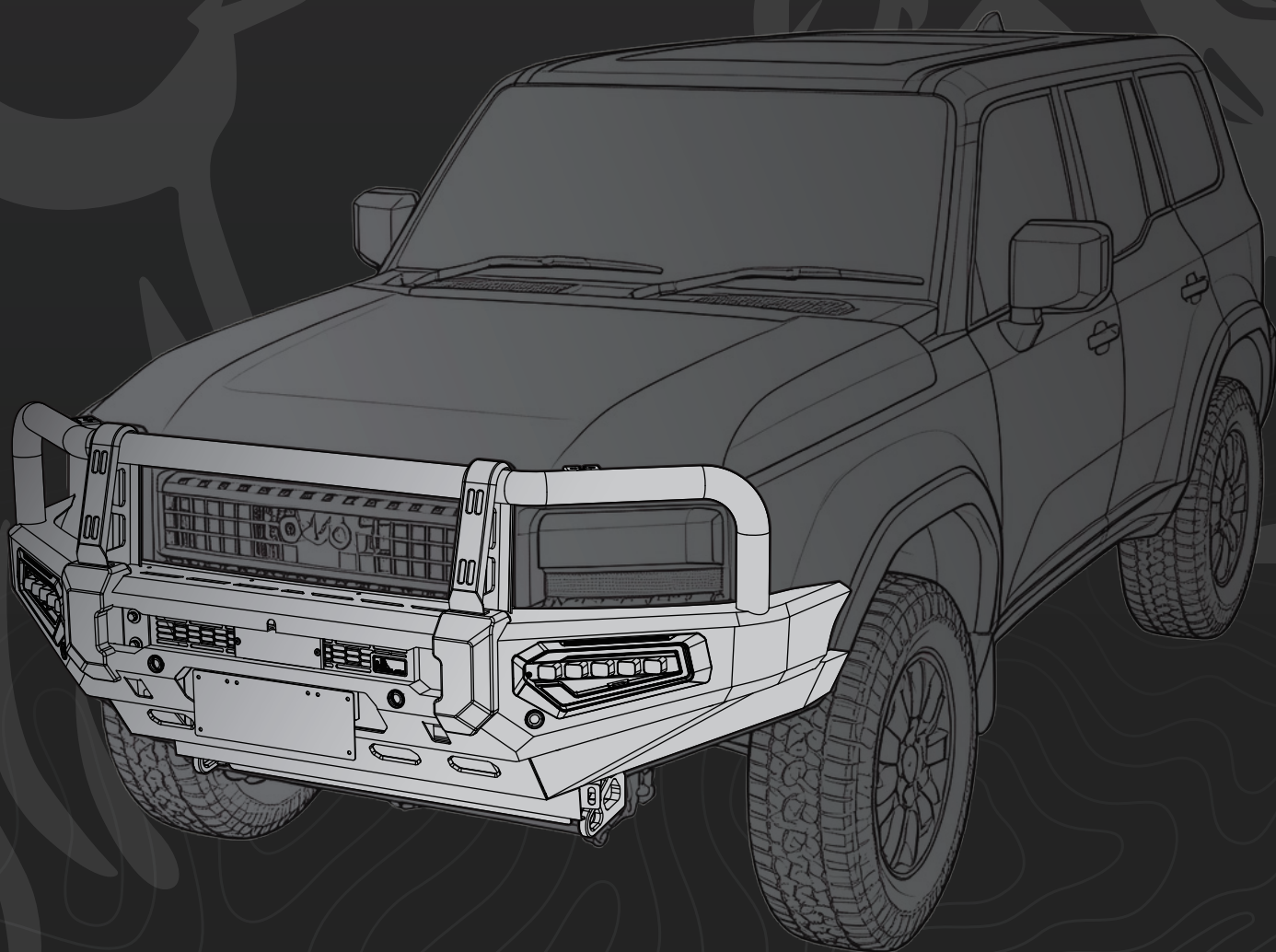




FRONT BULLBAR

FOR TOYOTA LANDCRUISER PRADO 250

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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■ 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

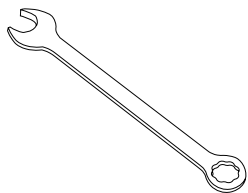
- All fasteners must be tightened using a calibrated torque wrench to the torque value specified in the manual, ensuring tightening accuracy.
- The final tightening process must not be performed using impact drills or power tools to prevent over-tightening and damage to components.
- Over-tightening 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

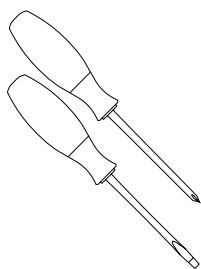
- Verify that all fasteners are tightened to the specified torque, with no loosening or stripping. Pay special attention to critical connections for M6 and M8 fasteners.
- Inspect all seals to ensure they are intact, continuous, without warping, and with tight gaps.
- Functional retest: Reconnect power, 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

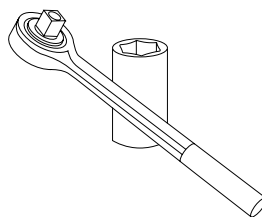
- The manufacturer accepts no liability for damage, injury, or loss resulting from installation, use, or maintenance not carried out in accordance with this manual.



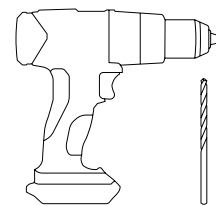
Metric wrench set



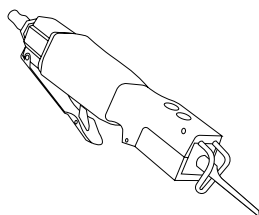
Screwdriver set



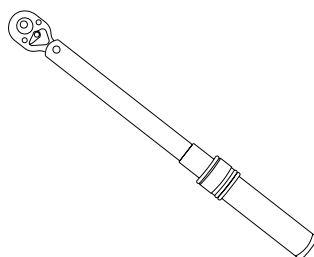
Metric sleeve assembly



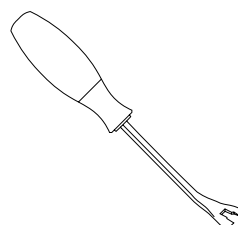
Drill and Drill Bits



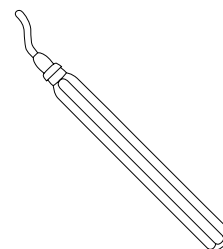
Air Hacksaw



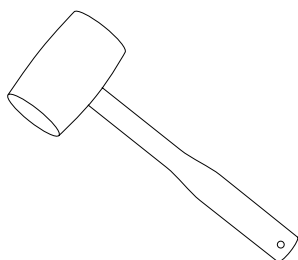
Torque Wrench



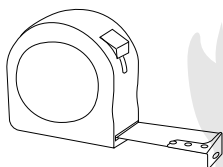
Clip Remover



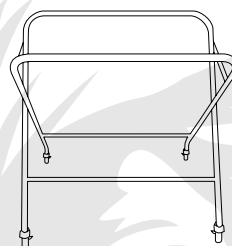
Deburring Tool



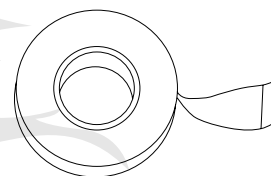
Rubber Mallet



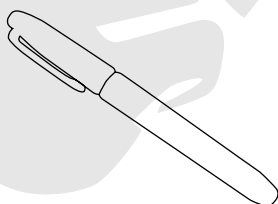
Tape Measure



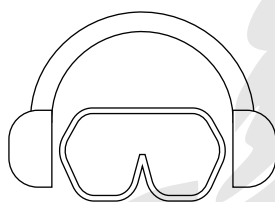
Bullbar Support Stand



Masking Tape

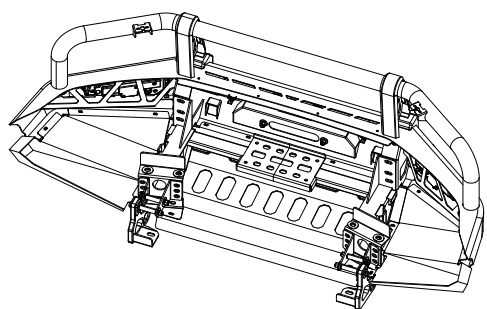


Marker and Paint Pens

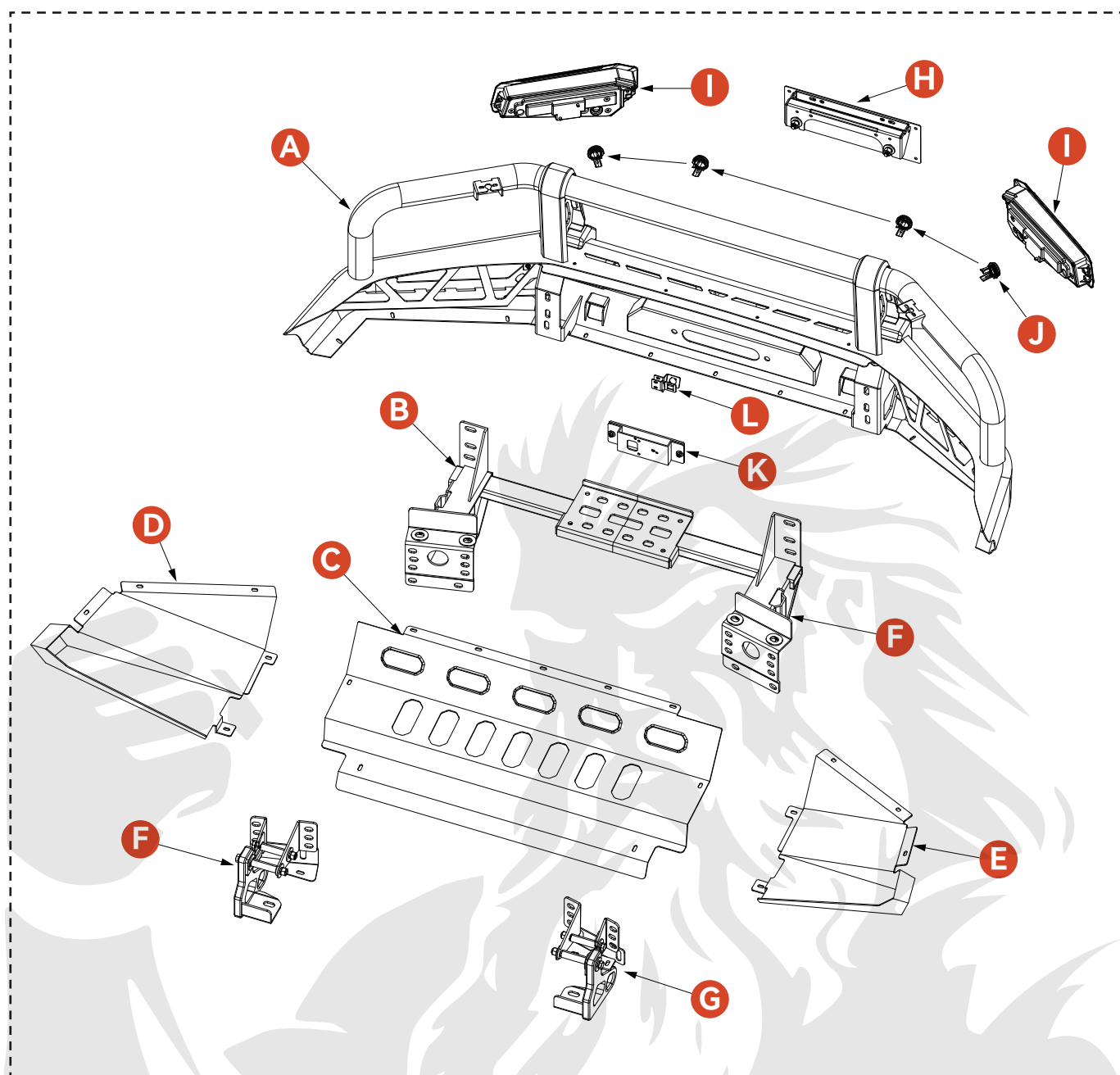


Personal Protective Equipment

■ PARTS 1



NO.	Part name	NO.	Part name
A.	Front Bumper Main Assembly	G.	Tow Hook - Left
B.	Winch bracket	H.	License Plate Base
C.	Guard Plate - Middle	I.	Light Module
D.	Guard Plate - Right Side	J.	Radar Bracket
E.	Guard Plate - Left Side	K.	Camera Bracket
F.	Tow Hook - Right	L.	Millimeter Wave Radar Bracket



