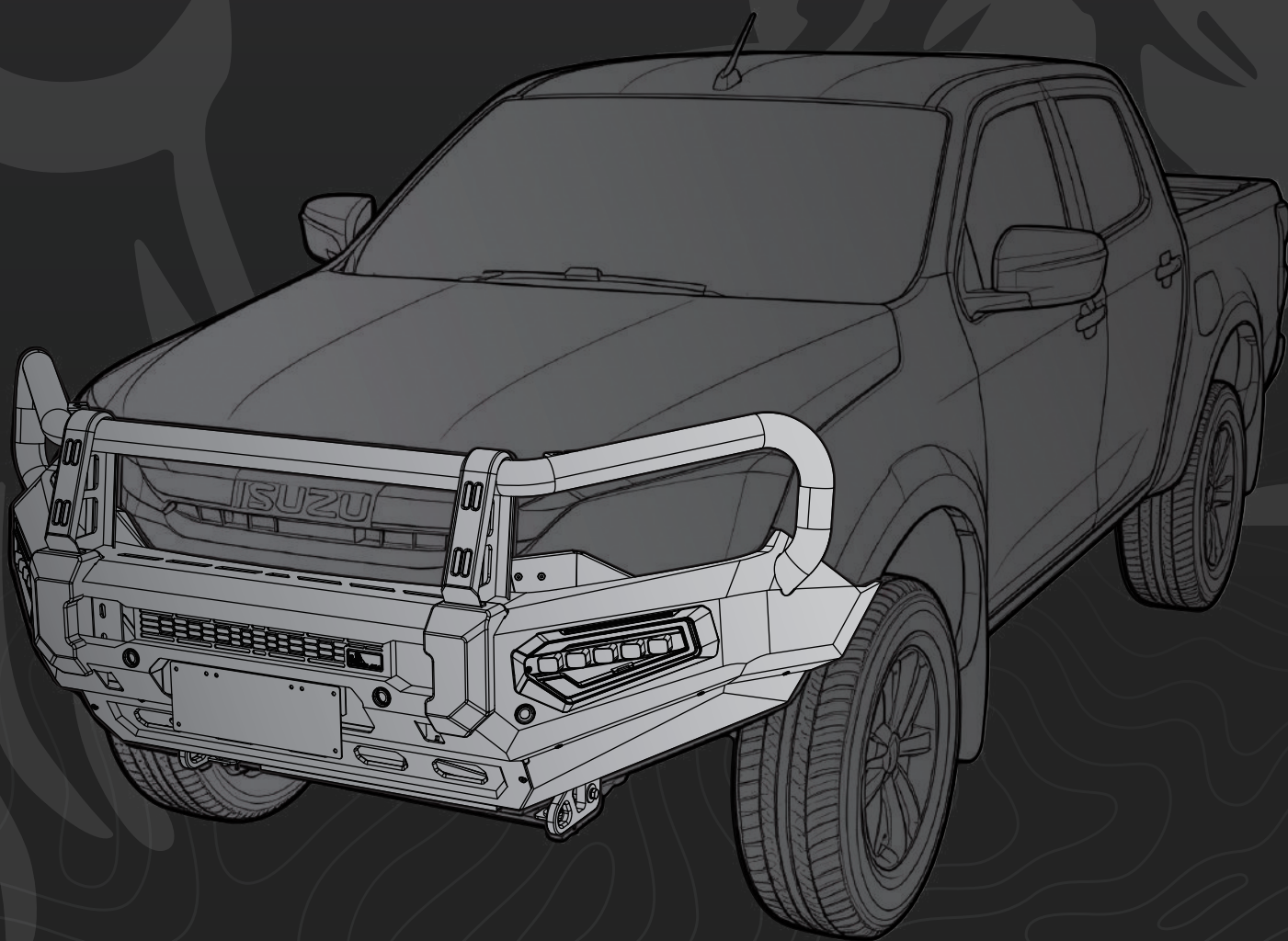




FRONT BULLBAR FOR ISUZU D-MAX

INSTRUCTION GUIDE ►►





- Prepare a clean work area.
- We recommend a minimum of 2 people for assembly and 4 people for installation.
- Ensure the required tools are present and all hardware contents are accounted for.
- Never use acetone or thinners on painted parts.
- Read through the entire instruction guide before starting this procedure and follow.
- The steps carefully to avoid any damage to the components or the vehicle.

DIRECTORY

01	INSTALLATION & SAFETY PRECAUTIONS	01
02	INSTALLATION TOOLS	02
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06	INSPECTION AND MAINTENANCE	26
07	INSTALLATION OF REAR ASSEMBLY	27

■ BEFORE INSTALLATION

- This product is a heavy-duty off-road modification component and must be installed by a professional with relevant vehicle modification experience.
- Before installation, be sure to read this manual carefully to ensure that all components, fasteners, and tools are complete and undamaged. Missing or damaged parts must be replaced immediately.
- Installation must be performed on a flat, stable surface, and the vehicle must be reliably supported to prevent displacement during installation.
- It is recommended to wear protective gloves to avoid cuts from metal parts and screws; disposable gloves should be worn when handling sealant to prevent skin irritation from chemicals.

■ DURING INSTALLATION

- Strictly follow the installation steps specified in the manual. Do not modify the process or skip key steps without authorization.
- Original Parts Removal: Carefully remove the original bullbar and sensors, retaining the original clip screws. Do not use excessive force to remove them, as this may break the clips.
- Beam Connection: The bullbar must be fixed to the pre-drilled holes in the original vehicle's longitudinal beams. Do not attempt to connect only to the body panels or adjust the original energy-absorbing box base structure. This must be done by two people to avoid damage to components or injury.
- Original Radar and Camera: The original radar and camera must be moved to the new bullbar in their original positions without changing their angle to avoid false alarms or image distortion.
- Lighting Wiring Harness: Wiring harnesses for the added lights must be run through corrugated conduit away from the exhaust pipe. After installation, check that the gap between the bullbar and the exhaust pipe, electric pedal, and license plate frame is no less than 10mm.
- Before installing any electrical components, disconnect the vehicle's power supply to avoid short circuits that could damage the electrical system or create safety hazards.

■ FASTENING & TORQUE SAFETY

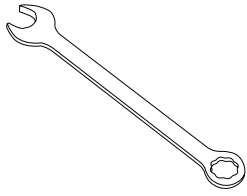
- All fasteners must be tightened using a calibrated torque wrench to the torque value specified in the manual, ensuring tightening accuracy.
- The final tightening process must not be performed using impact drills or power tools to prevent over-tightening and damage to components.
- Over-tightening may cause deformation of aluminum alloy components and damage to threads, thereby affecting structural stability and sealing performance; under-tightening may easily lead to loosening of components, posing a safety risk.

■ SEALING & WATERPROOFING

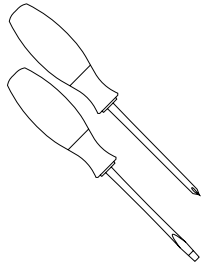
- Verify that all fasteners are tightened to the specified torque, with no loosening or stripping. Pay special attention to critical connections for M6 and M8 fasteners.
- Inspect all seals to ensure they are intact, continuous, without warping, and with tight gaps.
- Functional retest: Reconnect power, clear fault codes, and test the reversing radar, 360-degree camera, and blind spot monitoring for proper function and no persistent false alarms.
Perform a low-speed test drive with the steering wheel fully turned to the left and right, over speed bumps or uneven surfaces, confirming no metallic friction or collision noises.
- Regulatory compliance: Ensure that the original headlights, turn signals, license plate, and license plate light are not obstructed. Otherwise, the license plate must be relocated and the lighting must be compliant to avoid penalty points.
- Post-driving retightening: Retighten all connecting bolts after driving 50-100 kilometers. Afterward, check the torque markings every 5000 kilometers or after each off-road trip.

■ DISCLAIMER

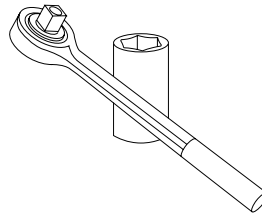
- The manufacturer accepts no liability for damage, injury, or loss resulting from installation, use, or maintenance not carried out in accordance with this manual.



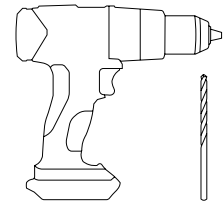
Metric wrench set



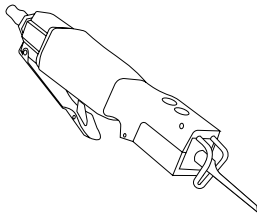
Screwdriver set



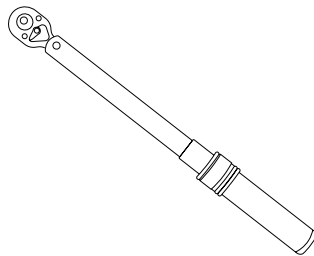
Metric sleeve assembly



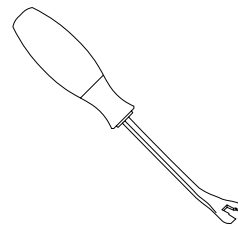
Drill and Drill Bits



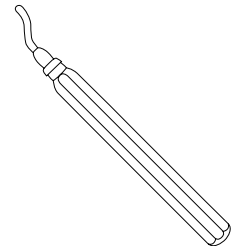
Air Hacksaw



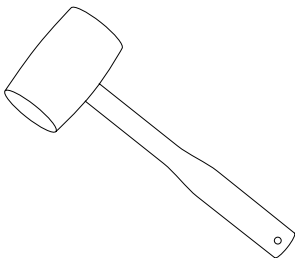
Torque Wrench



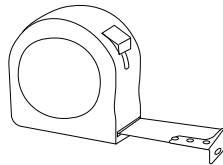
Clip Remover



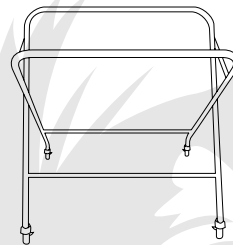
Deburring Tool



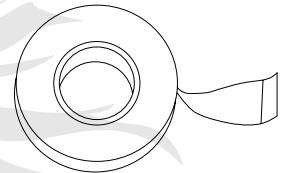
Rubber Mallet



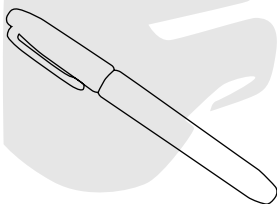
Tape Measure



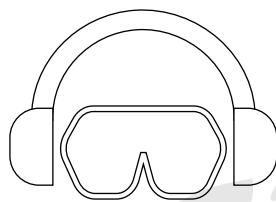
Bullbarr Support Stand



Masking Tape

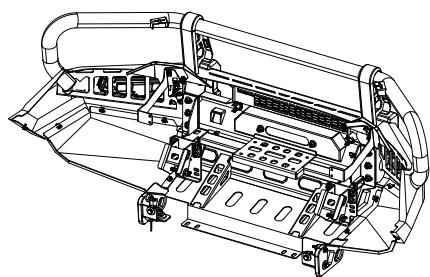


Marker and Paint Pens

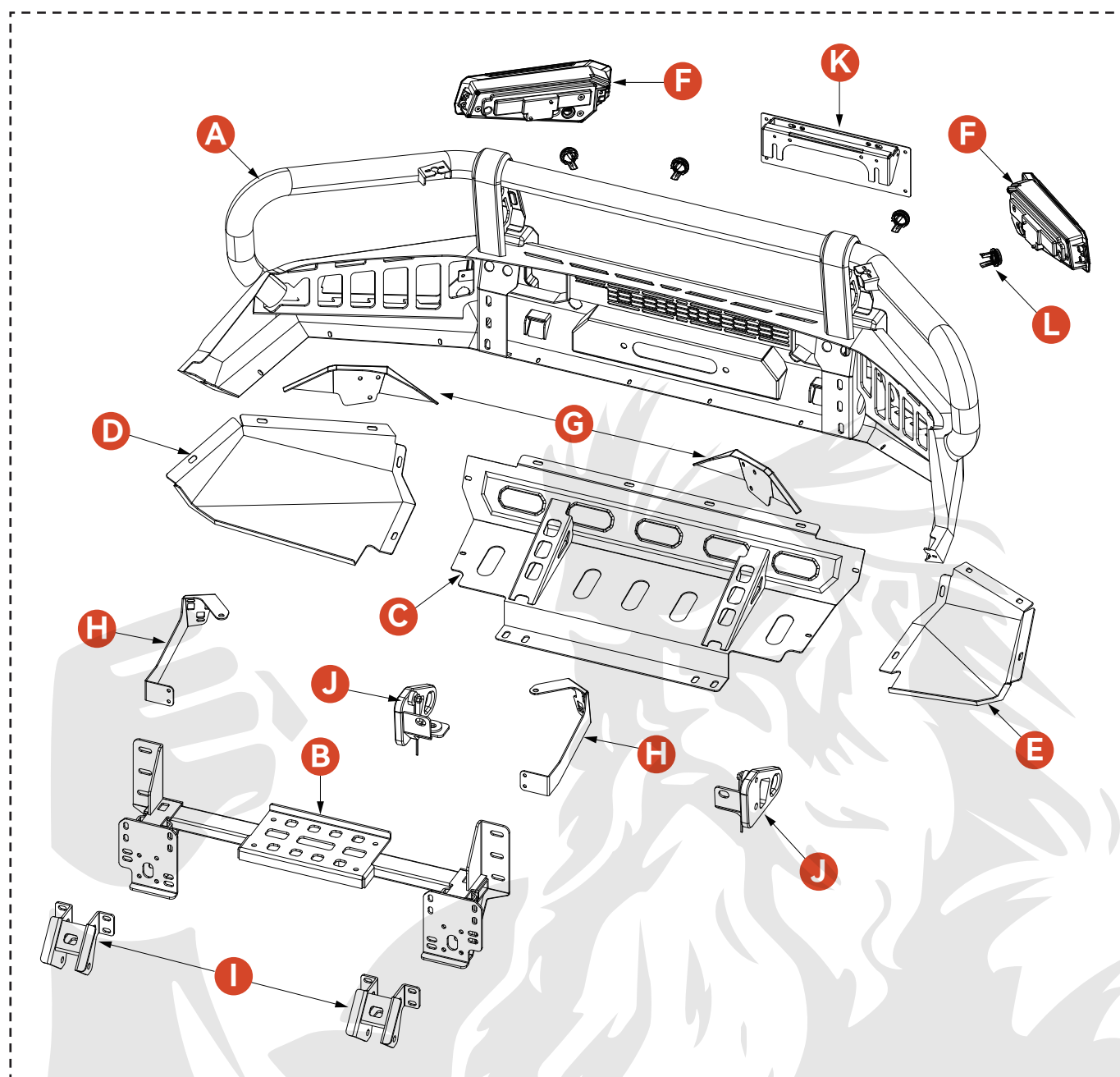


Personal Protective Equipment

■ PARTS 1



NO.	Part name	NO.	Part name
A.	Front bullbar main welded assembly	G.	Replacement part for the center grille
B.	Winch bracket	H.	Grille replacement bracket
C.	Guard Plate - Middle	I.	Beam head fixed bracket
D.	Guard Plate - Right Side	J.	Tow hook
E.	Guard Plate - Left Side	K.	Car base
F.	Lighting modules	L.	Radar bracket



