

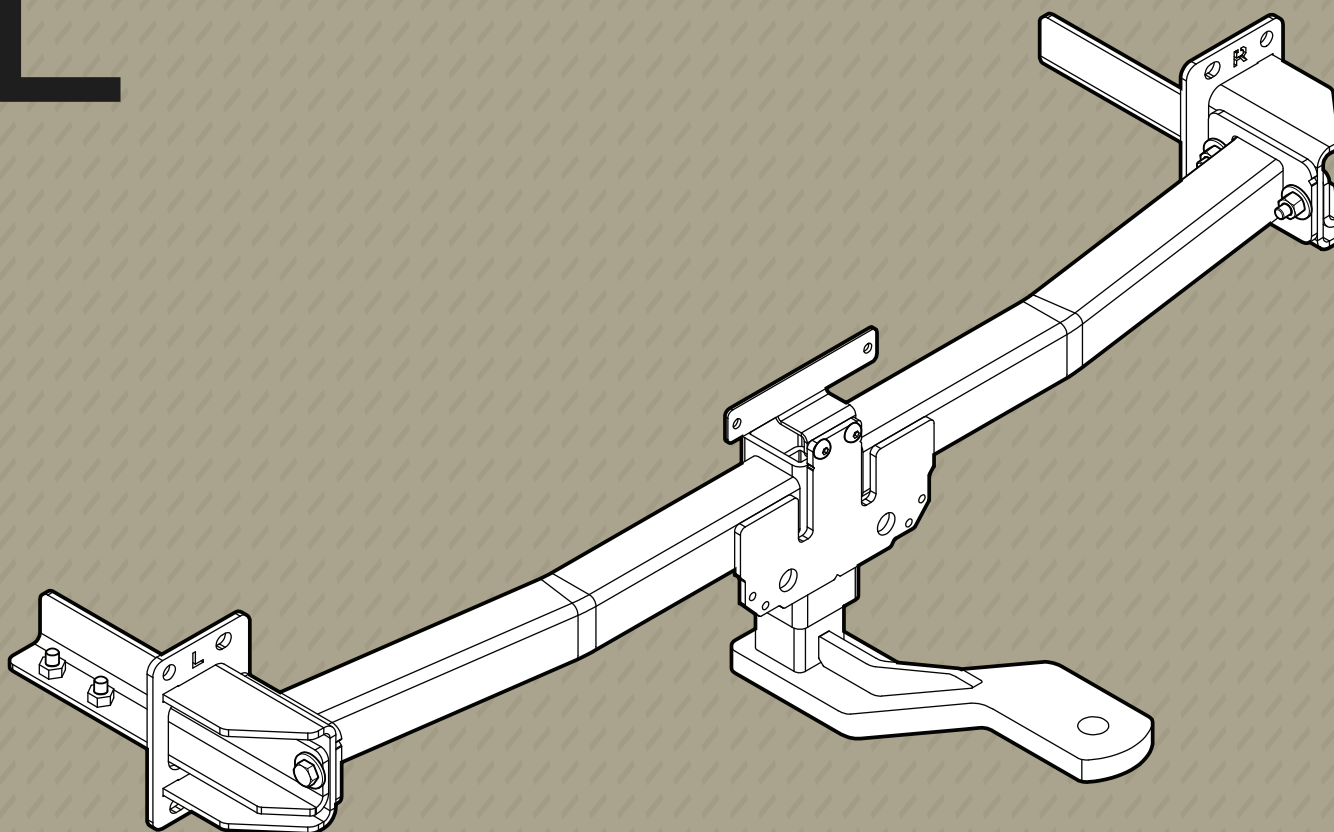


EST 1956
CARASEL®

**FITTING
INSTRUCTIONS**

BYD — SEALION

P/N — BYD6G2
CONTROLLED



ISSUE #: 03
ISSUE DATE: 8/11/2024

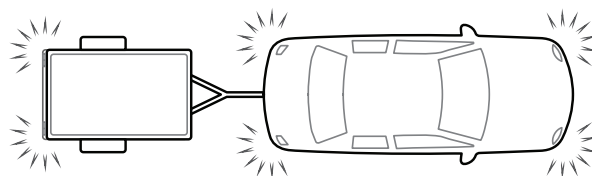
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IMPORTANT INFORMATION

- CHECK THE MAXIMUM TOWING CAPACITY OF YOUR VEHICLE AS STATED BY THE VEHICLE MANUFACTURER.
- DO NOT EXCEED THE MAXIMUM TOWING CAPACITY OF YOUR VEHICLE OR OF THIS TOWBAR. COMPLY WITH THE LOWEST OF THESE TWO VALUES.
- THIS PRODUCT IS FOR TOWING PURPOSES ONLY AND MUST ONLY BE LOADED AS STATED IN YOUR VEHICLE OWNER'S MANUAL.

CHECK:



Note: Tail lights remain on when vehicle is running. This is a safety feature of BYD.

0km



Torque
hardware

+1000km



Re-torque
hardware

+1000km



Re-torque
hardware

+1000km






GENERAL:

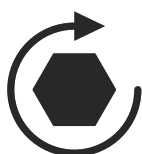
- Read these instructions thoroughly and check all components are correct before installation.
- These instructions must be followed for warranty to be upheld.
- Check that the towbar is suitable for the vehicle and be wary of any aftermarket changes to the vehicle design that may conflict with the fitting of this towbar. (Tray, Canopy, Suspension etc.)
- Load ratings specified are under the assumption that your trailer has suitable braking systems for its weight.
- After installation is completed, store these instructions in the vehicle's glovebox with vehicle's manual.
- When towing a load behind your vehicle, the handling characteristics of your vehicle will be affected. Be cautious when cornering, braking and accelerating, especially when towing wind-resistant loads, and when travelling in off-road conditions.

WARNING:

- Always inspect towbar and towbar accessories before use.
- Do not use towbar if any signs of damage, rust corrosion or fractures are present.
- Do not alter or modify this towbar in any way.
- Do not install / use towbar if there is any damage near the towbar mounting area, or if your vehicle is involved in a collision.
- If vehicle drilling is required, check behind chassis rail and body panels before drilling to ensure no hazards are present. After drilling, remove swarf and treat exposed metal with a rust inhibitor.
- Ensure that your vehicle is on level ground and securely parked before beginning installation / maintenance work.
- Always wear appropriate protective gear before beginning installation / maintenance work. 

TOWBAR MAINTENANCE AND CARE:

- Regularly inspect all bolted connections, ensuring they are torqued to the specifications below and are in good condition.
- Clean tow ball and hitch with brake cleaner to avoid abrasion.
- When not in use, store the Tow Ball Mount assembly and CLASS 4 Pin and Clip inside the car away from moisture.
- Before driving with a trailer, attach the trailer to the towbar and check that all electrical wiring is fully functional.