■ PARTS 2

● Front Bumper Main Body Fixing Screws

1

Large Washer
10mm



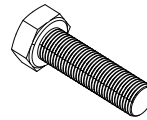
2

Spring Washer
10mm



3

Hex head bolts
M10X35-S



4

Hex nuts
M10-N



● Front Bumper Accessory Fixing Screws + Winch Bracket Fixing Screws

5

Flat Washer
8mm



6

Light Spring Washer
8mm



7

Hex nuts
M8-N



8

Flat Washer
4mm



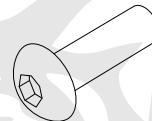
9

Light Spring Washer
4mm



10

Hexagon Head Screw
M4X12-N



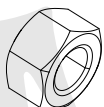
11

Hex nuts
M4-N



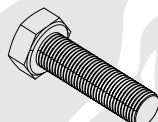
12

Hex nuts
M12-N



13

Hex head bolts
M12X40-S



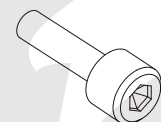
14

Hexagonal flange nut
M5-N



15

Hexagon Head Screw
M5X25-S



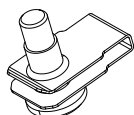
■ PARTS 2

● Protective plate installation

16

Flat washer with
chamfered edge

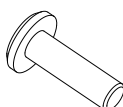
M6



17

Lightweight spring washers

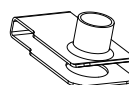
M6X20



18

Hex nuts

M6



● Tow Hook Fixing Screws

19

Large Washer

12mm



20

Standard Spring Washer

12mm



21

Hex nuts

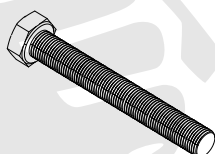
M12-N



22

Hex head bolts

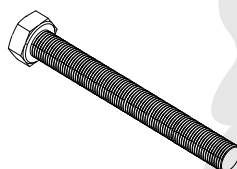
M12X110-N



23

Hex head bolts

M12X130-N

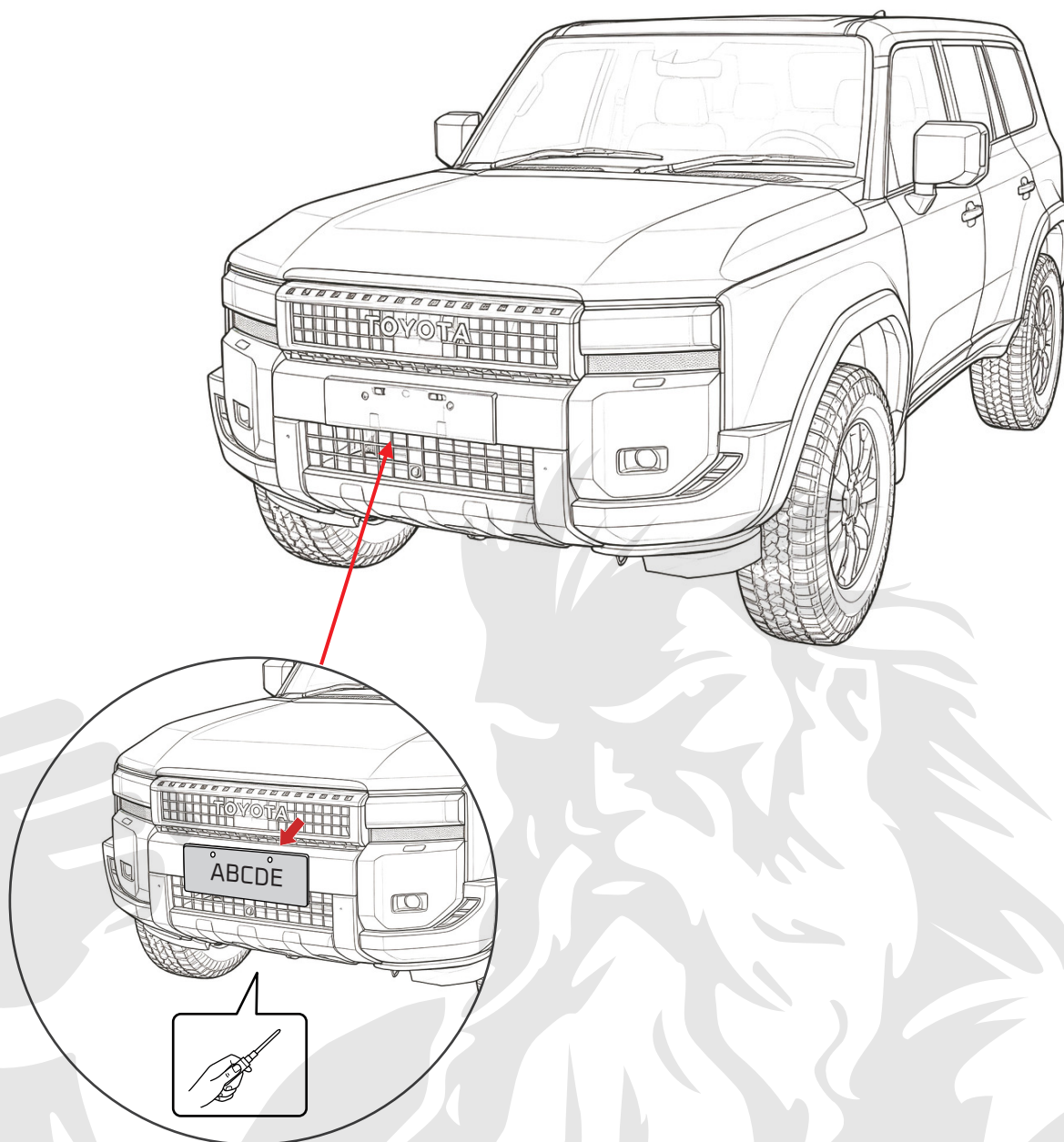


STEP 1

⚠ WARNING:

Do not attempt to turn on and move the vehicle while the front radar, camera and parking sensors are disconnected. Doing so may cause DTC error codes that can only be rectified by the dealer.

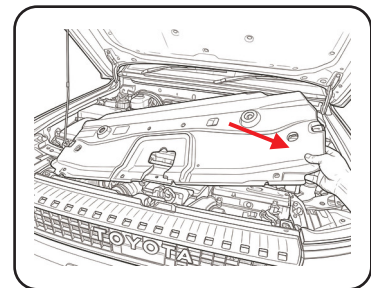
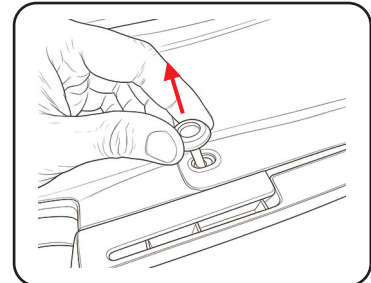
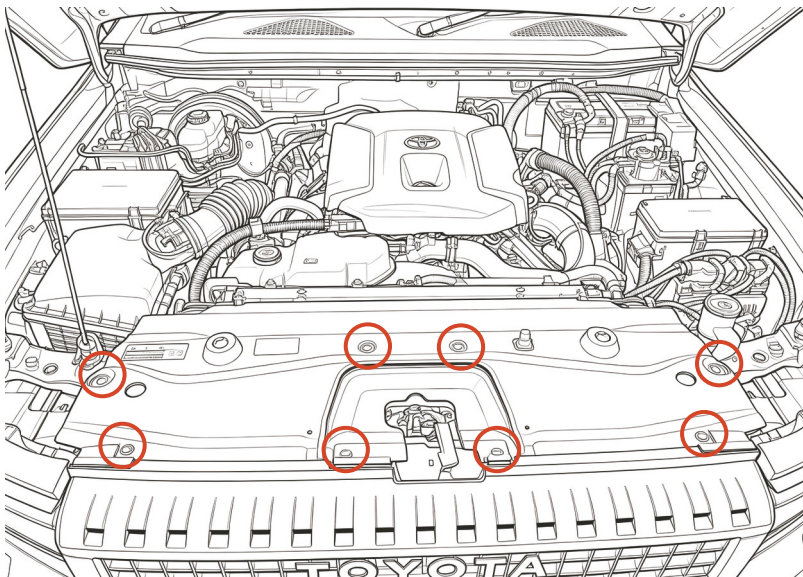
- 1. Remove 2x screws holding front number plate with a Phillips head screwdriver and set aside.
- 2. Open the bonnet by pulling twice on the lever under the steering wheel on the driver's side.



STEP 2

- 1. Open the bonnet.
- 2. Remove 8x plastic push clips holding the radiator top cover. Set cover and clips aside for re-assembly.

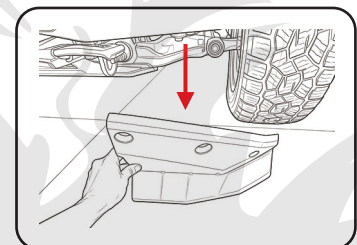
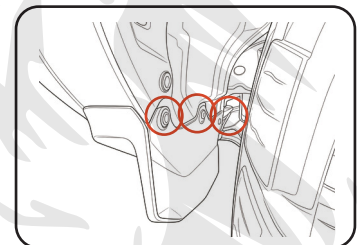
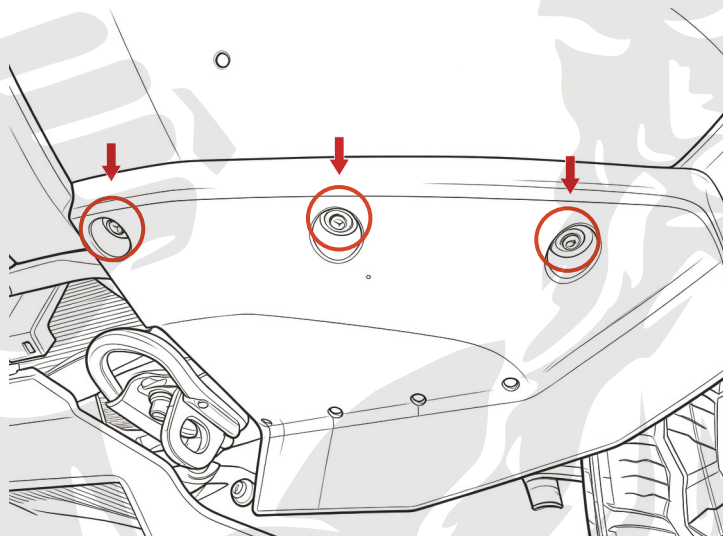
Note: Press down on the middle of the clip to remove.



STEP 3

- 1. Remove 3x 10mm hex bolts holding the underside of the lower outer bumper spoiler.
- 2. Remove 3x plastic push clips holding the rear of the lower outer bumper spoiler, in the wheel well. Use a flat blade screwdriver or trim tool to lever the centre section of the plastic clip outwards to remove.
- 3. Remove and discard the spoilers, for both sides.

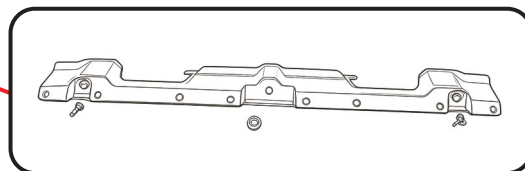
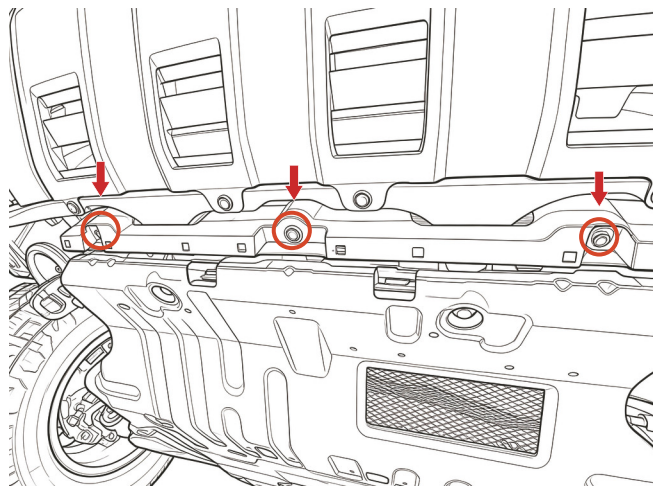
LH PASSENGER SIDE SHOWN



04 **DISASSEMBLY STEPS**

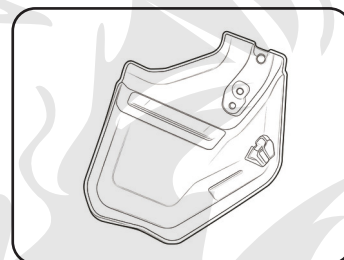
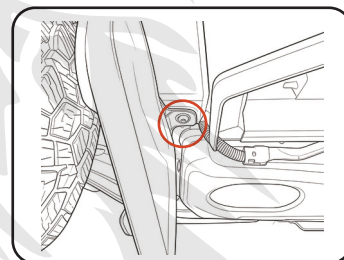
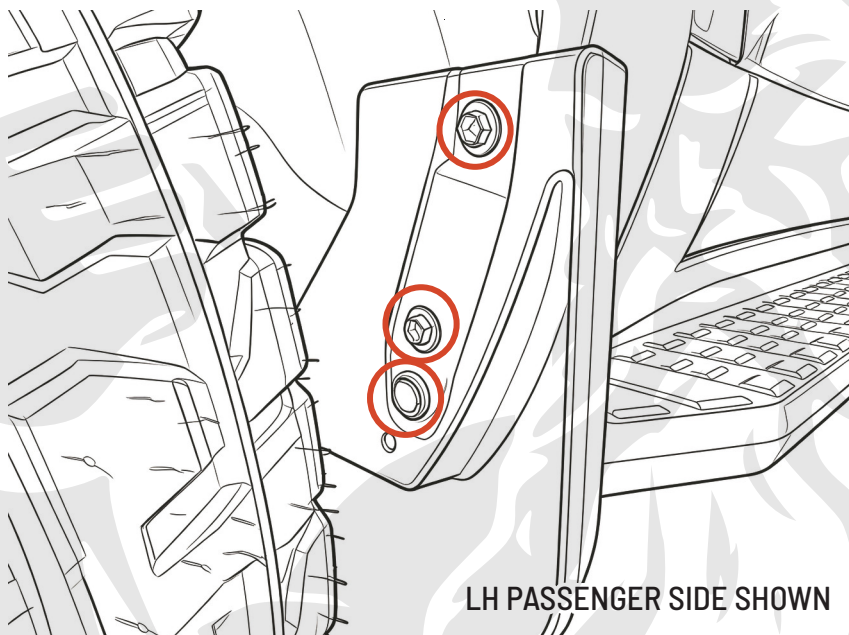
STEP 4

- Remove 2x 10mm hex bolts and 1x plastic push clip in the centre holding the bottom bumper cover on the underside of the bumper.



