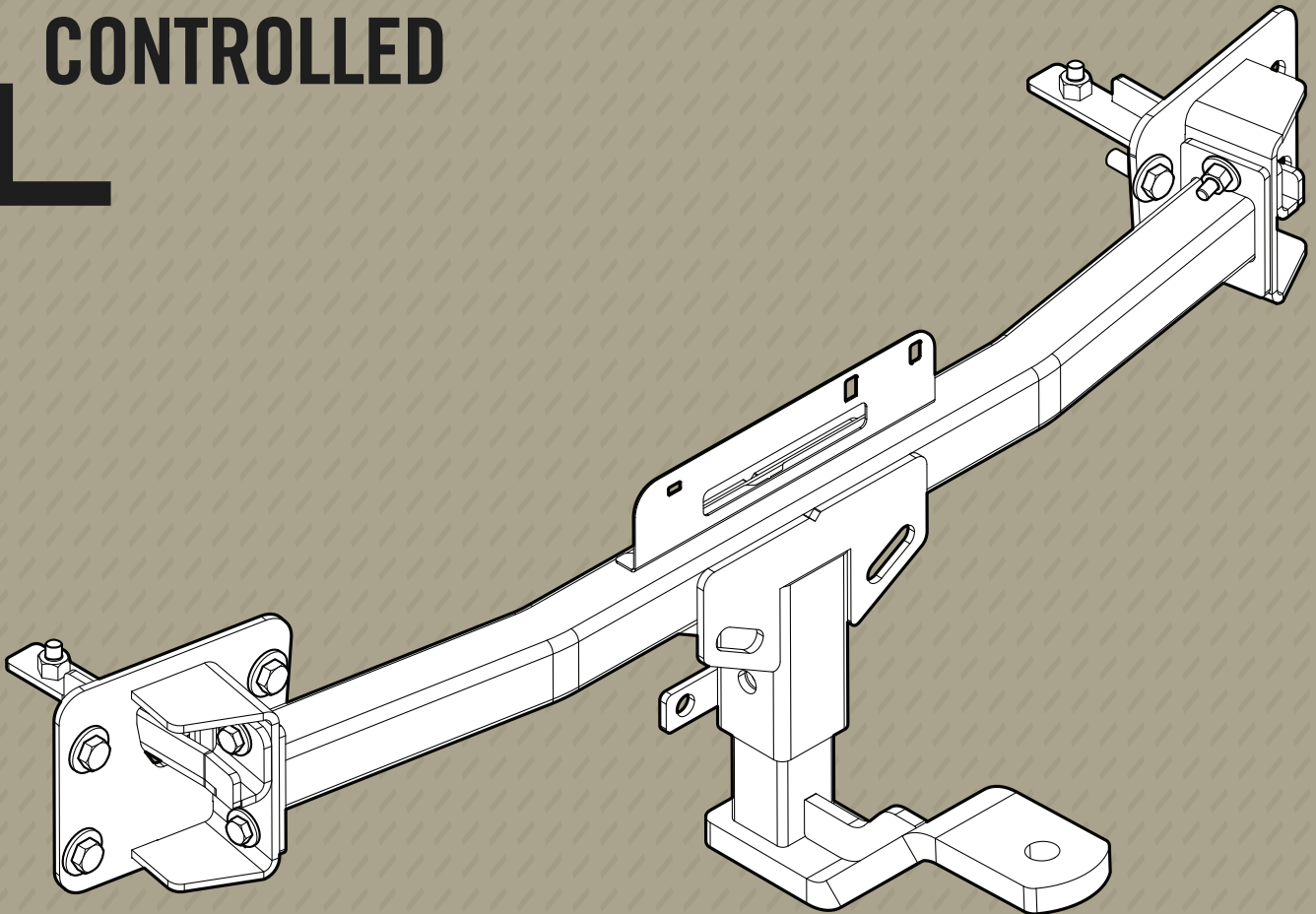




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CARASEL®

**FITTING
INSTRUCTIONS**

**BYD —
SEAL**
P/N — BYD5G2
CONTROLLED



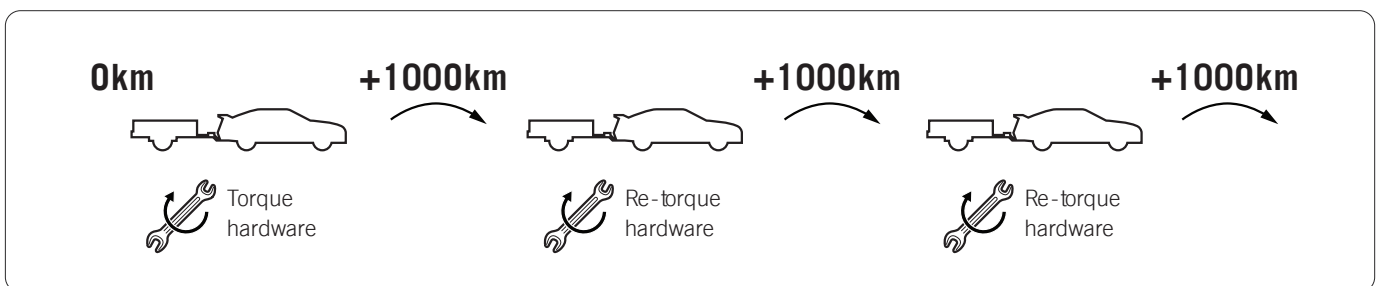
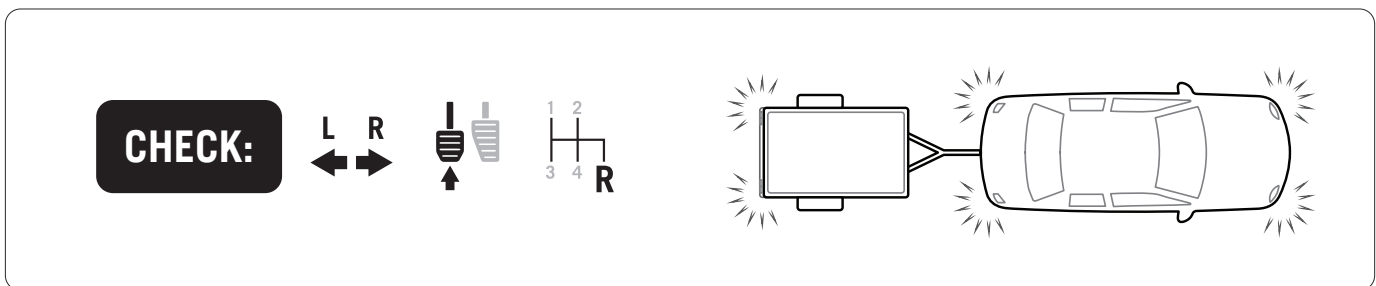
ISSUE #: 04
ISSUE DATE: 07/11/2024

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15	TOWBALL USAGE

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.