■ PARTS 2

● Front bumper installation

1

Flat washers,
chamfered type, Class A
8X37mm



2

Lightweight spring washers
8mm



3

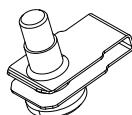
Hex nuts
M8-N



● Installation of guard plate and replacement parts for grille

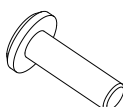
4

Protective plate screws,
nuts and fasteners
M6



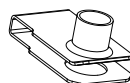
5

Pan head socket screws
M6X20



6

M6 Standard Quick Clip Nut
M6



● Front bumper body installation + license plate installation + winch bracket installation

7

Large washers,
Class A and C
10X30mm



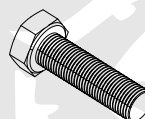
8

Heavy-duty spring washers
10mm



9

Hex head bolts
M10X35-S



10

Hex nuts
M10-N



● Beam head reinforcement and trailer hook installation

11

Hex nuts
M10-N



■ PARTS 2

• LED light installation

12

Hexagonal flange nut

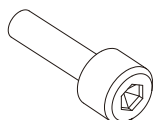
M5-N



13

Hex socket head cap screws

M5X25-S



• Beam head reinforcement and trailer hook installation

14

Large washers,
Class A and C

12X12mm



15

Lightweight spring washers

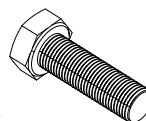
12mm



16

Hex head bolts

M12X40-S



17

Hex nuts

M12-N



18

Large washers,
Class A and C

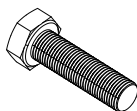
8X12mm



19

Hex head bolts

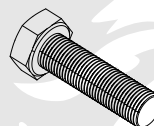
M8X60-S



20

Hex head bolts

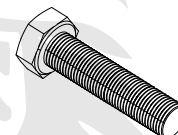
M12X60-S



21

Hex head bolts

M12X100-S



• Installation of replacement parts for the central grille

22

Large washers,
Class A and C

6X12mm



23

Lightweight spring washers

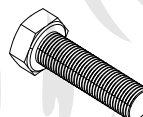
6mm



24

Hex head bolts

M6X30-S



25

Hex nuts

M6-N



STEP 1

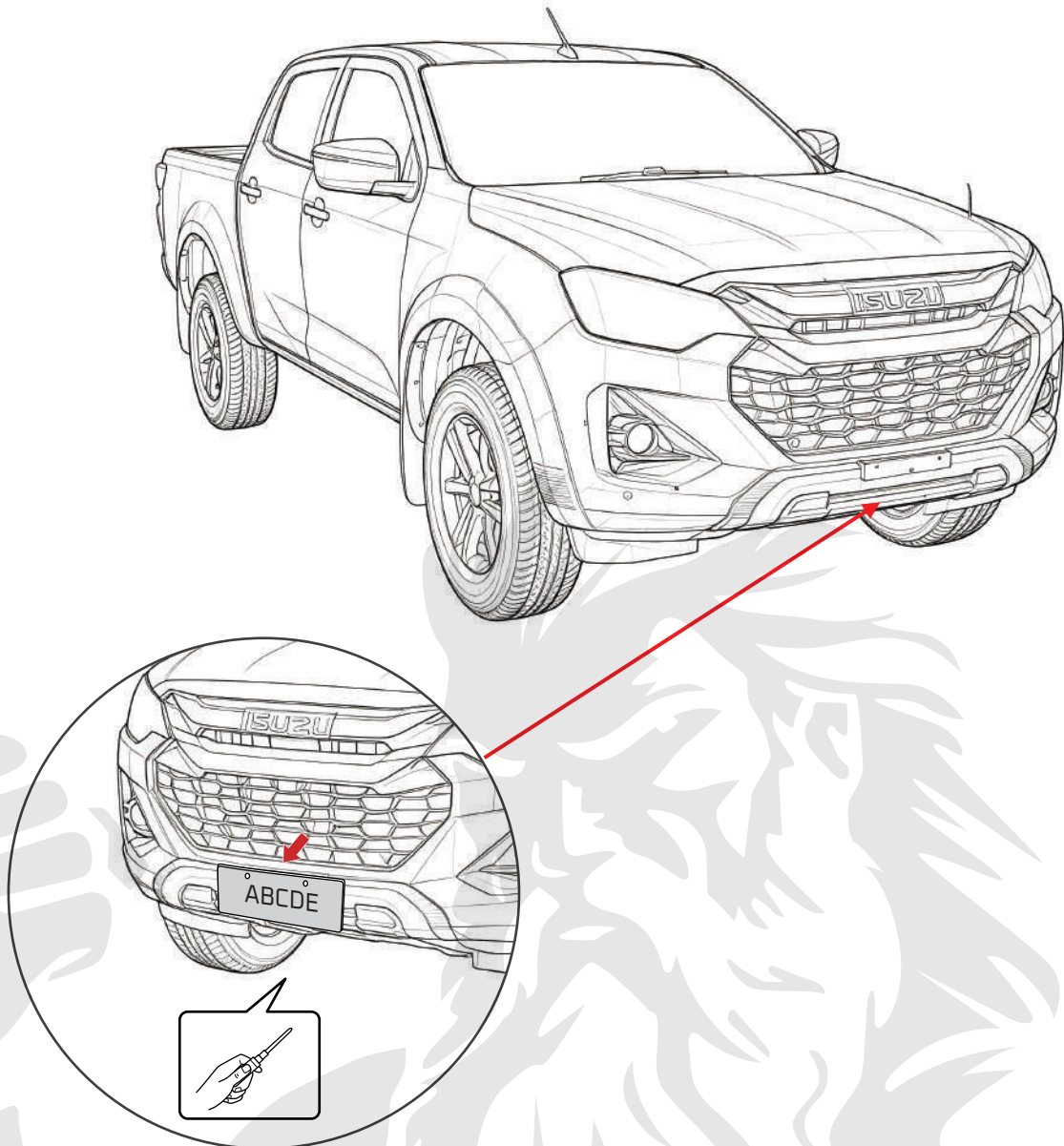
⚠ WARNING:

Do not attempt to turn on and move the vehicle while the radars, sensors and camera are disconnected. Do not drop or impact any of these parts. Failure to do so may cause sensor malfunction that can only be rectified by BYD.

HIGH VOLTAGE WARNING:

This vehicle has a high voltage (HV) system. When working in the engine bay for installing accessories, do not touch any of the orange coloured HV components or cabling. Electric shock may cause serious or even life threatening injuries.

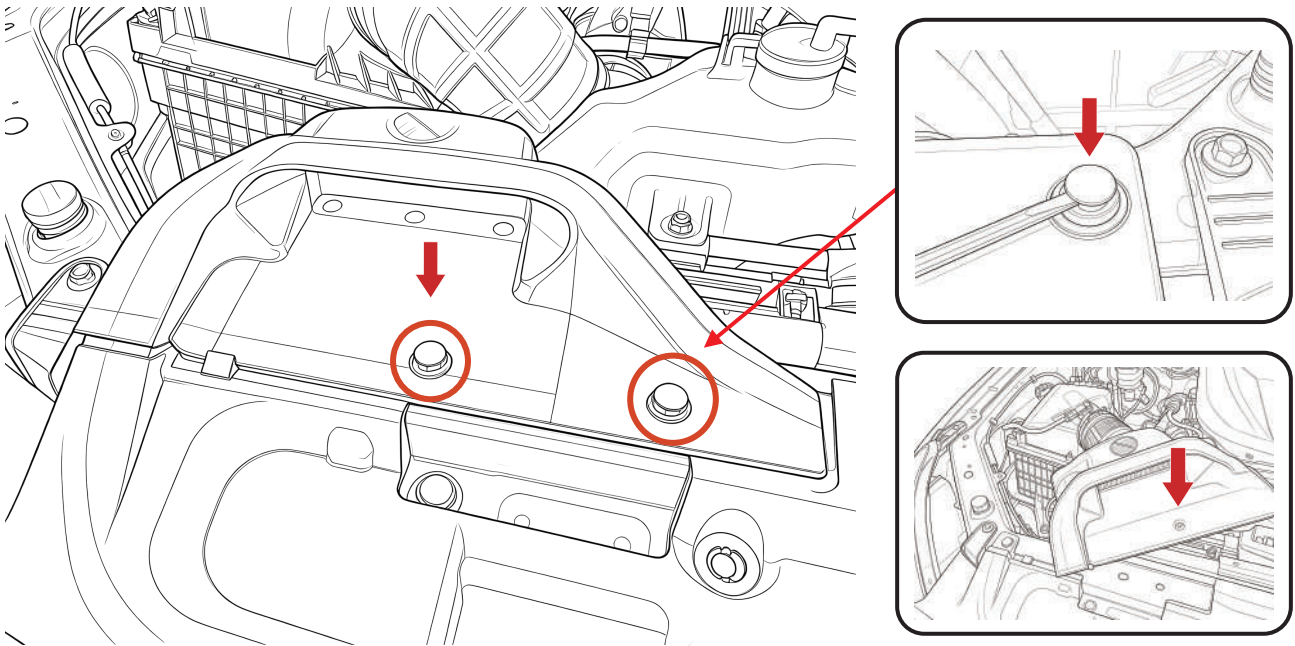
- 1. Remove number plate from bumper and set aside.
- 2. Open the bonnet by pulling twice on the lever under the steering wheel on the driver's side.



04 DISASSEMBLY STEPS

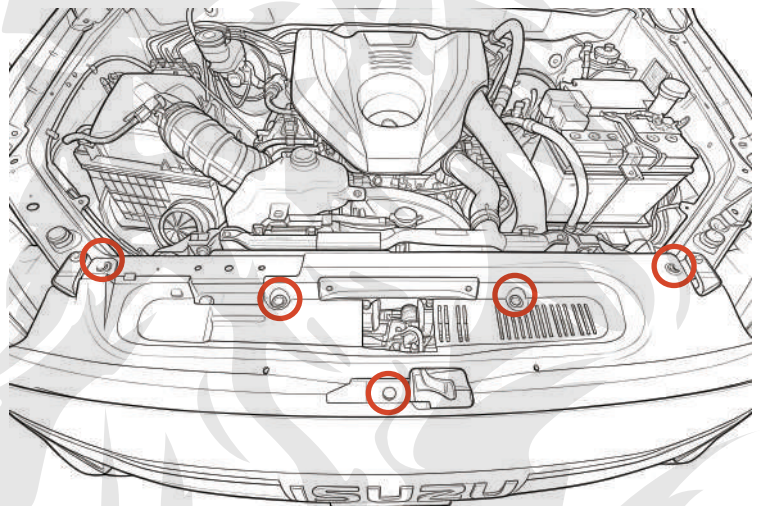
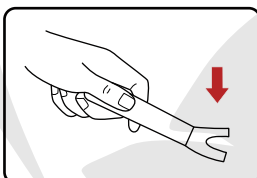
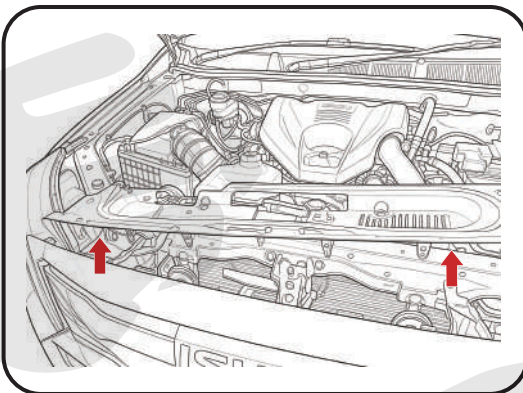
STEP 2

- 1. Open the Bonnet.
2. Remove 2x plastic push clips holding the factory air intake scoop. To remove each push clip, lever the centre section upwards using a flat blade screwdriver or trim tool, as shown. Retain these clips.
3. Remove the factory air intake scoop and set aside. Take care not to drop anything into the intake.