STEP 5

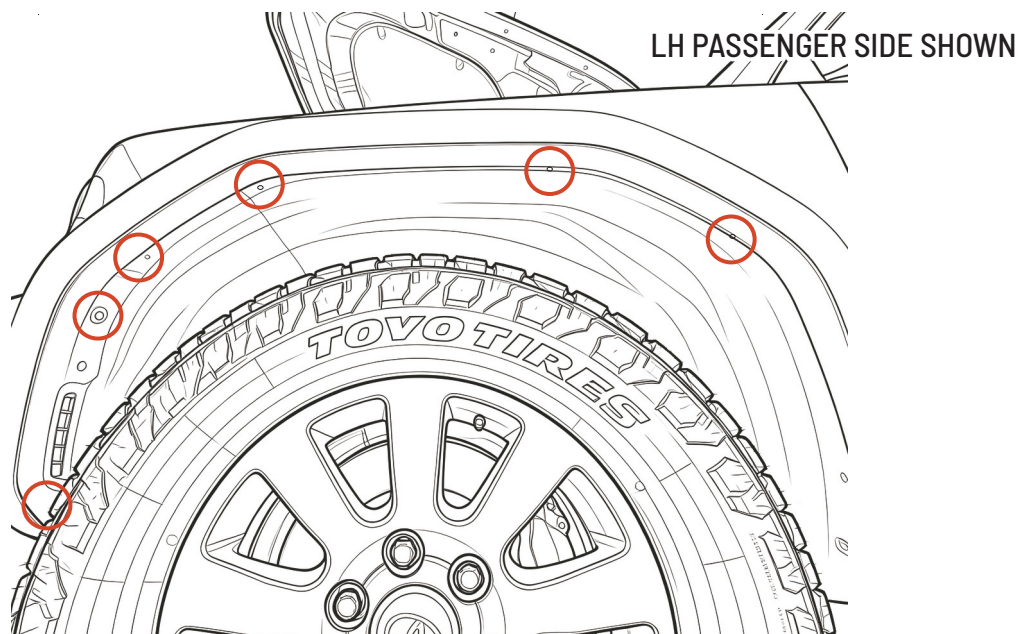
- The front flares and mudflap need to be removed. Start by removing 3x 10mm hex screws and 1x plastic push clip holding each front wheel mudflap.



LH PASSENGER SIDE SHOWN

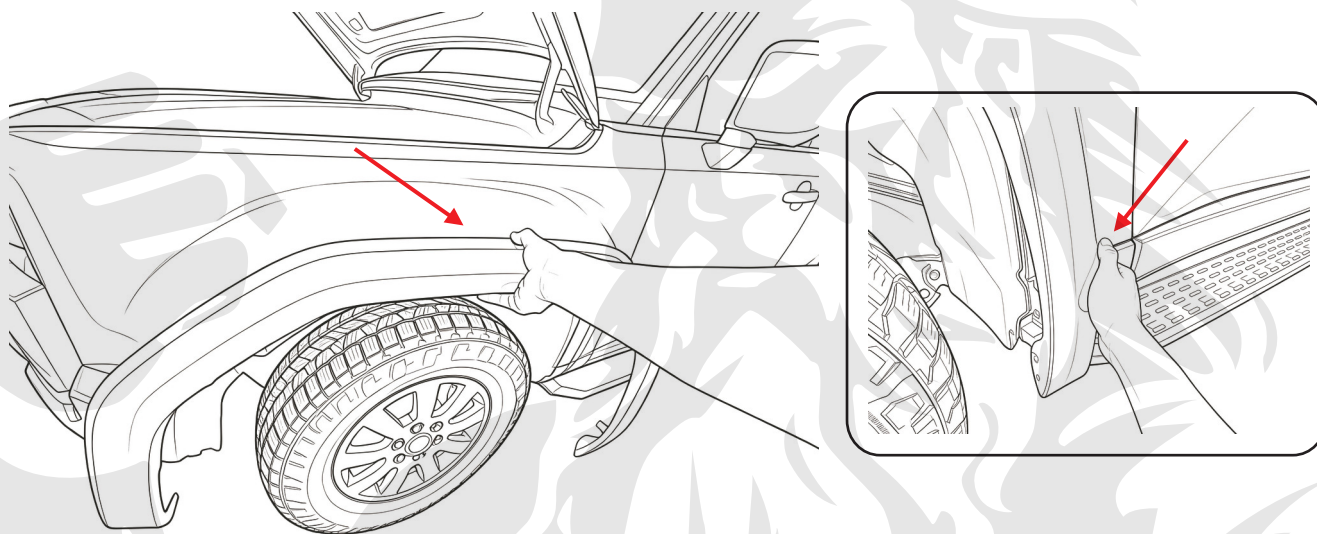
STEP 6

- Remove 5x plastic push clips and 1x 10mm hex screw holding each front flare.



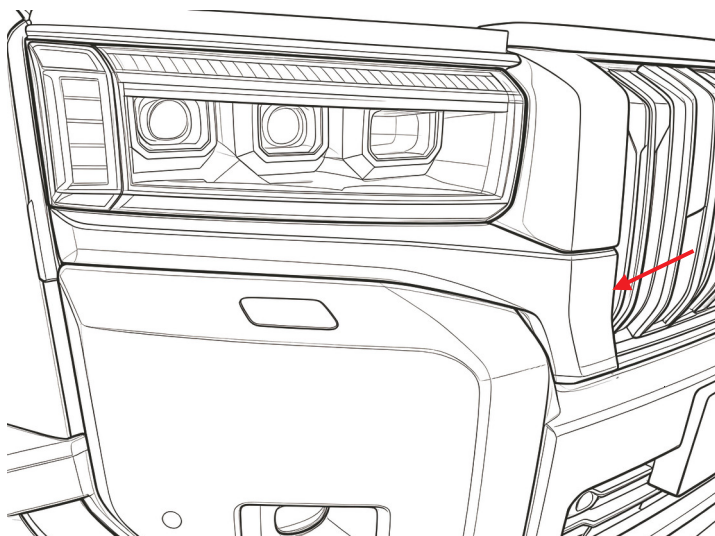
STEP 7

- Starting from each end, pull the flare outwards and release the 14x body clips holding it to the body. Set the flares aside in a safe place for later.

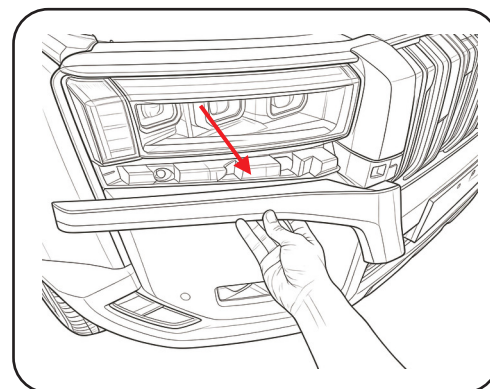


STEP 8

- VX/Kakadu only. Vehicles with the 'luxury' spec grille will need the under headlight trim removed at this stage.
Note: Starting from the end indicated by the arrow, pull outwards by hand to unclip the trim. Do this on for both headlight trims. Do not discard, and set aside in a safe place for later.

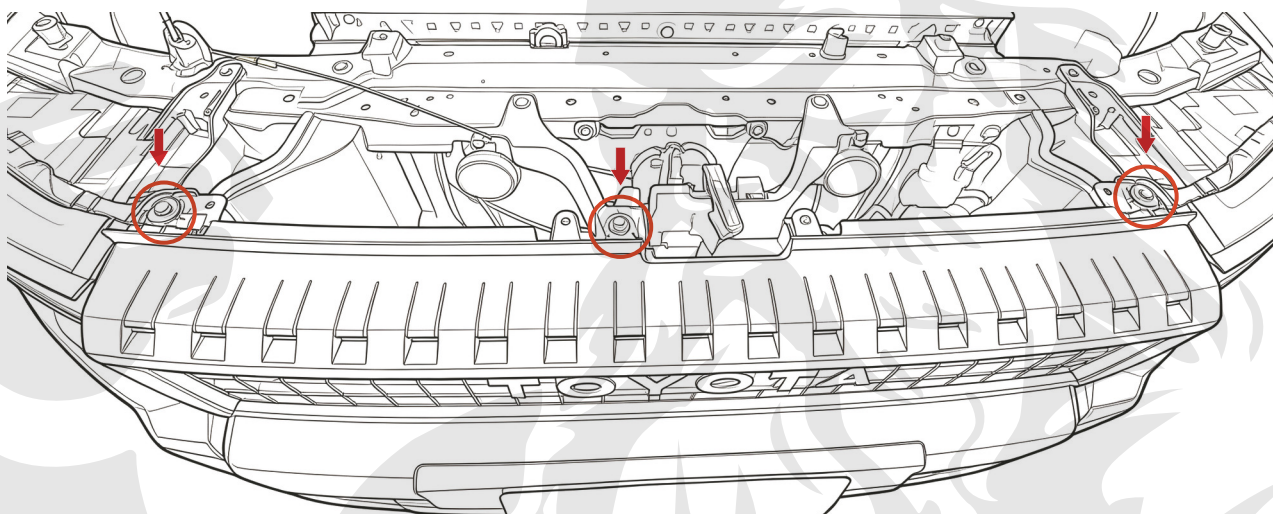


RH DRIVER SIDE SHOWN
VX/KAKADU ONLY



STEP 9

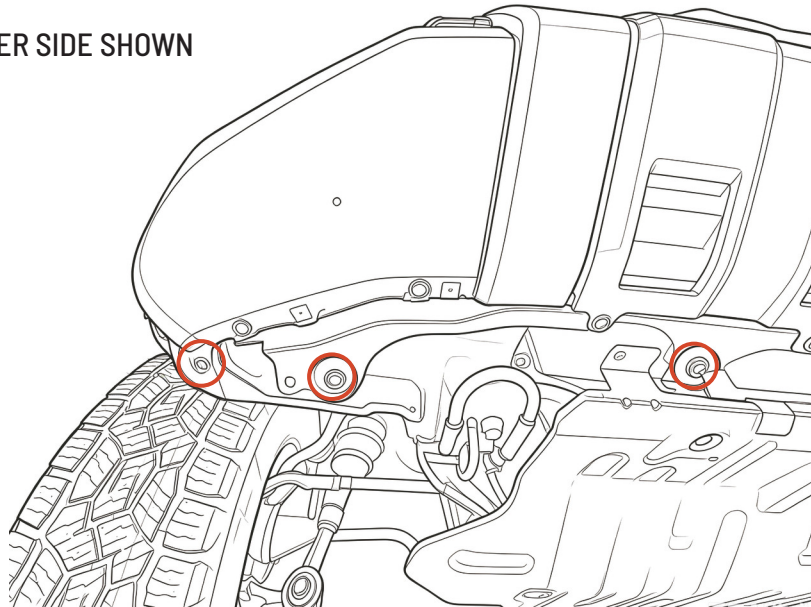
- Remove 3x 10mm hex bolts holding the top of the grille.



STEP 10

- Remove 6x 10mm hex bolts (3x per side) holding the bottom of the bumper.

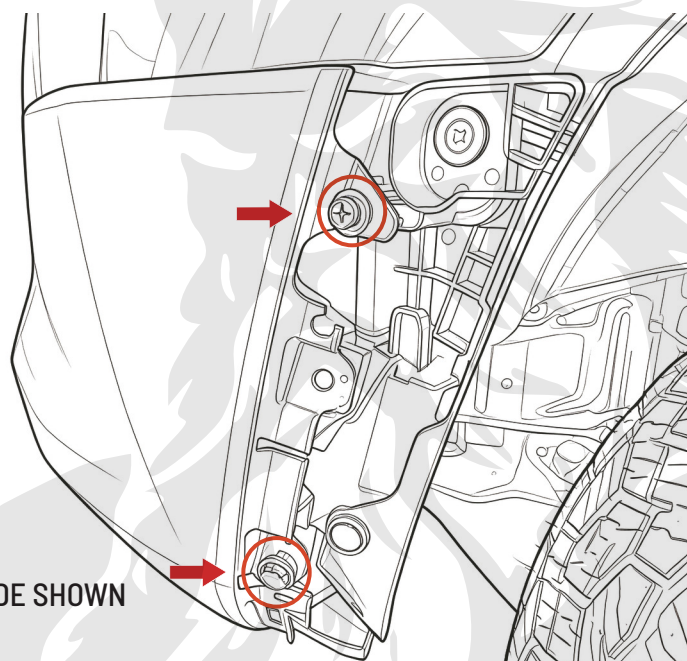
RH DRIVER SIDE SHOWN



STEP 11

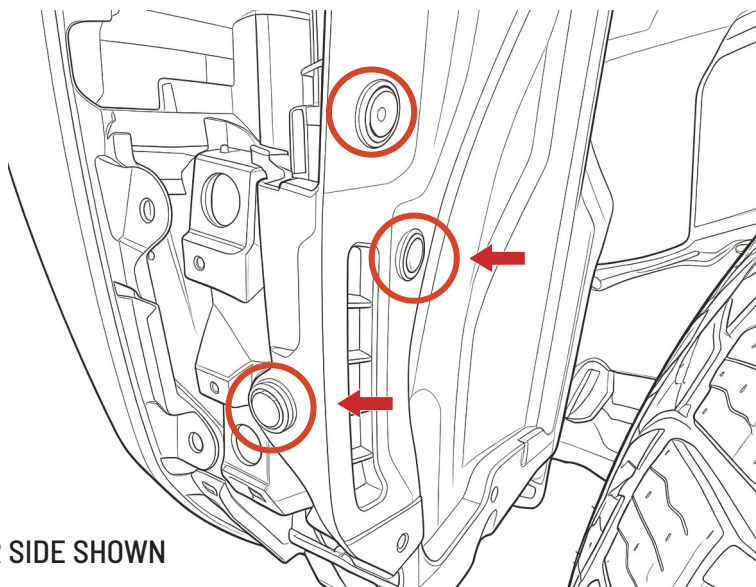
- Remove 1x 10mm hex bolt and 1x plastic push clip on the outer end of the bumper. Do this on both sides.