GENERAL:

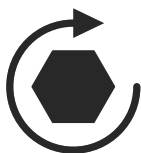
- Read these instructions thoroughly and check all components are correct before installation.
- These instructions must be followed for warranty to be upheld.
- Check that the towbar is suitable for the vehicle and be wary of any aftermarket changes to the vehicle design that may conflict with the fitting 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

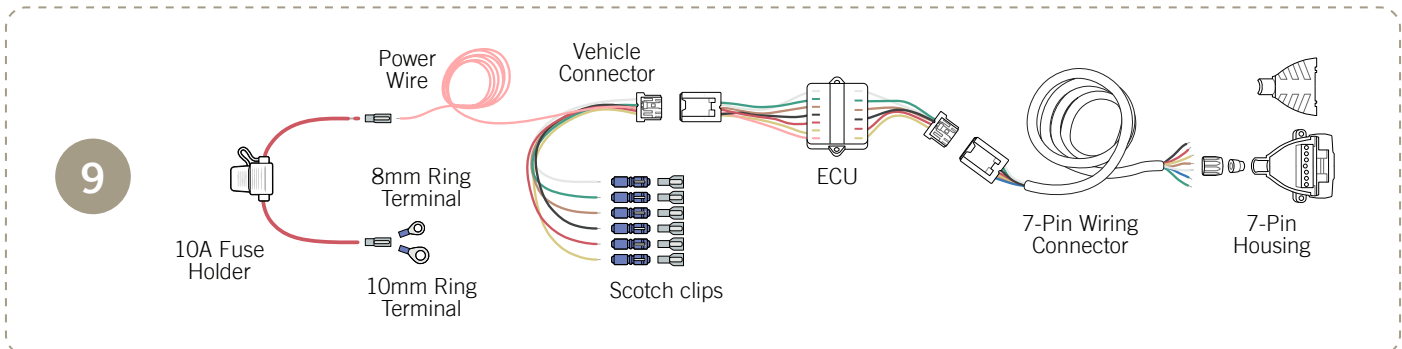
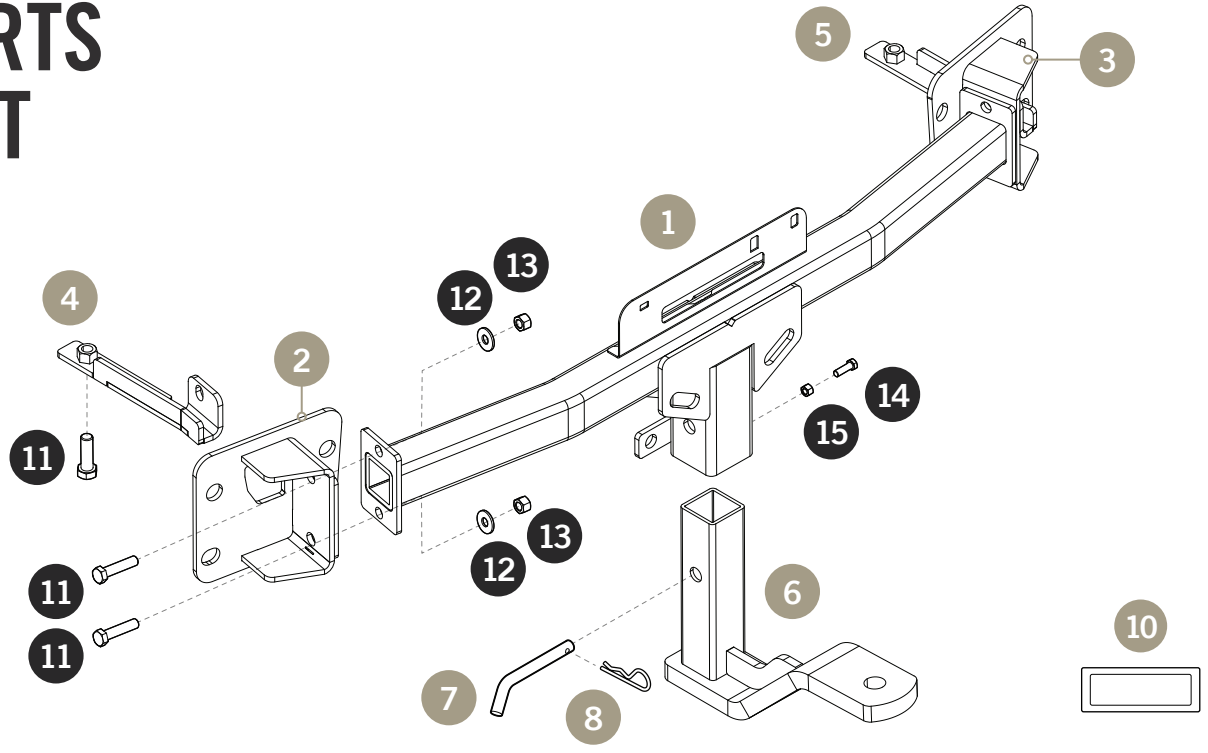
M14: 150 - 170 Nm

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	TOWBAR HITCH	x1
7	PIN	x1
8	R-CLIP	x1
9	TOWBAR BYPASS KIT	x1
10	LOAD RATING STICKER	x1

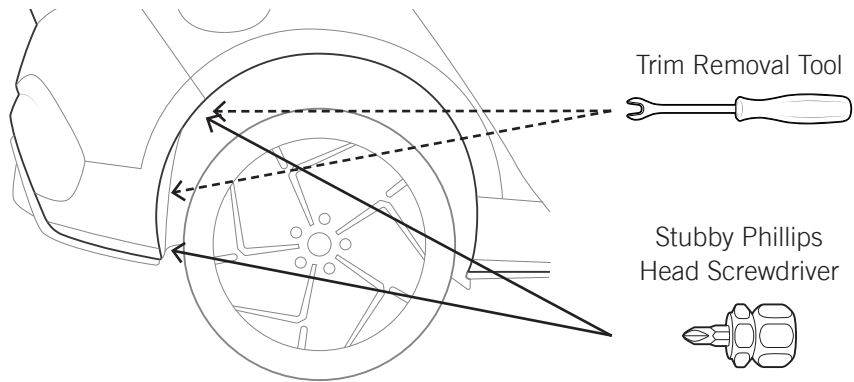
#	HARDWARE	QTY
11	M12 x 40mm x 1.25p BOLT	x6
12	M12 FLAT WASHER	x4
13	M12 x 1.25p NUT	x4
14	3/8" ANTI RATTLE BOLT	x1
15	3/8" NUT	x1

TOOLS REQUIRED 	<ul style="list-style-type: none"> Trim Removal Tool Stubby Phillips Head Screwdriver 10mm Socket Wrench 14mm Socket Wrench 19mm Socket Wrench Torque Wrench Soldering Iron 	<ul style="list-style-type: none"> Electrical Tape Electrical Wire 1.5mm (8 metres) Split Wire Loom (5 meters) Zip ties x10
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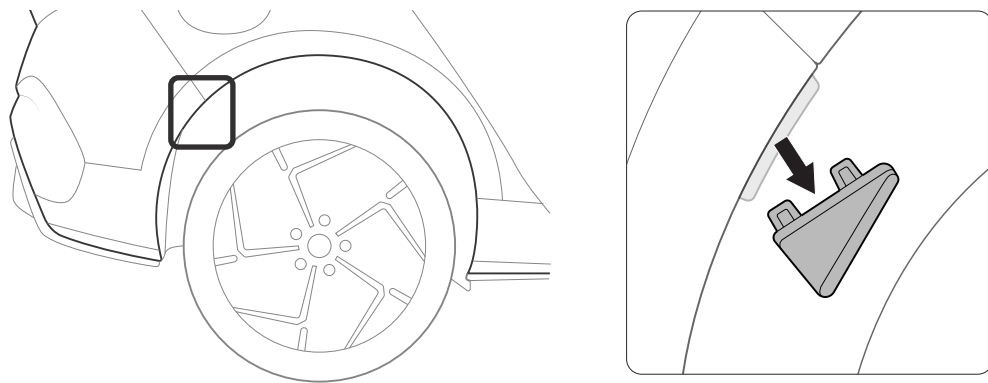