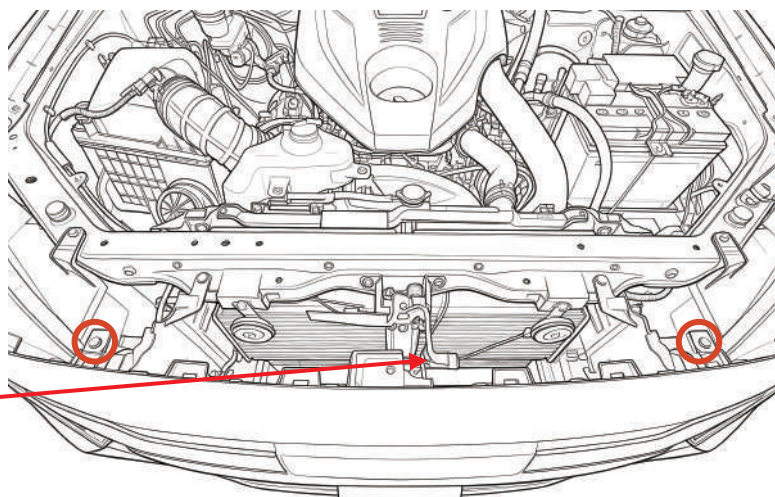
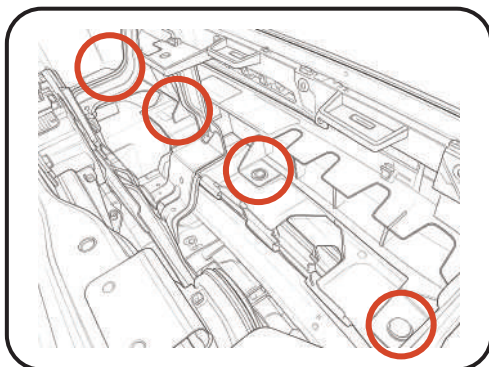
STEP 3

- 1. Remove 5x plastic push clips holding the radiator grille cover. Retain these clips.
2. Pull upwards to remove the radiator grille cover and set aside.



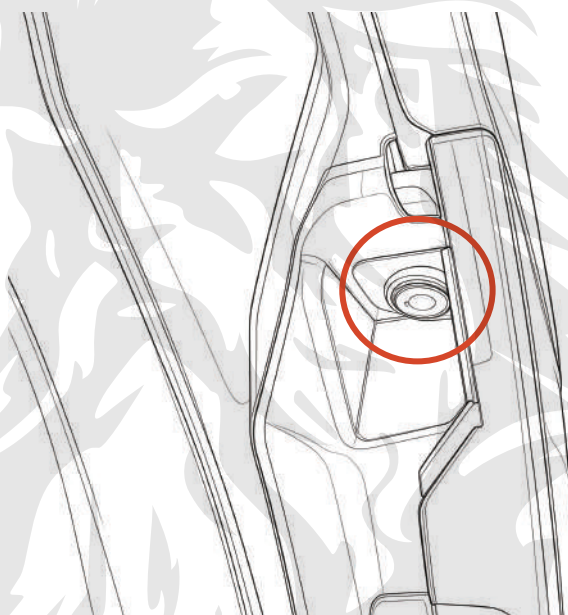
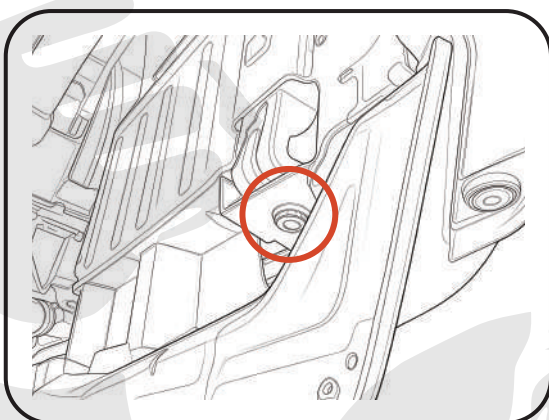
STEP 4

- Remove 6x plastic push clips holding the grille. There are 2x clips on the top edge, and 4x clips on the cross member on the inside of the grille.



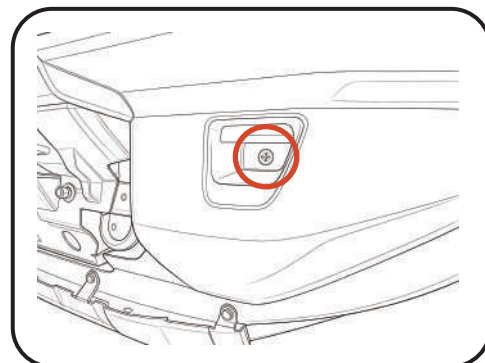
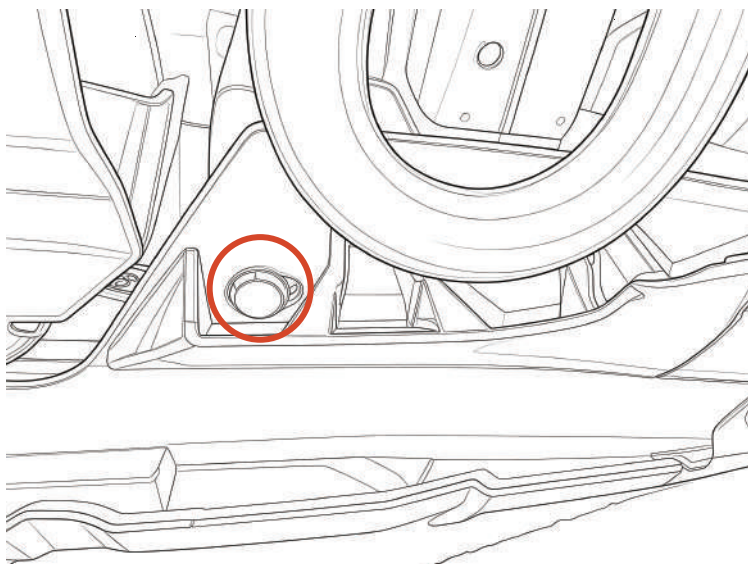
STEP 5

-
1. On each side of the vehicle, remove 1x plastic push clip holding the end corner of the bumper to the quarter panel.
 2. On each side at the bottom of the front wheel arch liner, remove 1x plastic push clip holding the bottom of the bumper to the outer support bracket (see bottom left inset)



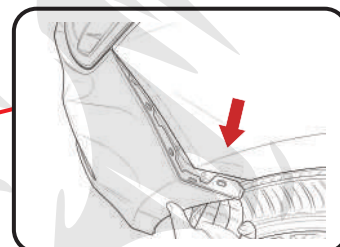
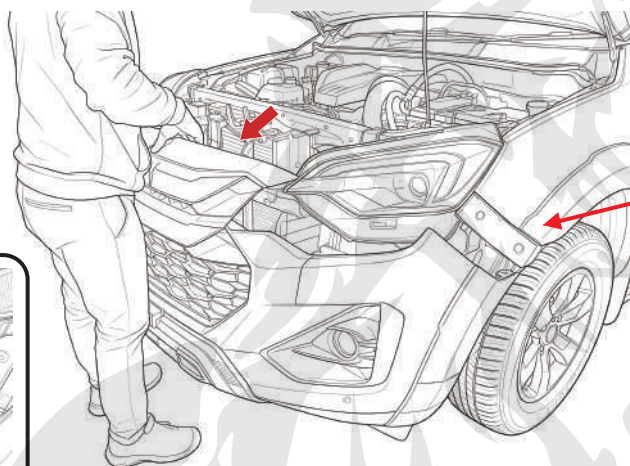
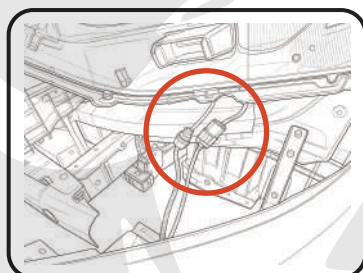
STEP 6

- 1. On the underside of the bumper, remove 2x plastic push clips holding the bumper to the inner support brackets. These are located near where the factory tie down hooks are.
- 2. On the underside of the bumper, remove 2x 10mm flange nuts holding the bumper to the wheel arch liner.



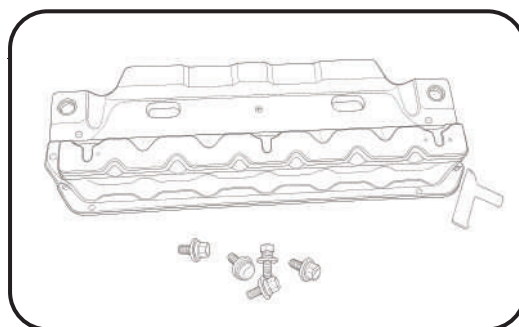
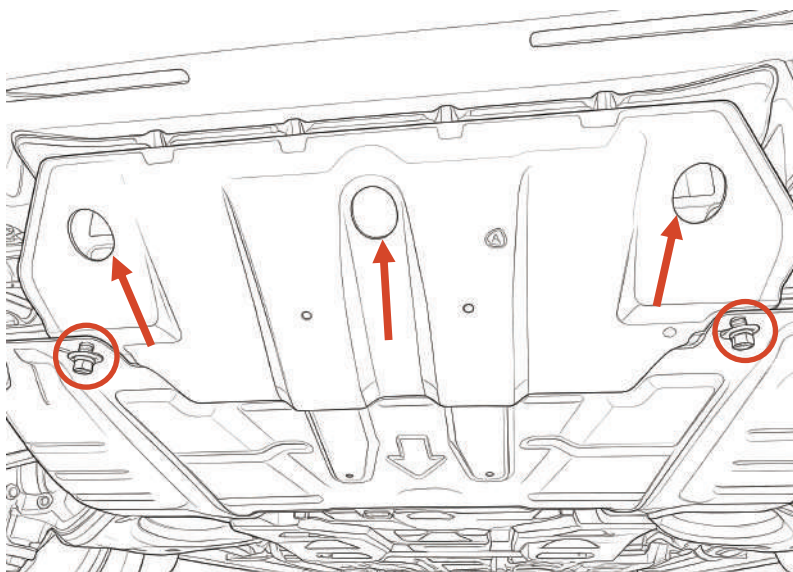
STEP 7

- 1. Release the bumper clips by pulling the bumper away and outwards from outer corners, starting from the outside and working in.
- 2. When bumper is loose, reach in and disconnect the bumper harness connectors (either 1x or 2x) located under the left-hand headlight.
- 3. Fully remove the bumper from car and set aside.



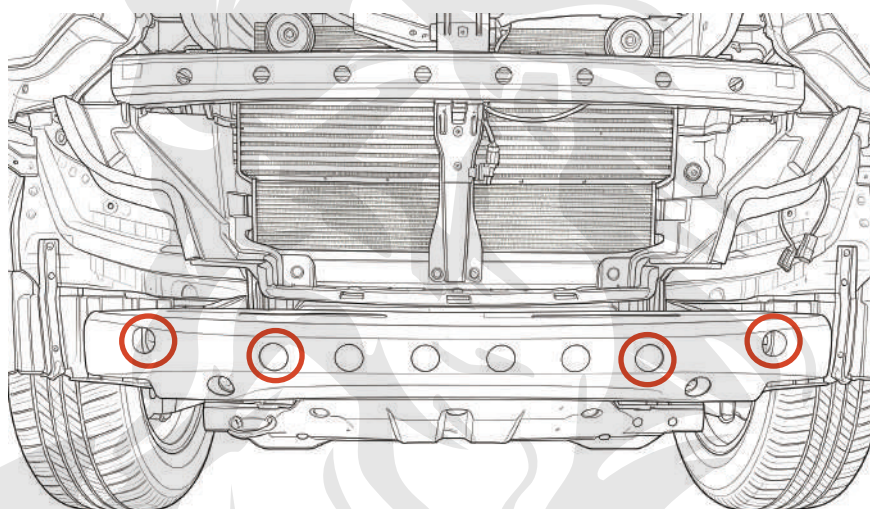
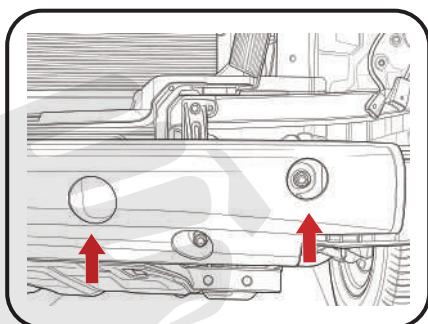
STEP 8

- Remove the front skid plate by removing the 5x 14mm hex bolts securing it to the chassis. Retain the bolts for use later.
Note 3x bolts are recessed into the skid plate, as shown with arrows.



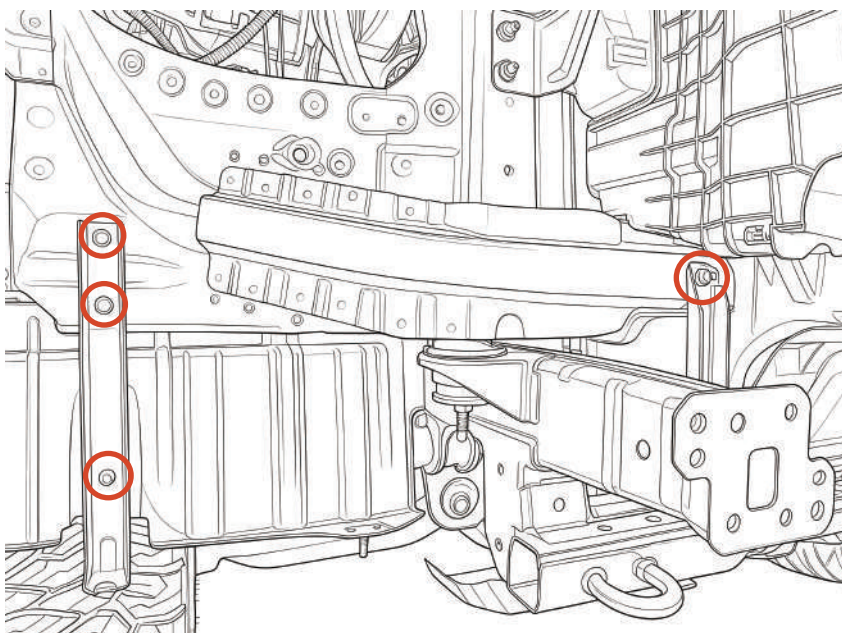
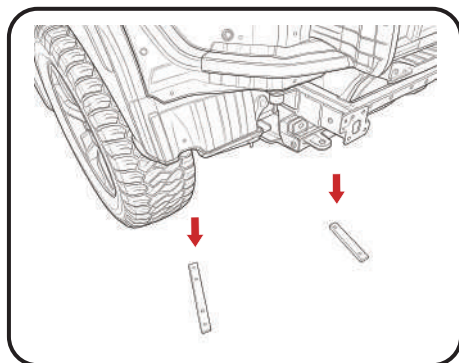
STEP 9

- 1. Remove the 4x 14mm hex bolts securing the impact beam to the chassis.
2. Remove and discard the impact beam. Retain bolts for fitting of mounts.