LH PASSENGER SIDE SHOWN



STEP 12

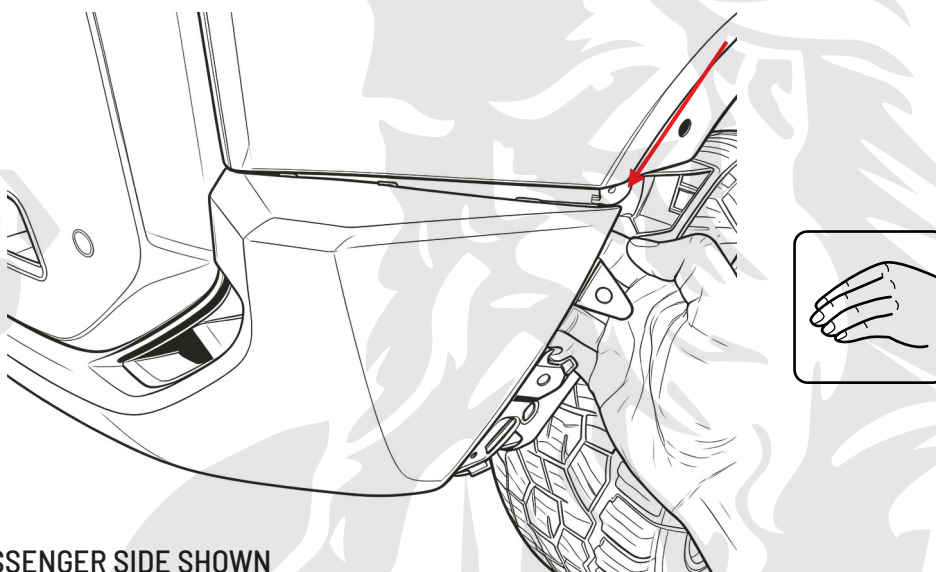
- Remove 3x plastic push clips holding the front of the inner wheel guard. Do this on both sides.



LH PASSENGER SIDE SHOWN

STEP 13

- Grab onto each outer end of the bumper and pull outwards to unclip the outer section only. Do not unclip the rest of the bumper yet.



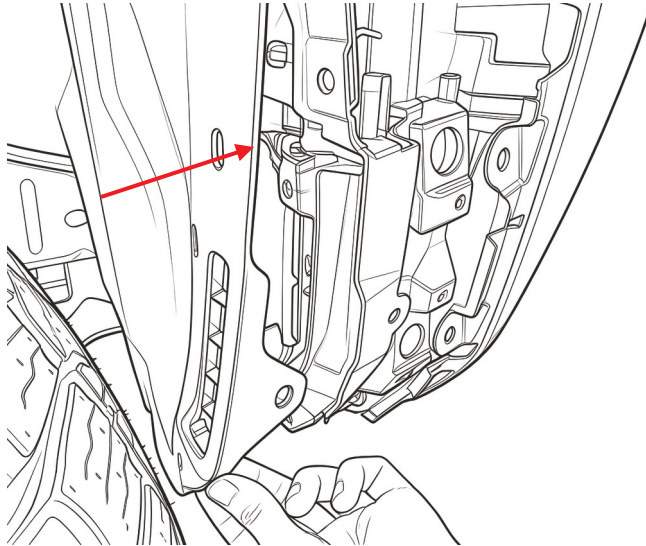
LH PASSENGER SIDE SHOWN

04 **DISASSEMBLY STEPS**

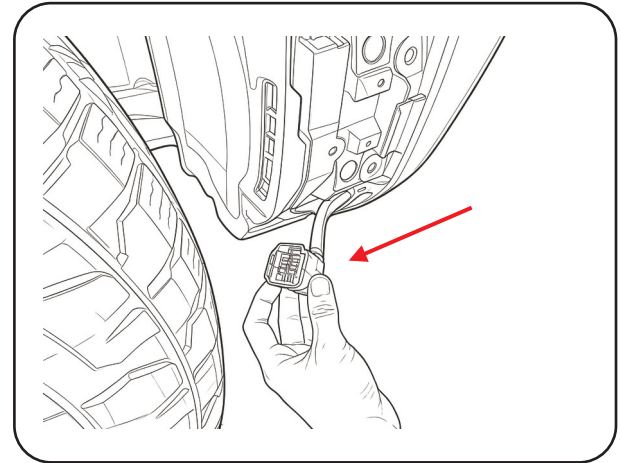
STEP 14

- On the driver side, pull back on the inner wheel guard to gain access inside, then disconnect 1x bumper harness connector.

Note: The connector is a lever lock style, you may need to use a flat blade screwdriver to assist in unlatching the lever.

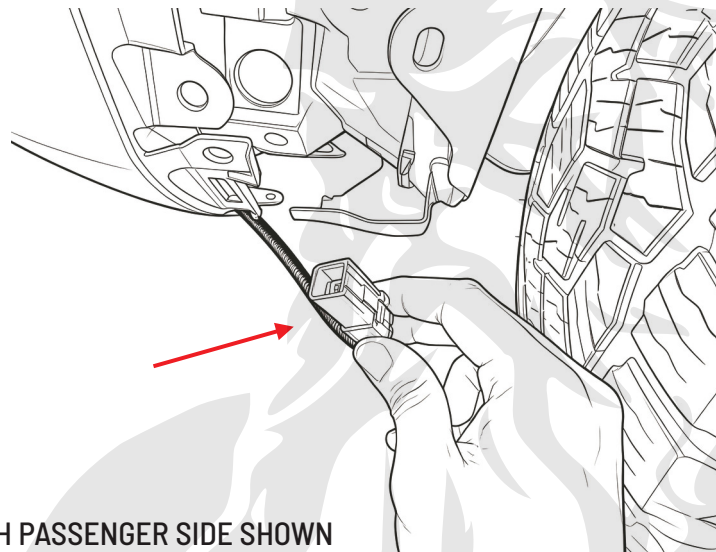


RH DRIVER SIDE SHOWN



STEP 15

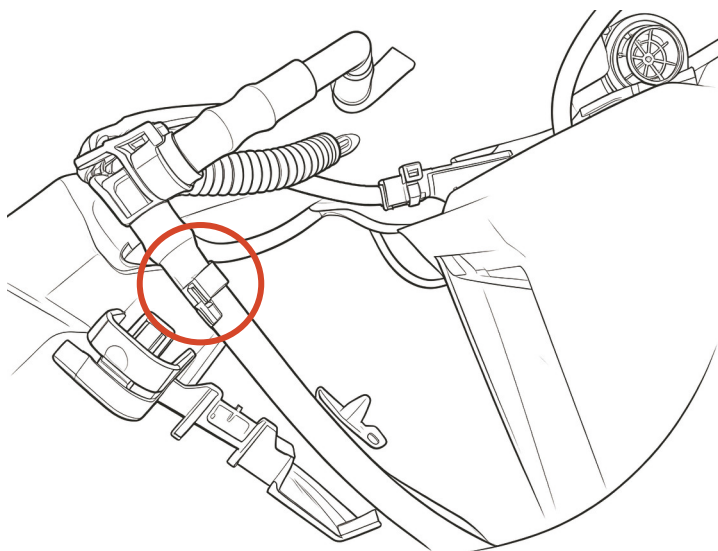
- On the passenger side, do the same and disconnect 1x bumper harness connector. This connector has a single unlocking tab that can be pressed down with a thumb.



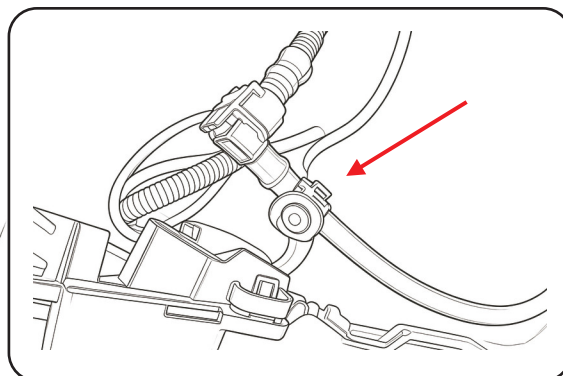
LH PASSENGER SIDE SHOWN

STEP 16

- On the passenger side, there is a headlight washer hose that is clipped into the bumper in one location. Unclip the hose.

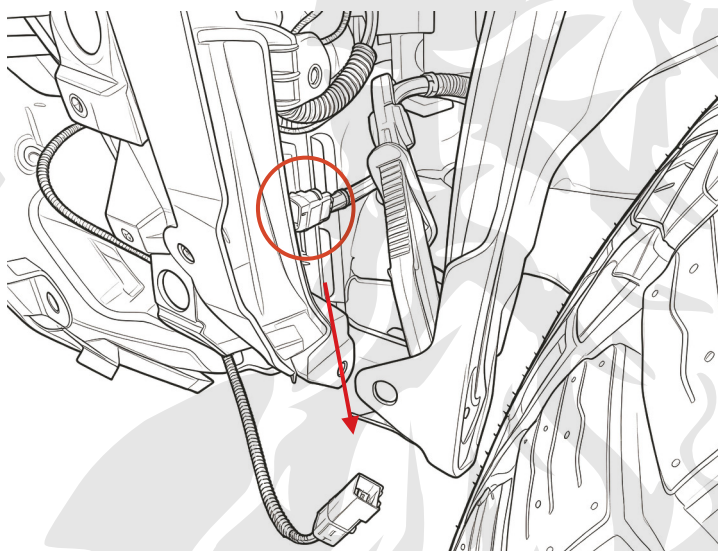


LH PASSENGER SIDE SHOWN



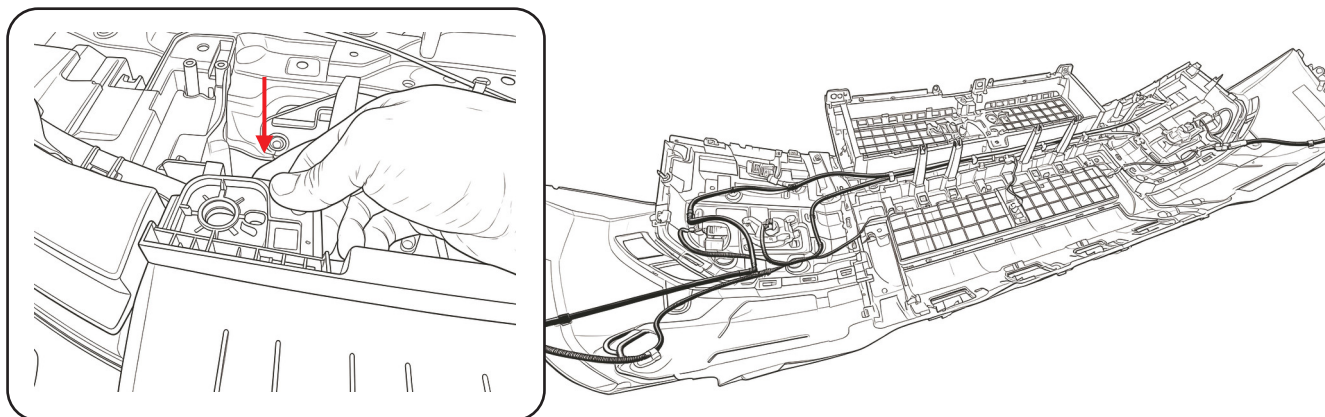
STEP 17

-
1. The headlight washer hose needs to be disconnected at the circled location.
 2. Either clamp the washer hose either side of the connector with cable ties and/or hose line clamps, or place a bucket underneath to let washer fluid drain out (this needs to be re-filled at the end, see maintenance section of Toyota user manual).
 3. Disconnect the washer hose.



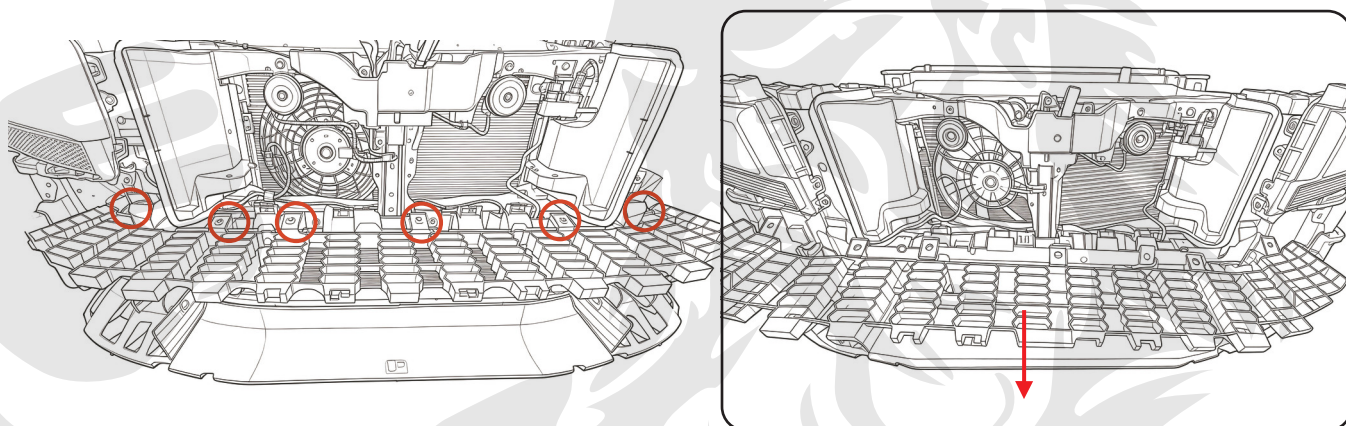
STEP 18

- 1. The bumper and grille are now ready to be removed. Lift the top of the grille tabs up and off the locating pins, then pull the bumper forwards to release any remaining bumper clips.
- 2. Set the bumper and grille aside on a panel stand or a soft blanket.



