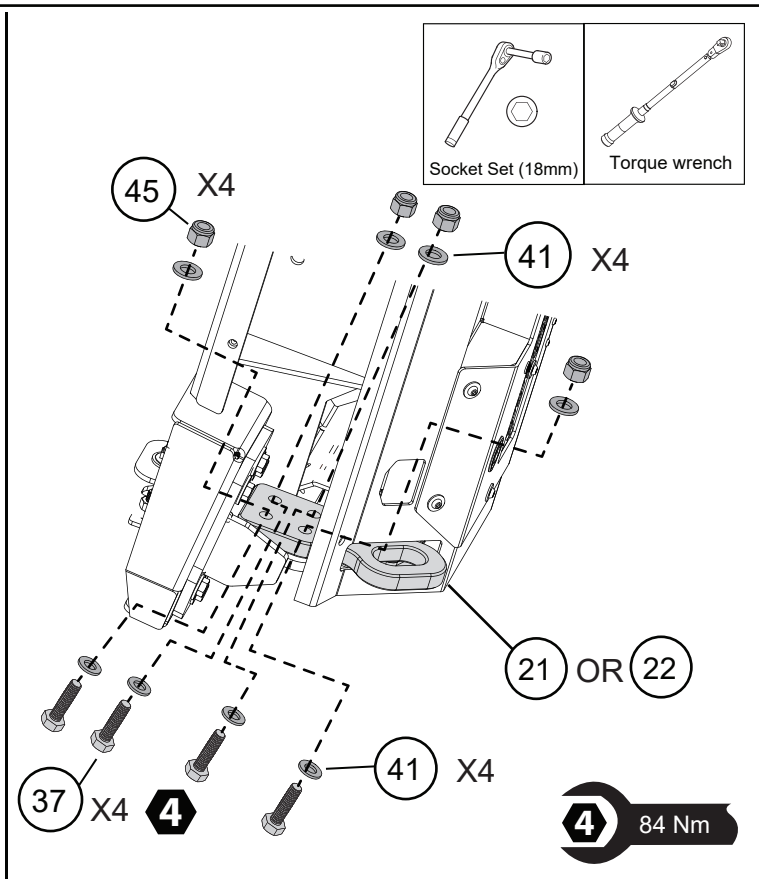
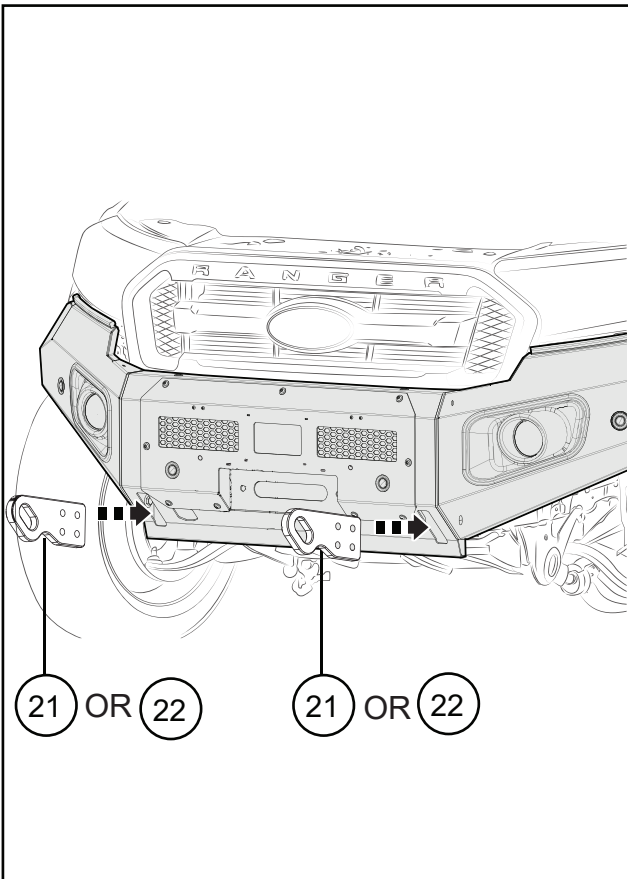
CAUTION:

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

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

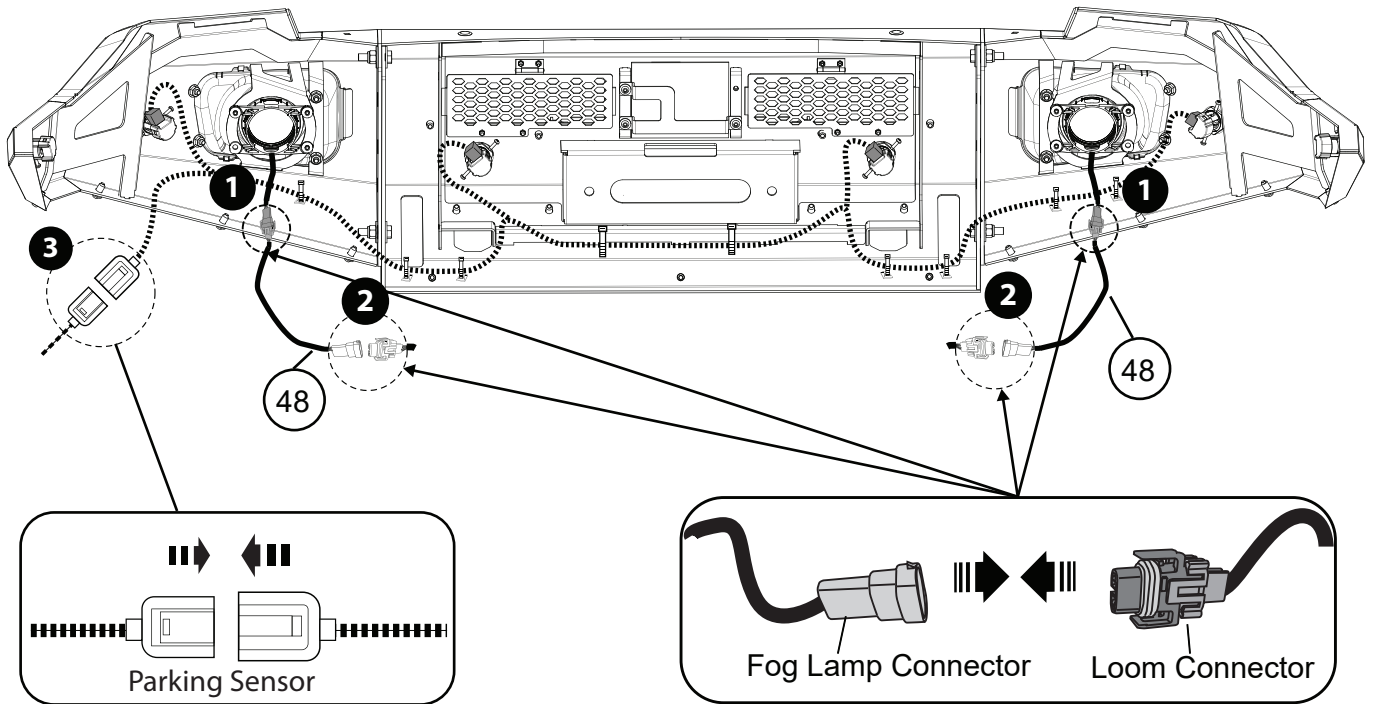


- 22** Adjust the vertical positioning of the assembly to ensure there is an even gap beneath each headlight. A second person is required to torque the M10 Nuts (44) installed in the previous step once an even fitment is achieved. Access to the M10 Nuts (44) is possible from the underside or top side if the upper grill has been removed. Once correctly positioned, torque to 42Nm.