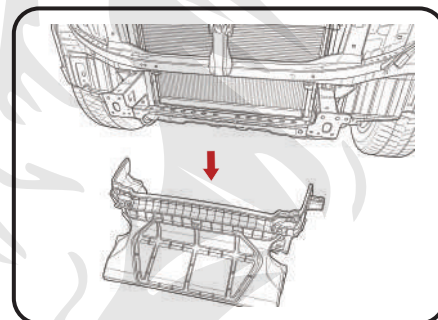
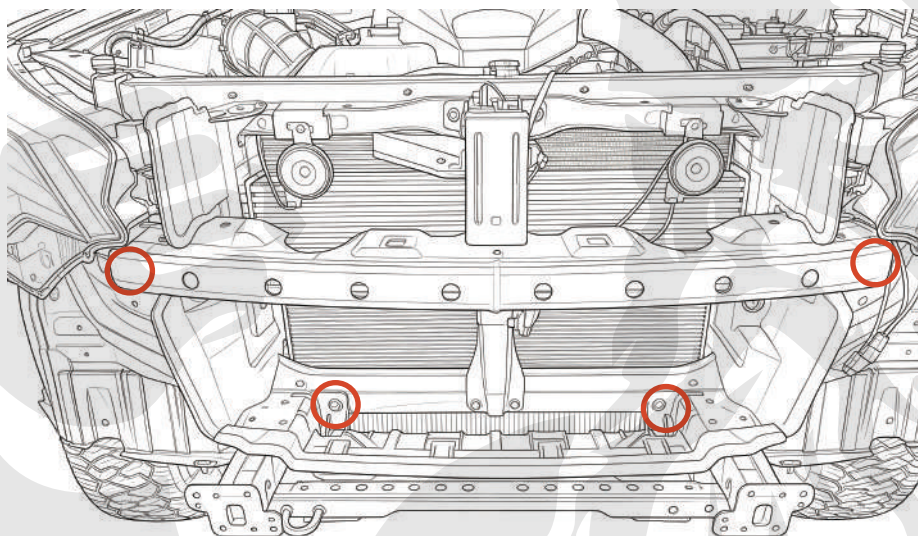
STEP 10

- 1. Remove the 3x 10mm hex bolts securing each outer bumper support bracket.
- 2. Remove the 1x 10mm hex bolt securing each inner bumper support bracket.
- 3. Remove and discard the bumper supports.



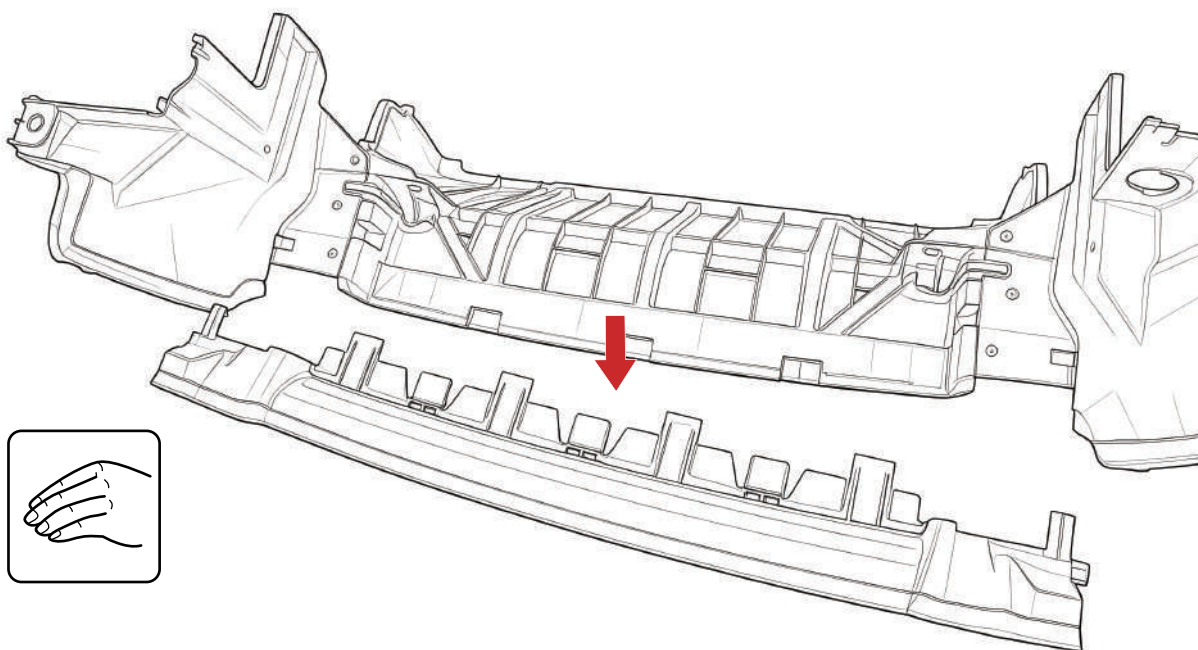
STEP 11

- Remove the 4x plastic push clips holding the lower plastic air guide.



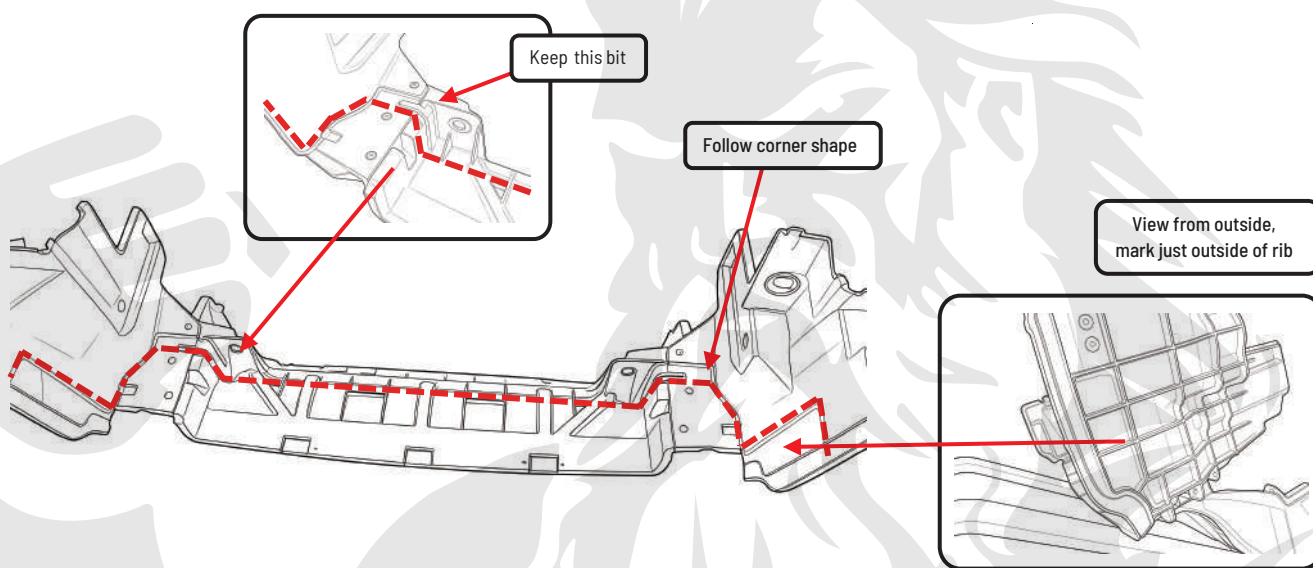
STEP 12

- Unclip the front plastic lip from the air guide and discard.



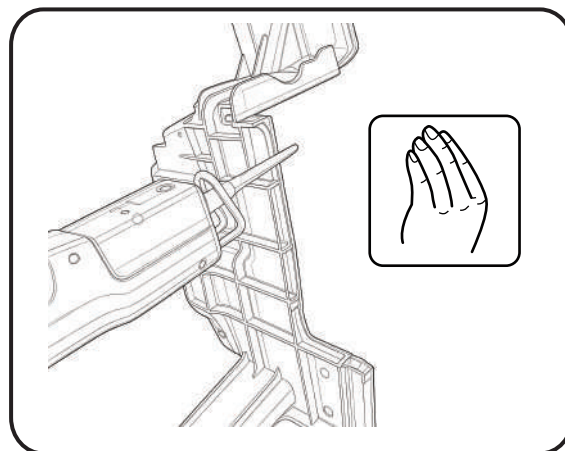
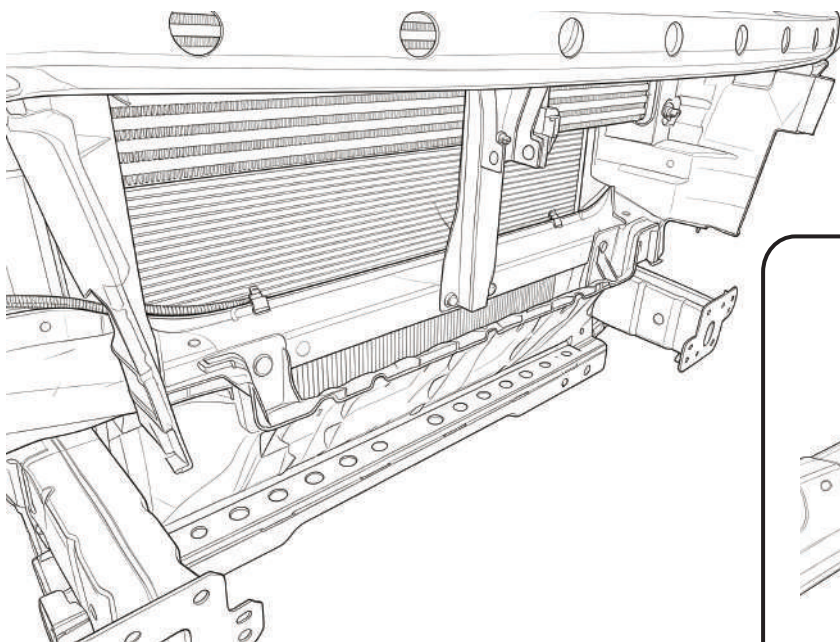
STEP 13

- Use a marker pen and mark a cut line on the air guide, as shown).



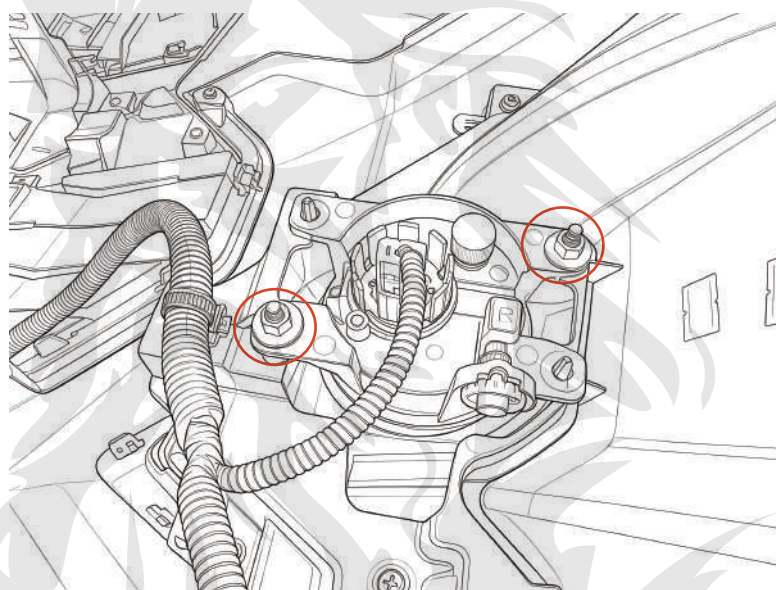
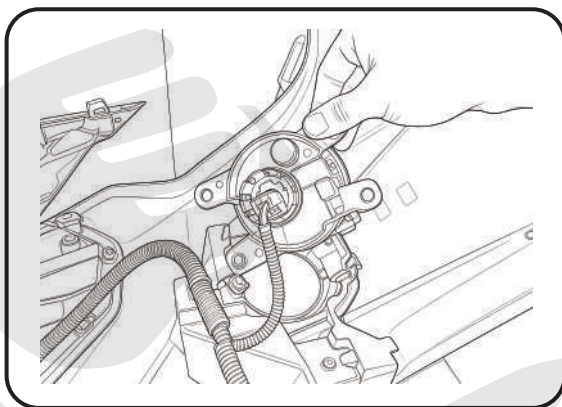
STEP 14

- 1. Trim the plastic air guide along the marking. Deburr any sharp edges.
- 2. Discard the front section, then refit the trimmed air guide back onto the vehicle with the same 4x push clips.