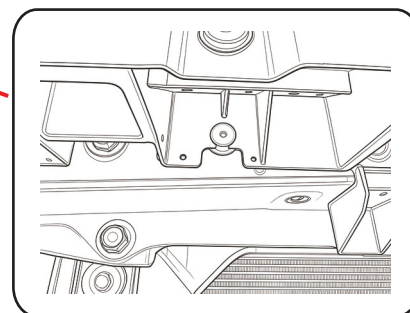
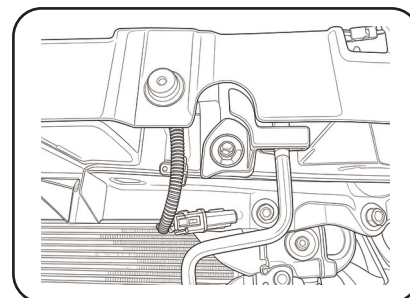
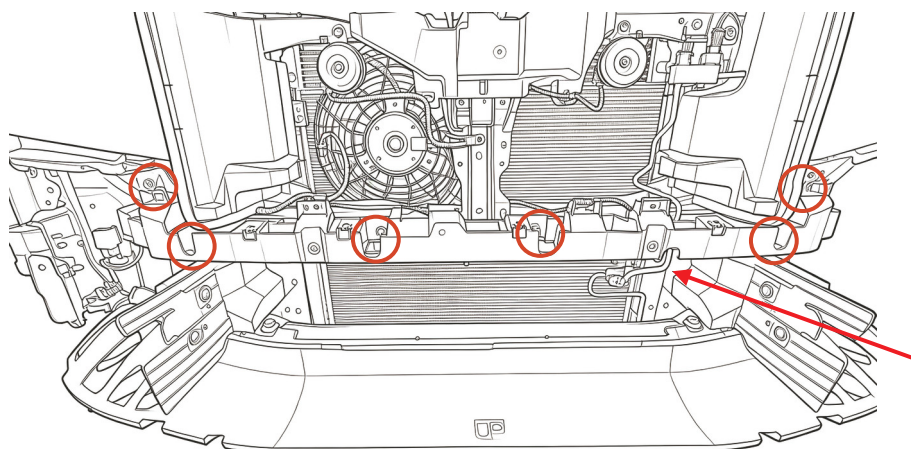
STEP 19

- 1. Remove 6x 10mm hex bolts holding the front bumper energy absorber to the vehicle.
- 2. Pull the energy absorber upwards to unclip it from 2x red clips on the vehicle.



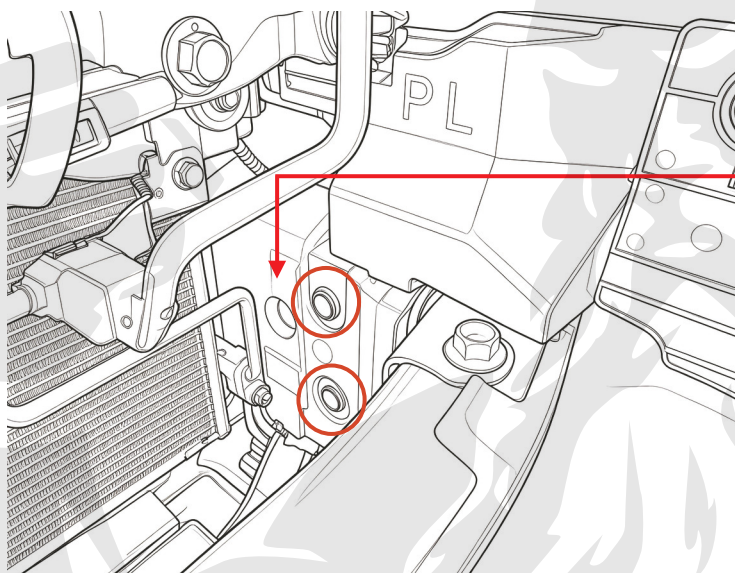
STEP 20

- 1. Remove 7x 10mm hex bolts holding the front bumper upper centre retainer to the vehicle.
- 2. Pull the centre retainer upwards to unclip it from the 2x white clips on the vehicle.

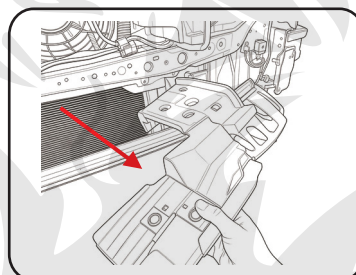
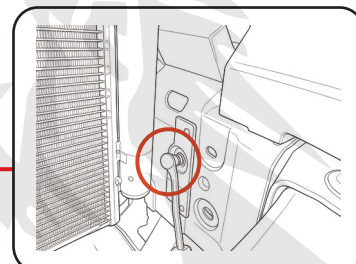


STEP 21

- 1. Remove 3x push clips and 1x Christmas tree clip holding the air guides to the inside of each chassis rail.
- 2. Fully remove and discard the 2x air guides.



LH PASSENGER SIDE SHOWN

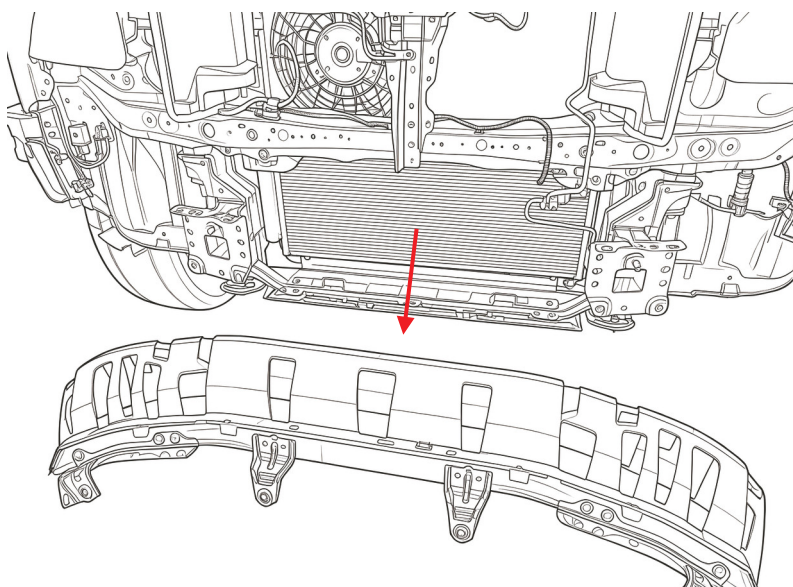
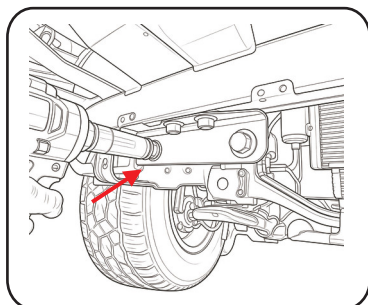
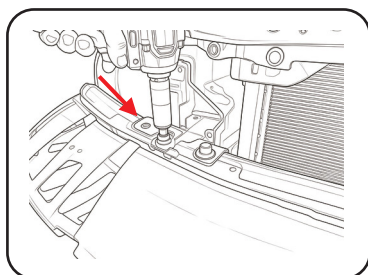


04 DISASSEMBLY STEPS

STEP 22

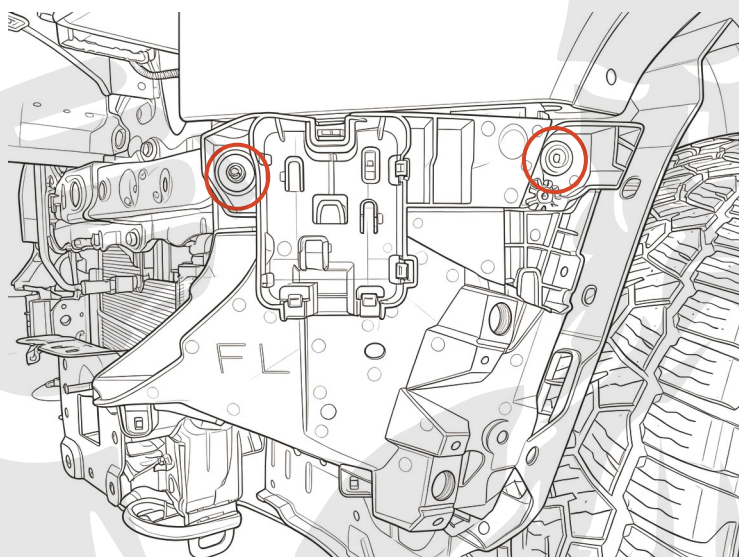
- Remove 8x 17mm hex bolts (4x per side) holding the crash beam to the chassis.

Note: Retain 4x of the bolts for re-use

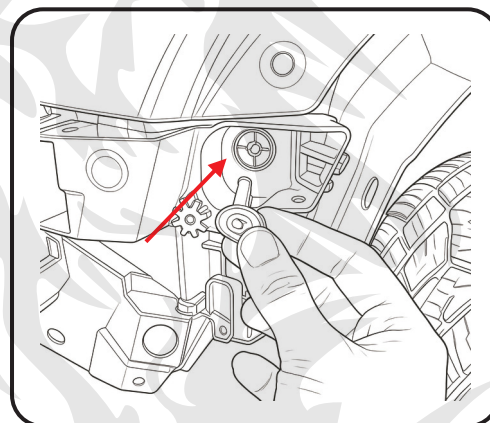


STEP 23

- 1. Remove 1x 10mm hex bolt holding the bumper side retainer. Do this on both sides of the vehicle.
- 2. Remove 1x red plastic clip by inserting a Phillips head screwdriver and rotating the clip anti-clockwise. Do this on both sides of the vehicle.

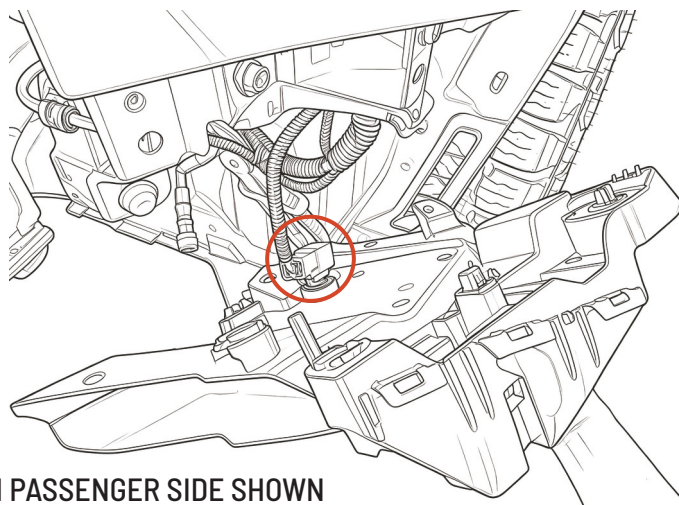


LH PASSENGER SIDE SHOWN



STEP 24

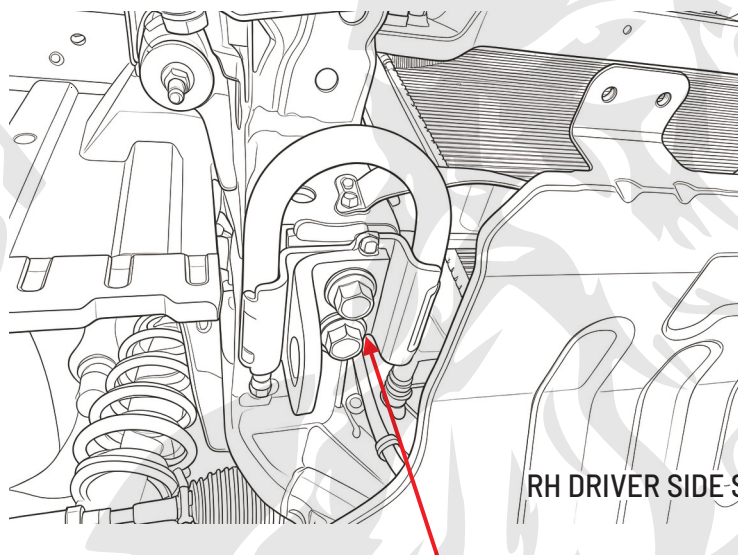
- 1. First pull the bumper side retainer outwards at the rear to release the rearmost clip/s.
- 2. Then slide the bumper side retainer rearwards towards to the front wheel to release the front clip/s.
- 3. Unclip the bumper harness from the inside of the bumper side retainer.
- 4. Do this on both sides of the vehicle and discard the bumper side retainers.



LH PASSENGER SIDE SHOWN

STEP 25

- On the underside of the chassis, remove 2x 17mm hex bolts holding each tie-down point.
Note: Retain the bolts for re-fitment.



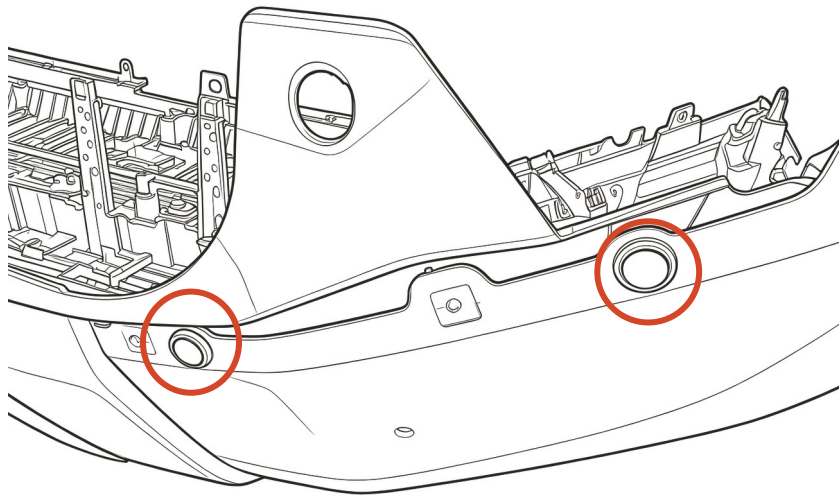
RH DRIVER SIDE SHOWN

04 ◀ DISASSEMBLY STEPS

STEP 26

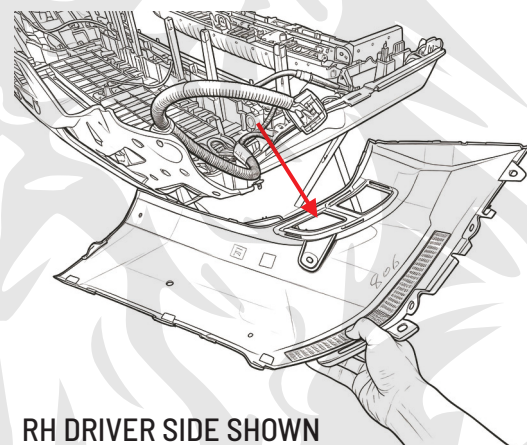
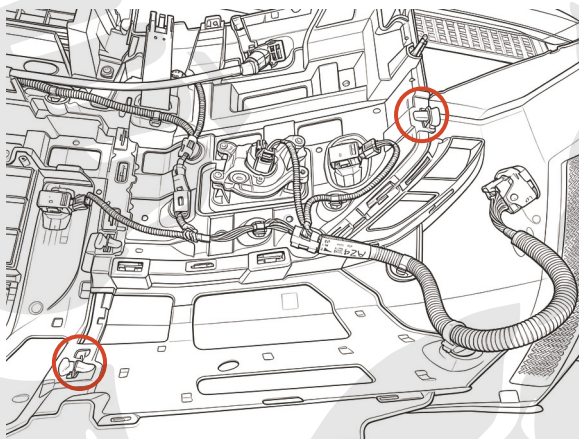
- Remove 2x plastic push clips on the bottom of the outer bumper extension. Do this for both sides.