VEHICLE PREPARATION

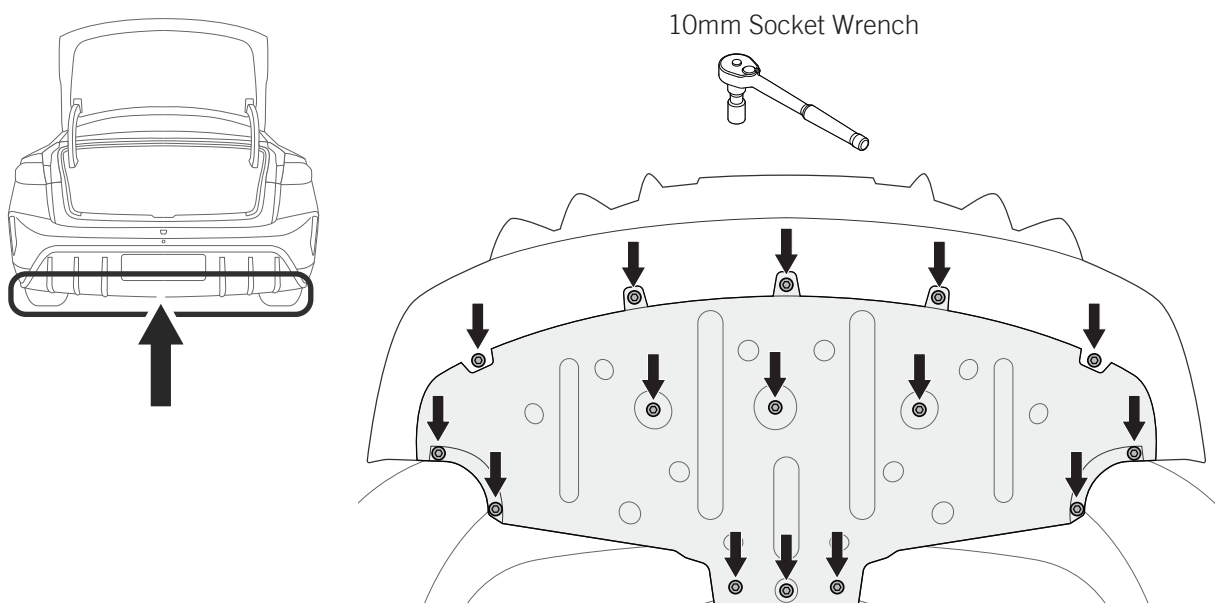
STEP
01



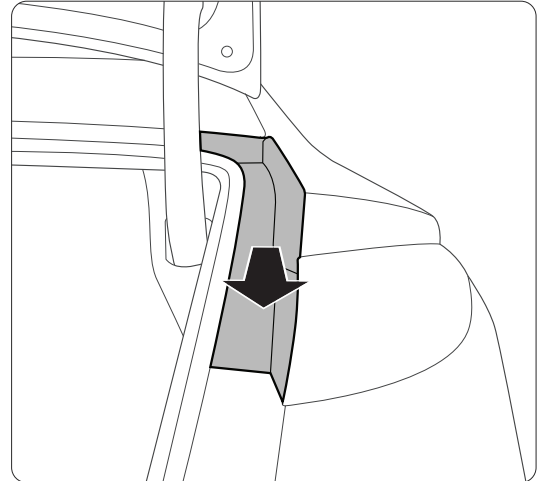
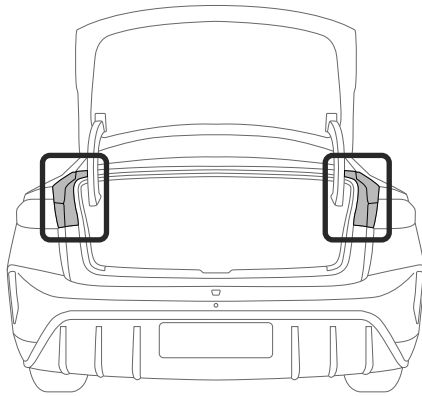
STEP
02



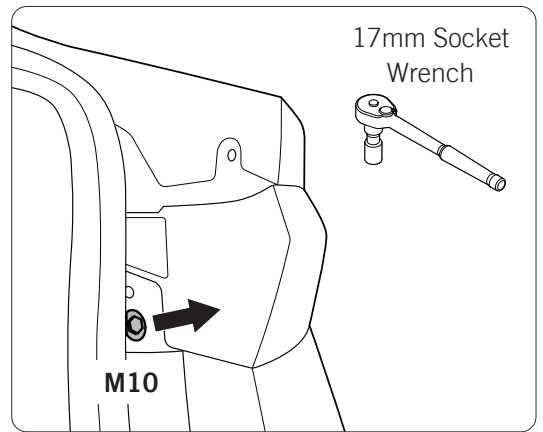
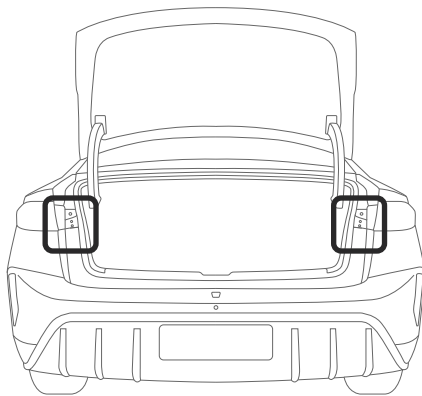
STEP
03



STEP 04

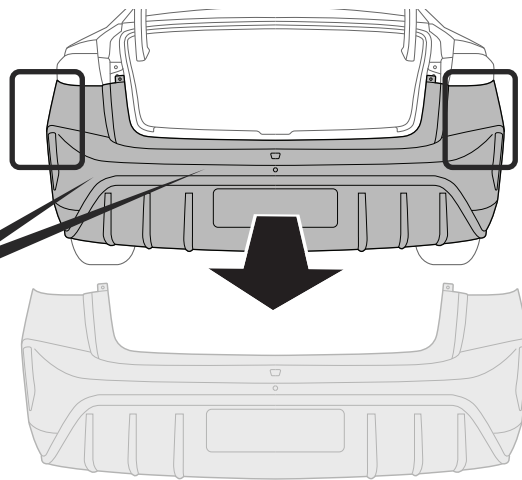
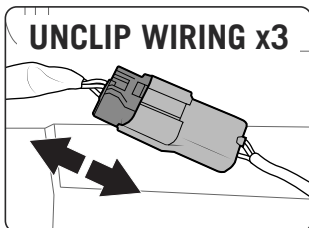