TIGHTEN BOLTED CONNECTIONS TO THE FOLLOWING TORQUE SETTINGS,
UNLESS OTHERWISE SPECIFIED IN INSTRUCTION STEPS:

M16: 210 - 240 Nm

M12: 100 - 120 Nm

M6: 12 - 15 Nm

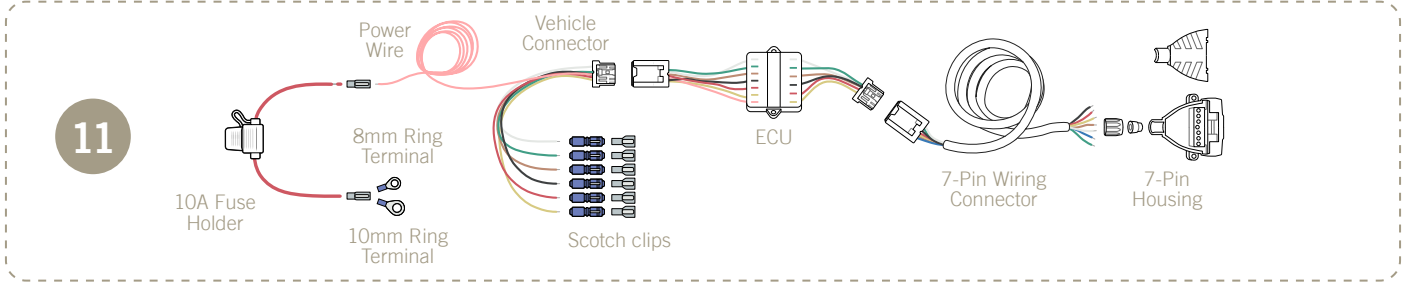
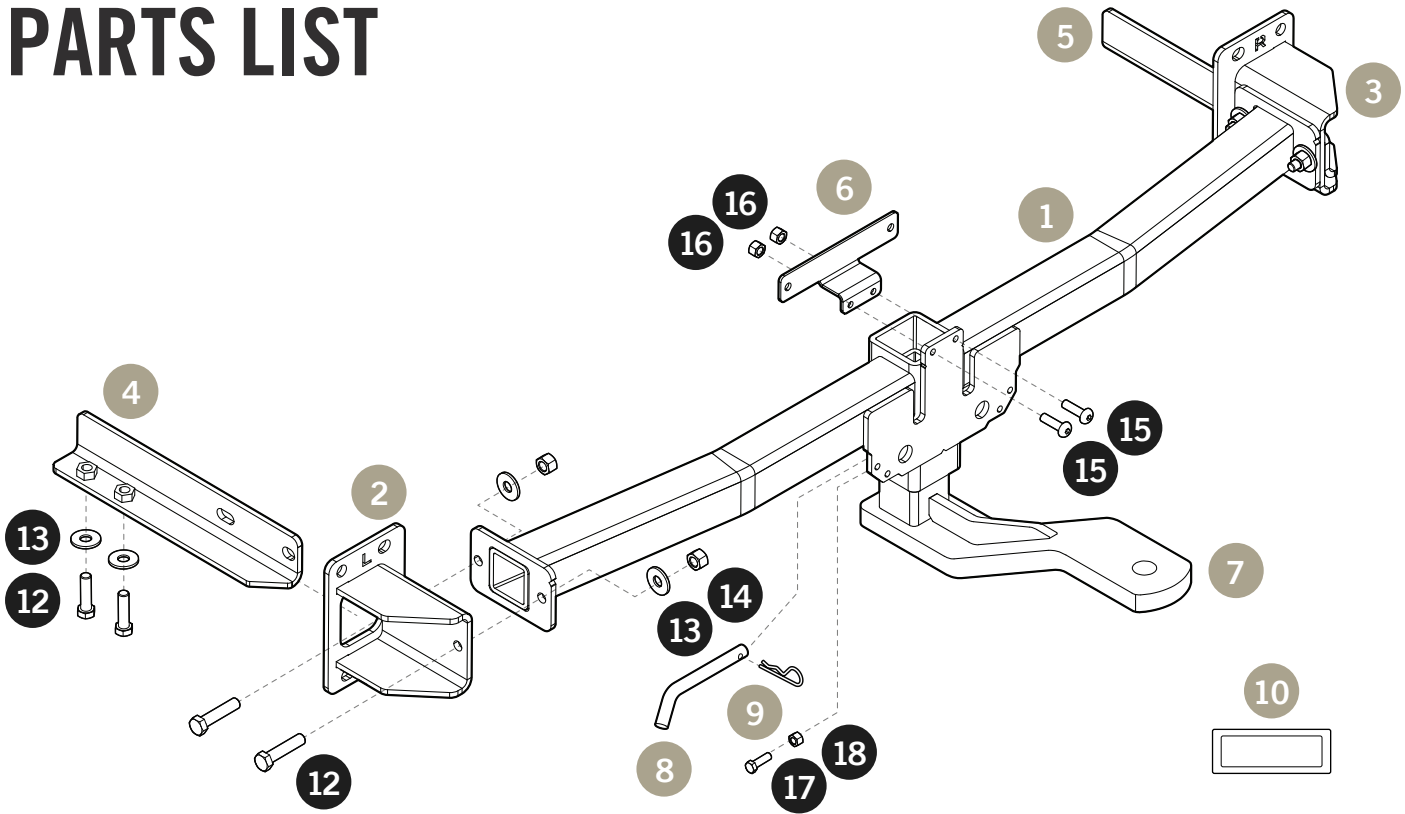
M14: 150 - 170 Nm

M10: 60 - 70 Nm








M4: 4 - 5 Nm


These fitting instructions are the property of Carasel Pty. Ltd. and may not be altered for any other purpose than intended.