RH DRIVER SIDE SHOWN



STEP 27

- 1.Remove 2x white plastic clips on the inside of the outer bumper extension. Do this for both sides.
Note: Press down on the clip and slide through the slotted tab to remove.
 2.Release 3x tabs to remove the outer bumper extension. Do this for both sides.

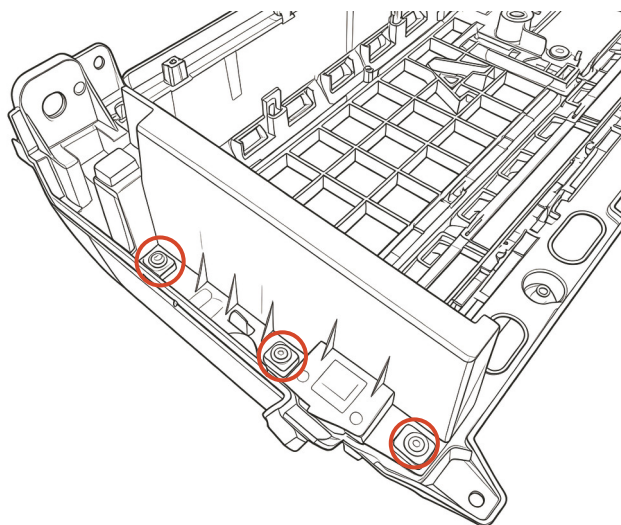
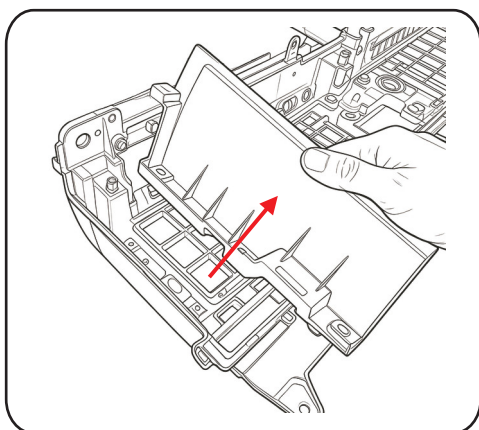


RH DRIVER SIDE SHOWN

STEP 28

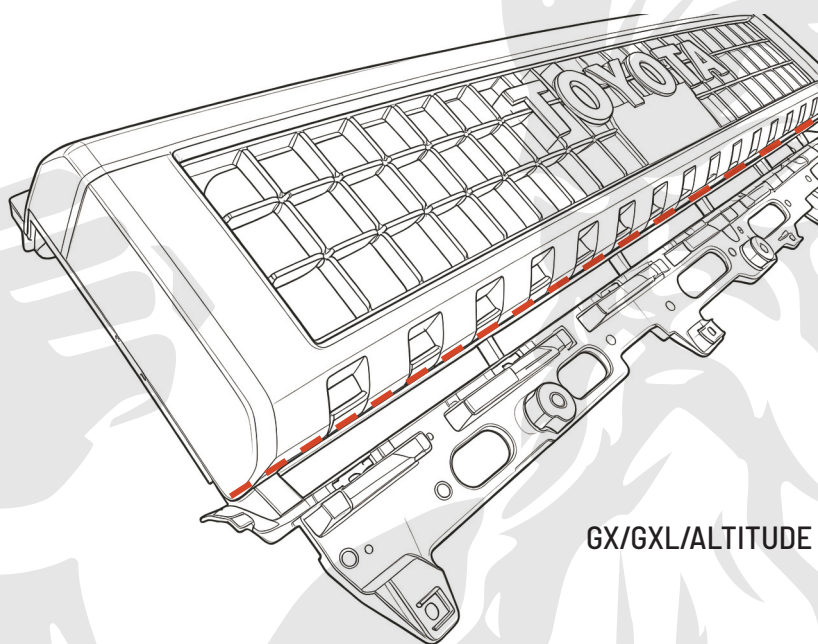
- GX/GXL/Altitude. Remove 3x Phillips head screws holding each plastic grille side retainer. Retain screws for re-assembly.

LH PASSENGER SIDE SHOWN
VX/KAKADU ONLY



STEP 29

- GX/GXL/Altitude only. The lower portion of the grille needs to be cut off. Mark out a cut line as shown. It will be flush with the bottom of the main grille section.



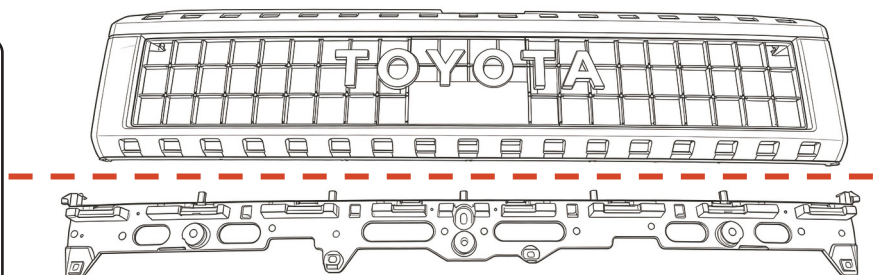
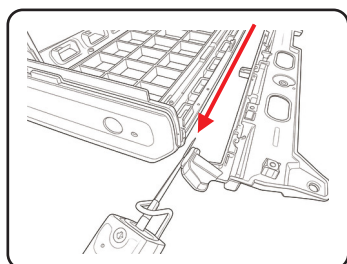
Cut flush below
main grille section

GX/GXL/ALTITUDE ONLY

STEP 30

- 1. GX/GXL/Altitude only. Using an air hacksaw or similar cutting tool, cut the grille.
- 2. GX/GXL/Altitude only. Use a utility knife or similar tool to clean up the cut and remove any burrs.

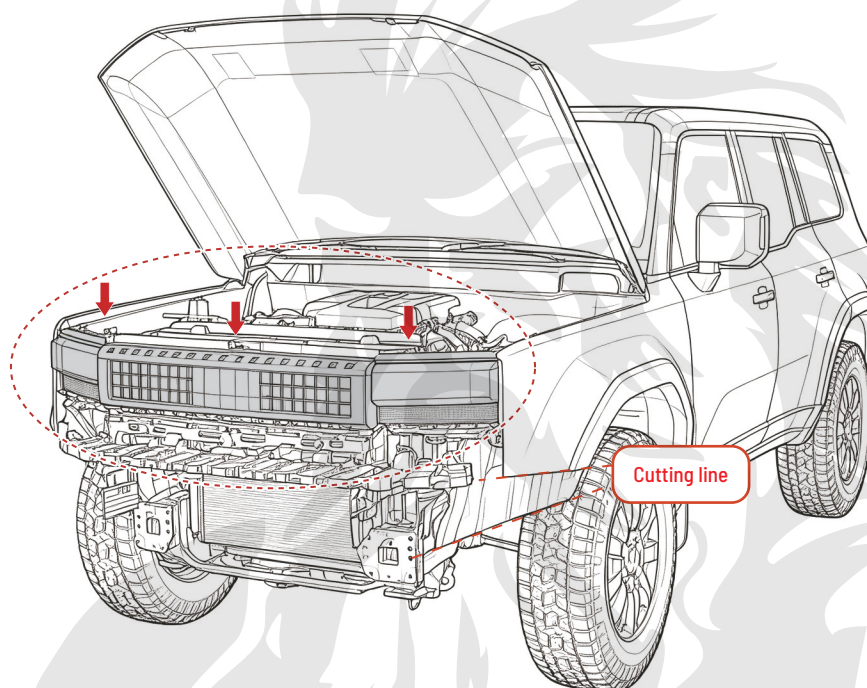
GX/GXL/ALTITUDE ONLY



STEP 31



- The repaired bumper was reinstalled, the masking tape was removed, and the repaired sides and fenders were welded together.



Cutting line



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.

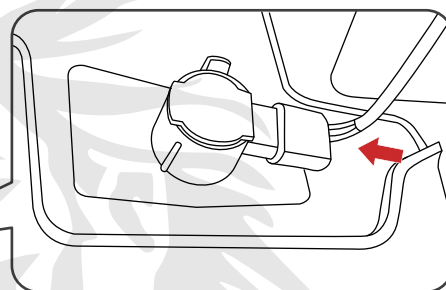
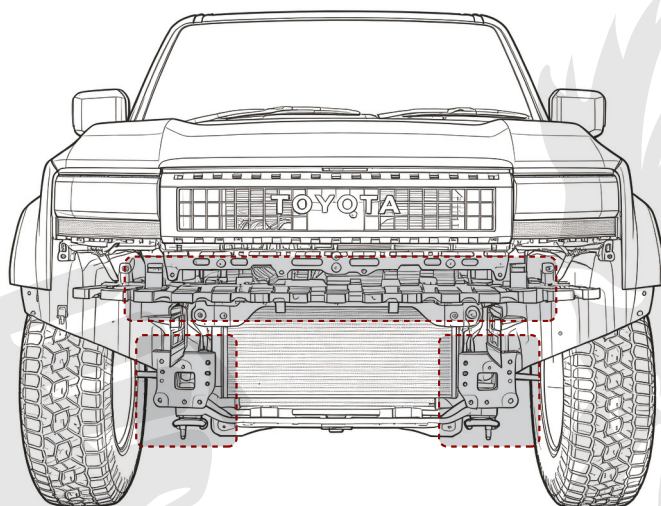
STEP 1

- 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.

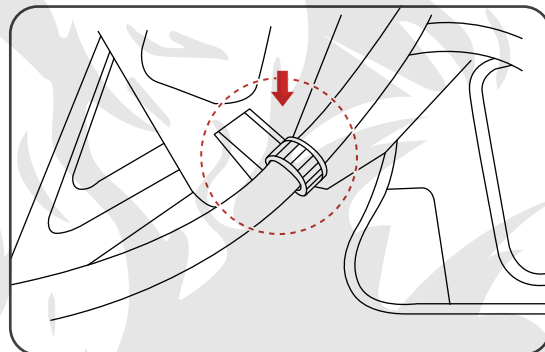
Note: Pay attention to the positional sequence and orientation of each sensor to ensure they are reinstalled in the bumper using the same configuration.

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.