STEP 05

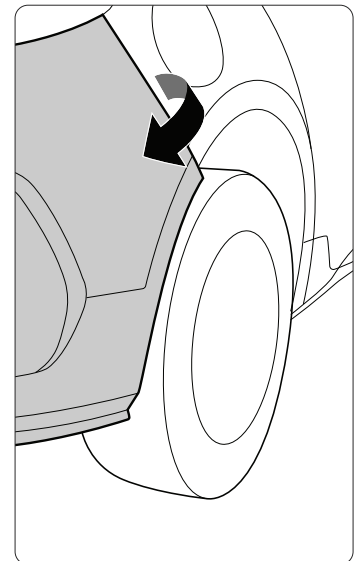


STEP 06

TWO PEOPLE
REQUIRED



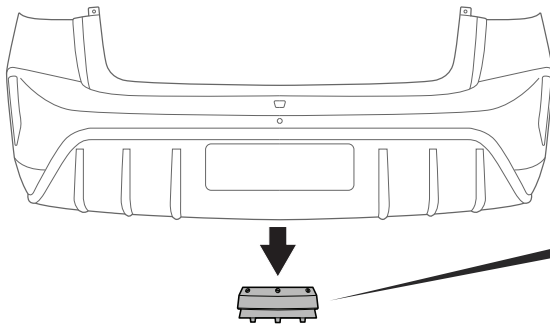
Carefully store bumper on flat surface



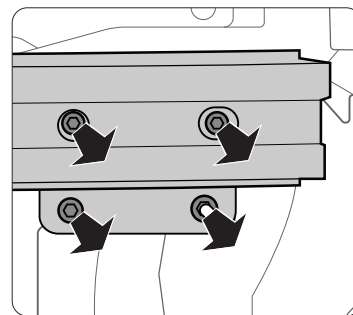
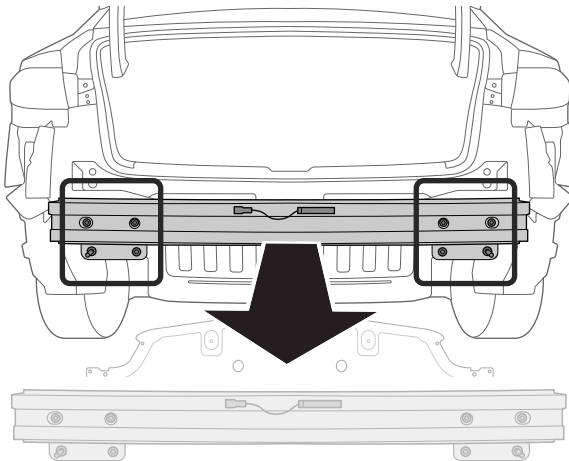
Note: There are cable ties on the 3rd Wire which will need to be untied before unclipping. Temporarily rest bumper to the side so wiring can be accessed.



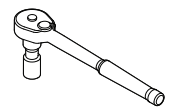
STEP 07



STEP 08



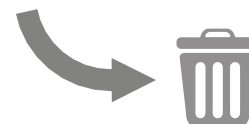
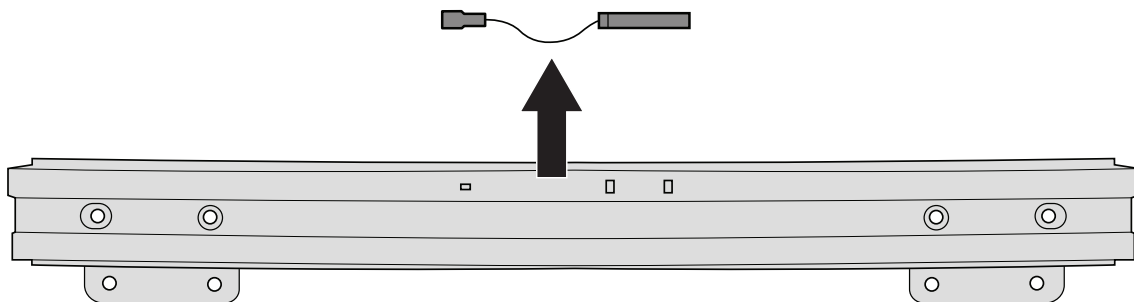
19mm Socket Wrench



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

STEP 09

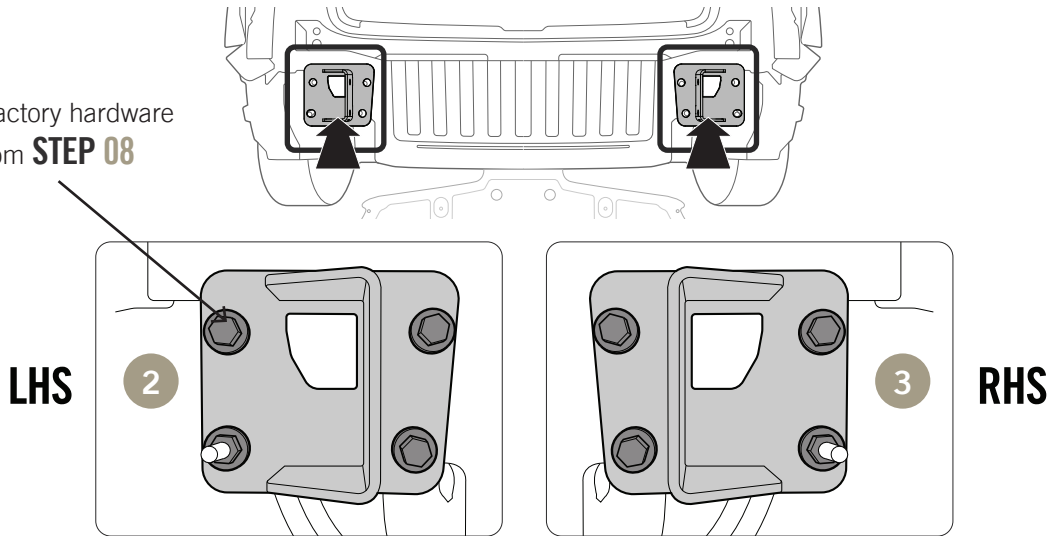
Carefully unclip Boot Sensor.
Store in a safe place for re-install at **STEP 14**