PARTS LIST



#	PART	QTY
1	CROSS-BEAM	x1
2	LEFT CORNER BRACKET	x1
3	RIGHT CORNER BRACKET	x1
4	LEFT CHASSIS BRACKET	x1
5	RIGHT CHASSIS BRACKET	x1
6	SENSOR BRACKET	x1
7	TOWBAR HITCH	x1
8	PIN	x1
9	R-CLIP	x1
10	LOAD RATING STICKER	x1
11	TOWBAR BYPASS KIT	x1

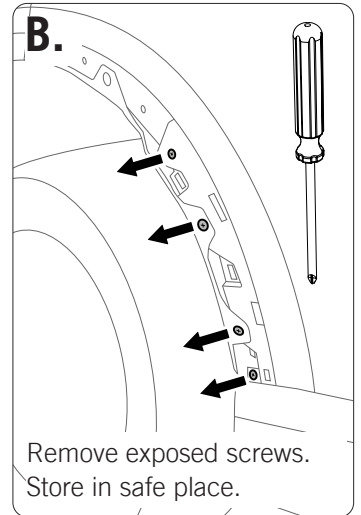
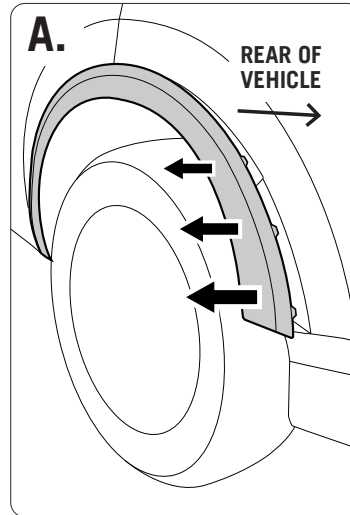
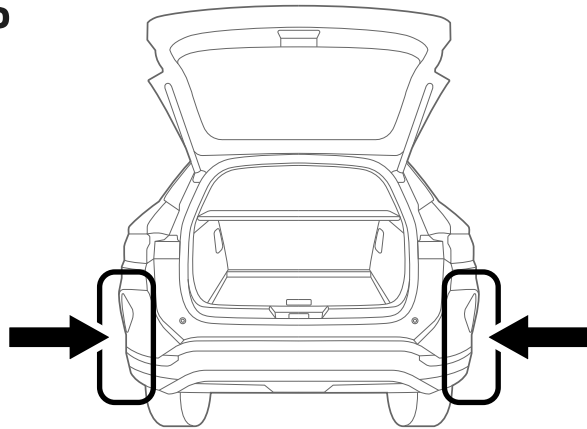
#	HARDWARE	QTY
12	M10 x 40mm x 1.25p BOLT	x8 
13	M10 FLAT WASHER	x8 
14	M10 1.25p NUT	x4 
15	M6 x 20mm BUTTON SCREW	x2 
16	M6 NYLOC NUT	x2 
17	3/8" ANTI RATTLE BOLT	x2 
18	3/8" NUT	x2 

**TOOLS
REQUIRED**

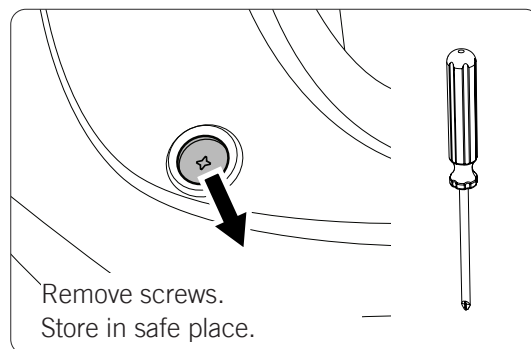
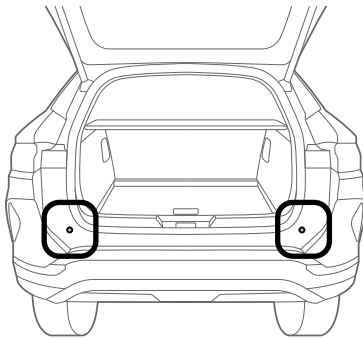
- Phillips Head Screwdriver
- 17mm Socket Wrench
- 10mm Socket Wrench
- Torque Wrench
- Allen Key
- Soldering Iron
- Electrical Tape
- Electrical Wire 1.5mm
- Zip ties x10

VEHICLE PREPARATION

STEP 01

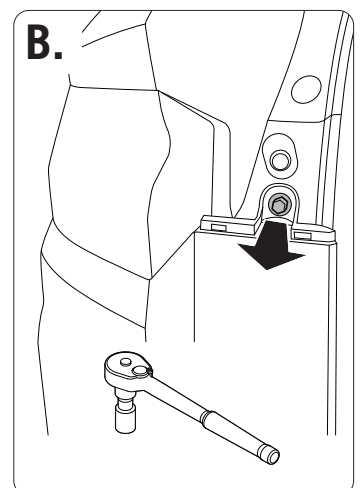
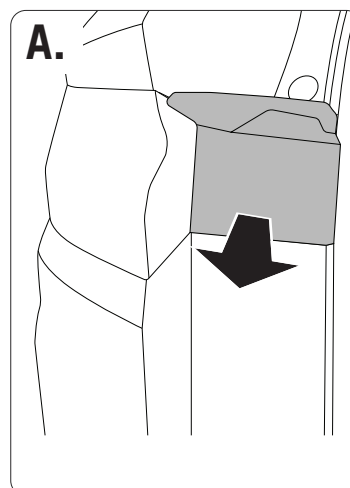
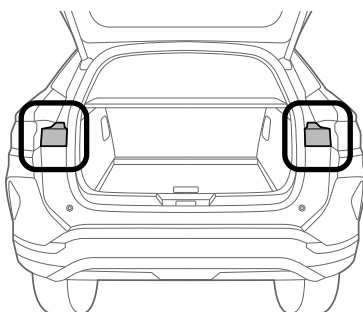


STEP 02



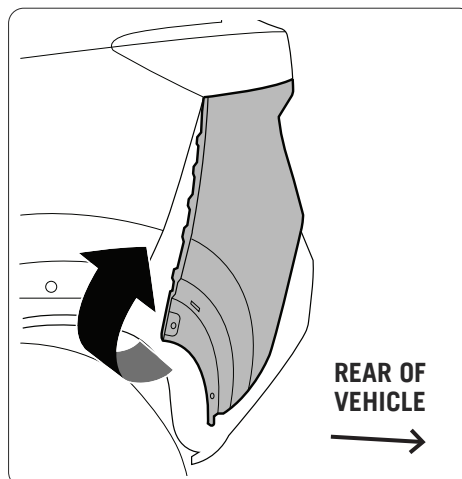
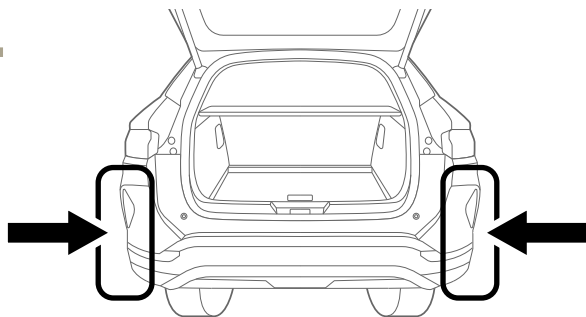
STEP 03

Remove rear headlight plastic.
Remove exposed screws.
Store in safe place.