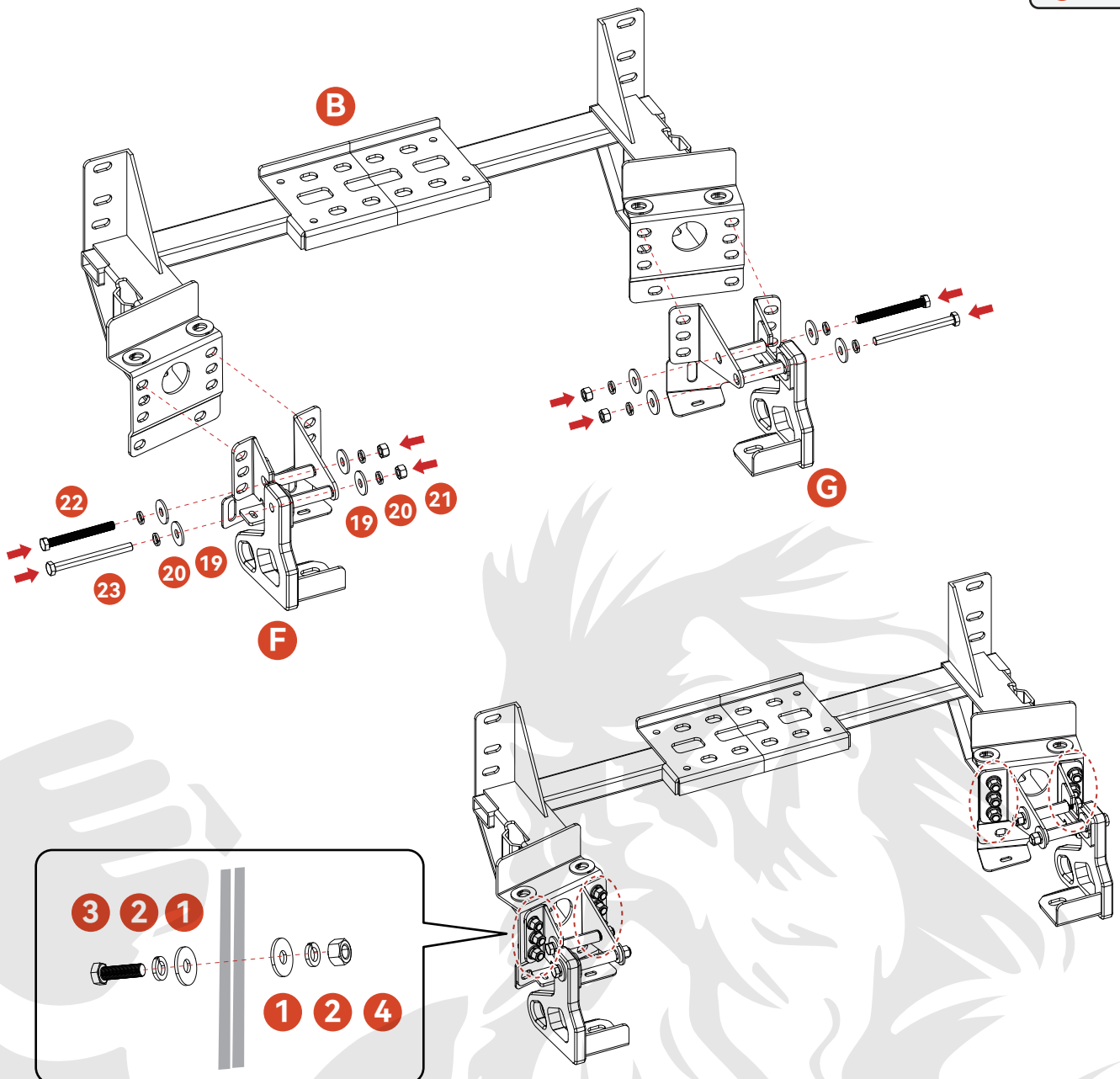


05 INSTALLATION STEPS

STEP 2

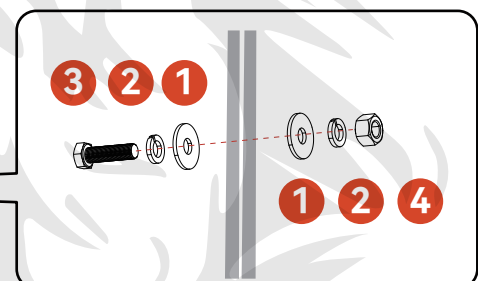
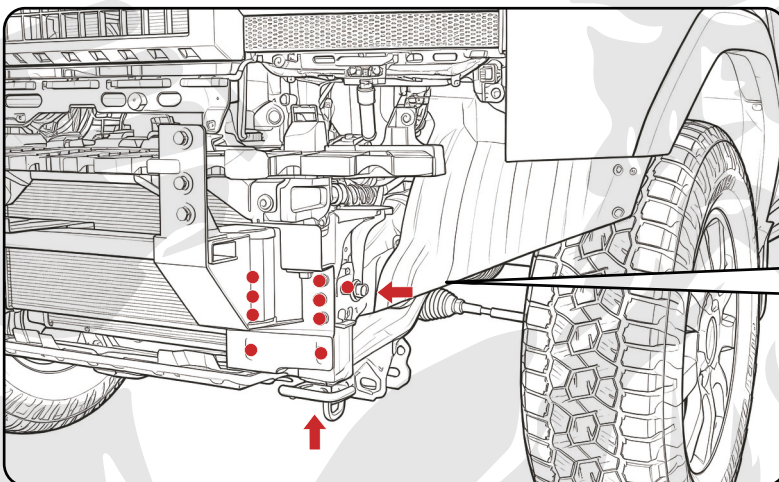
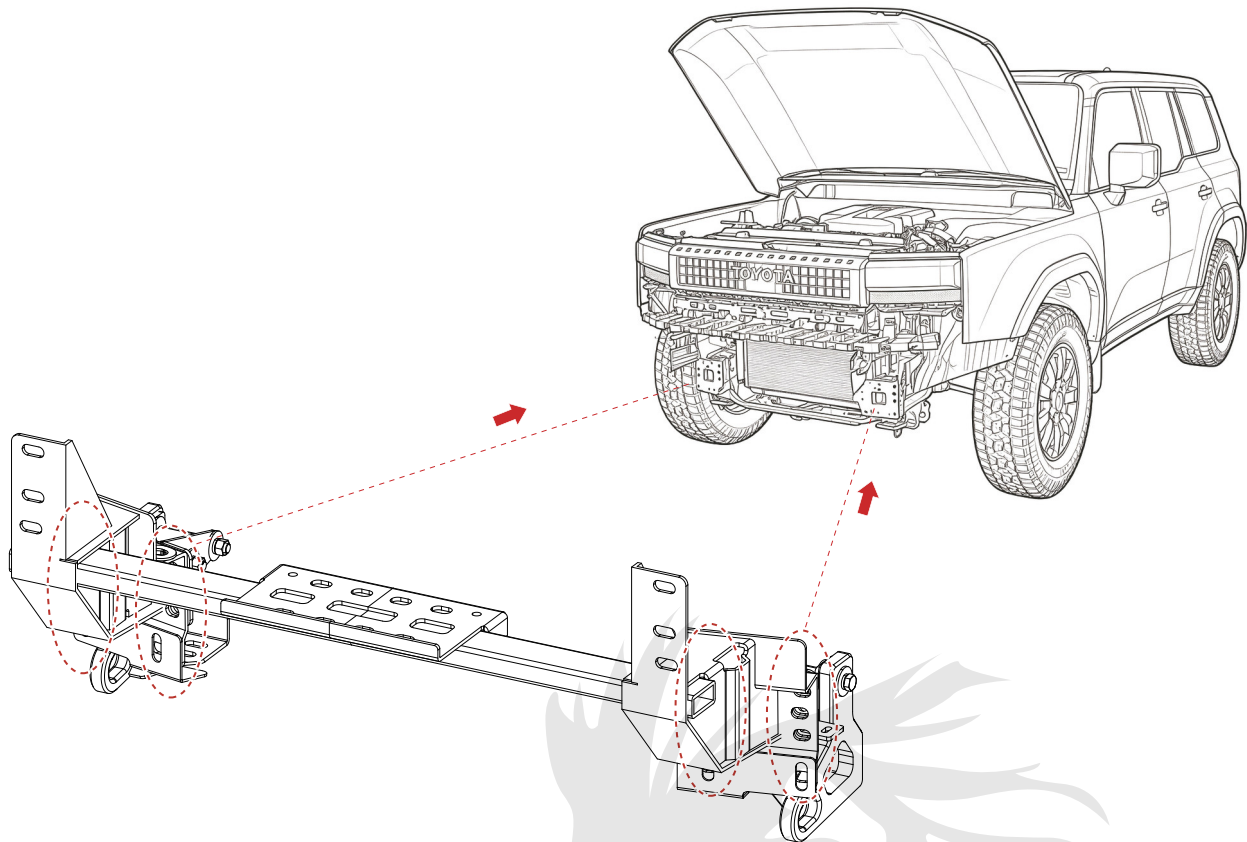
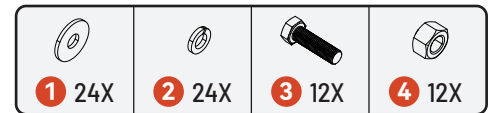
- 1. Prepare and install the beam head fixing bracket.
2. Install the tow hook, aligning the holes at the connection points.
3. Secure the bottom with washers and bolts.
4. Fasten the tow hook guard on the side using M12×110mm/M12×130mm bolts and washers.

 1 12X	 2 12X	 6 4X	 6 4X
 19 8X	 20 8X	 21 4X	 22 2X
 23 2X			



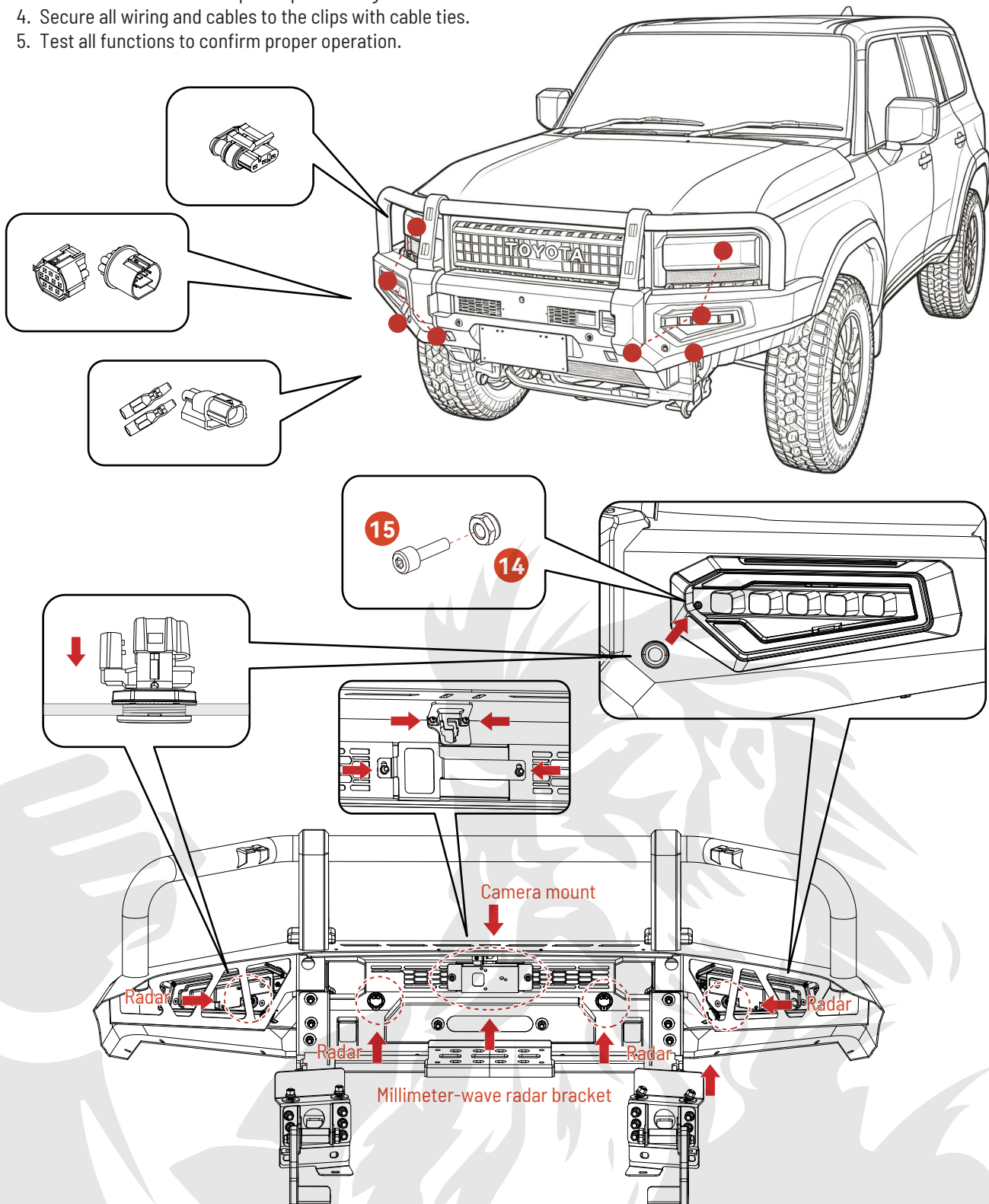
STEP 3

- 1. Install the winch bracket and align the holes at the connection points with the frame.
- 2. Secure the corner holes with M10×35 mm hex head bolts.



STEP 4
14 2X
15 2X

1. Install and secure the lights, then connect the wiring.
2. Mount the camera bracket and tighten the screws to secure it.
3. The radar bracket is clamped in place using nuts.
4. Secure all wiring and cables to the clips with cable ties.
5. Test all functions to confirm proper operation.



05 INSTALLATION STEPS

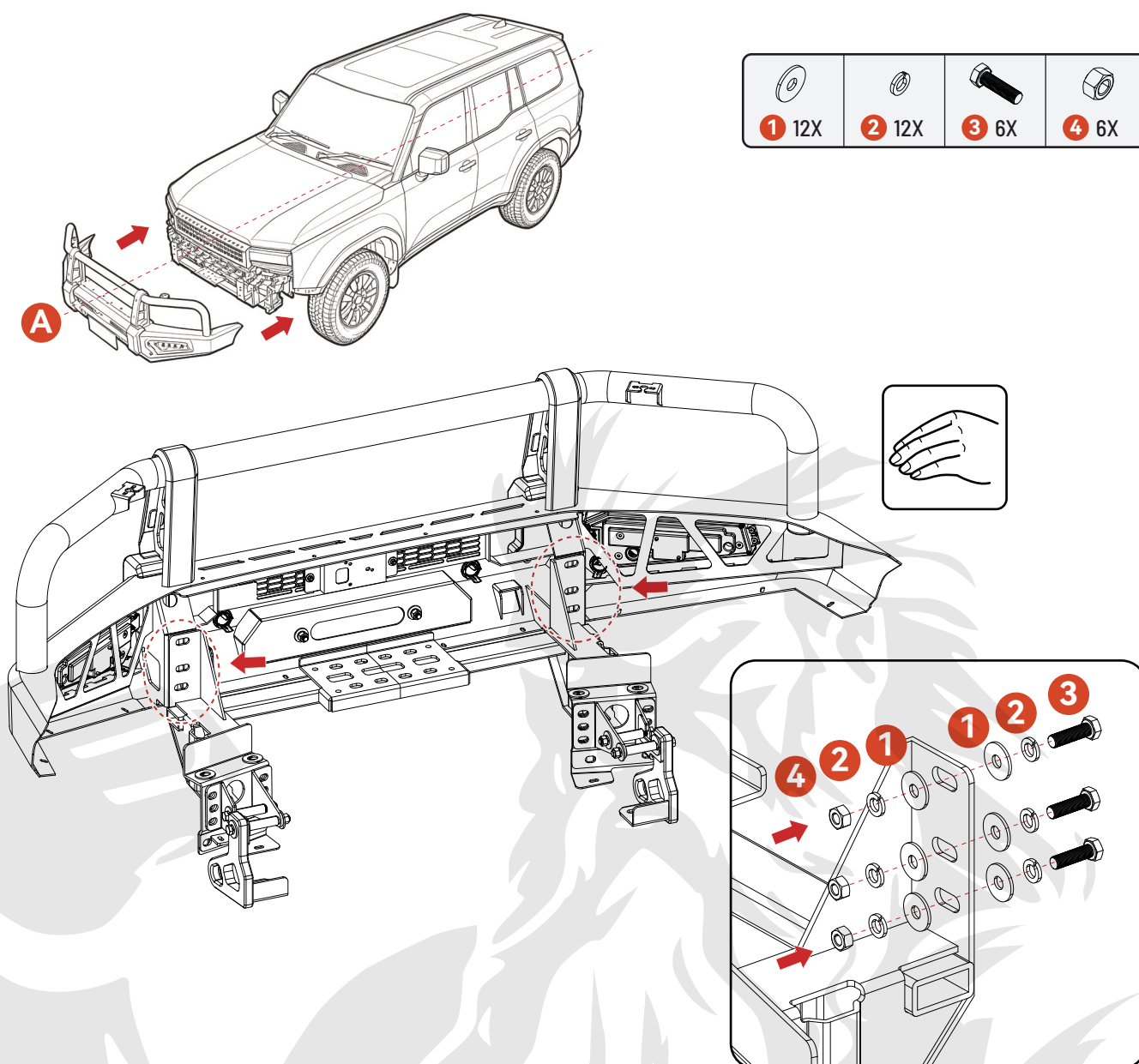
STEP 5



- 1. Position the vehicle on the ground or a four-post crane. Raise the bumper to the correct position and align the side wing protection plates with the chassis mounting holes.
2. Use M10x35mm hex head bolts with full thread to secure the front bumper main weld assembly to the fenders and brackets.
3. Repeat the same steps on the other side.
4. Center the bumper to the vehicle body and lift the lower bolts on both sides to adjust it to the correct position.