STEP 15

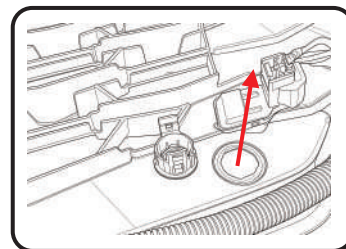
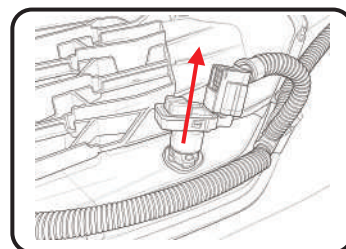
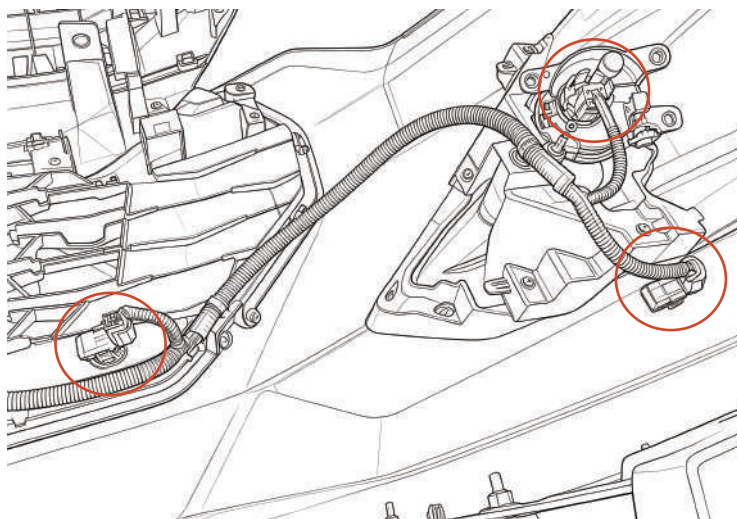
- If equipped, remove 2x 10mm flange nuts securing each fog light on the back of the bumper.



04 **DISASSEMBLY STEPS**

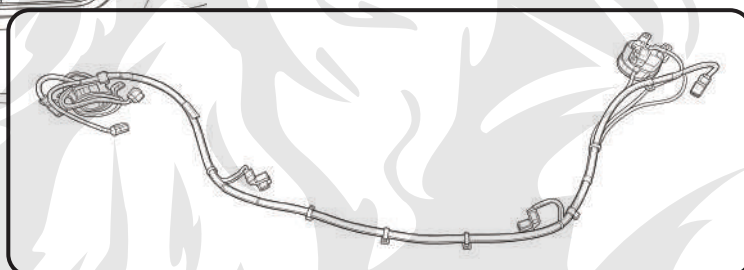
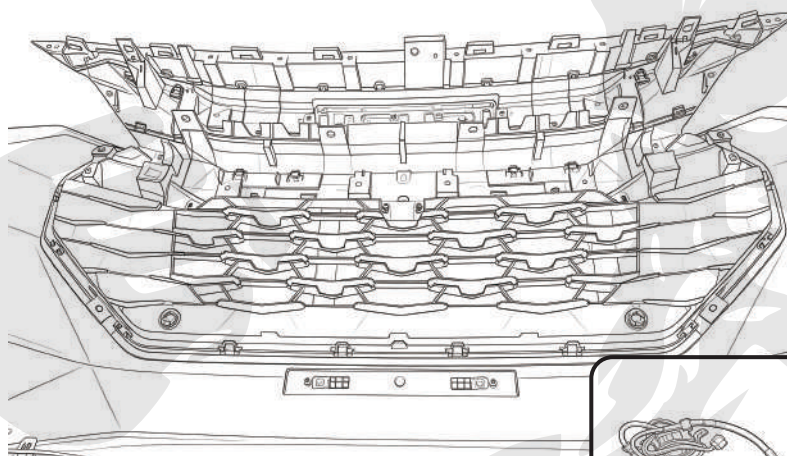
STEP 16

- 1. If equipped, take note of the orientation of all 4x parking sensors. The plugs should all be pointing outwards to the side of the vehicle.
- 2. Spread open the tabs on the plastic sensor holder and unclip each parking sensor.
- 3. Press down on the tabs on the sensor holders and remove them from the bumper. Keep track of the sensor holder orientation.
- 4. Re-fit the sensor holders back onto the parking sensors in the same original orientation.



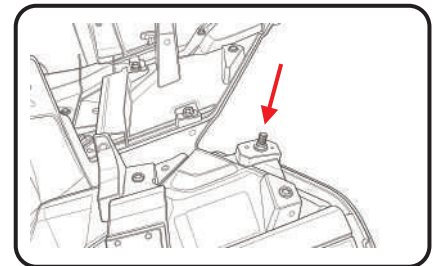
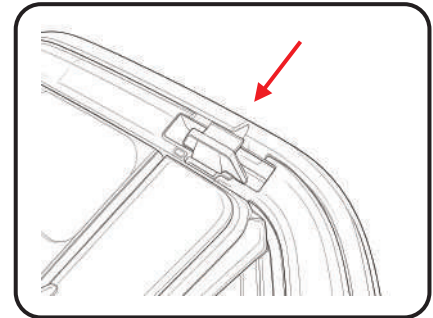
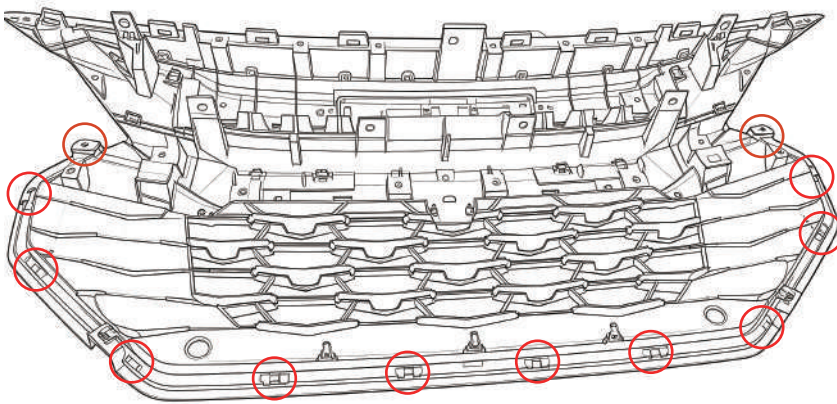
STEP 17

- Unclip and strip the entire harness from the bumper and set aside.



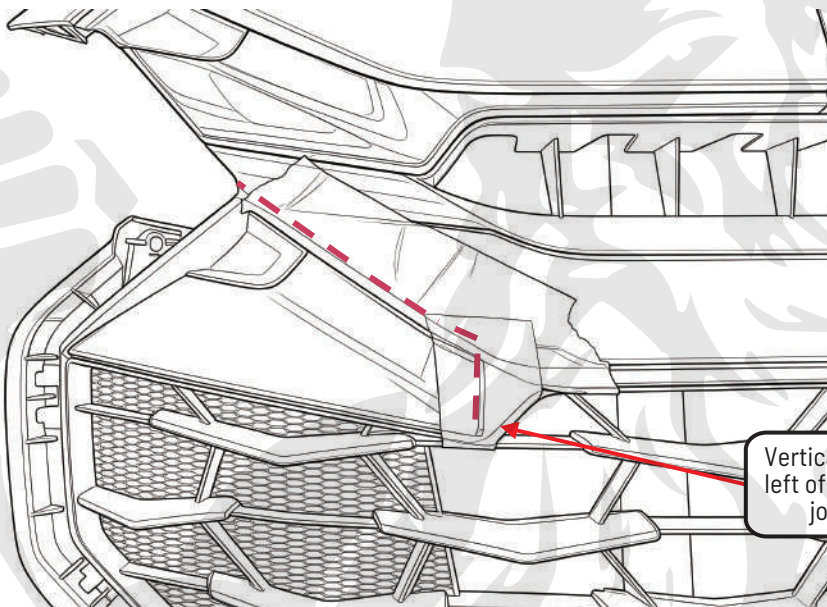
STEP 18

- 1. Remove 2x Phillips head screws securing the back of the grille to the bumper.
- 2. Then use a flat blade screwdriver or similar and release all 10x plastic tabs around the outside of the grille securing it to the bumper.
- 3. Start from one end and work all the way around until the grille is separated. Discard the bumper.



STEP 19

- 1. Apply masking tape onto the outside of the grille as shown.
- 2. Use a marker pen and mark a cut line as shown.
- 3. Repeat for the other side

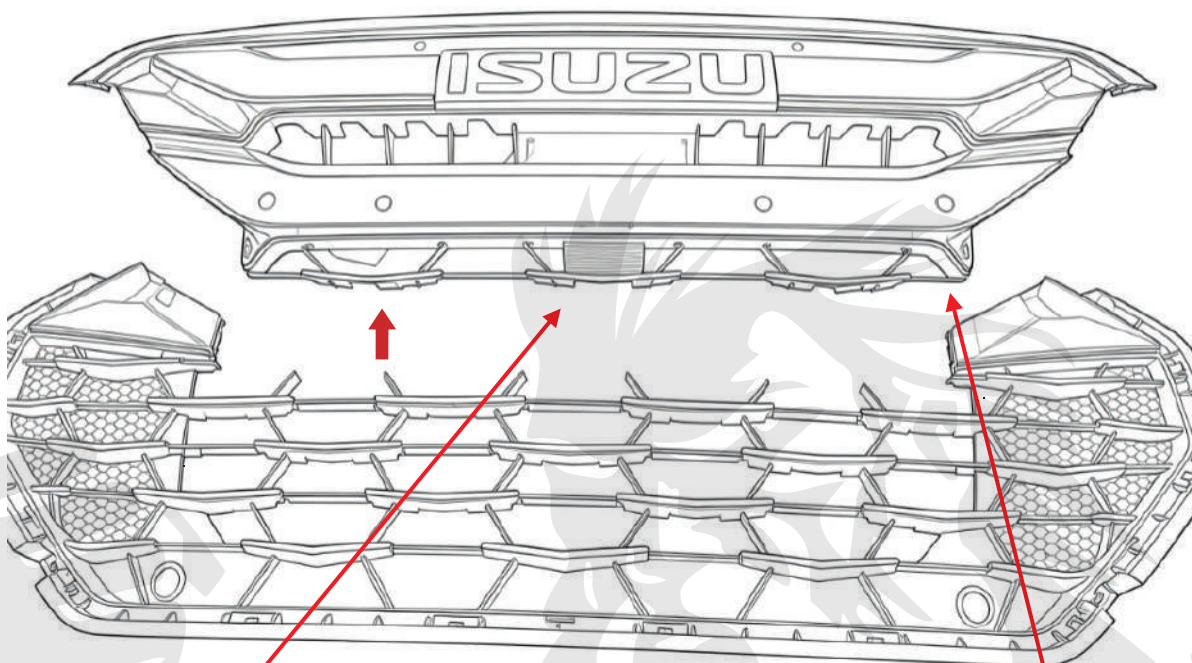
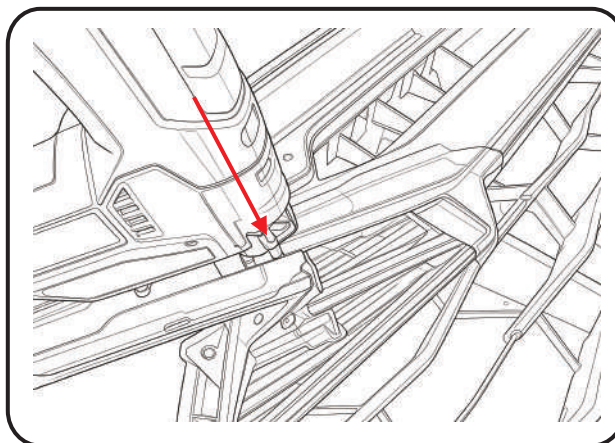


Vertical line, terminating 5mm left of where the mesh section joins the main grille

STEP 20

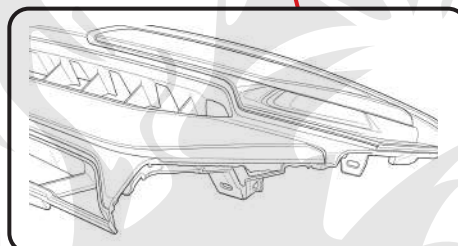


- 1. Trim the grille along the marked cut line.
- 2. Trim as close as possible to the edge of the painted section to get a flush cut face.
- 3. Trim horizontally along the grille, just below the first horizontal mesh section.
- 4. Discard the lower section of the grille.