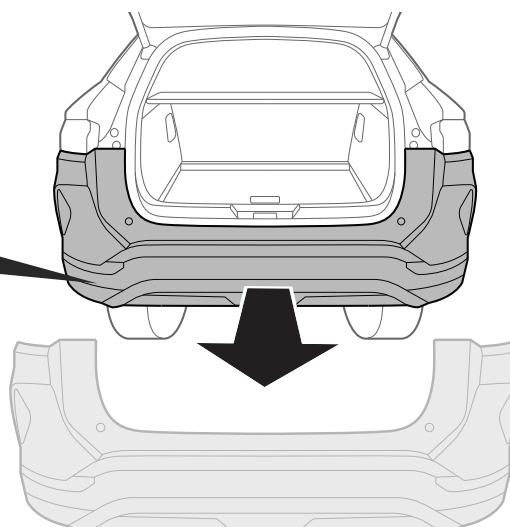
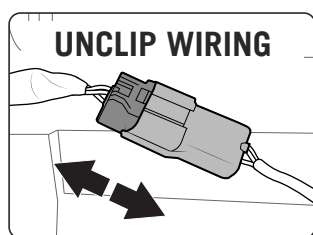
STEP 04

Carefully lift off bumper sides.

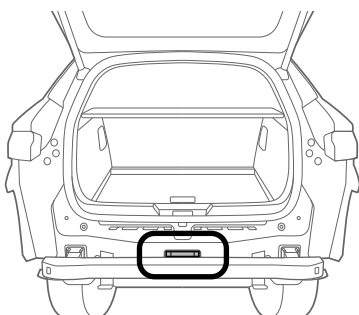


STEP 05

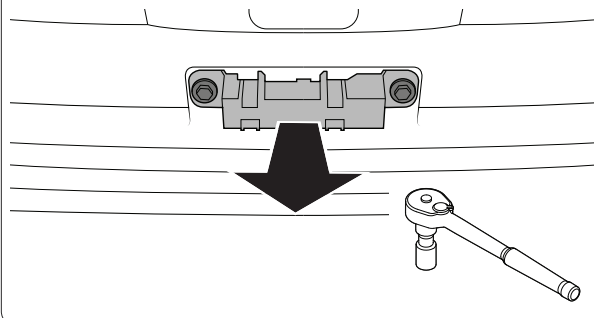
Carefully remove Bumper, unclip wiring.
Store in safe place.



STEP 06



Carefully remove Boot Sensor.
Store in a safe place for re-install at **STEP 20**

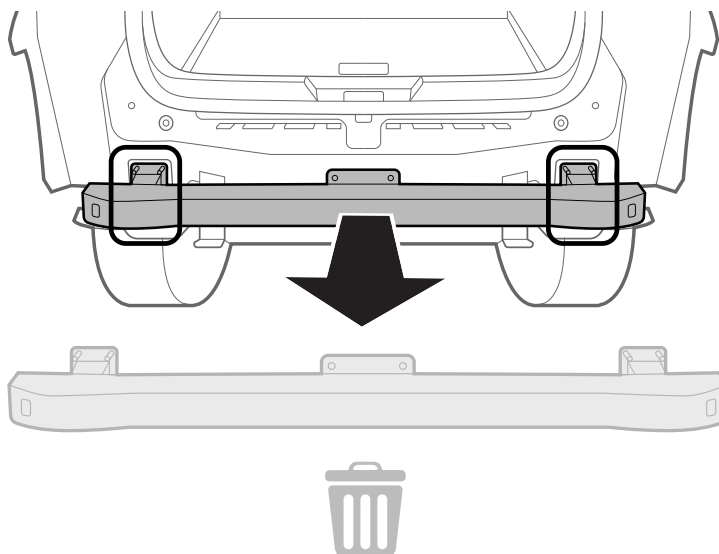




STEP 07

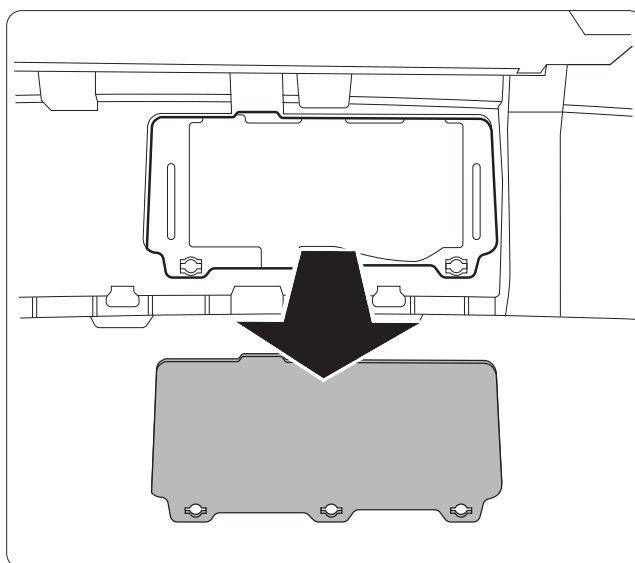
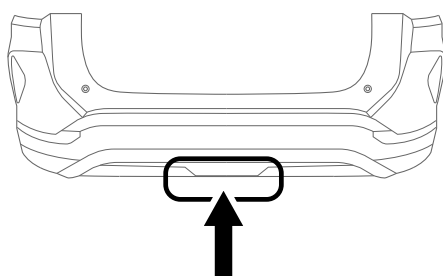
Remove and discard reinforcement bar.

Store factory hardware in a safe place for re-install at **STEP 10**



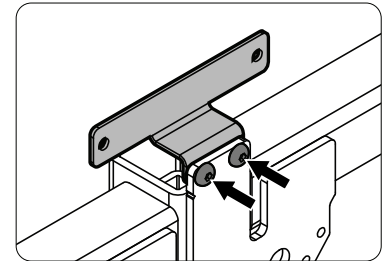
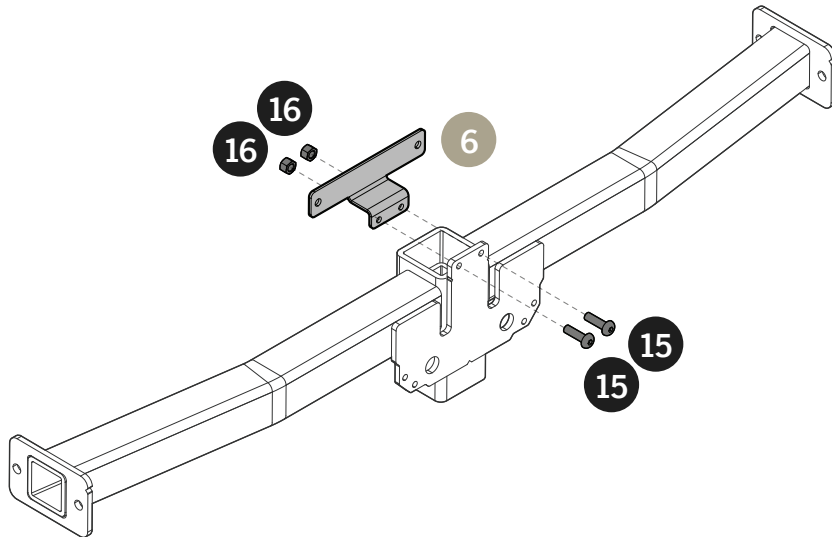
STEP 08

Remove window underneath bumper.
Store in safe place.