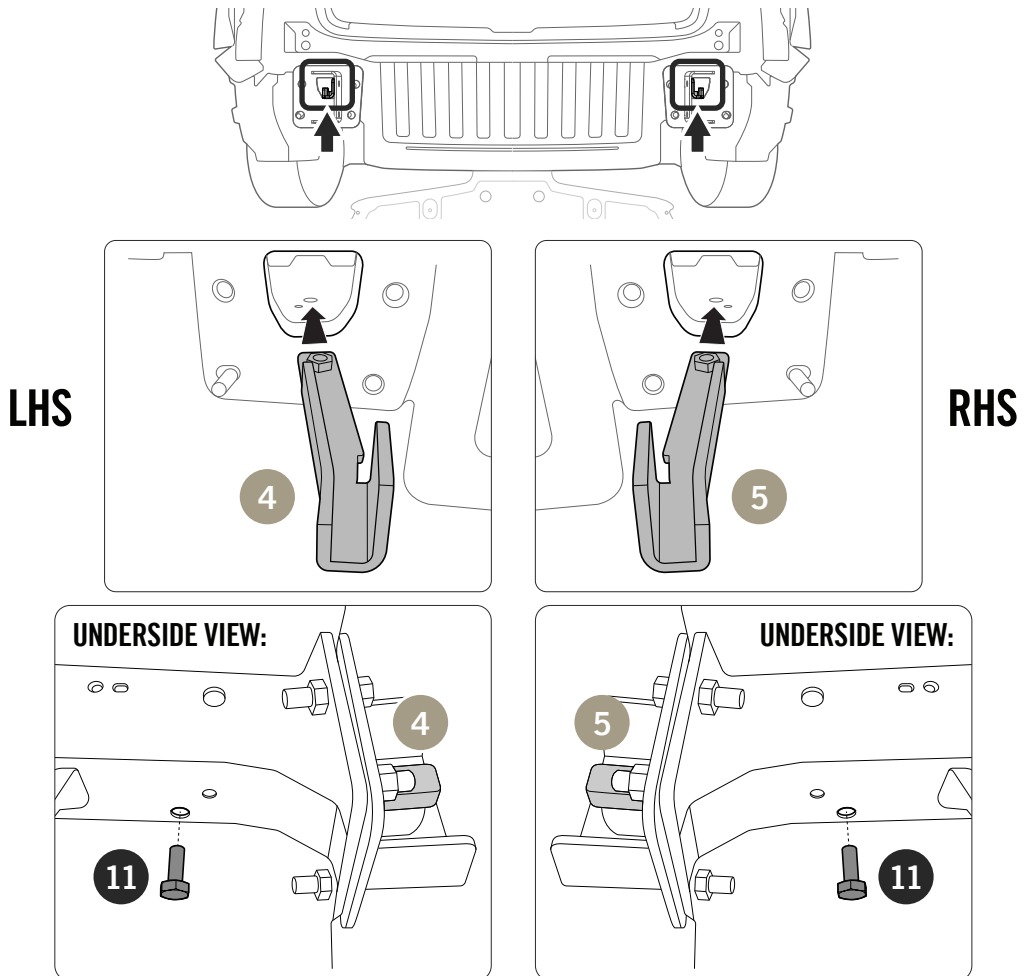
TOWBAR INSTALLATION

STEP 10

Use factory hardware from **STEP 08**

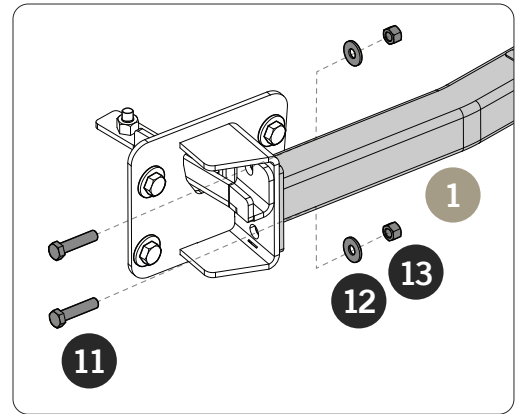
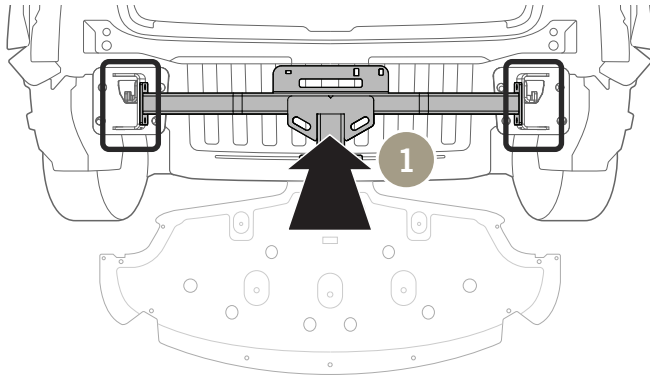