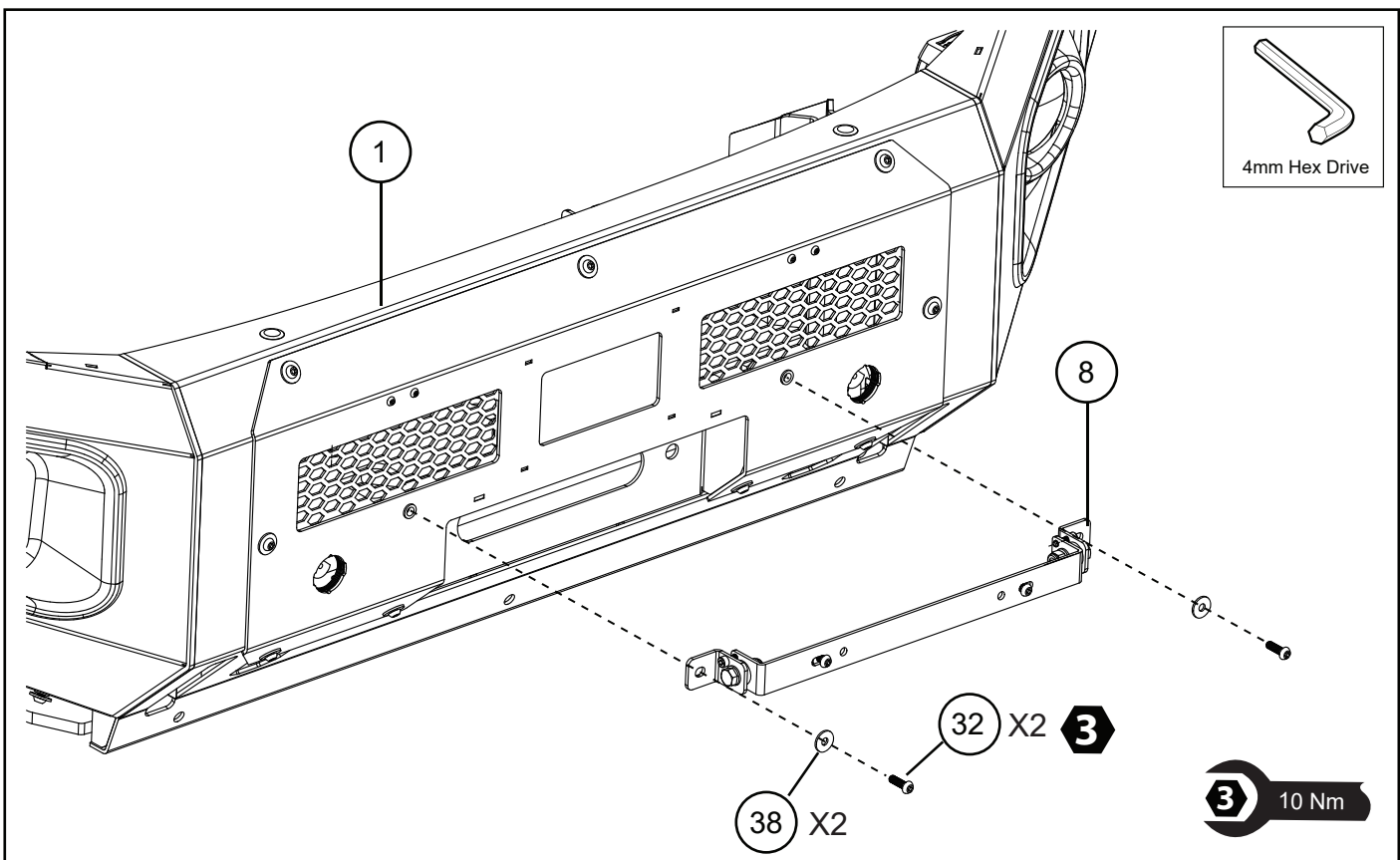


23 NOTE: Choose either 21 or 22 Recovery Hooks based off colour preference.
Secure the Recovery Hooks (21 OR 22) using four M12x50 Hex Head Bolts (37), M12 Washers (41) and four M12 Lock Nuts (45). Torque to 84 Nm. Repeat for RHS.