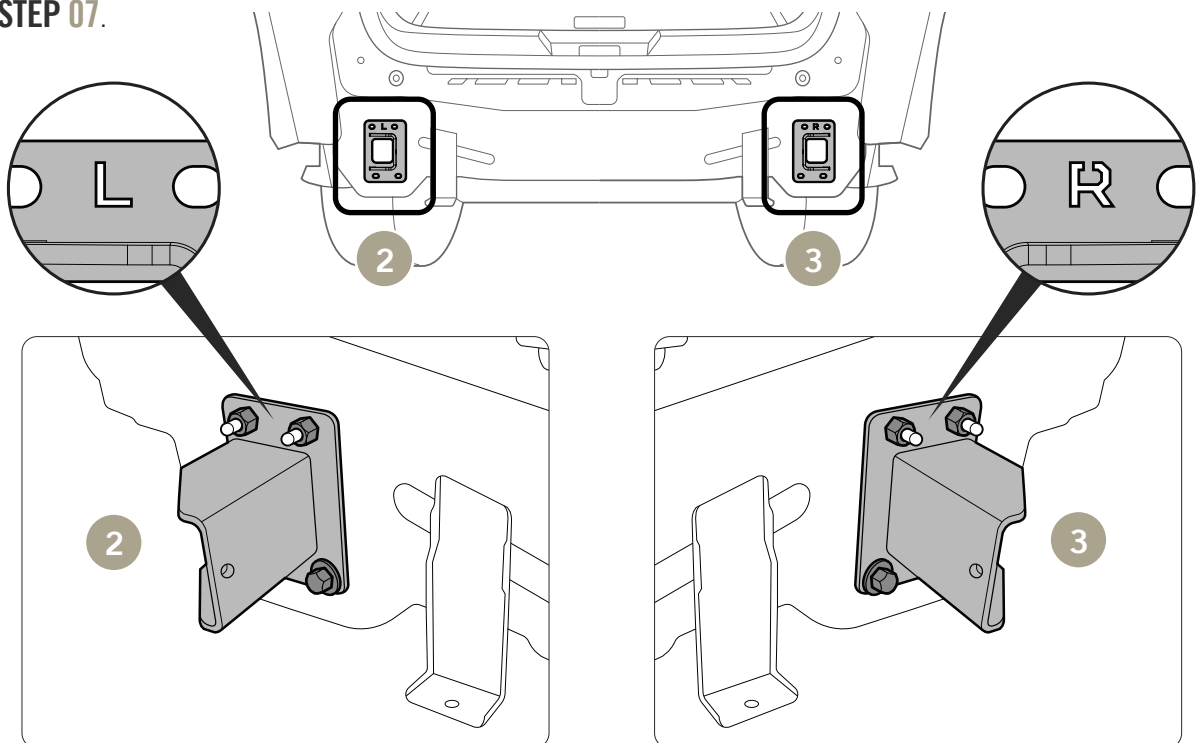
TOWBAR INSTALLATION

STEP 09

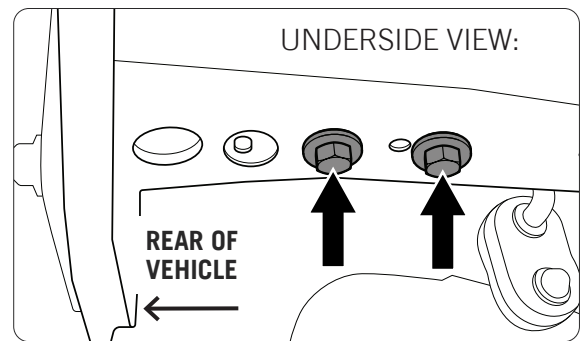
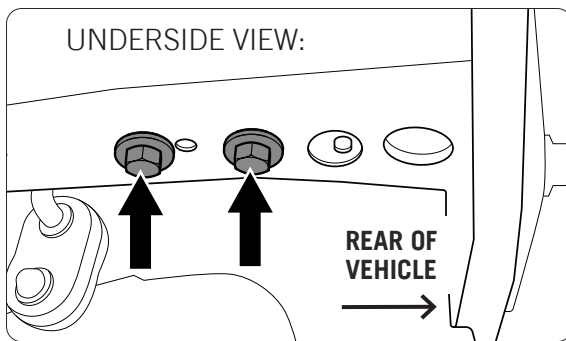
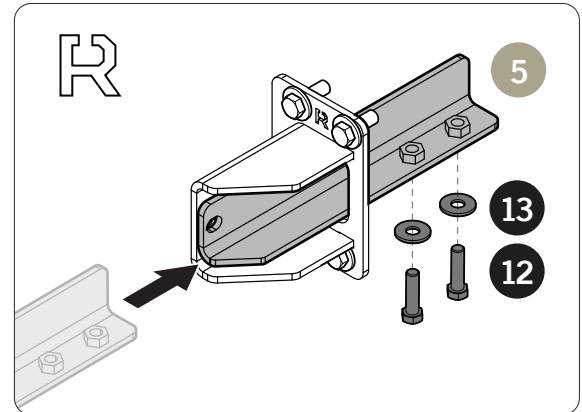
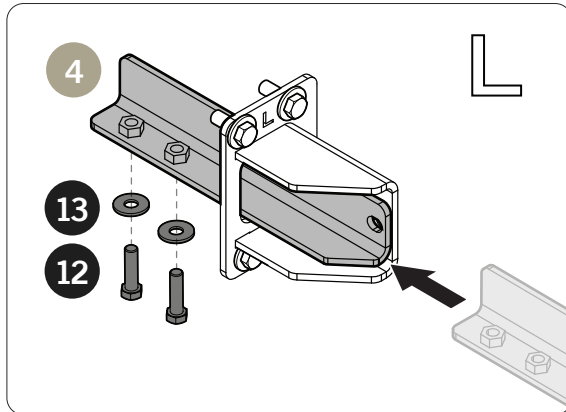
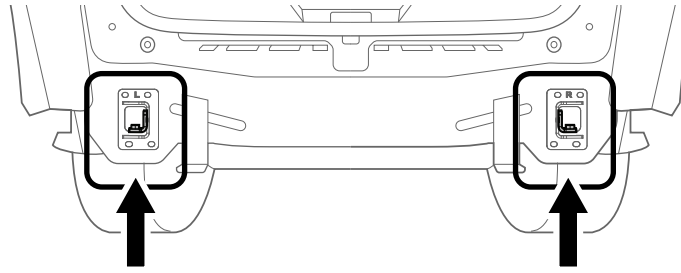