Note: Leave approximately 25 mm of clearance between the bumper and the bumper wing. This is to allow for chassis flexibility and prevent the body panels from contacting the bumper.

Warning: Unless a bumper lift is used, it is recommended that two people work together to avoid personal injury or damage to the vehicle and/or its components.

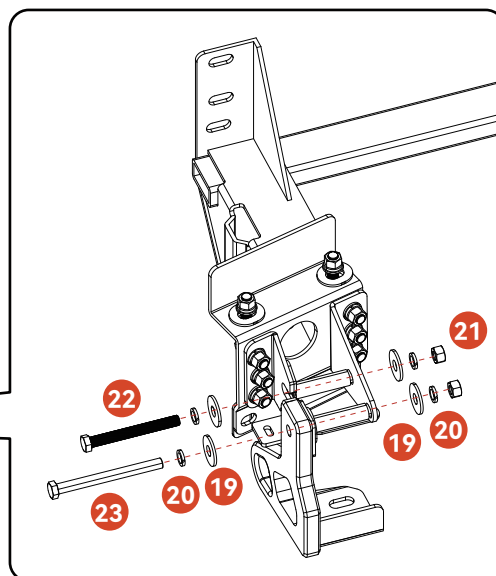
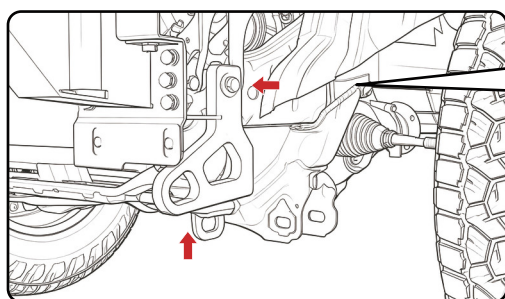
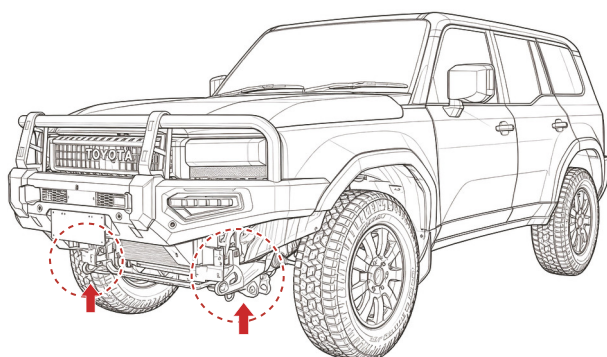


05 INSTALLATION STEPS

STEP 6

				
19 8X	20 8X	21 4X	22 2X	23 2X

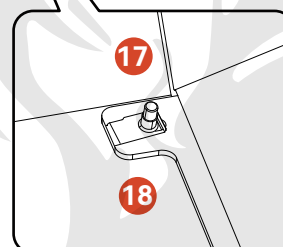
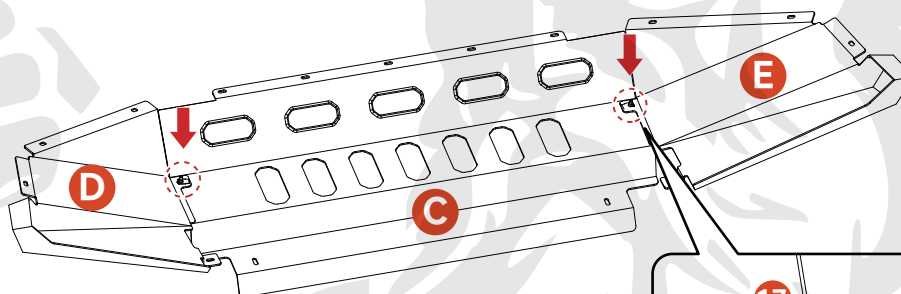
1. Install the trailer hitch, aligning the holes at the connection point.
2. Secure the bottom with washers and bolts.
3. Secure the side of the trailer hitch with M12x110mm and M12x130mm bolts and washers.



STEP 7

	
17 2X	18 2X

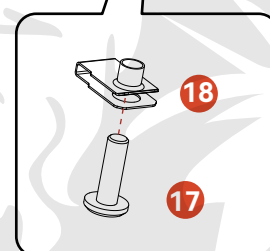
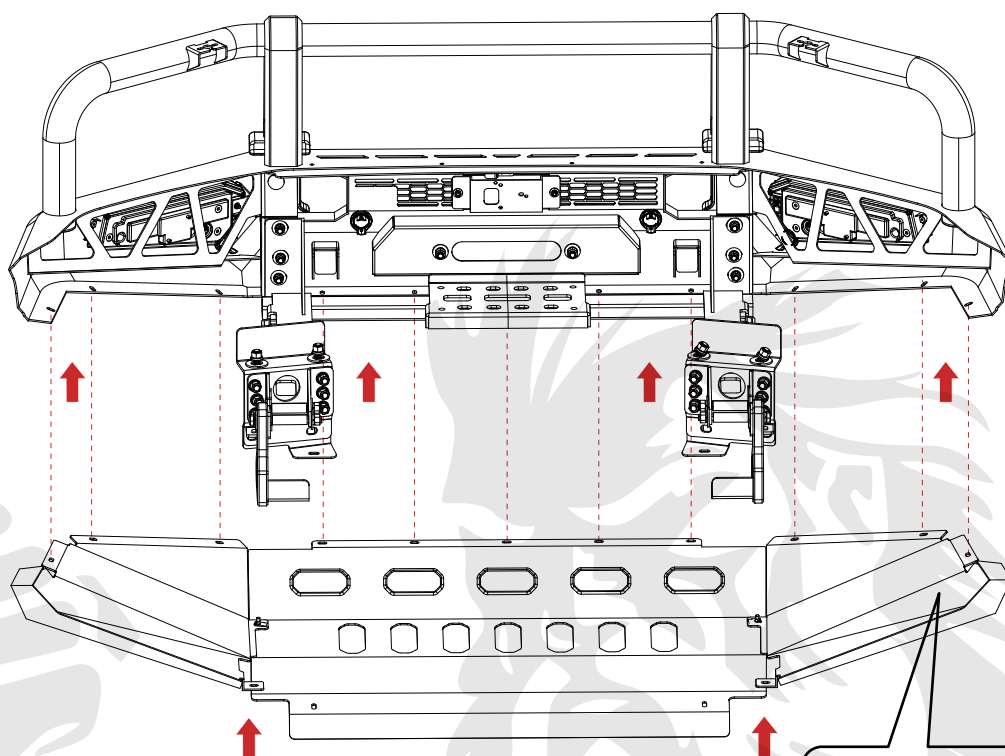
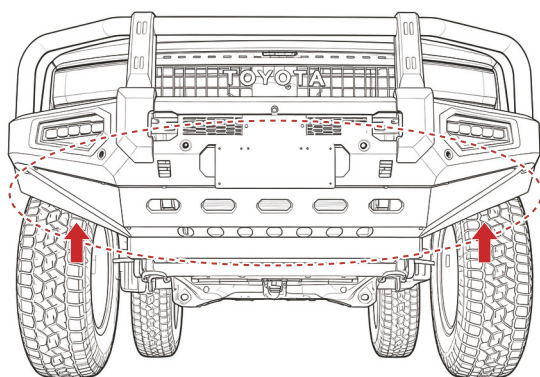
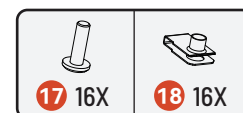
1. Install the protective plate, aligning the holes at the joints.
2. Secure the protective plate using M6x20mm bolts and clip nuts.



05 INSTALLATION STEPS

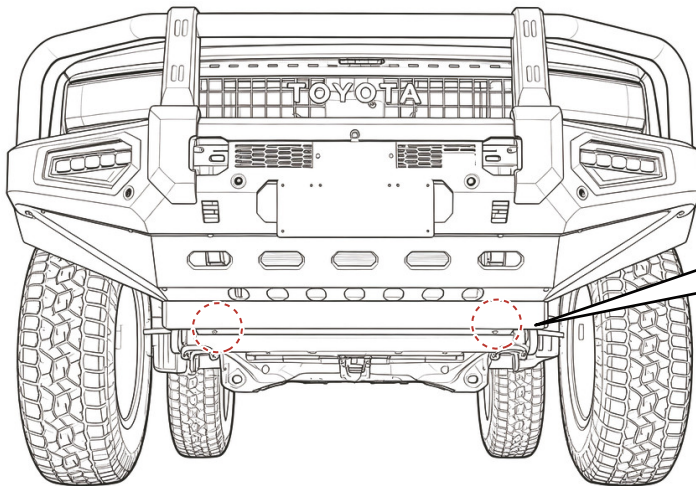
STEP 8

- 1. Install the skid plate, connect it to the bottom of the front bumper main assembly, and align the holes at the connection point.
2. Secure the skid plate using M6x20mm bolts and clip nuts.



STEP 9

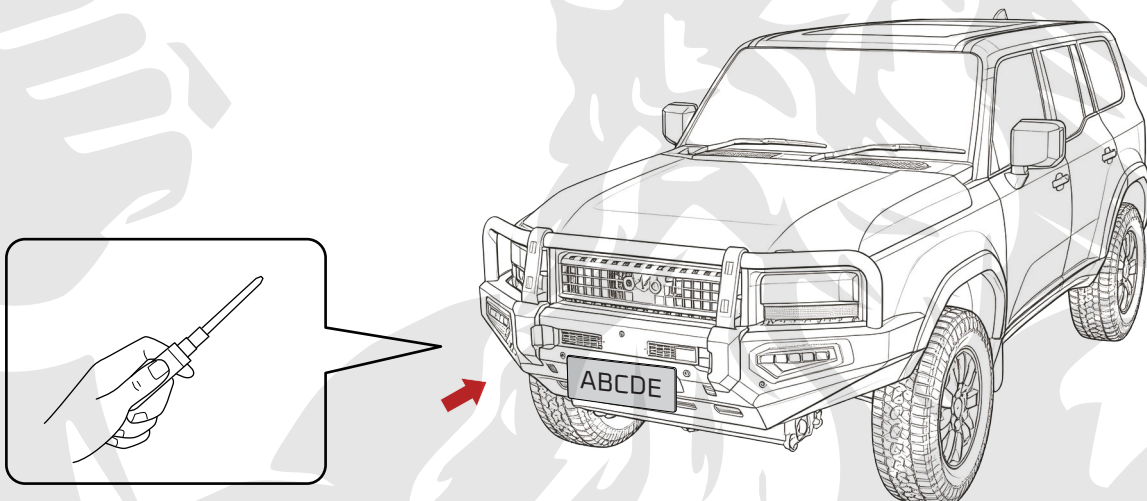
- 1. Align the mounting holes on the bottom of the skid plate and bumper.
2. Secure the bottom using the original vehicle's screws.



STEP 10

- 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: Branding is important. Ensure the brand badge is placed straight and firmly attached to the surface of the bumper.



■ 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.



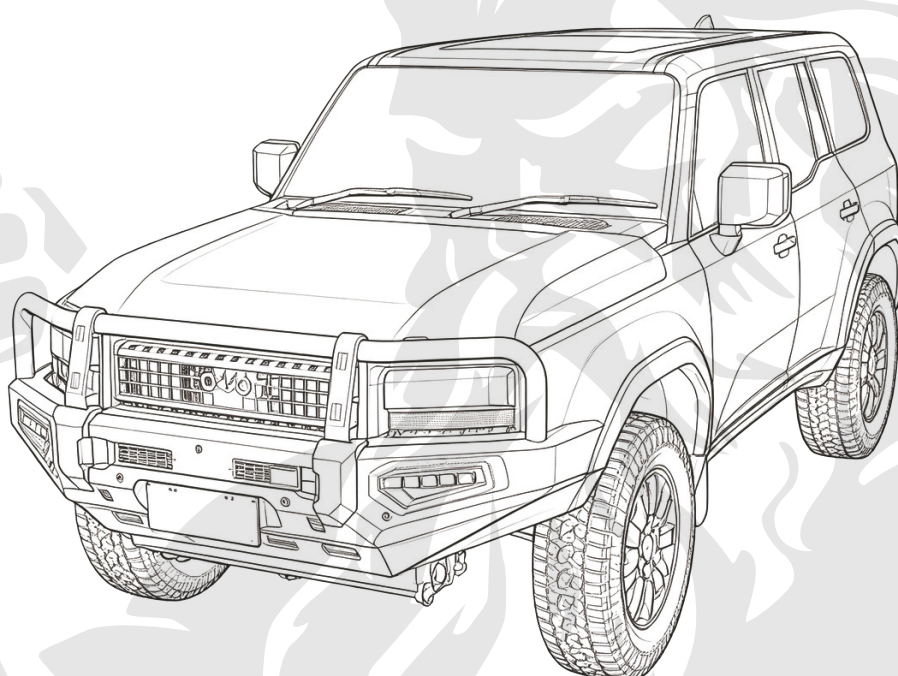
Sensor function verification: Test the working status of the reversing radar, parking sensor, and 360-degree panoramic front camera (if any) to confirm that there are no continuous false alarms and that the images are not obstructed or distorted.

■ 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