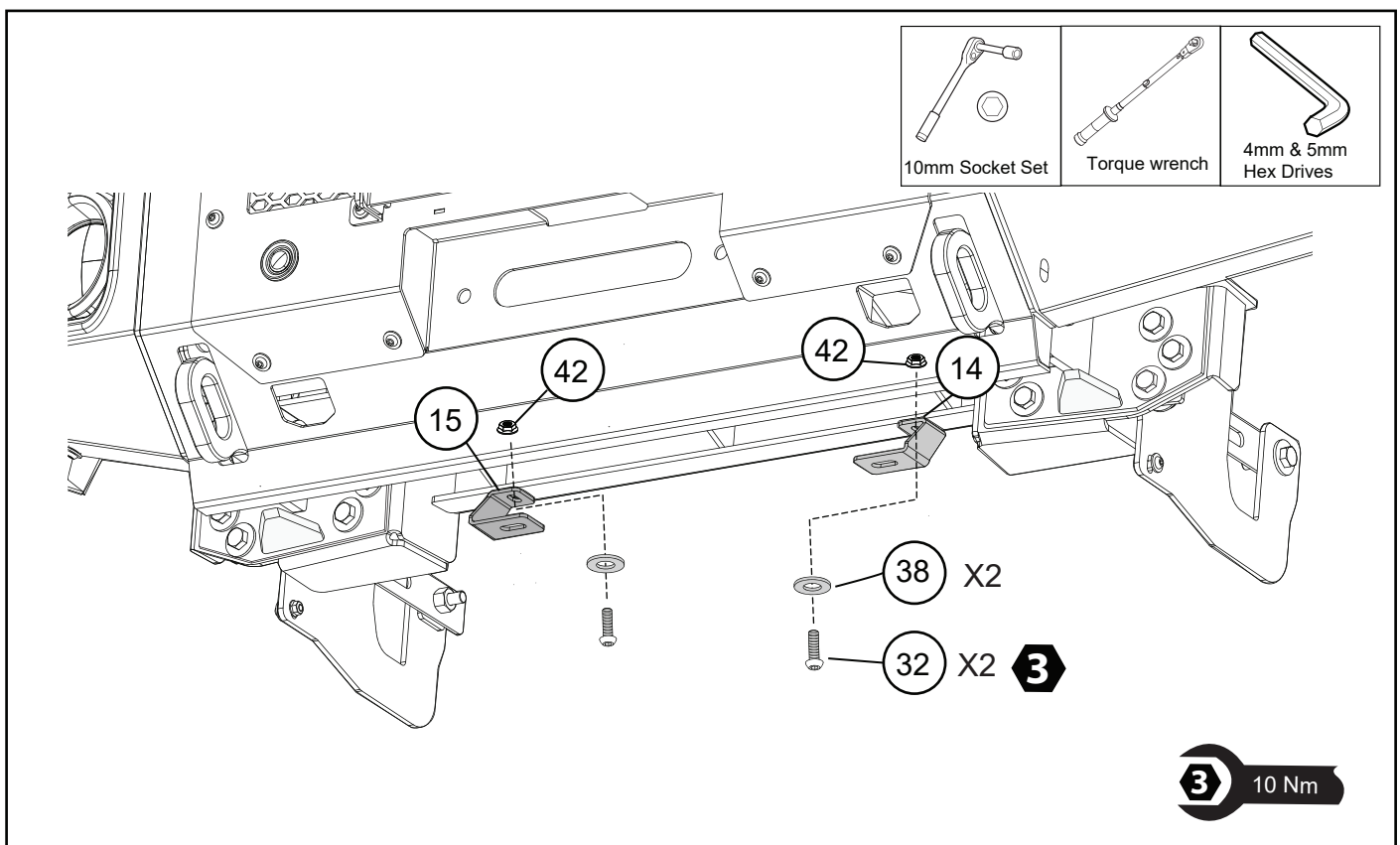
SHOWN WITHOUT VEHICLE FOR CLARITY



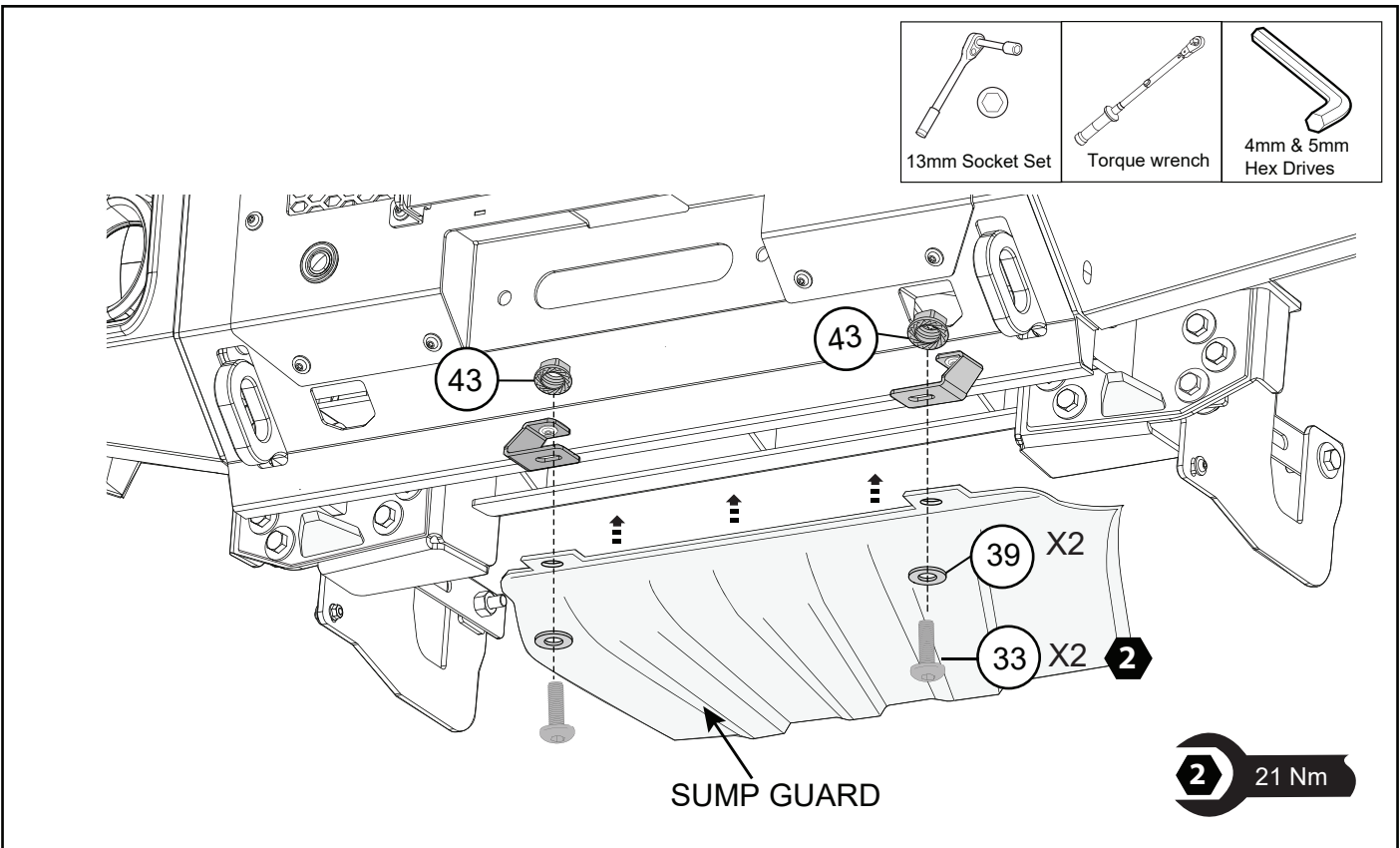
24 Connect the Fog Lamps to the provided Fog Lamp Harness (48).
Connect the Fog Lamp Harness to the Vehicle Harness.
Connect the Parking Sensor Harness to the Vehicle Harness.