STEP 10

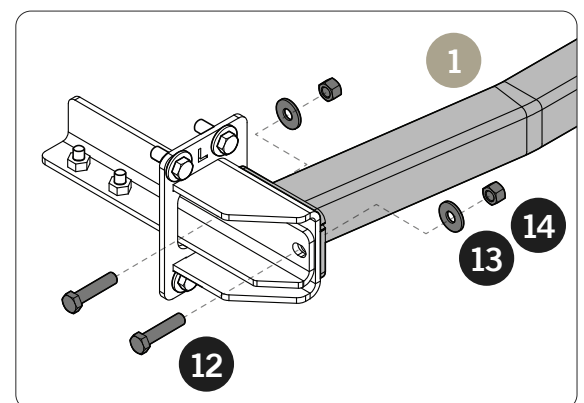
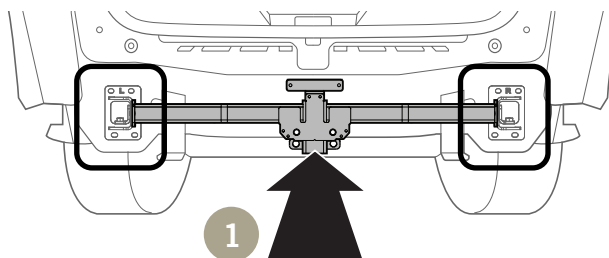
Install Left and Right Brackets using factory hardware from STEP 07.



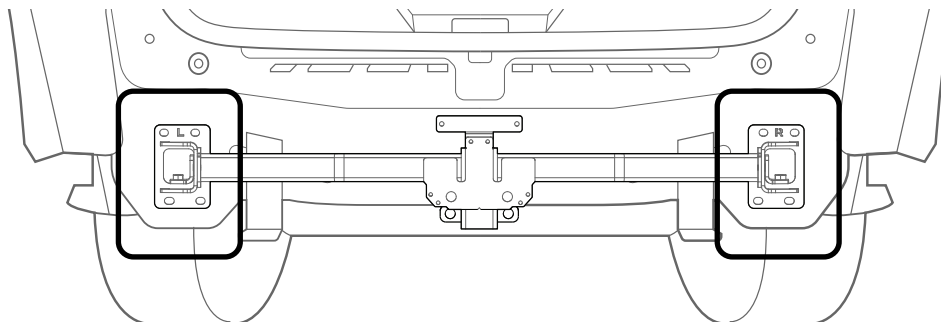
STEP 11



STEP 12



STEP 13

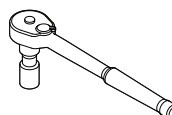


TIGHTEN ALL HARDWARE



M10: 60-70 NM

17mm Socket Wrench
+ Torque Wrench



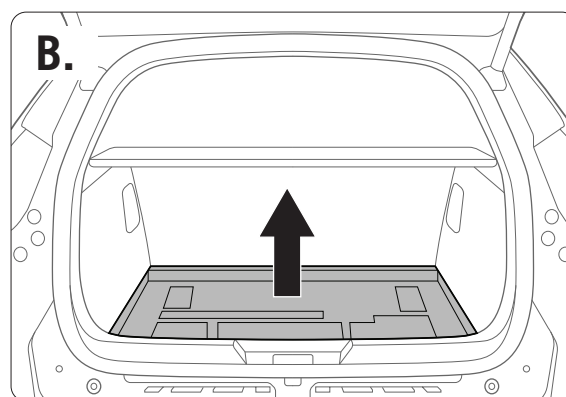
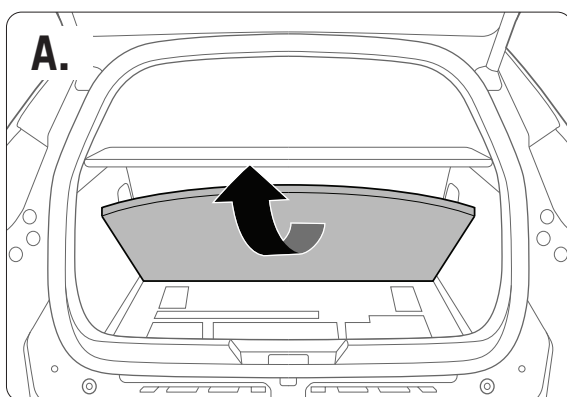
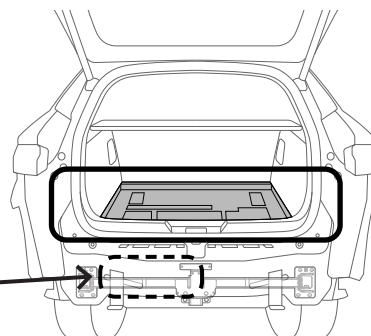
WIRING STEPS

STEP 14

Boot floor will need to be accessed for wiring steps.

Carefully remove Rear boot panels.

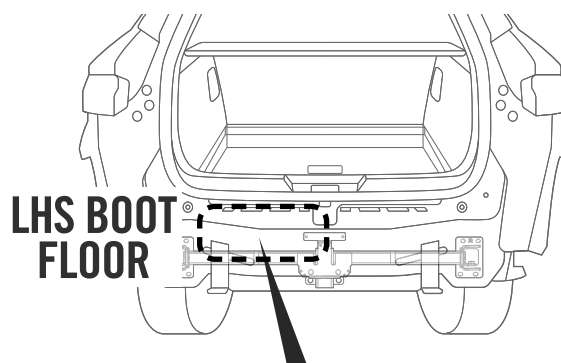
Access **2 wire harnesses** underneath
the REAR Boot Floor Panel.



STEP 15

Unclip 2 wire harnesses underneath the REAR Boot Floor Panel.

NOTE: WIRE COLOURS MAY VARY ACROSS VEHICLES. ALWAYS TEST YOUR LIGHT CONNECTIONS.