STEP 11

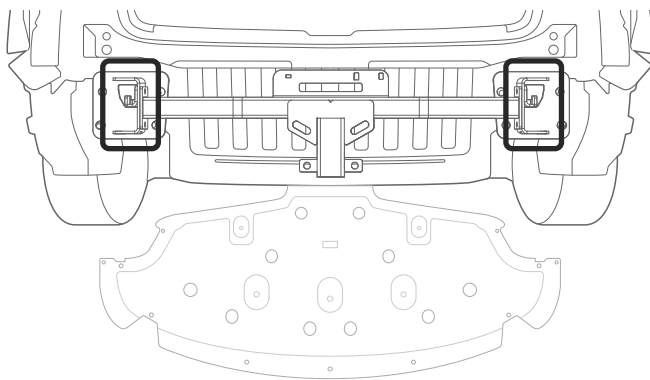




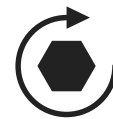
STEP 12



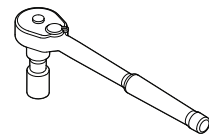
STEP 13



TIGHTEN ALL HARDWARE

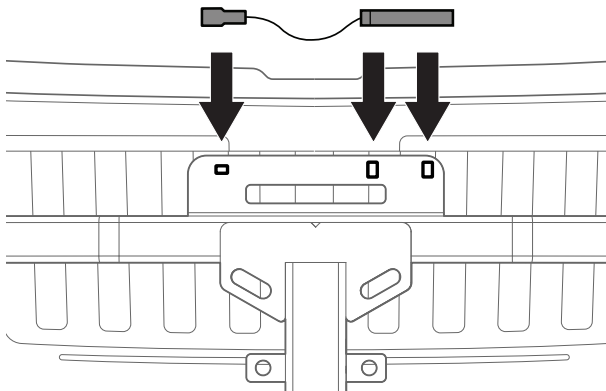


M12: 100NM

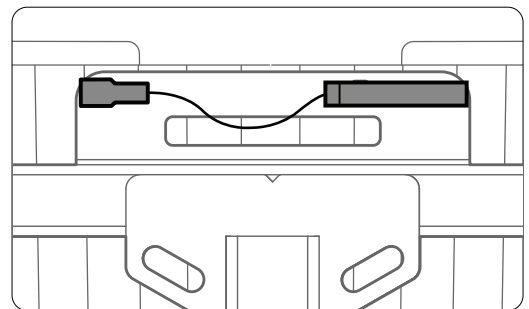


19mm Socket Wrench
+ Torque Wrench

STEP 14



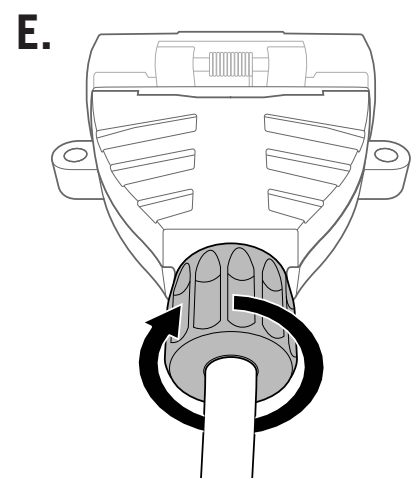
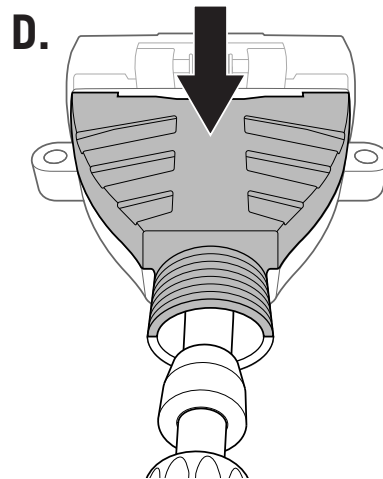
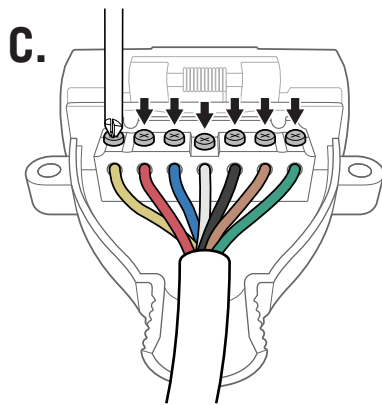
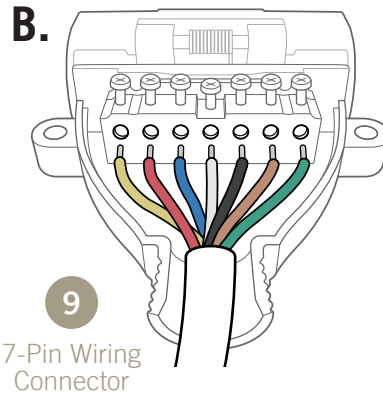
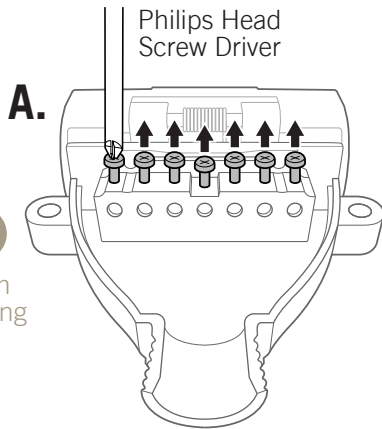
Reclip Boot Sensor from **STEP 09**



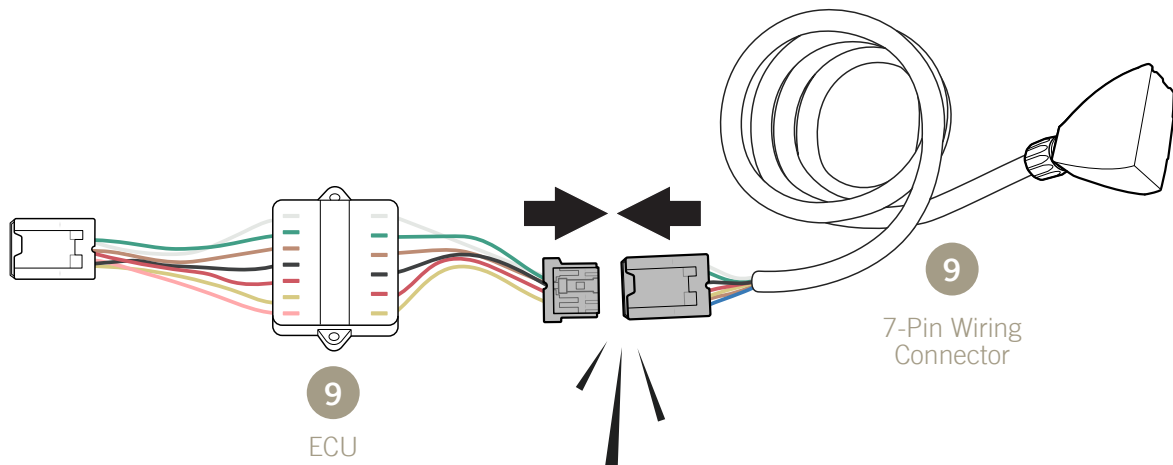
WIRING STEPS

STEP 15

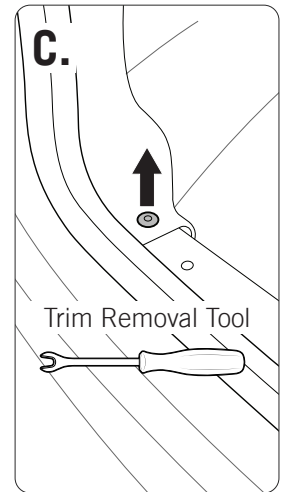
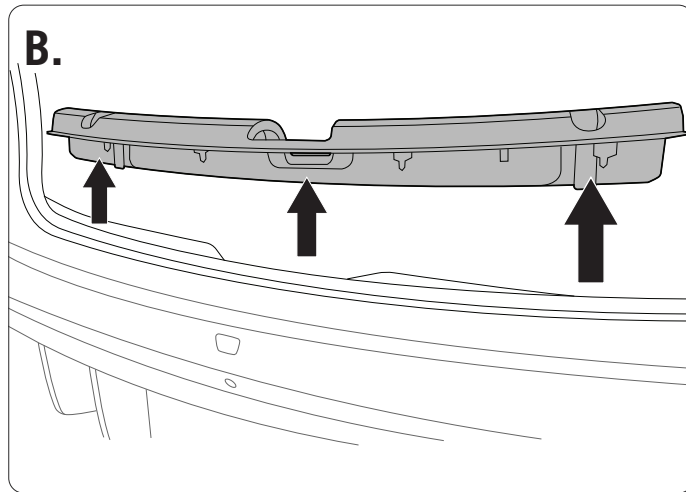
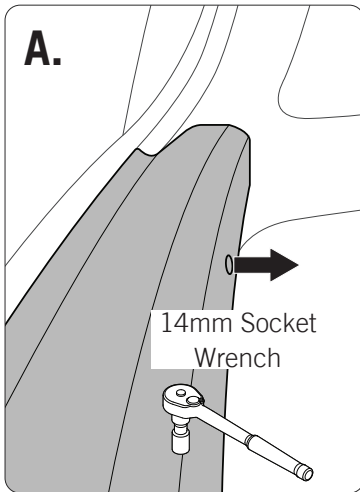
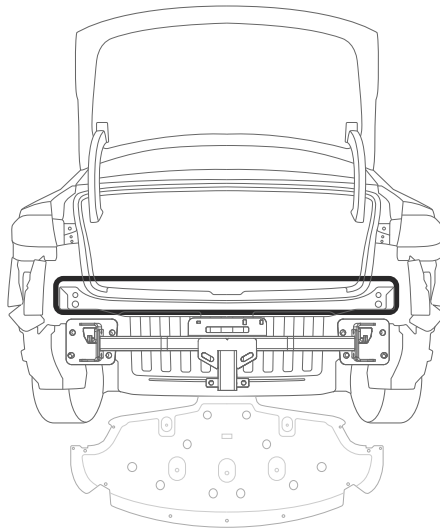
9
7-Pin Housing



STEP 16

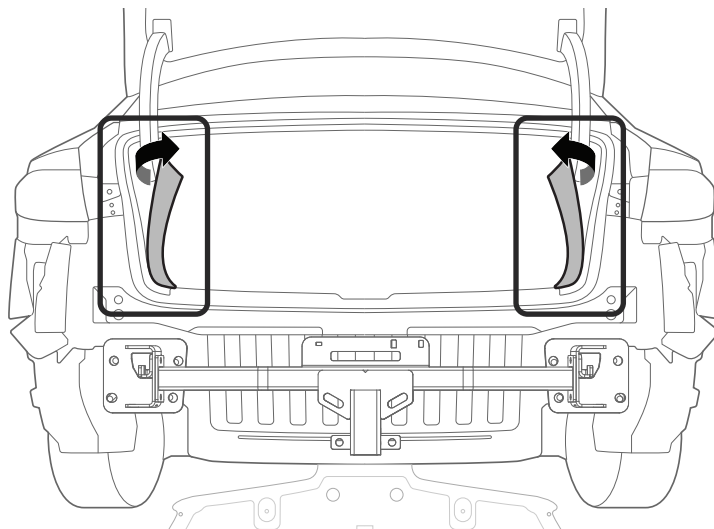


STEP 17



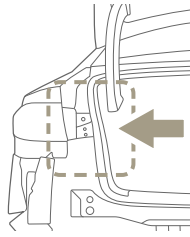
STEP 18

Lift boot lining panels towards the centre of the vehicle.



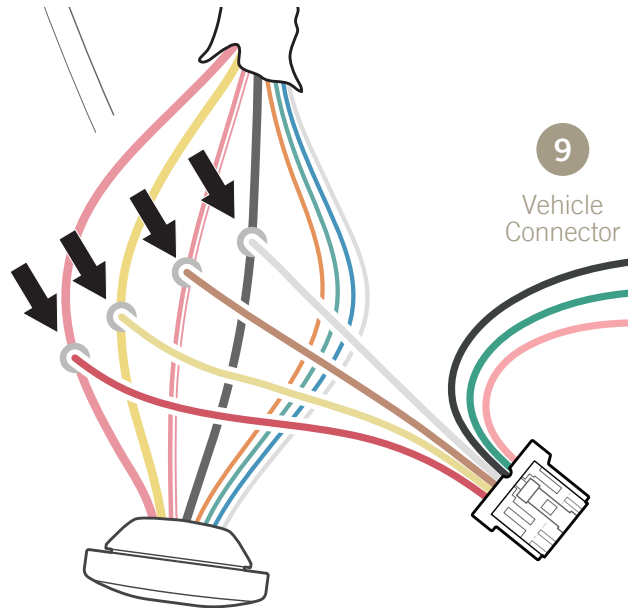
STEP 19

LHS LIGHT



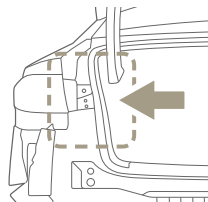
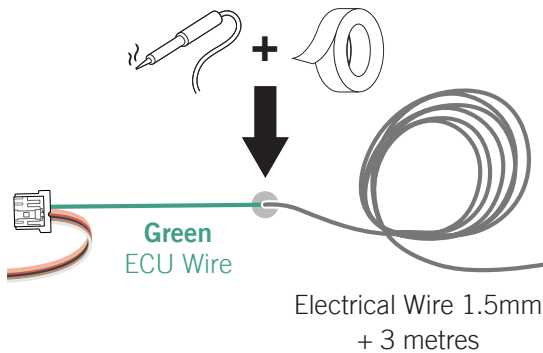
Connect ECU wires to Vehicle wires as follows:

ECU	Vehicle
RED	> PINK (Brake light)
YELLOW	> YELLOW (Left Indicator)
BROWN	> PINK & WHITE (Tail Light)
WHITE	> BLACK (Earth)

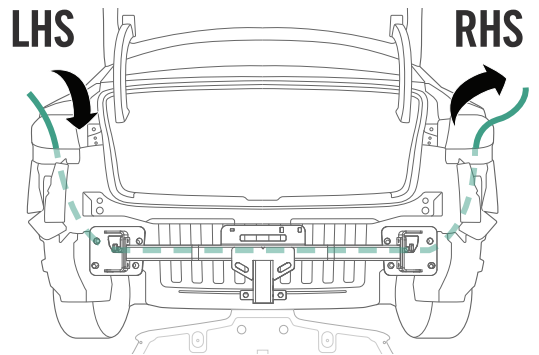


STEP 20

A. Solder 3 metres of Extension wire to **Green** ECU wire.

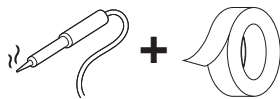


B. Feed wire through grommet downwards underneath the LHS light cavity. Next, feed the wire across the vehicle rear, and back up through the RHS Tail Light grommet. **Secure wire route with zip-ties.**

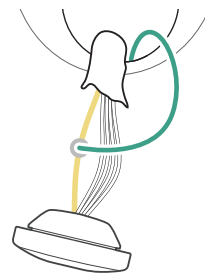
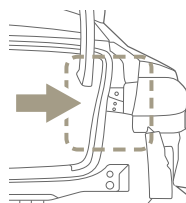


IMPORTANT: Avoid sharp edges and areas with heat.

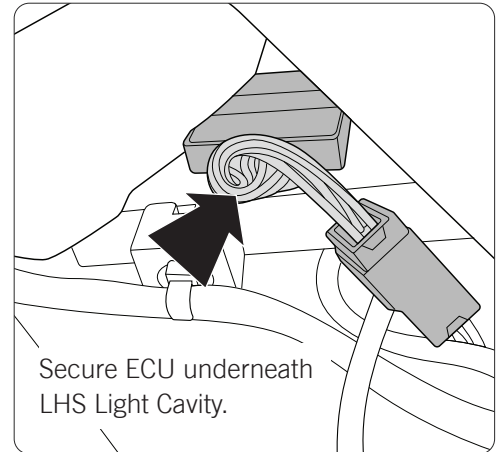
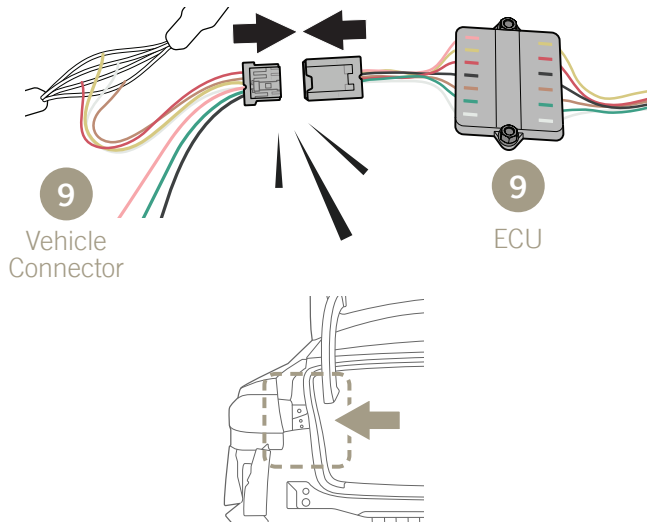
C. Connect **Green** wire to **YELLOW** wire on RHS Tail-light harness.