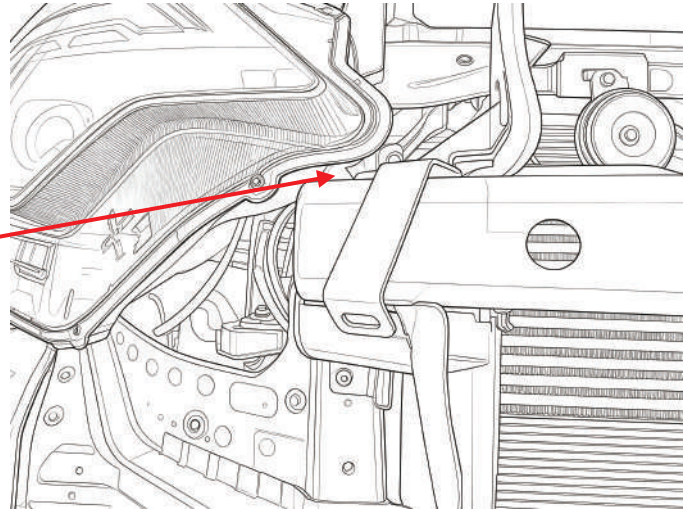
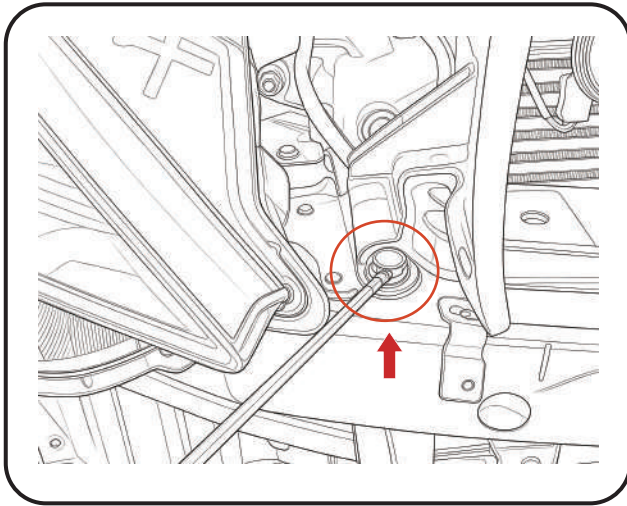
Trim just below the first horizontal mesh section

Trim flush as close as possible to the edge of the painted section



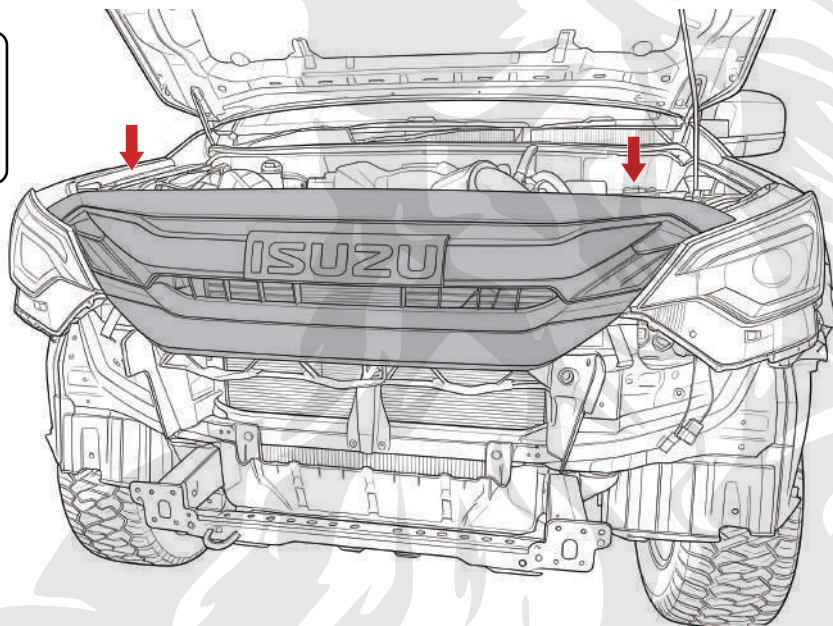
STEP 21

- 1. Remove the 1x plastic push clip holding the upper air guide.
- 2. Fit the B-1296 grille infill brace over the air guide and re-secure using the same plastic push clip.
- 3. Orient the brace in the position as shown above, then repeat for other side.



STEP 22

- Re-fit the grille, radiator grille cover and factory air intake scoop to the vehicle. Secure using original plastic push clips.





IMPORTANT NOTE:

To ensure the parking sensors function correctly, these instructions must be strictly followed.

- Before removing the sensors from the original bumper, note the position and orientation of each one so that their original placement can be replicated when installing the new bumper.
- Do not paint the parking sensors. These sensors are precision components of the vehicle's safety system; the central "eye" of the sensor is responsible for detecting objects within a specific range.
- While painting the sensors will not damage them, it can impair their ability to detect surrounding objects, leading to malfunctions or premature detection alerts. Parking sensors should ideally be painted only once, by the original equipment manufacturer (OEM).
- We strongly recommend against color-coding the parking sensors when installing the bumper, as an excessively thick layer of paint can interfere with the proper operation of the parking aid system.

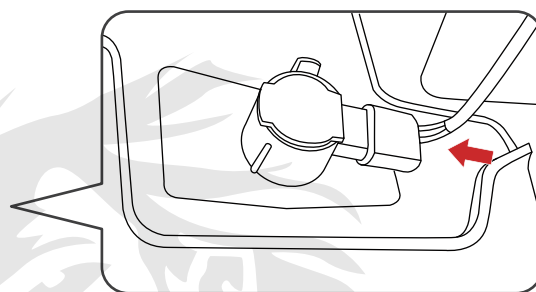
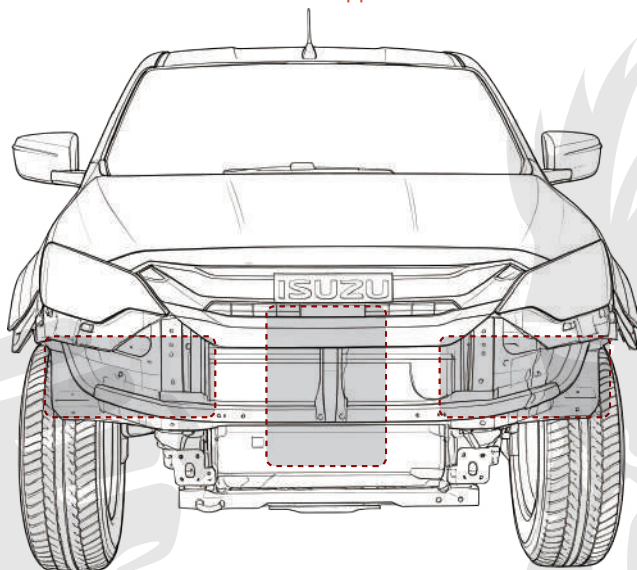
STEP 1

- Disconnect the parking sensors from the previously removed original bumper, release the retaining clips, and carefully set the sensors aside for transfer to the impact bar.

1. Mark the position and orientation on the back of each front-side radar sensor.
2. Disconnect the wiring and carefully remove the three screws securing each sensor, then detach them from the factory bumper.
3. Carefully remove the radar sensors and set them aside for transfer to the new bumper.

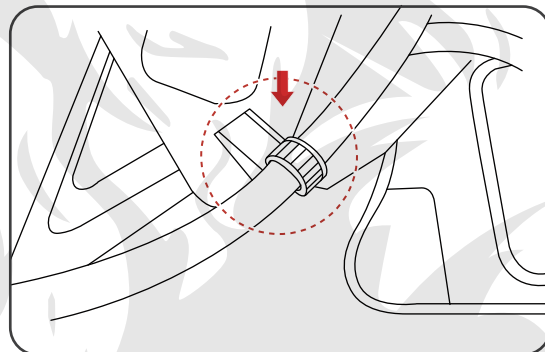
Note: Pay attention to the positional sequence and orientation of each sensor to ensure they are reinstalled in the bumper using the same configuration.

Note: Ensure the radar unit is not dropped, as this could cause damage or malfunction.



-
1. Carefully remove the clips securing the original sensor and radar wiring harness to the lower part of the bumper, detaching the clips from the harness as you proceed.
 2. There is no need to detach or remove the wiring harness from the grille section; leave it attached and in place.

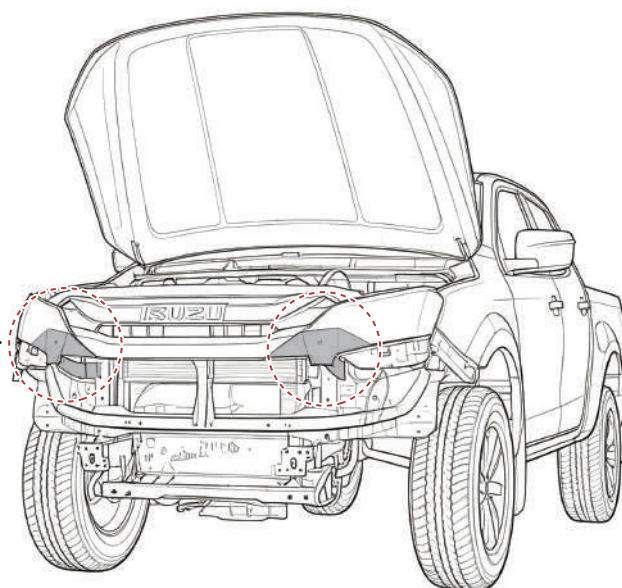
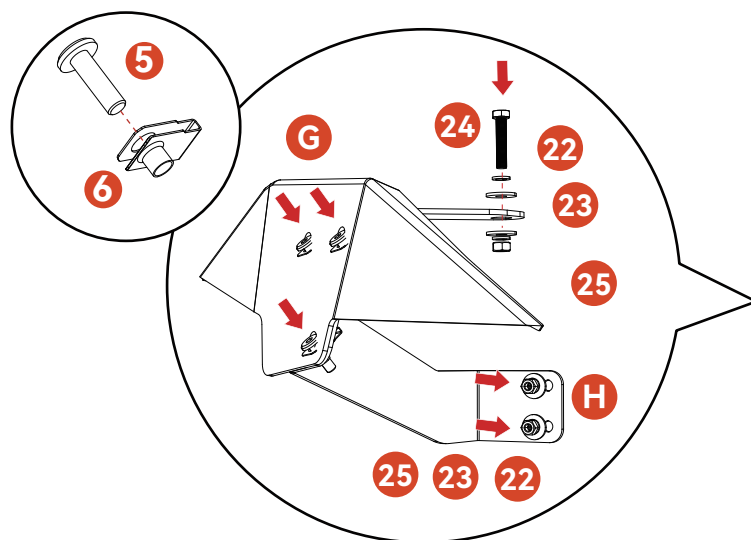
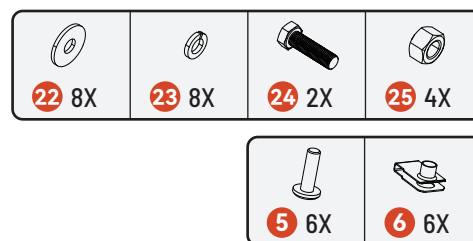
Note: Do not use force or pull, to avoid damaging the wiring harness.



05 INSTALLATION STEPS

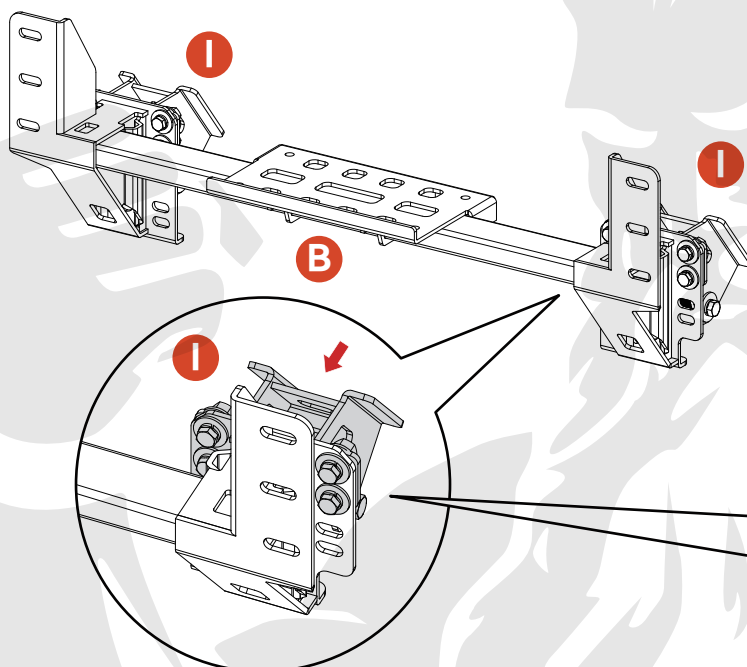
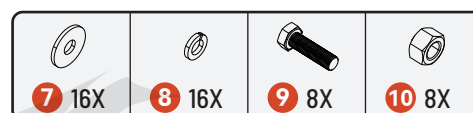
STEP 2

- 1. First, attach the replacement grille component using the speed clips and screws, then install the entire assembly onto the vehicle's grille location.
2. Align the mounting holes with the corresponding points on the vehicle's front grille area and secure it using M6x30mm hex bolts.



STEP 3

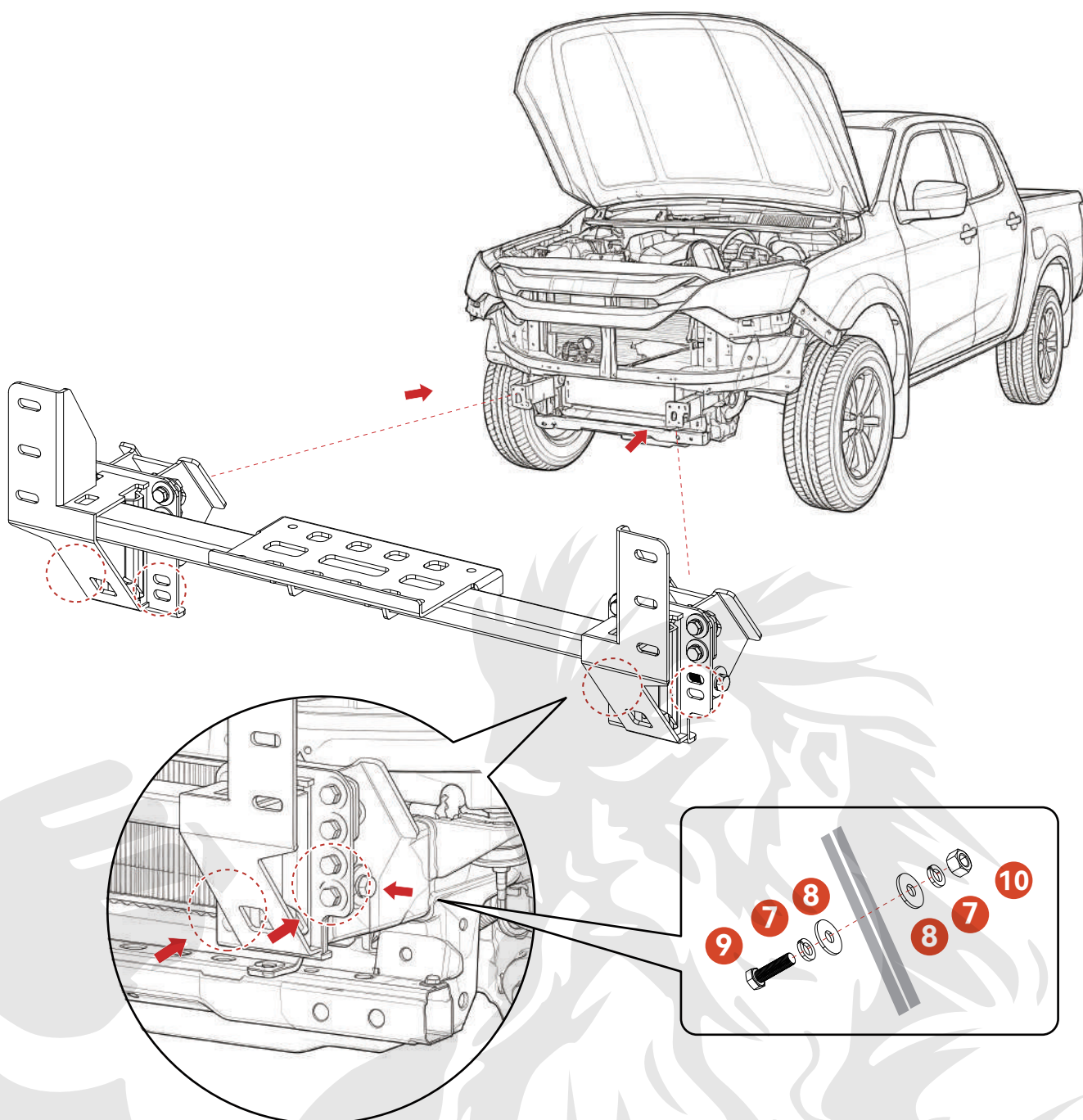
- 1. First, install the beam-end mounting brackets.
2. Align the mounting holes at the connection point and secure them using M12x40mm hex bolts.



STEP 4

- 1. Install the winch bracket, aligning the mounting holes with those on the vehicle frame.
2. Secure the lower corner holes using M12x40mm hex-head bolts.

			
7 20X	8 20X	9 10X	10 10X

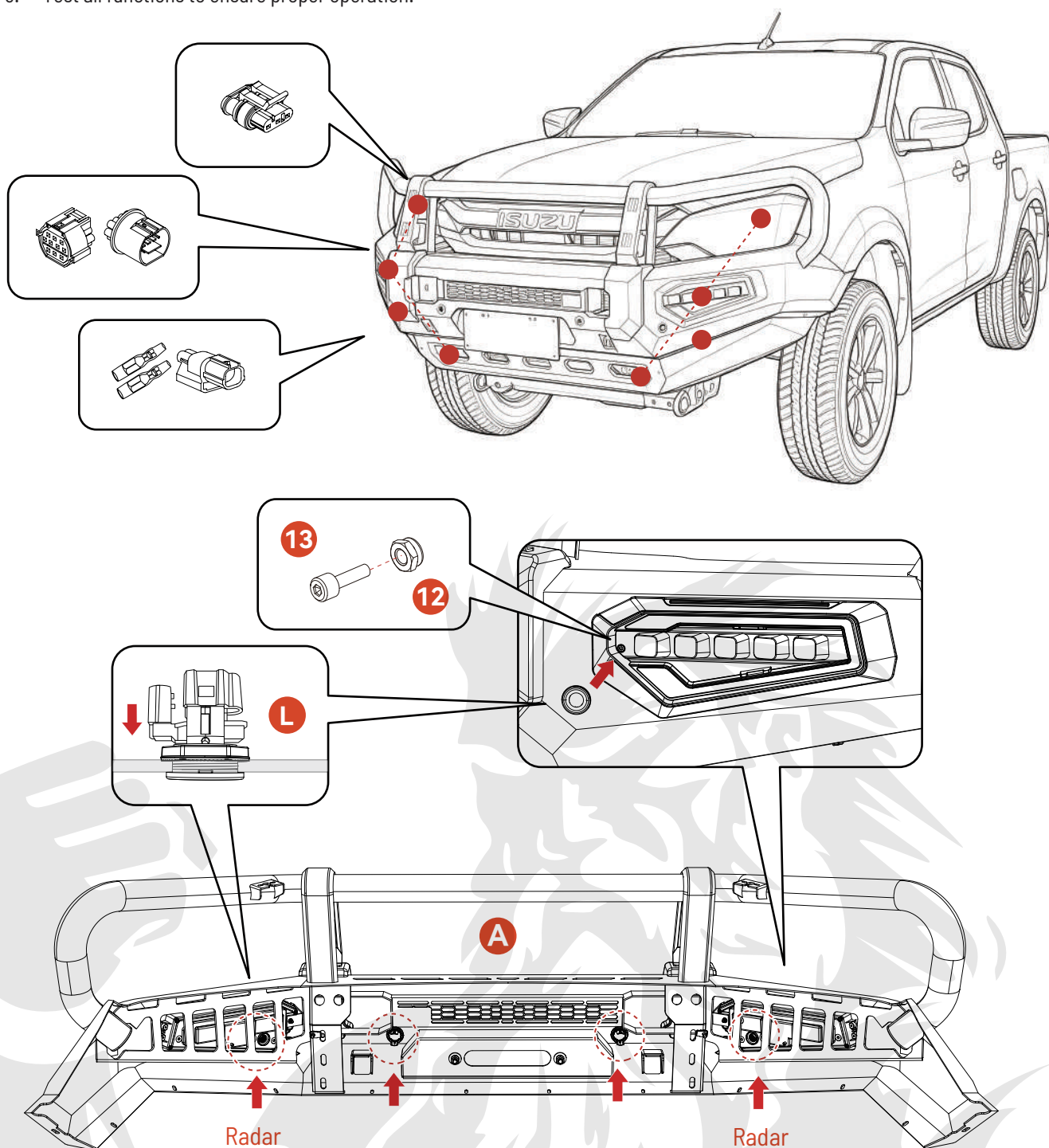


05 INSTALLATION STEPS

STEP 5



1. Install, secure, and wire the light.
2. Insert the radar, radar extension, and camera into the factory wiring channel.
3. Secure the radar bracket by tightening the nuts.
4. Use cable ties to fasten all wiring and cables to the mounting clips.
5. Test all functions to ensure proper operation.



05 INSTALLATION STEPS

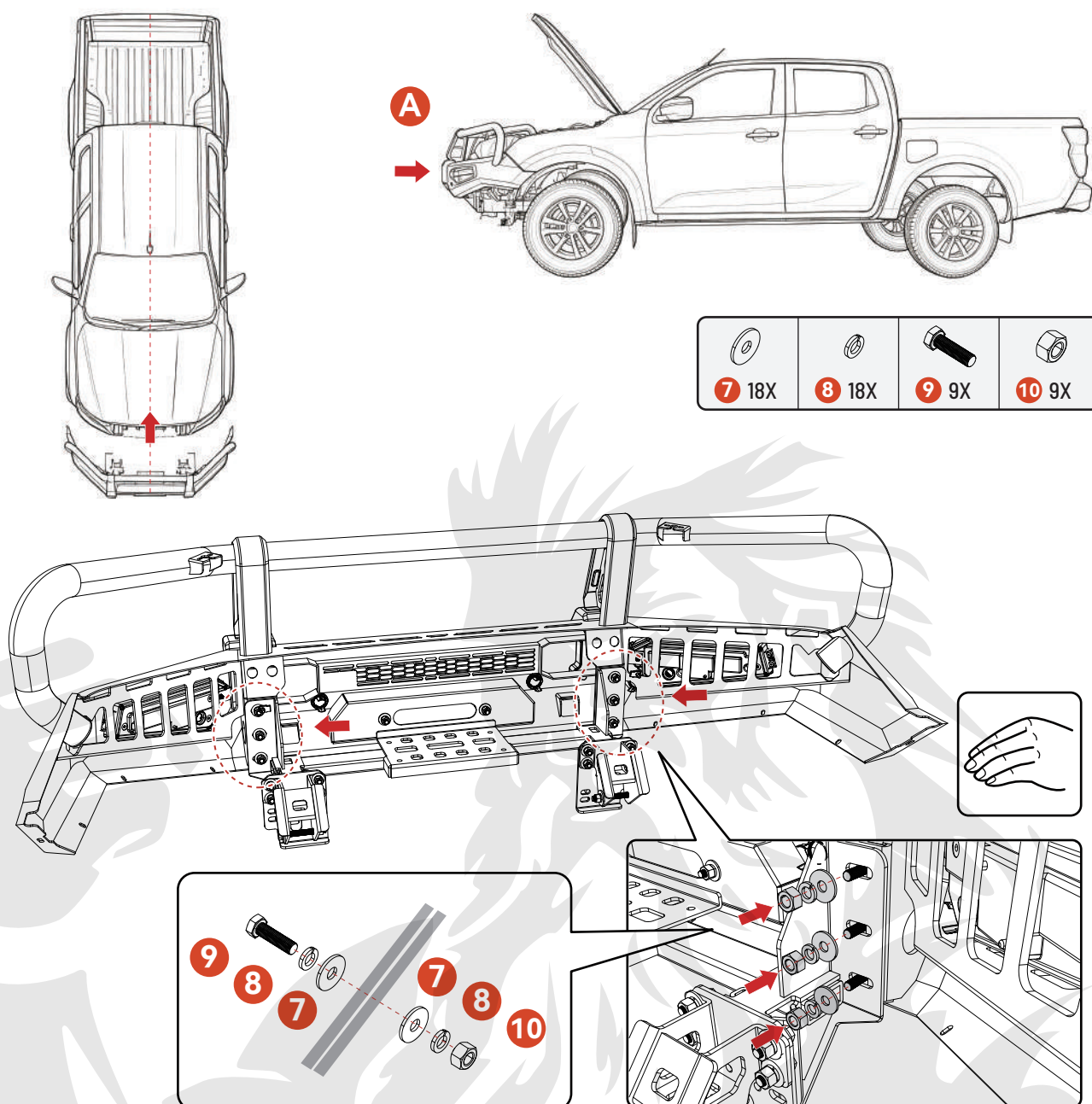
STEP 6



- 1. Position the vehicle on the ground or on a four-post lift, raise the bumper to the correct height, and align the side wing panels with the chassis mounting holes.
2. Secure the main bumper assembly to the fenders and brackets using fully threaded M10x35mm hex-head bolts.
3. Repeat the same steps on the other side.
4. Center the bumper with the vehicle body and lift the lower bolts on both sides to adjust it to the correct position.

Note: Leave a gap of approximately 25 mm between the bumper and the bumper wing. This allows for chassis flex and prevents contact between the body panels and the bumper.

Warning: Unless a bumper lift assist tool is used, it is recommended that two people perform this task to avoid personal injury or damage to the vehicle and/or components.

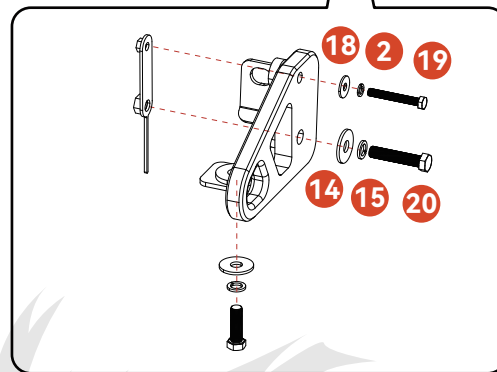
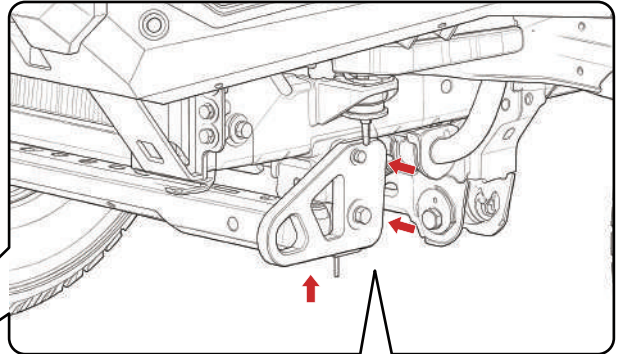
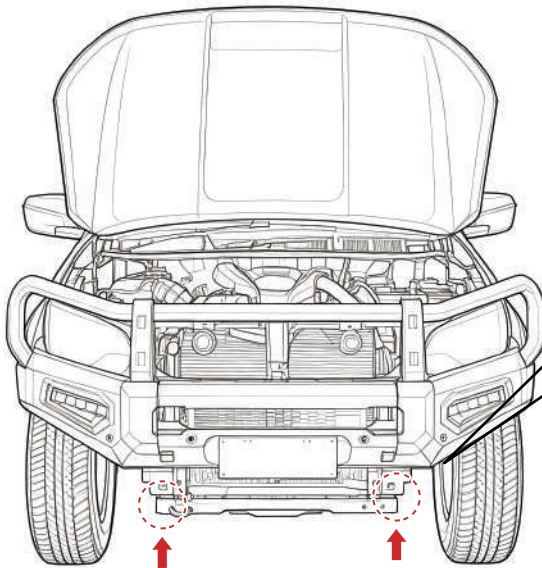


05 INSTALLATION STEPS



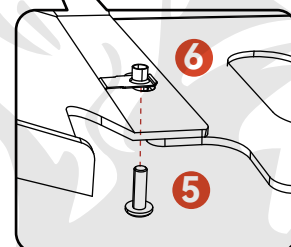
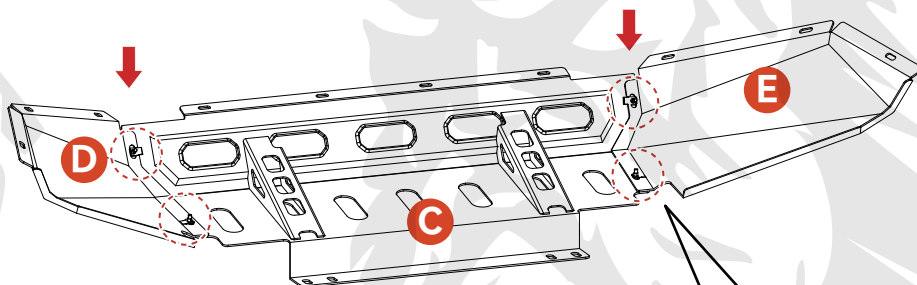
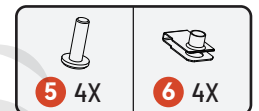
STEP 7

- 1. Install the tow hook, aligning the mounting holes.
2. Secure the bottom using bolts with washers.
3. Secure the side of the tow hook using M6x60mm and M12x60mm bolts with washers.



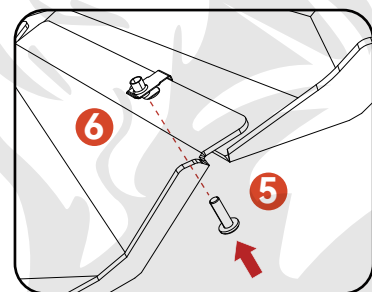
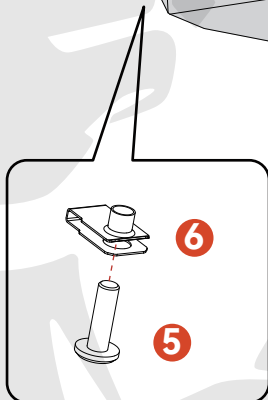
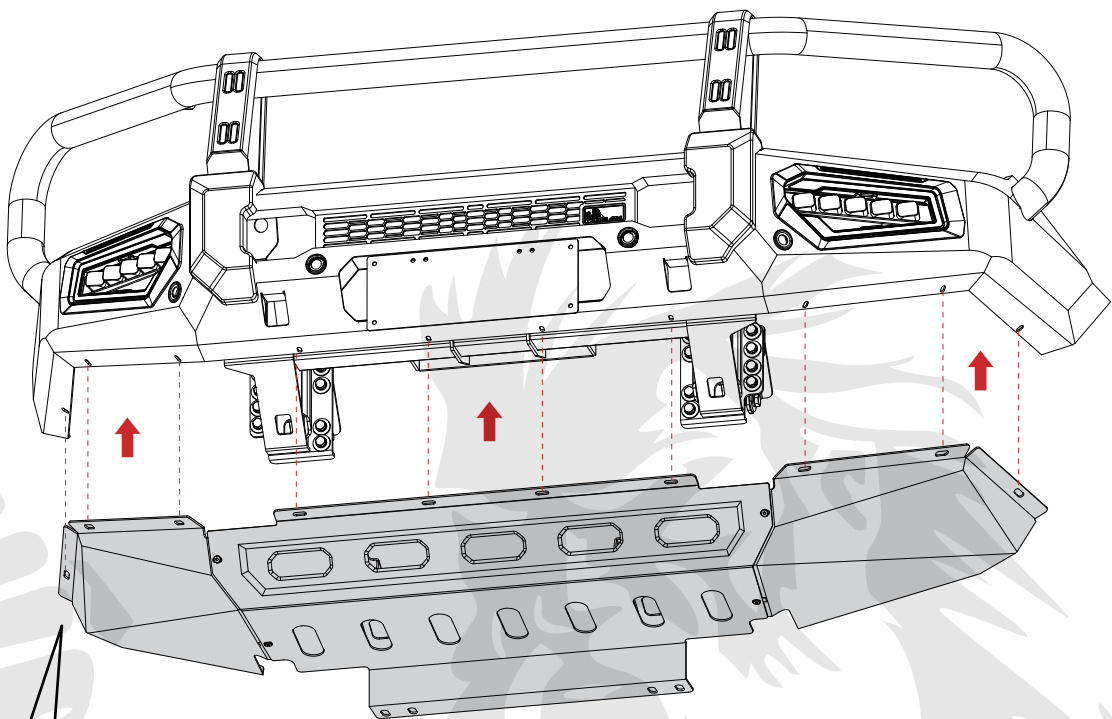
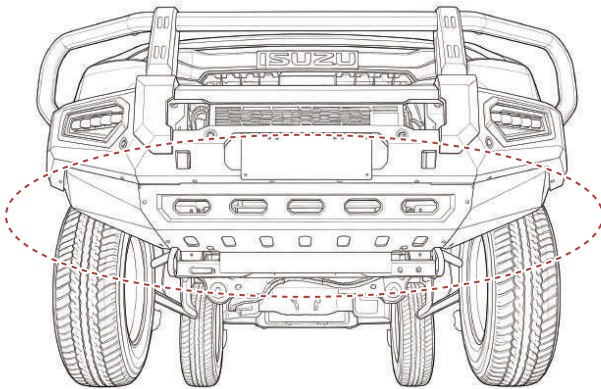
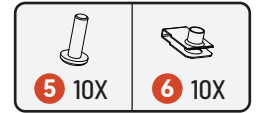
STEP 8

- 1. Install the skid plate, aligning the mounting holes at the connection points.
2. Secure the skid plate using M6x20mm bolts and clip nuts.



STEP 9

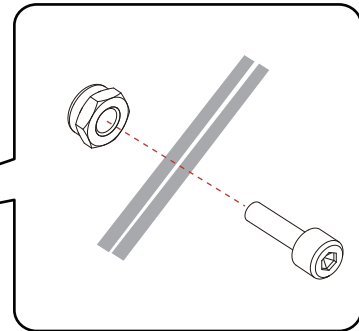
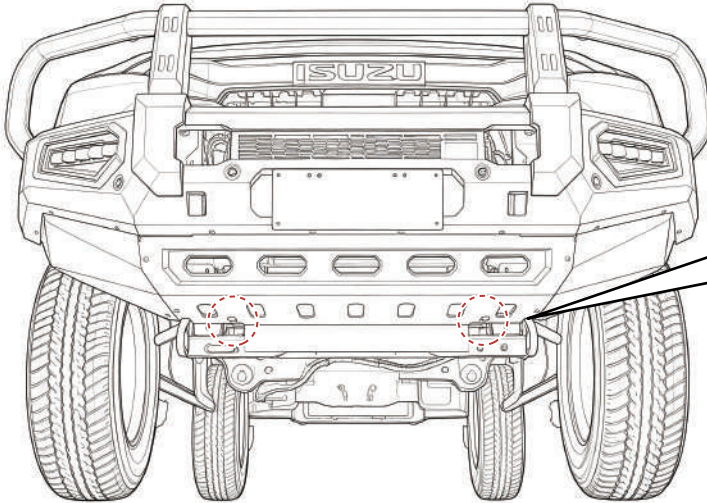
- 1. Install the skid plate by attaching it to the bottom of the front bumper's main welded assembly, ensuring the mounting holes are aligned.
2. Secure the skid plate using M6x20mm bolts and clip nuts.



05 INSTALLATION STEPS

STEP 10

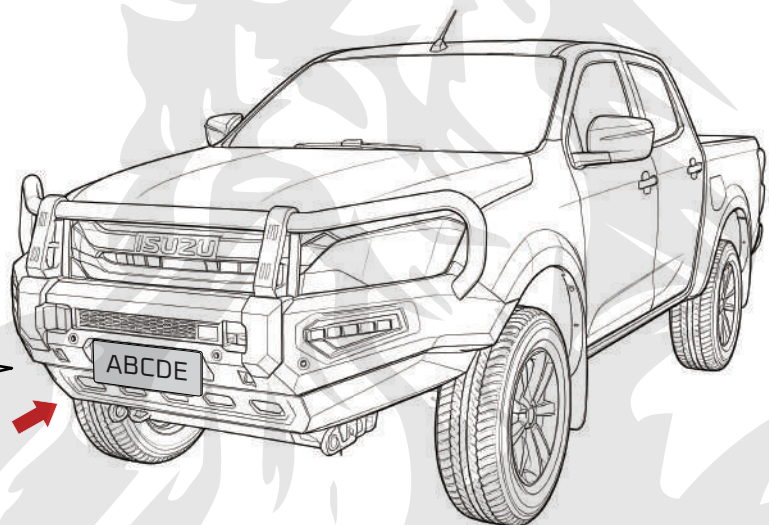
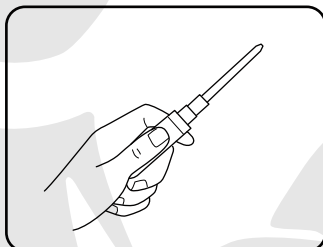
- 1. Align the mounting holes at the bottom of the skid plate and the bumper guard.
- 2. Secure the bottom section using the original vehicle screws.



STEP 11

- 1. Apply safety warning stickers to the left and right edges of the rescue point.
- 2. Apply safety warning stickers to the left and right edges of the rescue point.
- 3. Clean the recessed area for the badge.
- 4. Carefully attach the adhesive badge to the front of the crash bar.
- 5. Reinstall the license plate onto the flip bracket using the original bolts.

Note: Brand placement is important; ensure the brand badge is applied straight and adheres firmly to the surface of the bumper bar.



■ POST-ASSEMBLY INSPECTION



Structural fastening inspection: Confirm that the crash bar has been securely installed in the reserved holes on the main beam using the matching bolts, without any shaking or displacement.



Bolt torque verification: Use a torque wrench to verify that all bolts have reached the specified torque value (M12: 100-120 N.m, M14: 140-160 N.m) and that thread-locking adhesive has been applied.



Wiring harness securely secured: Check that all added wires are not exposed, do not come into contact with sharp edges, and are reliably secured with flame-retardant cable ties, and keep them away from high-temperature components such as exhaust pipes.



Safety warning stickers: Ensure that the ACC adaptive cruise control calibration reminder and rescue towing point marking stickers have been affixed as required to prevent damage caused by accidental operation by others.



Lighting function test: Check in sequence whether the turn signals, brake lights, side marker lights, and added fog lights/strip lights illuminate normally without flickering or error messages.



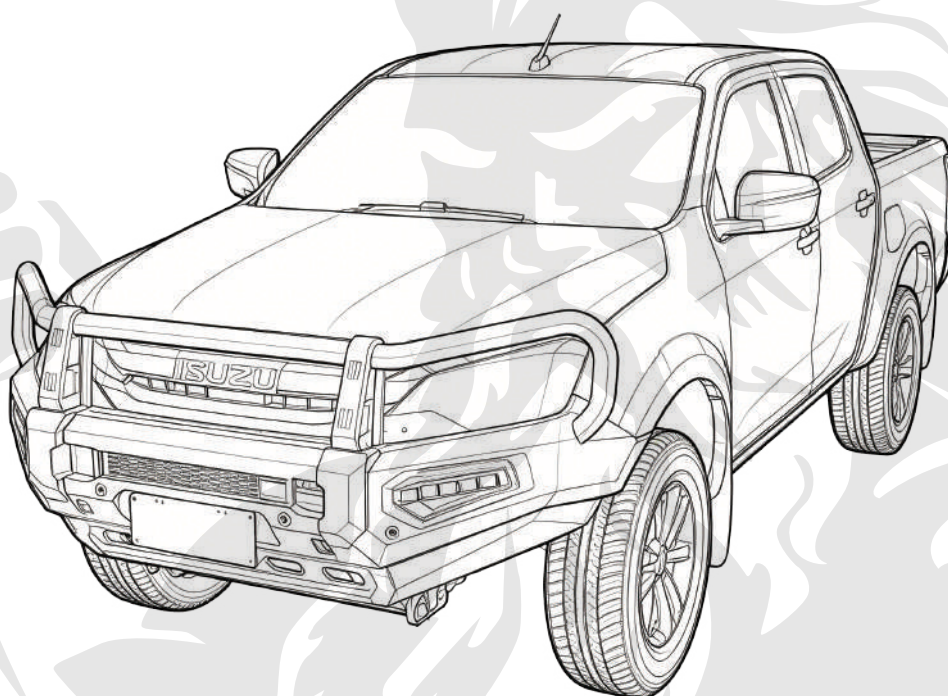
Sensor function verification: Test the working status of the reversing radar, parking sensor, and 360-degree panoramic front camera (if any) to confirm that there are no continuous false alarms and that the images are not obstructed or distorted.

■ MAINTENANCE RECOMMENDATIONS

- **Pre-departure inspection routine:** Before each long-distance or off-road trip, visually inspect the bullbar for any obvious deformation or cracks, and check if the bolt markings are misaligned.
- **Regular tightening and maintenance:** It is recommended to perform a full inspection every 10,000 kilometers (approximately 6,200 miles) and tighten all connecting bolts with a torque wrench.
- **Post-off-road inspection:** After heavy off-roading or a collision, immediately check whether the connection between the bar and the frame is deformed, whether the bolts are loose, and whether the sensors have shifted.
- **Rust prevention and cleaning:** Regularly clean the mud, sand and salt accumulated inside the bar body (especially in the de-icing agent area in winter), check the welds and bolts for rust, and spray rust inhibitor if necessary.



SYMPTOM	POSSIBLE CAUSE	SOLUTION
ACC adaptive cruise control unavailable or forward collision warning error	The front bullbar may have obstructed the millimeter-wave radar, or the radar bracket may have deformed, causing an angle shift.	Inspect and remove any obstructions; replace any deformed brackets; and take the radar to an automotive service center for recalibration.
The front parking radar continues to issue false alarms (alarms even when there is no object).	The gap between the radar probe and the bullbar is too small (less than 15mm), or the probe is installed at an off-center angle.	Increase the gap between the probe and the bullbar, and adjust the probe angle to the original vehicle orientation.
The active grille cannot open or close properly.	The grille linkage mechanism was squeezed or bumped during installation, or the wiring harness was compressed by the bracket.	Check if the grid blades move freely, restore the wiring harness connection, and adjust the bracket to avoid interference.
Front fog lights or added strip lights not working, flashing, or displaying error messages	Power supply and wiring issues or compatibility problems.	The battery was used to draw power independently, and a relay and fuse were added. The grounding point was re-polished, and a decoding harness was used.
metallic noises or resonance from the front of the vehicle while driving	The connecting bolts are loose, or the bar body interferes with the chassis guard plate and water tank frame.	Use a torque wrench to tighten all bolts, check for interference points and grind or add buffer shims.



BUMPERS



THANKS FOR YOUR PURCHASE

PLEASE LET US KNOW IF YOU HAVE ANY QUESTIONS