Connect ECU wires to Vehicle wires as follows:

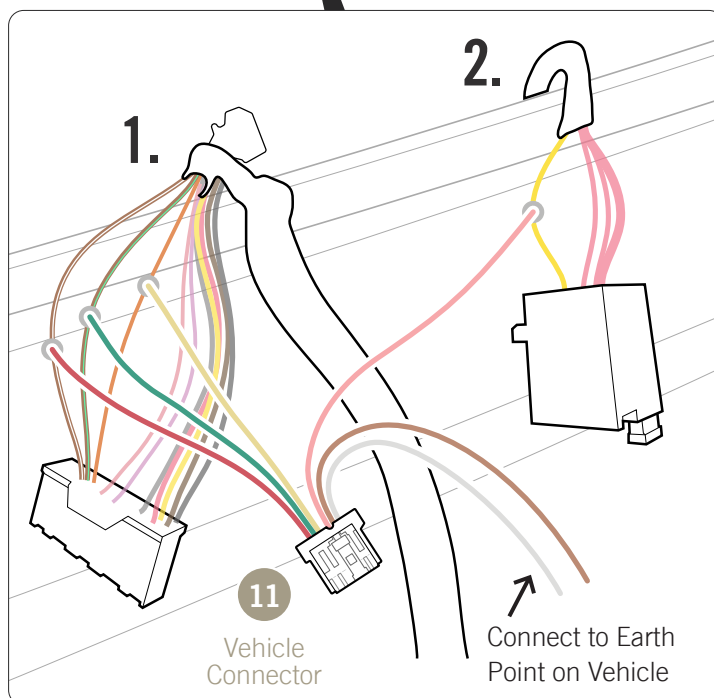
ECU	Vehicle HARNESS 1
RED	> BROWN & ORANGE (Brake light)
YELLOW	> ORANGE (Left Indicator)
GREEN	> BROWN & WHITE (Right Indicator)

ECU	Vehicle HARNESS 2
PINK	> YELLOW (Power)

WHITE > *Earth Point on Vehicle*



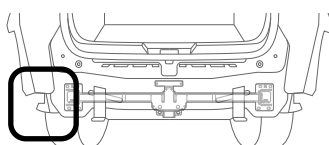
each individual connection



STEP 16

Access wire harness on LHS vehicle chassis, which was unclipped during **STEP 05**.

LHS BUMPER HARNESS

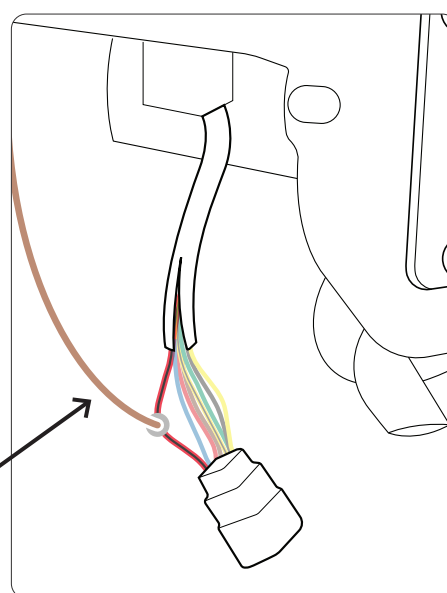


Connect **BROWN ECU wire** to **RED & BLACK wire** (Tail Light) on vehicle harness.



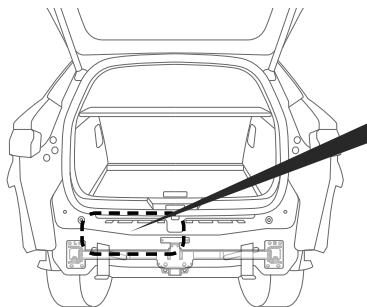
Note: BROWN ECU wire will need to be extended in order to reach harness.

Solder additional 1 metre of Electrical Wire.



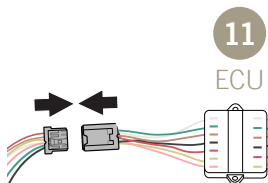
Note: Tail lights remain on when vehicle is running. This is a safety feature of BYD.

STEP 17



A.

11
Vehicle Connector

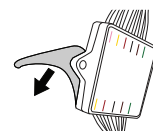


11
ECU

11
7-Pin Wiring Connector

B.

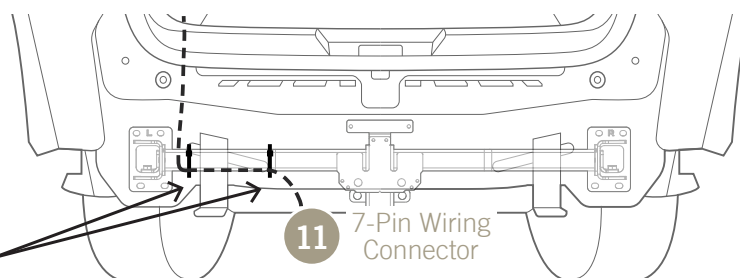
Peel backing off ECU and place ECU in a secure location underneath boot floor panel.



STEP 18

Feed 7-Pin wiring through vertical grommet underneath boot floor. Secure with zipties.

IMPORTANT: Zip-tie excess wire to the towbar / vehicle body. Avoid sharp edges and areas with heat.

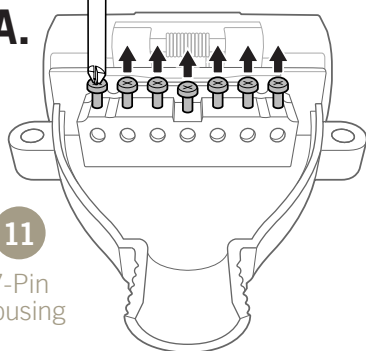


STEP 19

A.

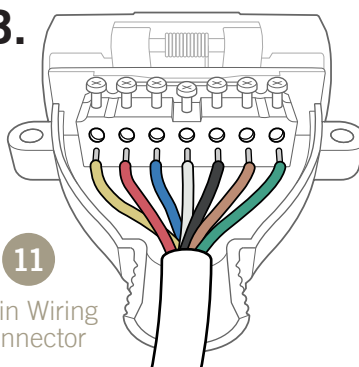
Philips Head Screw Driver

11
7-Pin Housing



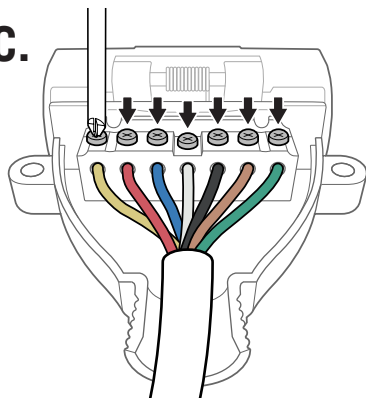
B.