RHS LIGHT

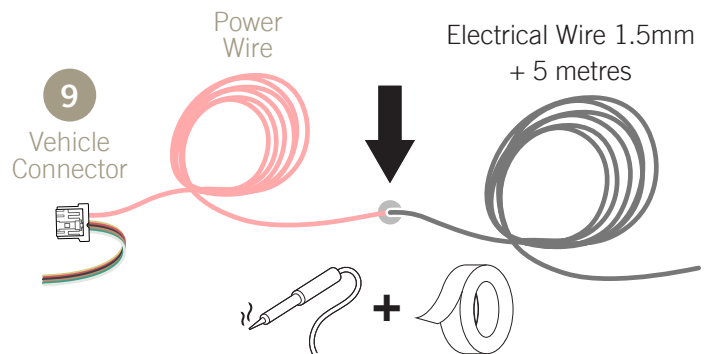


STEP 21

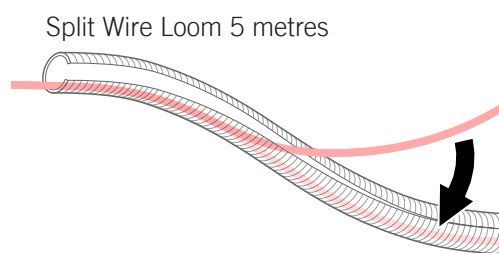


STEP 22

- A.** Solder an Extension wire to **Pink** wire so it will reach the battery terminal. Extend by an additional 5 metres.
Solder and tape connection.



- B.** Insert ALL wire into Split Wire Loom. Trim the Split Wire Loom to match length of wire.



- C.** Route wire with Split Wire loom to battery terminal. Secure with Zip-ties

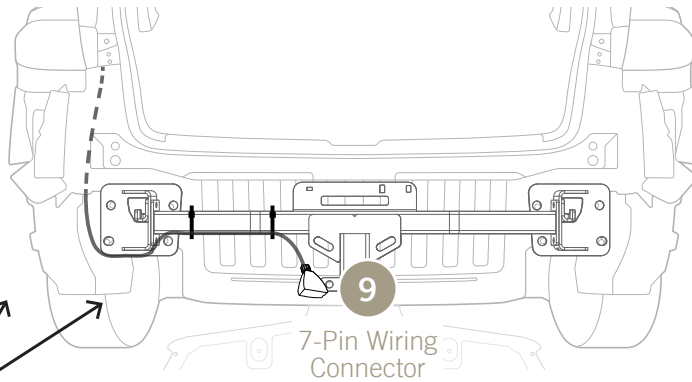
IMPORTANT: SELECT ROUTE CAREFULLY.

Avoid sharp / abrasive points, moving components and hot areas.

FINALISE FITMENT

STEP 23

Feed 7-Pin wiring along crossbeam and secure with zipties. Ensure Plug will not protrude out from under the vehicle.

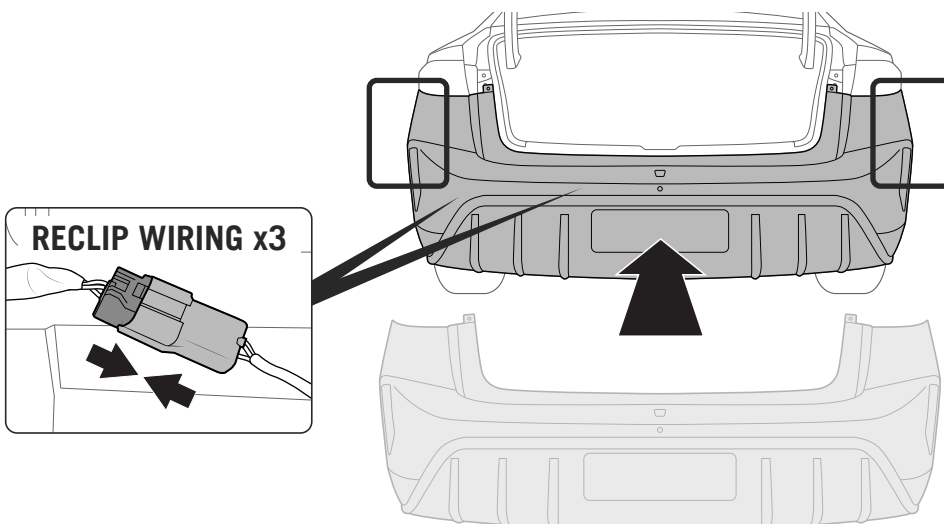


IMPORTANT: Zip-tie excess wire to the towbar / vehicle body. Avoid sharp edges and areas with heat.

STEP 24

COMPLETE STEPS 17-18 AND 01-06 IN REVERSE ORDER.

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



IMPORTANT: Minor trim may be required to the bumper if towbar interference occurs.



TOWBALL USAGE

STEP 25

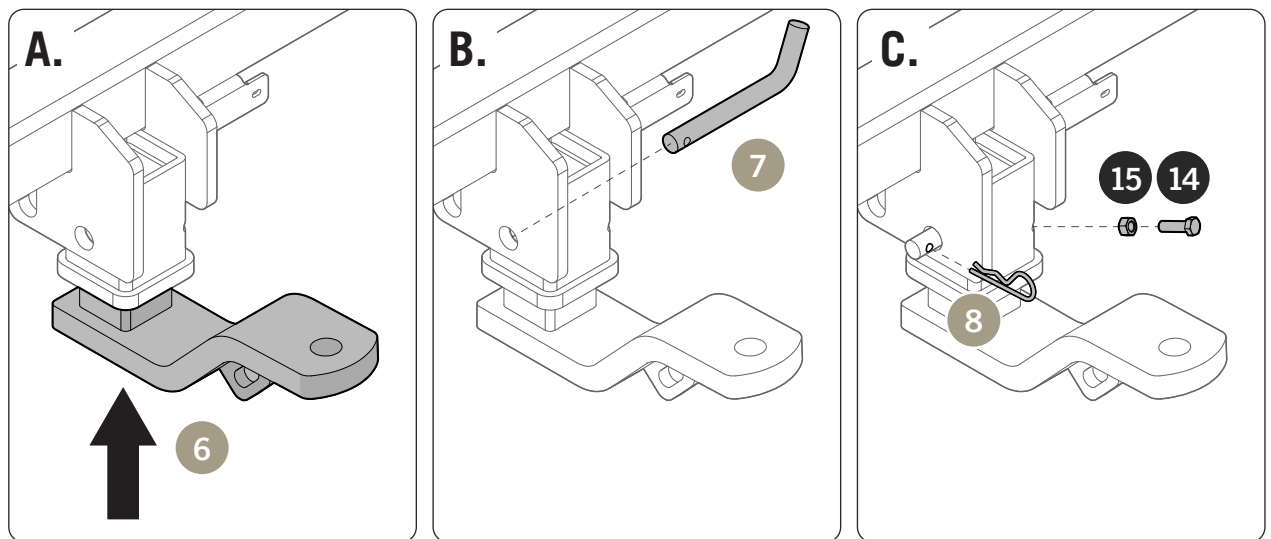
A) Slide the towbar hitch into place. **6**

B) Use the pin to hold the hitch in place. **7**

C) Using an R-clip, fix the pin in place. **8**

Fix the assembly with the anti-rattle bolt and nut. **14 15**

EXAMPLE ONLY:



STEP 26

Place load rating sticker inside the driver's door.