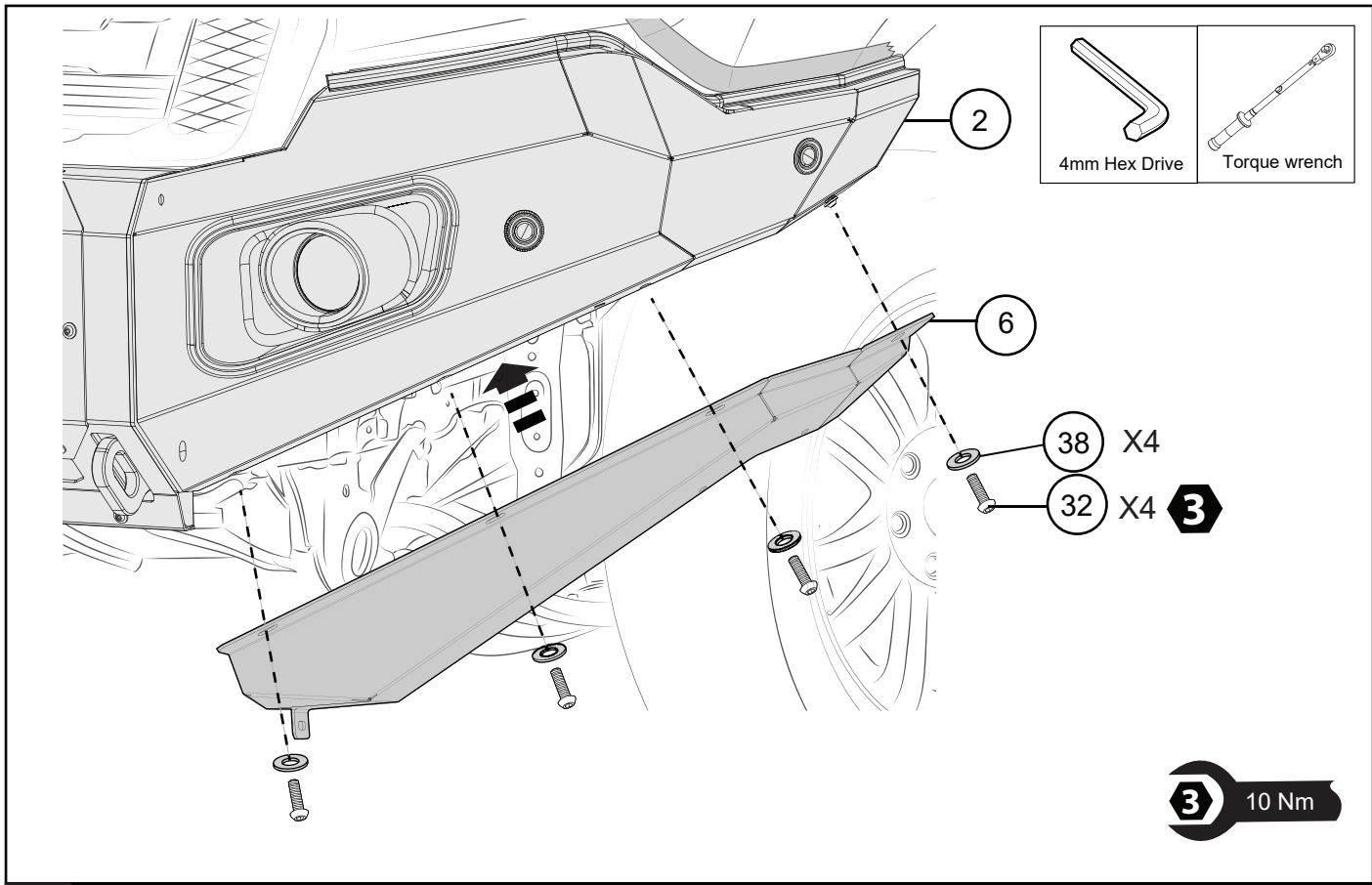
25 Attach the Number Plate Mount Assembly (8) to the Centre Grill Assembly (1) using two M6 x 20mm Screws (32) and two M6 Washers (38). Torque to 10Nm.



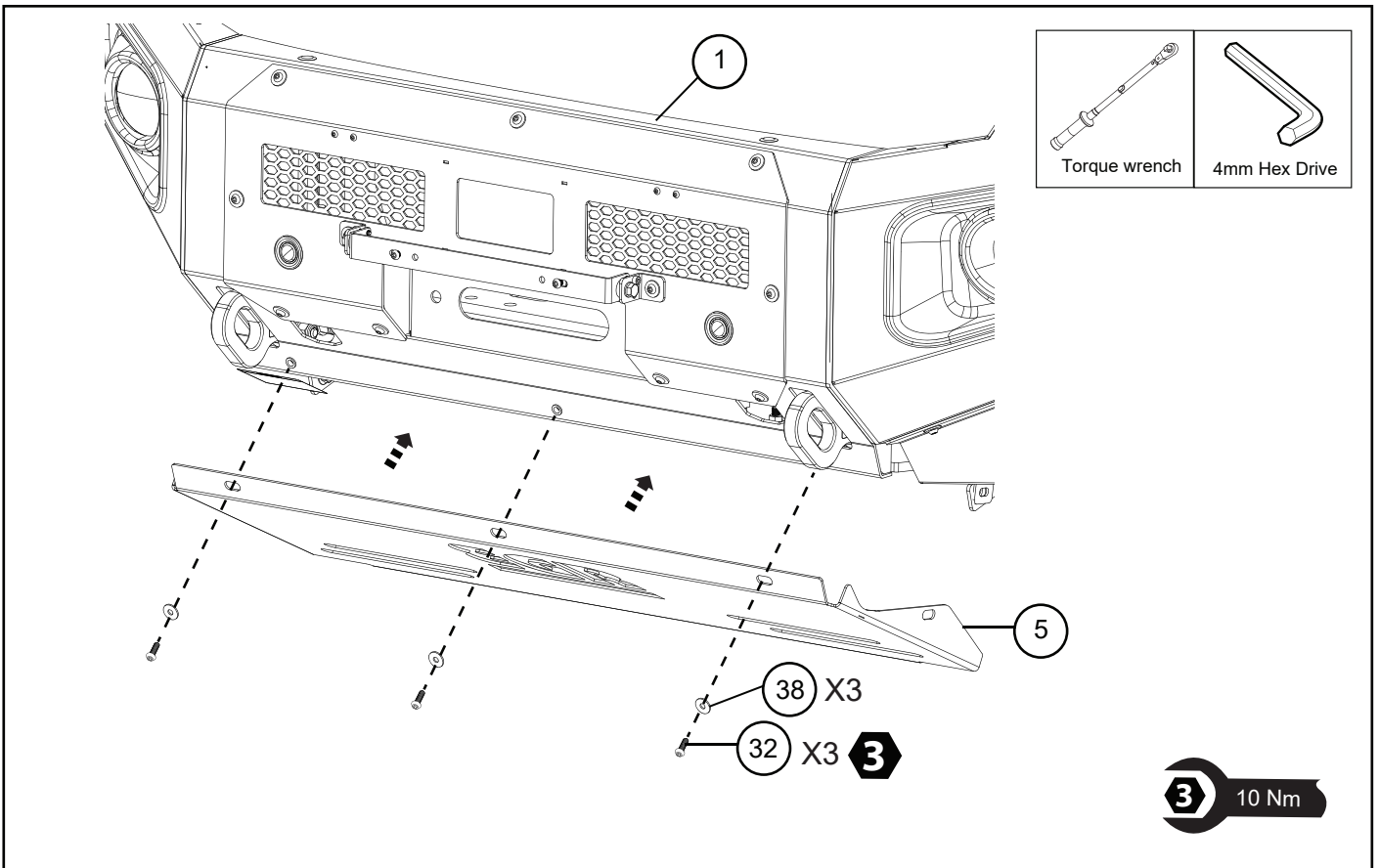
26 Attach the LHS & RHS Trim Brackets (14)(15) on the underside of the Winch Cradle and secure using an M6 x 20mm Screw (32), M6 Washer (38), and M6 Flange Nut (42). Torque to 10Nm.



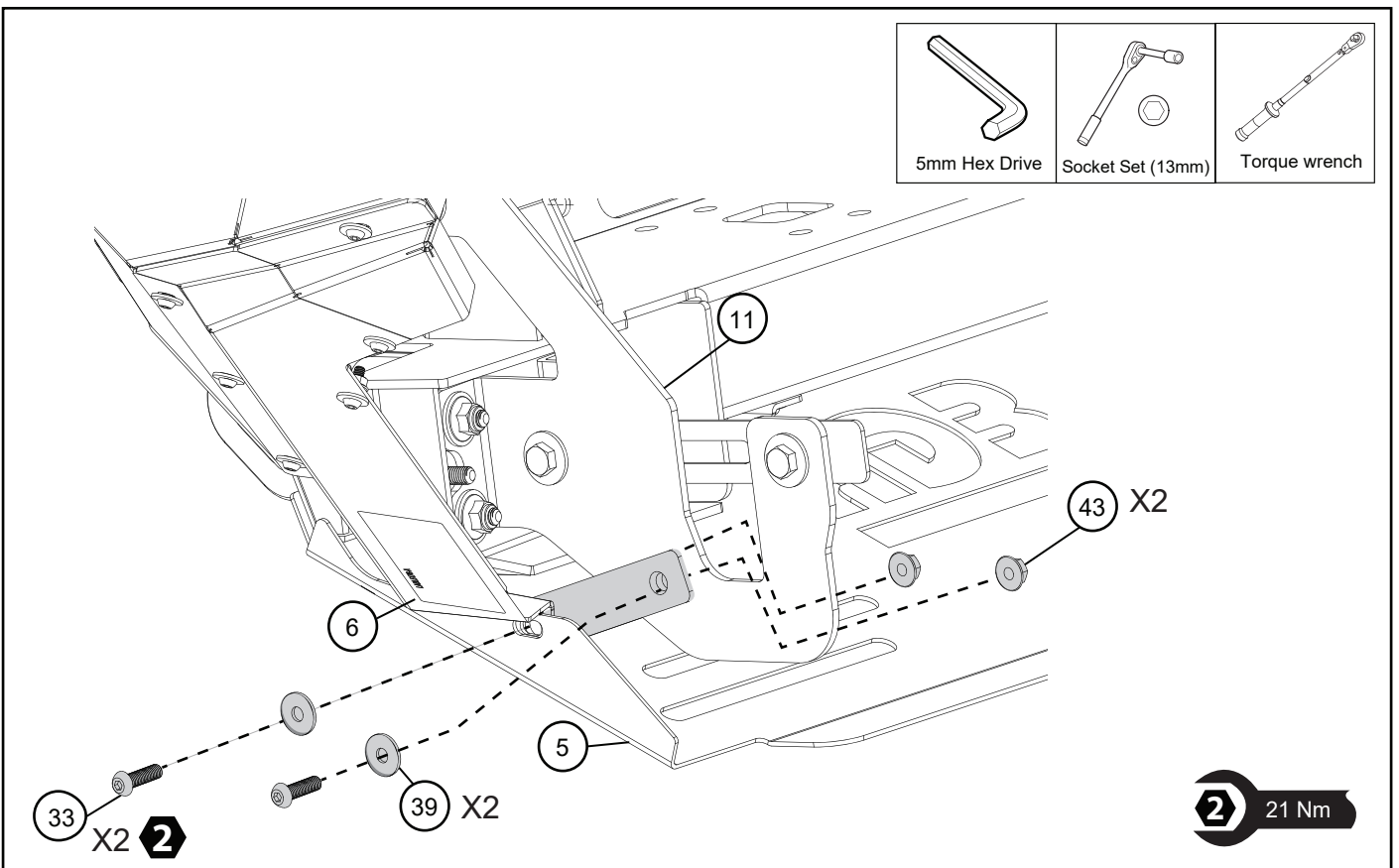
27 Attach the Sump Guard to the underside of the Trim Brackets (14)(15) using the M8x30 Screw (33), M8 Washer (39) and M8 Flange Nut (43). Torque to 21Nm.



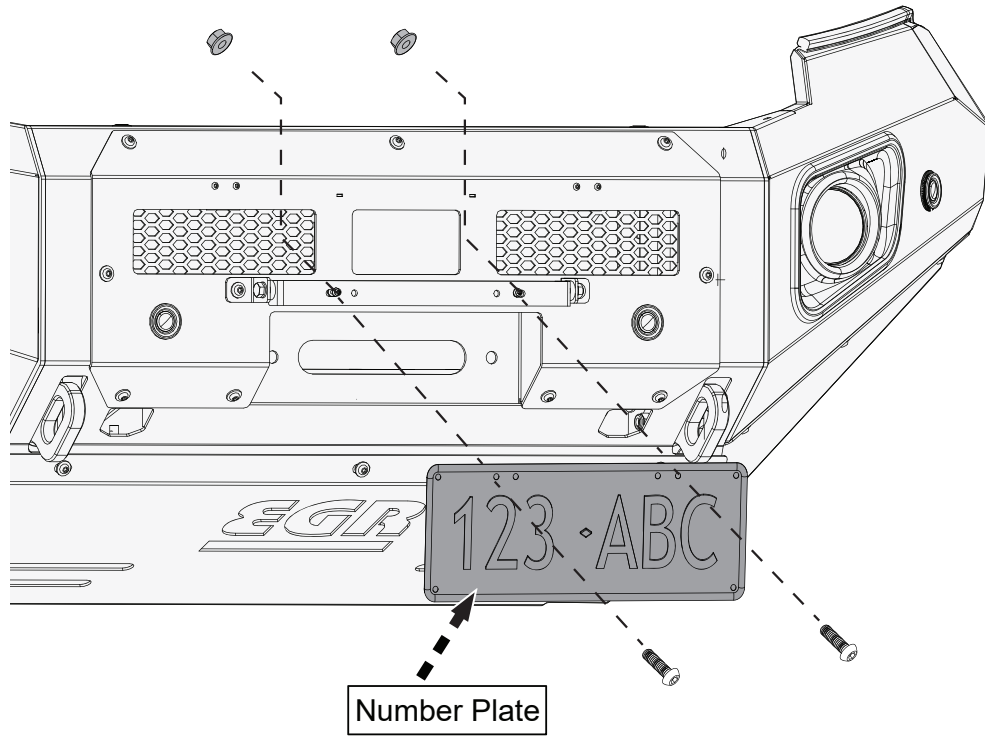
28 Attach the LHS Under Cover (6) to the LHS Returns Assembly (2). Secure using four M6 x 20mm Screws (32) and four M6 Washer (38). Repeat for RHS. Torque to 10 Nm.



29 Attach Bash Plate (5) to the Grille Assembly (1). Secure using three M6 x 20mm Screws (32) and three M6 Washer (38). Torque to 10 Nm.

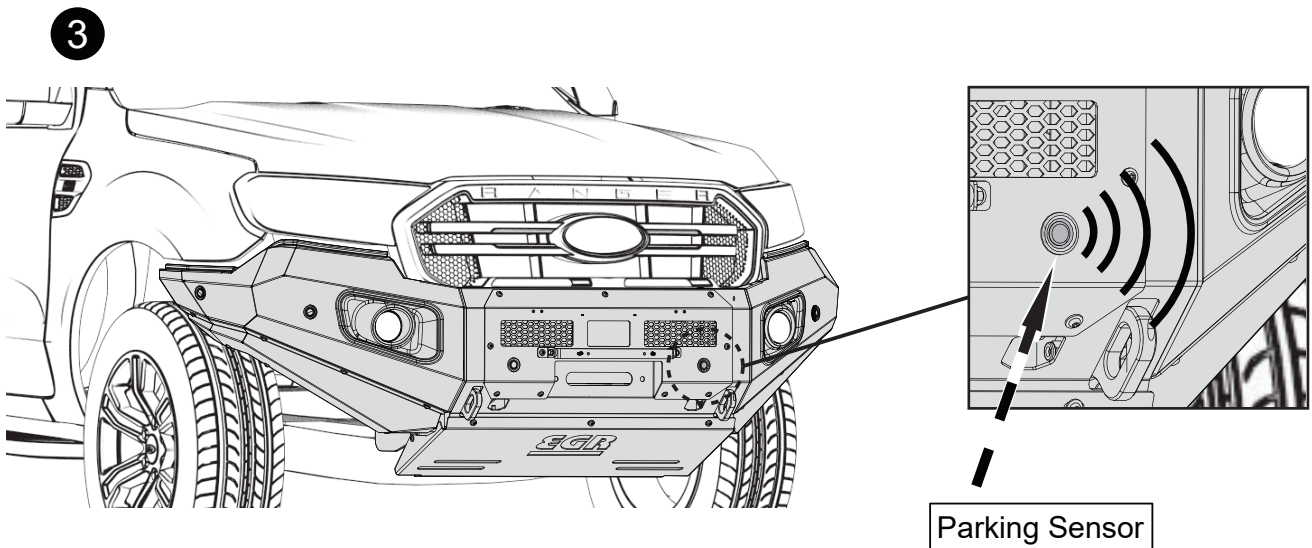
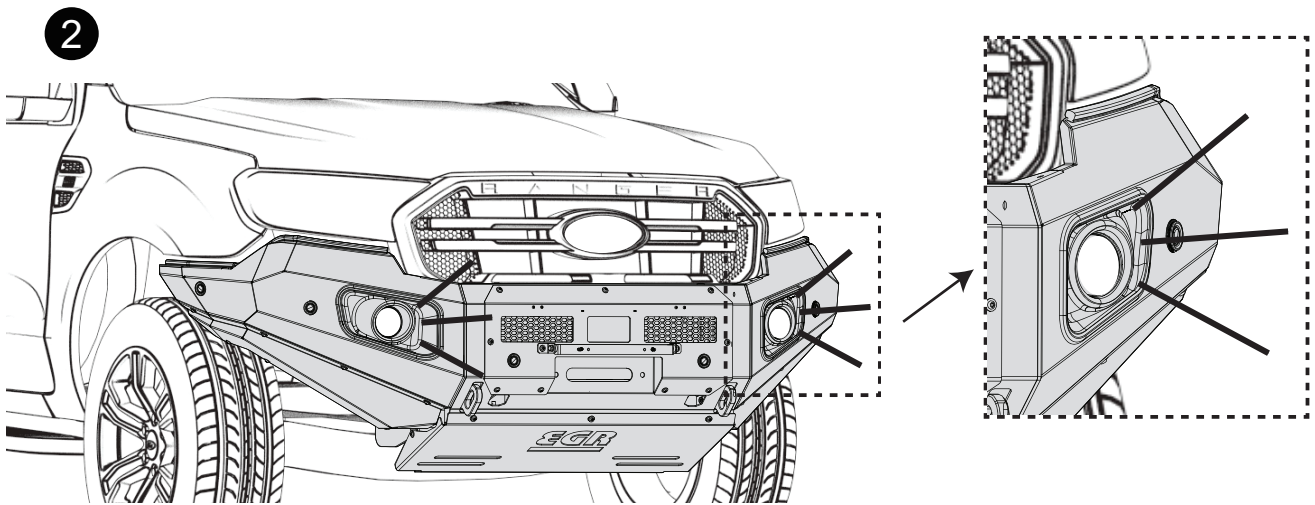
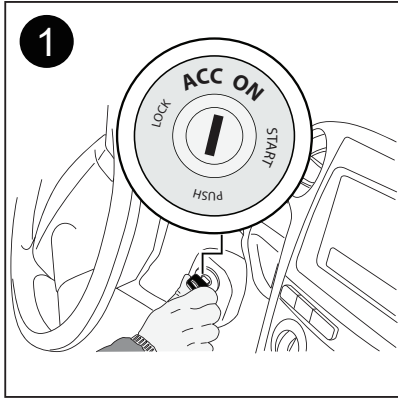


30 Connect the Bashplate (5) and LHS Undercover (6) to the LHS Mount Bracket (11) using the Under Cover Strap (16). Secure the Under Cover Strap using two M8x30 Screws (33), two M8 Washers (39) and two M8 Flange Nuts (43). Repeat for RHS. Torque to 21 Nm.



31 Attach the Number Plate to the Bullbar.

THIS SECTION INTENTIONALLY LEFT BLANK



Parking Sensor

32 Power up the accessories on vehicle, and check the function of the LED Fog Lamps and Parking Sensors on the Bullbar.