11
7-Pin Wiring Connector

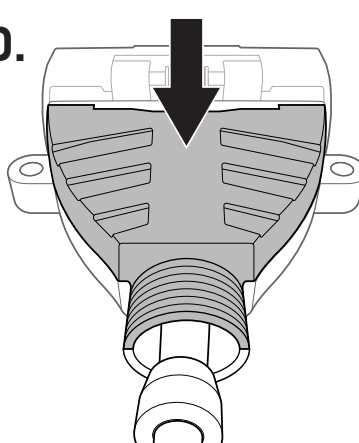


×	×	×	×	×	×	×
L. SIGNAL (Yellow)	BRAKE (Red)	ELECT. BRAKE (Blue)	EARTH (White)	AUXILIARY (Black)	TAIL (Brown)	R. SIGNAL (Green)

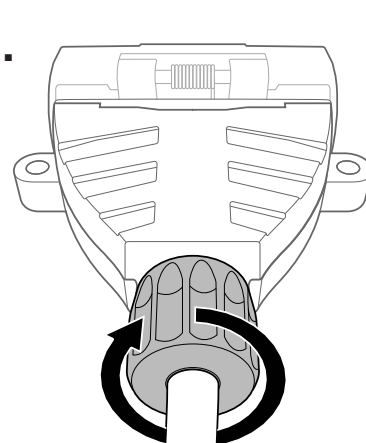
C.



D.



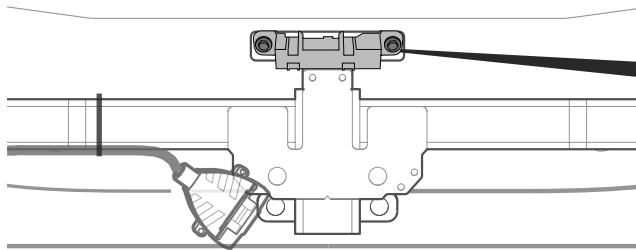
E.



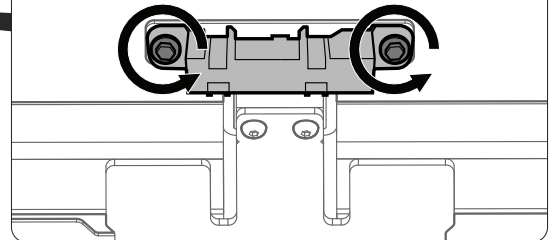


FINALISE FITMENT

STEP 20



Reattach Boot Sensor from **STEP 06**

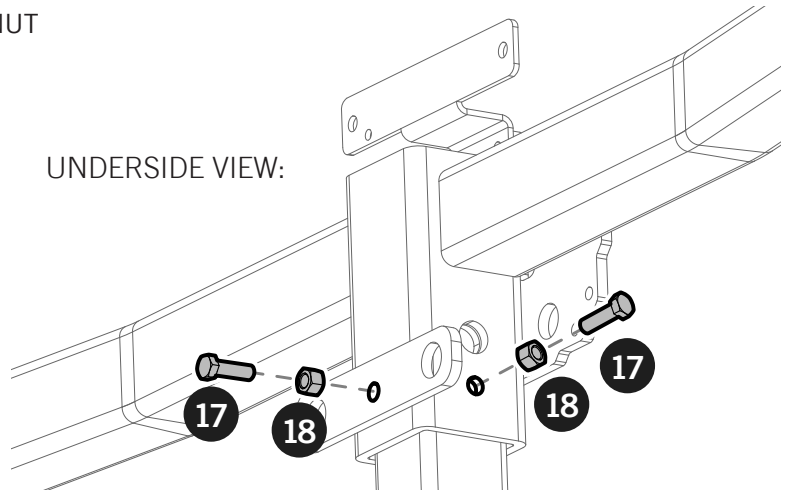


STEP 21

Install x2 3/8" ANTI RATTLE BOLT + NUT to the side and rear face of the hitch.

NOTE: Install D-shackles at this step before bumper is reinstalled on vehicle.

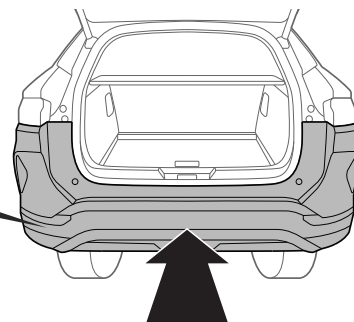
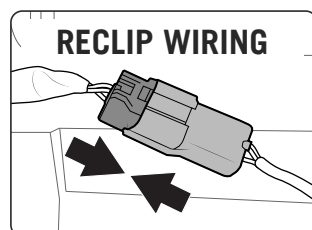
UNDERSIDE VIEW:



STEP 22

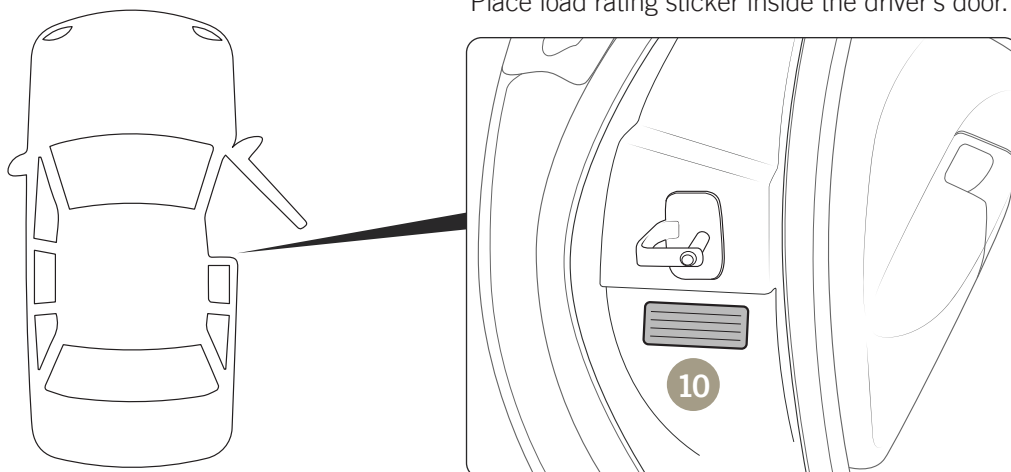
COMPLETE STEPS 01-05 AND 14 IN REVERSE ORDER.

Reinstall all factory components and hardware to vehicle manufacturer's specifications.



STEP 23

Place load rating sticker inside the driver's door.



TOWBALL USAGE

STEP 24

- A) Slide the towbar hitch into place. 7
- B) Use the pin to hold the hitch in place. 8
- C) Using an R-clip, fix the pin in place. 9

EXAMPLE ONLY:

