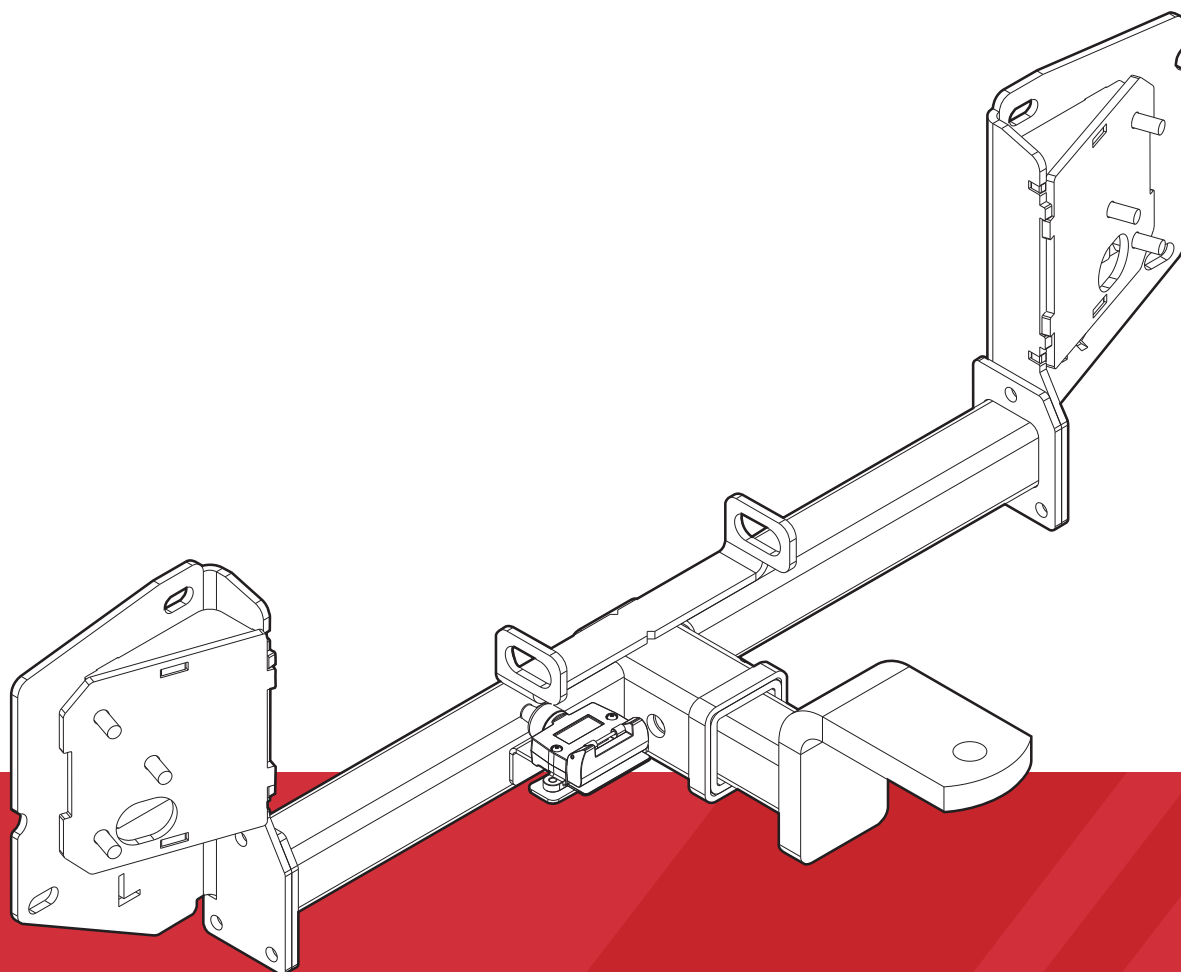


. EST 1956 .

CARASEL

TOWBARS



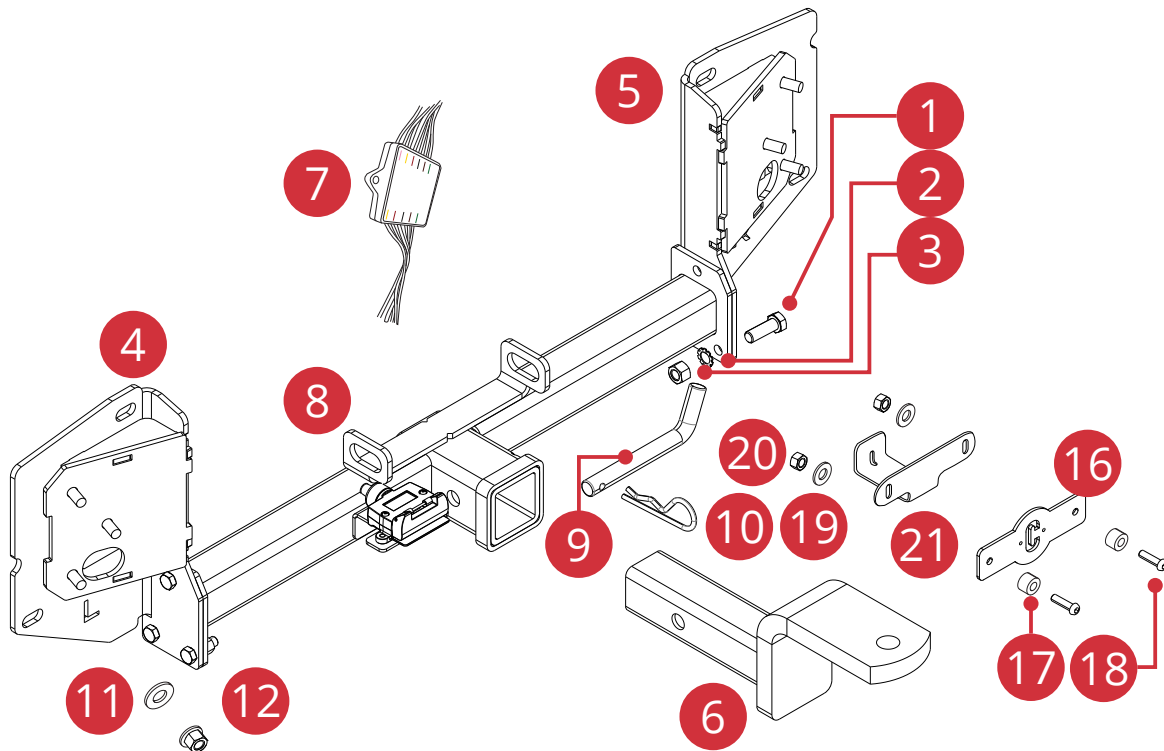
TESLA – MODEL Y
P/N – TE1



LIFETIME
WARRANTY

Issue03

PARTS LIST



PN	DESCRIPTION
1	3/8" 25mm UNC HEX SCREW
2	M10 TOOTHED WASHER
3	3/8" UNC HEX NUT
4	VERTICAL BRACKET LEFT
5	VERTICAL BRACKET RIGHT
6	TOWBAR HITCH
7	TOWBAR BYPASS KIT
8	CENTRE FRAMEWORK
9	PIN
10	R-CLIP
11	M10X30X2.5 FLAT WASHER
12	M10 FLANGED NUT
13	TOWBALL 50MM CHROME
14	PLASTIC CHROME TOWBALL COVER
15	LOAD RATING LABEL
16*	COVER HANDLE
17*	SPACER
18*	M6 BUTTON HD SCREW
19*	M6 FLAT WASHER
20*	M6 THIN NYLOC NUT
21*	PLATE
22	WATERPROOF GROMMET
23	WEIGHT RATIO STICKER

Tools required

Cold galvanising paint.
Power drill.
10.5mm drill bit.
18mm socket wrench.
Trim removal tool.

*NOTE: Items 16-21 optional.

IMPORTANT INFORMATION

This product is for towing purposes only and must only be loaded as shown in your vehicle Owner's Manual.

- This towbar is NOT to be drilled, cut, welded, or modified in any way.
- Check behind chassis rail and body panels before drilling to ensure no hazards are present
- All load ratings shown are under the assumption your trailer has a functional braking system installed.
- When installed in positions other than the one depicted in these instructions the Tow Ball Mount may interfere or obstruct certain features of your vehicle (tailgate opening, Chassis clearance, etc.)

General:

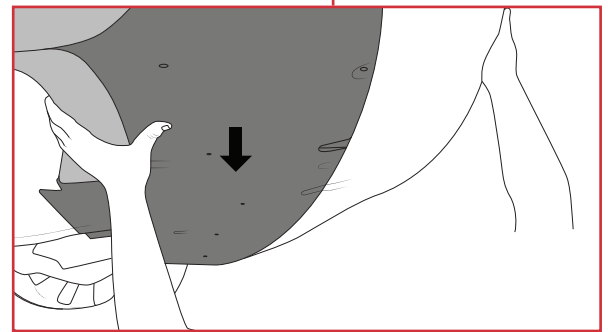
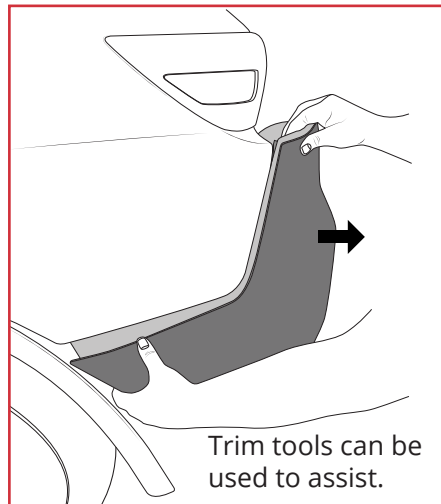
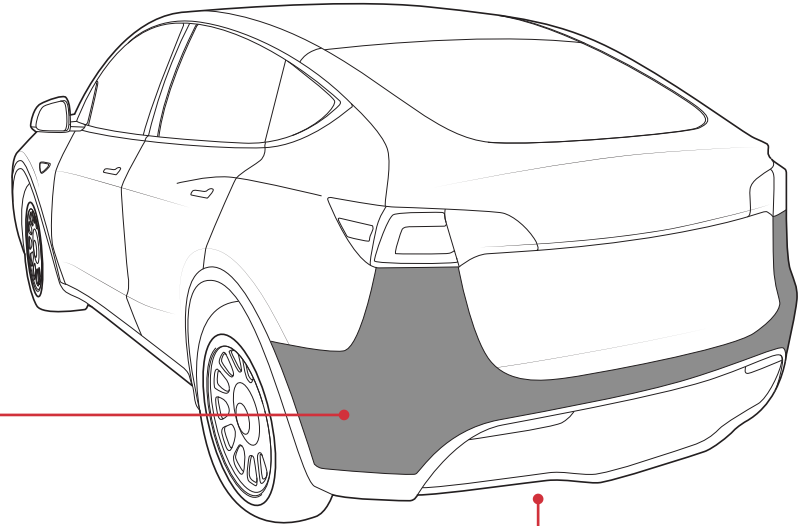
- Before fitting this towbar please ensure the vehicle is set to '**SERVICE MODE**'.
- Before fitting this towbar read fitting instructions and check installation hardware is correct.
- Check that the towbar is suitable for the vehicle and be wary of any changes to the vehicle design that may conflict with the fitting of this towbar. (Tray, Canopy, Suspension etc.)
- After drilling, blow any filings clear, remove any swarf and treat exposed metal with a rust inhibitor.

Towbar Maintenance and Care:

- It is recommended, when not in use, the Tow Ball Mount assembly and CLASS 4 Pin and Clip is stored inside the car away from moisture to prevent standing water from forming rust.
- Inspect to ensure, on regular basis, fasteners are torqued to the specifications below and in good condition.
- Ensure that the fitting instructions are read and understood prior to fitment.
- Place these instructions in the vehicle's glovebox after installation is completed.

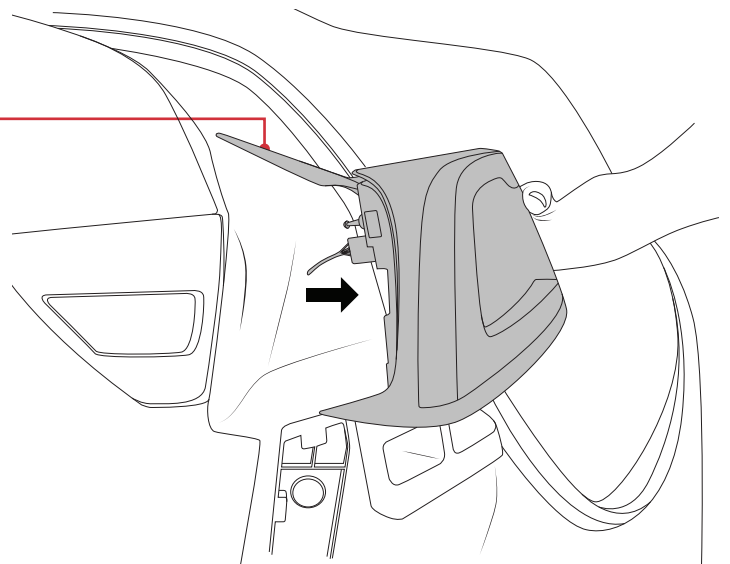
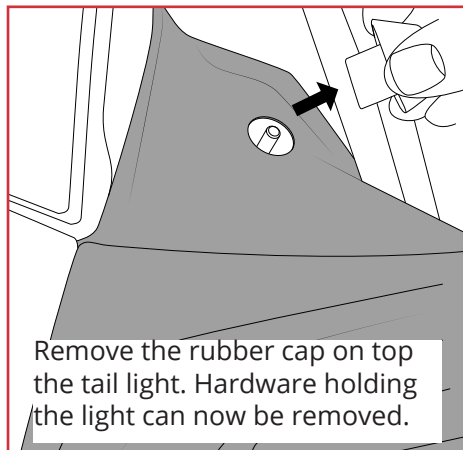
STEP 1

Carefully remove the rear plastic bumper and cowl from under the rear of the vehicle. Clip tools and sockets will be required. Unplug the rear sensors.



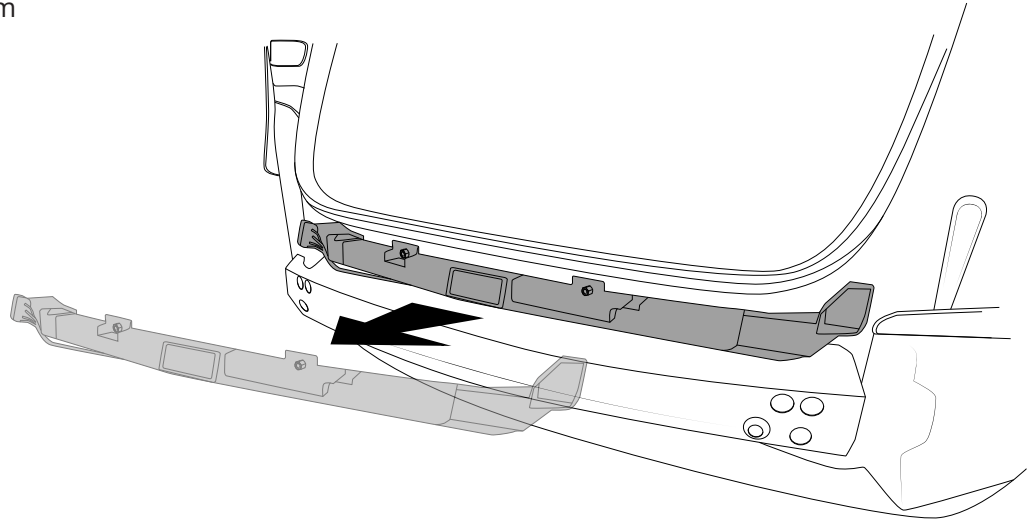
STEP 2

Carefully remove the tail lights from their housing, via 28mm nuts behind lights. Clip tool may be required to pop out lights.



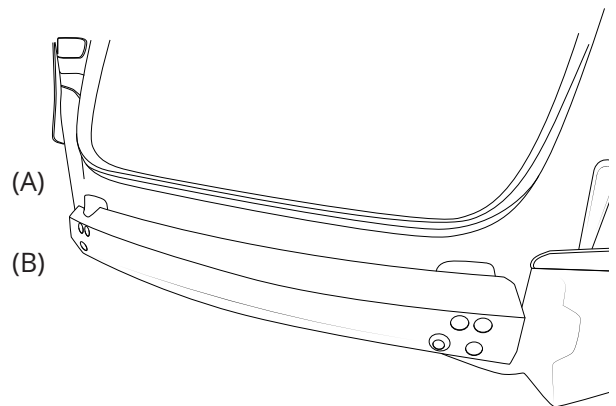
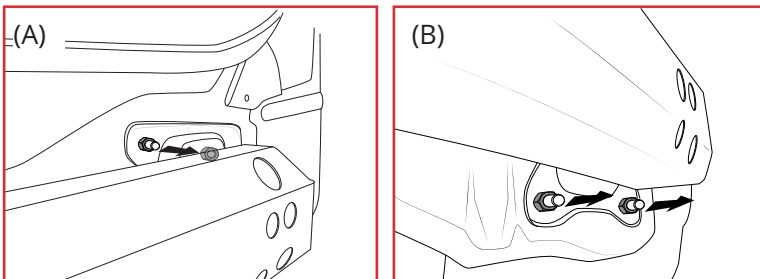
STEP 3

Unclip and unbolt via 4x10mm bolts. Place to the side for refitting. Remove the sensor harness.



STEP 4

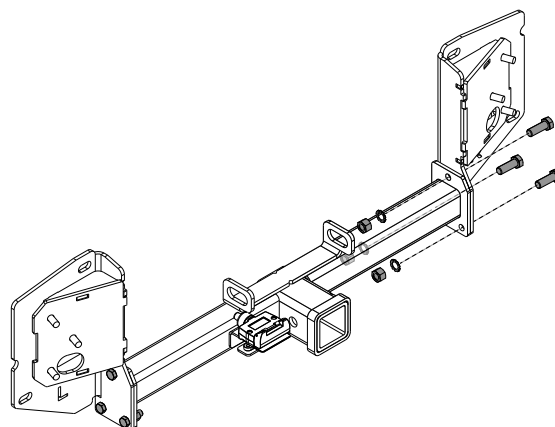
Remove the alloy reinforcement bar and brackets. Undo the brackets, both top and bottom, at either end.



Then remove reinforcement from factory mounting brackets and discard the factory mount, and tow retaining bolt.

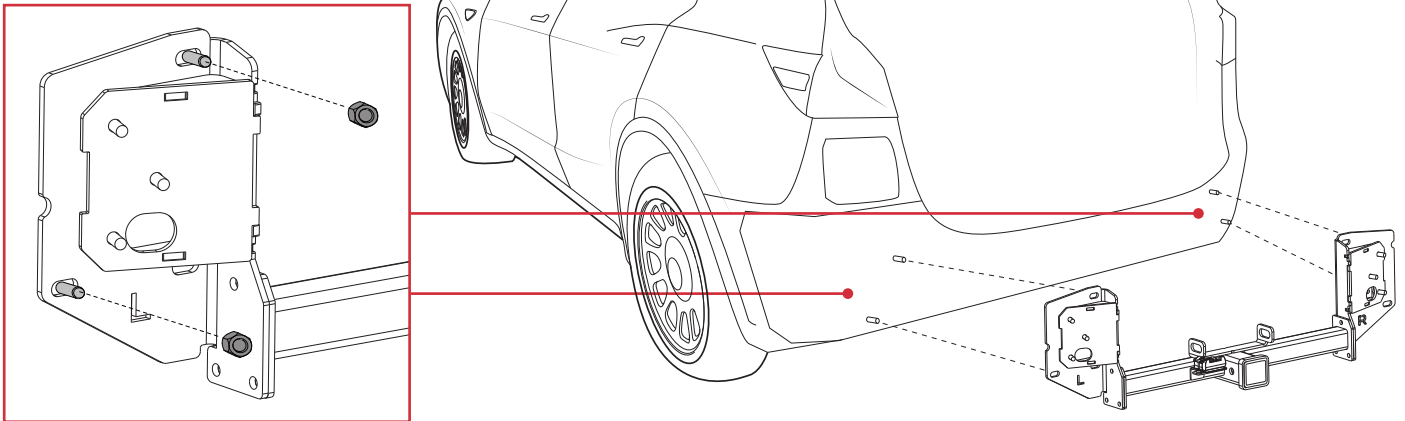
STEP 5

Position horizontal cross beam with both vertical brackets. Assemble with 3/8" x 25 bolts, lock washers and nuts. Loosely tighten to 70Nm.



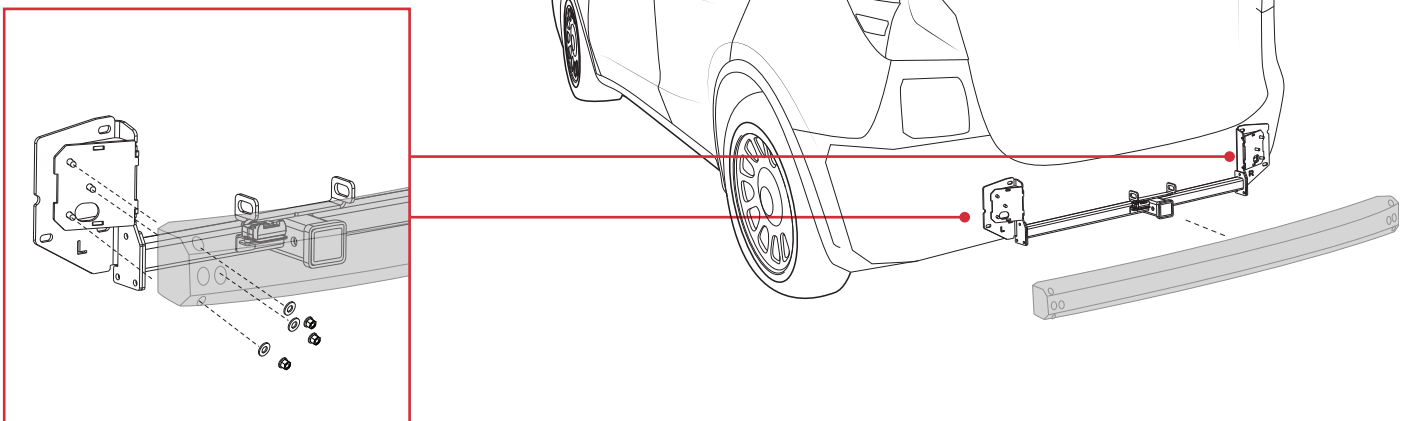
STEP 6

Fix the assembly to the chassis using the 10mm flat washers and flange nuts. Make sure towbar is in the centre of the vehicle before tightening up the bolts.



STEP 7

Fit the alloy reinforcement bar to the towbar. Fix in place with M10x30x2.5 flat washer and M10 flange nut.

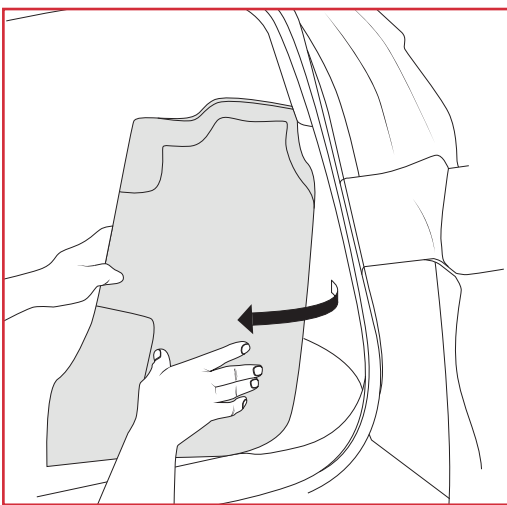
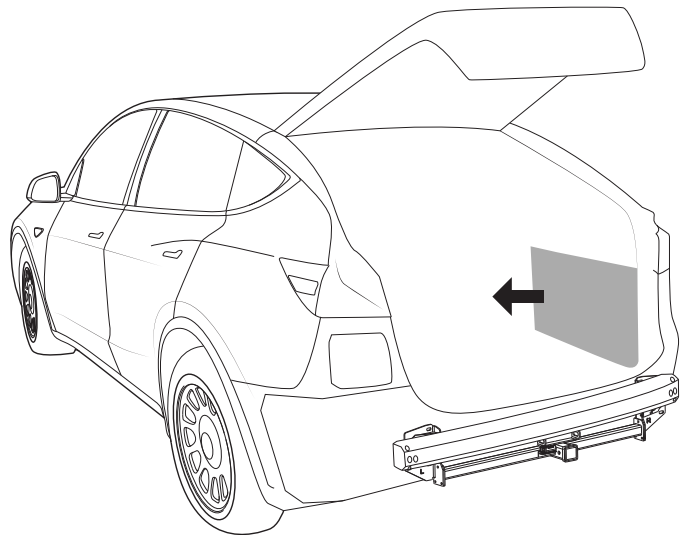


WIRING INFORMATION

STEP 1

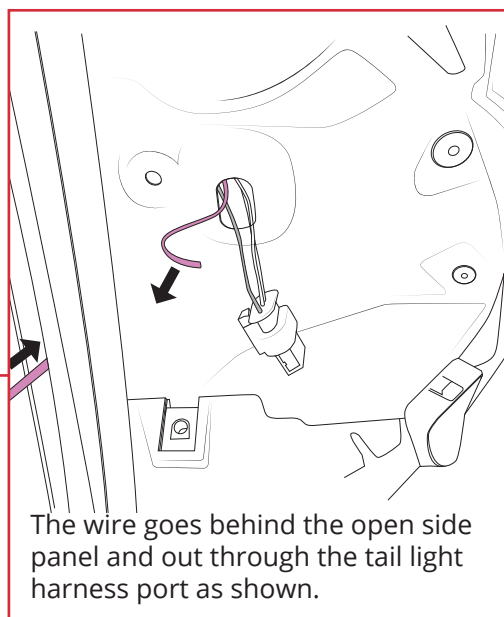
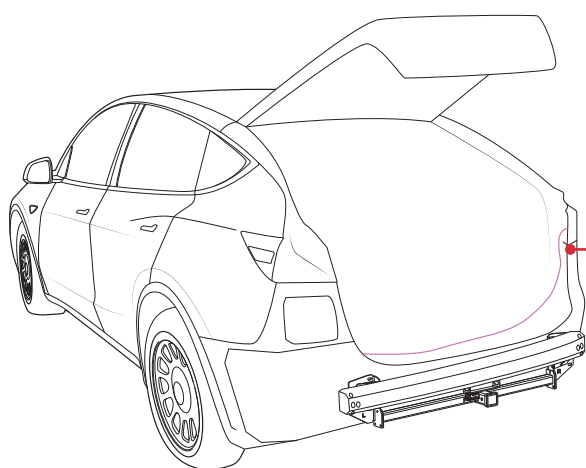
Pop out the side panel using trim removal tool. You don't need to remove just out far enough to reach the tail light wiring harness.

Repeat for left side of the vehicle.

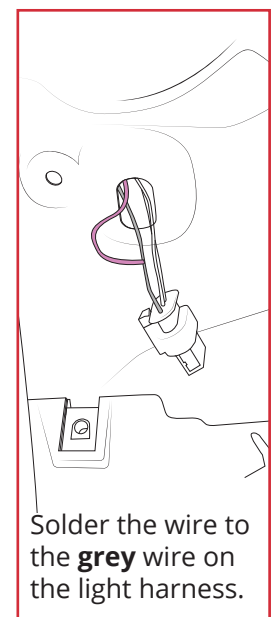


STEP 2

Run a wire across to the right side Tail light and pick up the Tesla Red wire – Indicator Right.



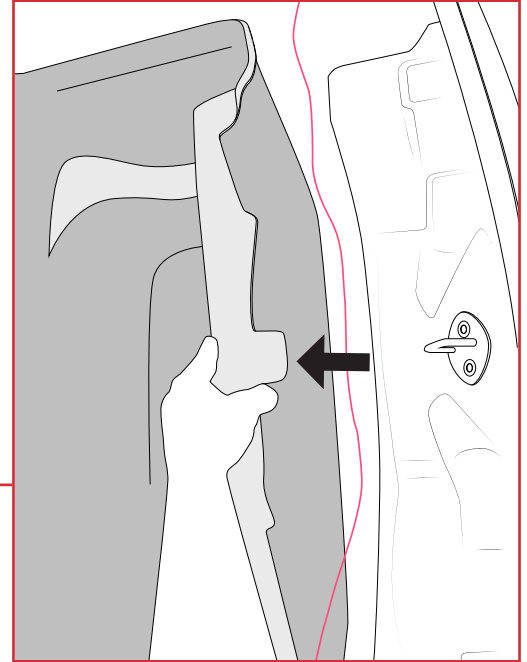
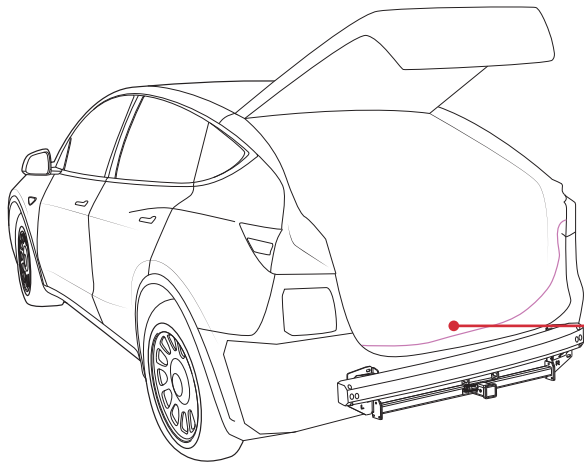
The wire goes behind the open side panel and out through the tail light harness port as shown.



Solder the wire to the **grey** wire on the light harness.

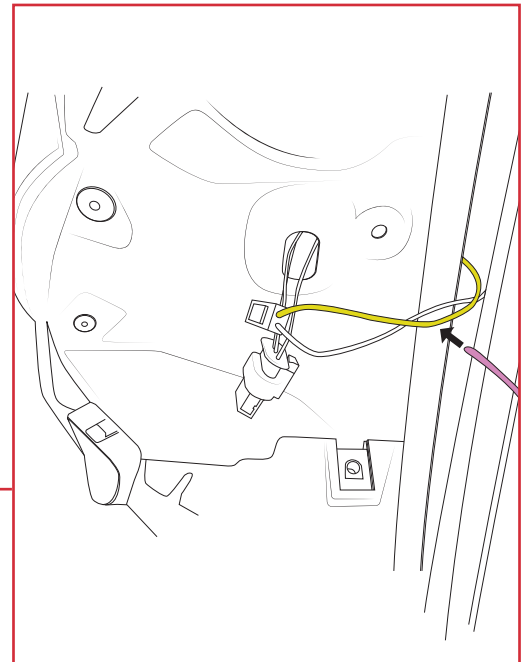
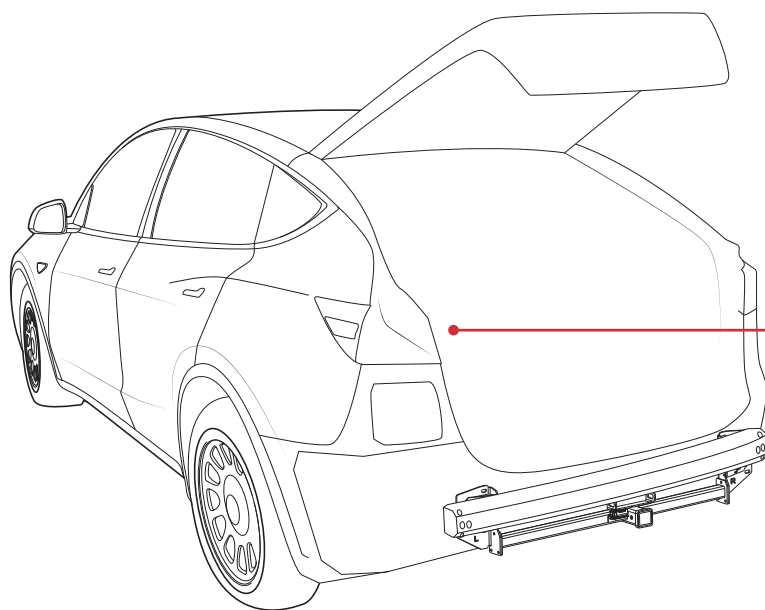
STEP 3

The wire can be placed in front of the boot moulding as shown.



STEP 4

Solder the pink ECU wire to the cigarette socket wire (yellow). This is located behind the left hand boot panel. Insulate and cover with new cloth tape.



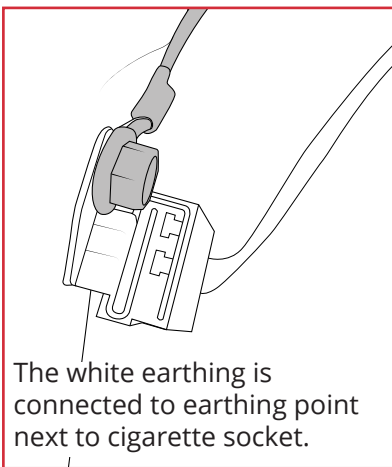
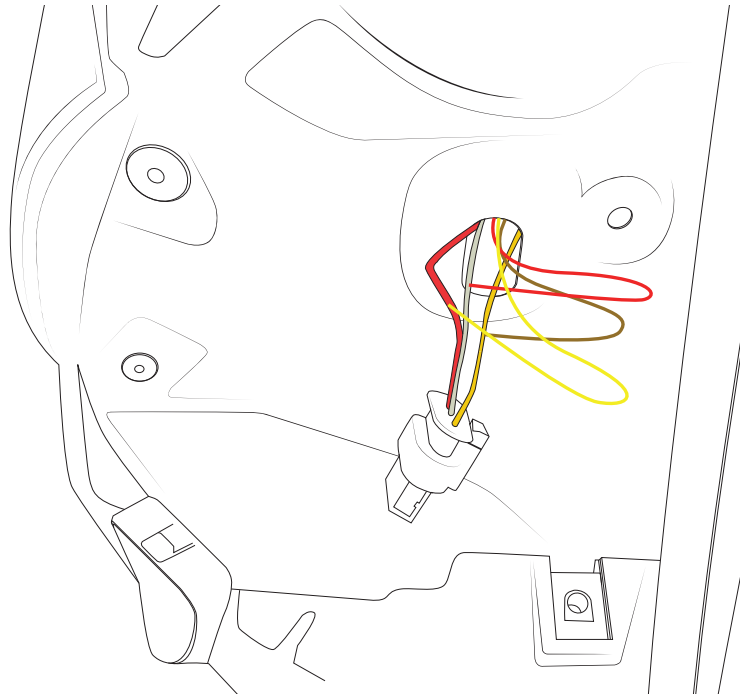
STEP 5

Connect the ECU kit to the light harness on the left hand side of the vehicle.

Solder as follows:

ECU	>	Vehicle
RED	>	GREY (brake) / *RED
YELLOW	>	RED (indicator LH)
BROWN	>	YELLOW (tail)
GREEN	>	RED
WHITE	>	EARTH (Body)

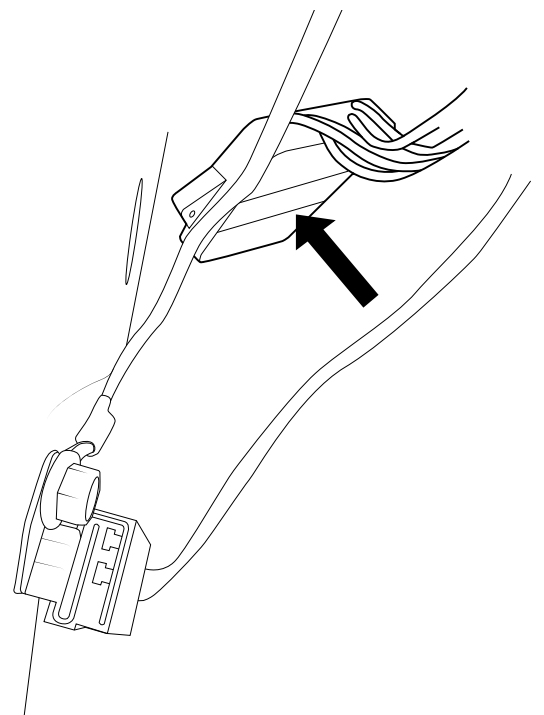
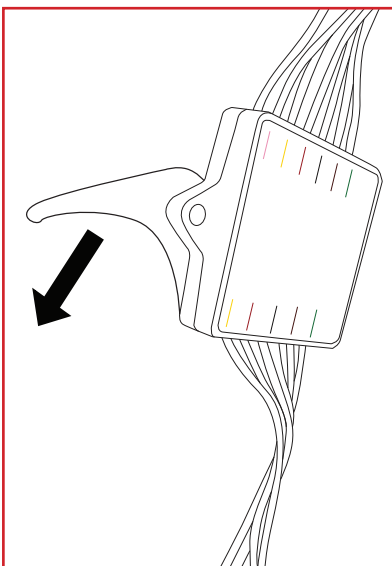
* Please use test light as some vehicles are red > red.



The white earthing is connected to earthing point next to cigarette socket.

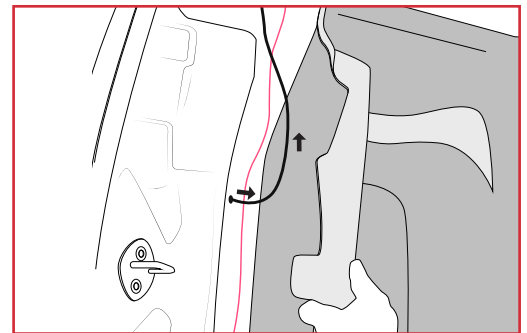
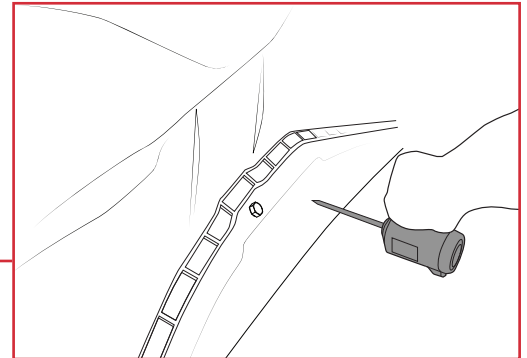
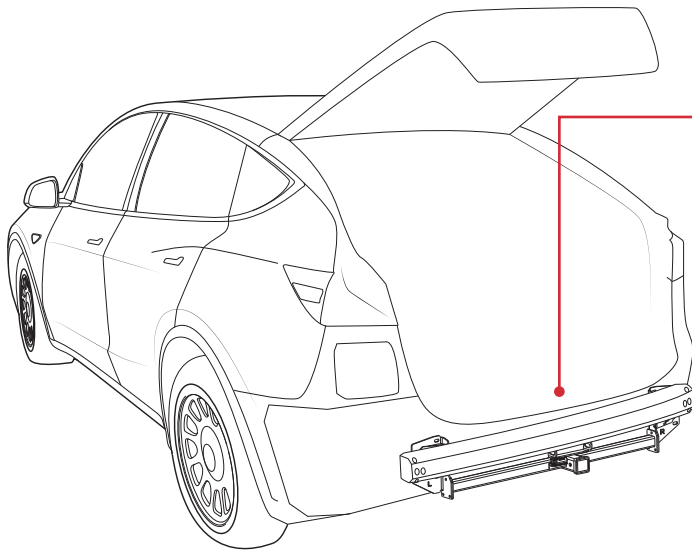
STEP 6

Remove the backing tape of the ECU. Position the unit on the inside of the body panel, behind the LH side tail light.



STEP 7

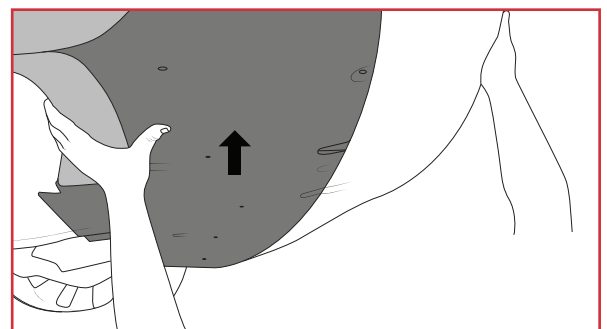
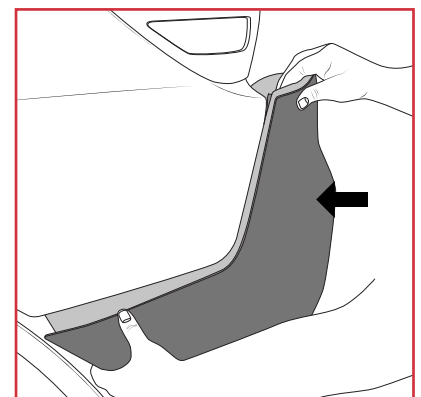
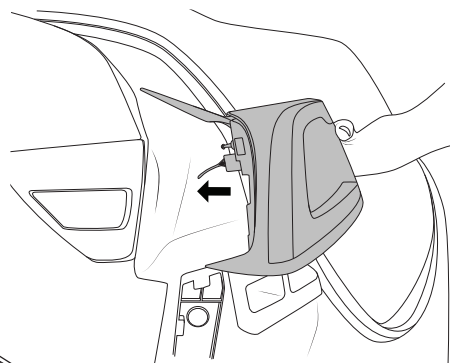
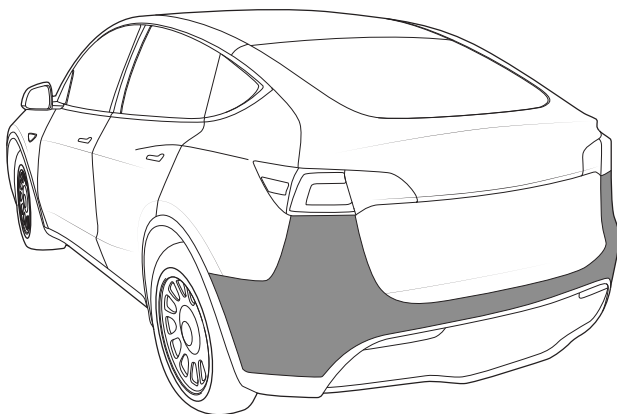
Drill a hole in the plastic guard at the rear of the vehicle. Pull the 7 pin plug through this hole and seal with a waterproof grommet.



STEP 8

Carefully replace all body work and lights removed previous.

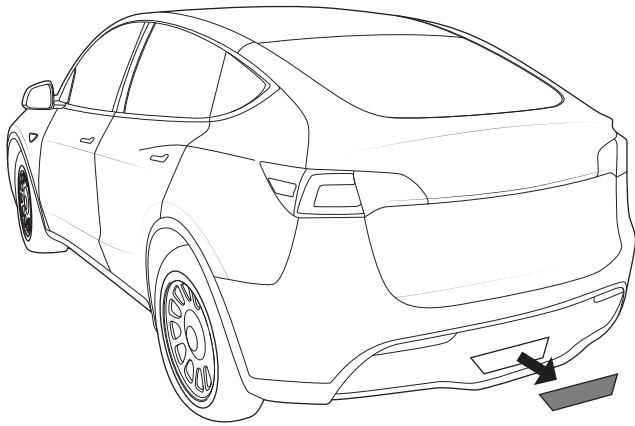
Trim tools can be used to assist.



FITTING OPTIONAL HANDLE

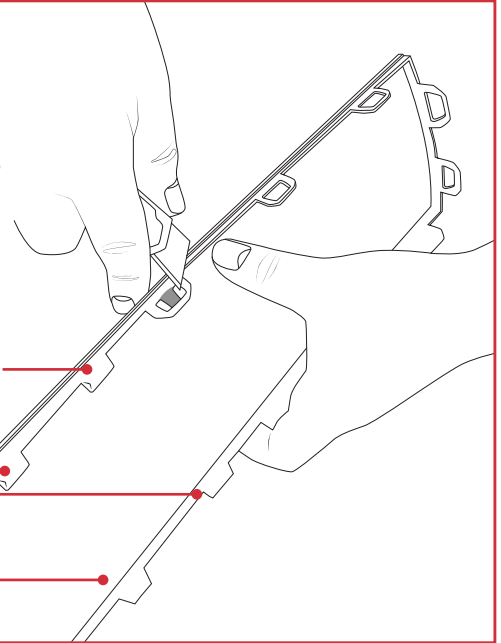
STEP 1

Remove lower bumper panel.



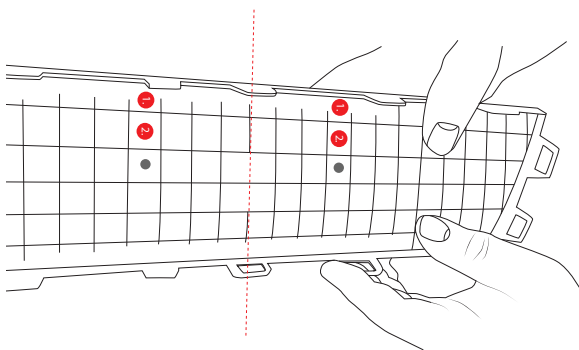
Remove the 11 tabs in housings from around the outside of the panel. Leave the 4 hooks in place.

Do not remove the 4 hooks that are without housings.

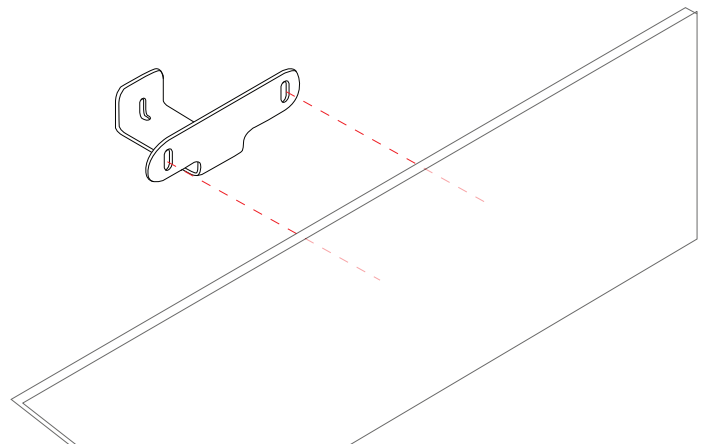


STEP 2

Locate the centre of the panel. Move in three squares from the top of than panel as shown. Place the plate in position here.

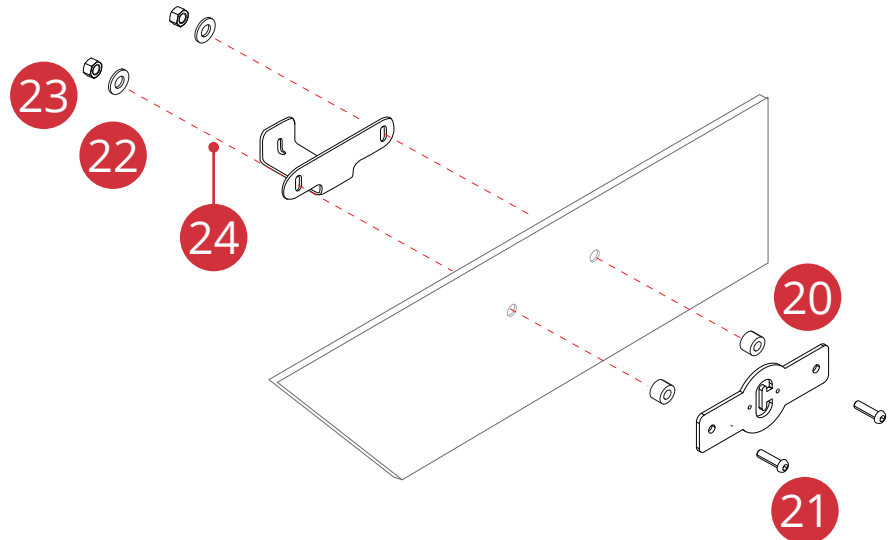


With the plate in this position, create a reference mark on the panel using the plate as a guide.



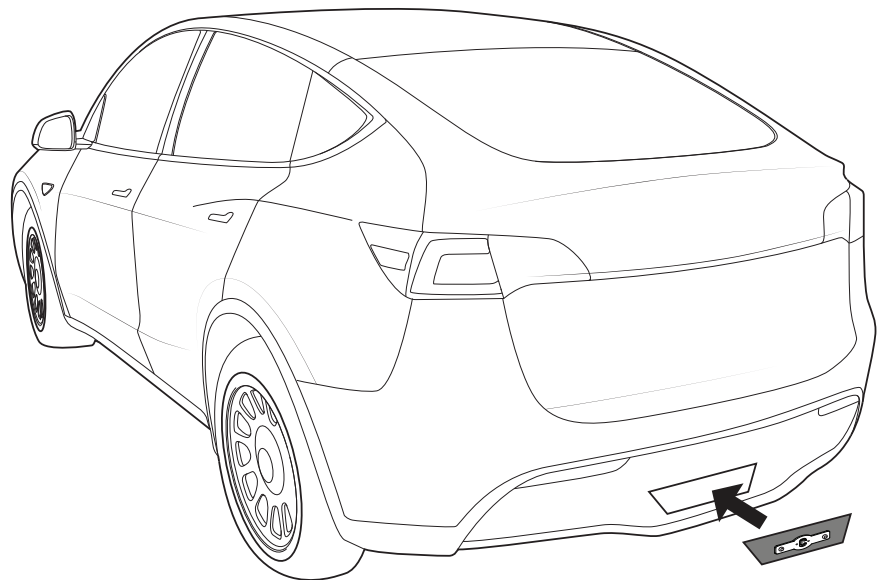
STEP 3

Install the handle to the plastic panel as shown.



STEP 4

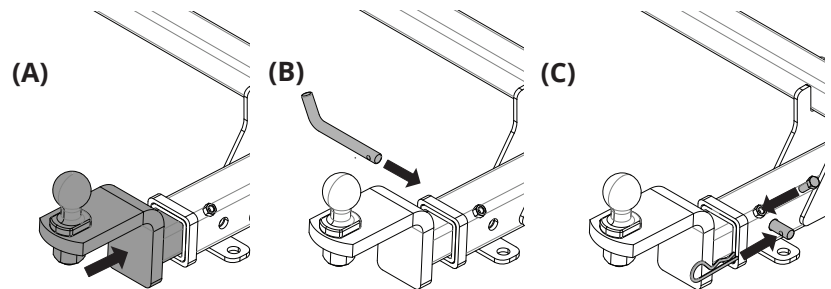
The panel can be reinstalled at this stage, to cover the towbar.



TOWBALL USAGE

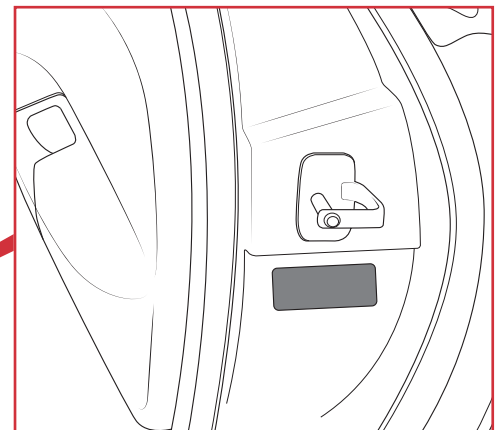
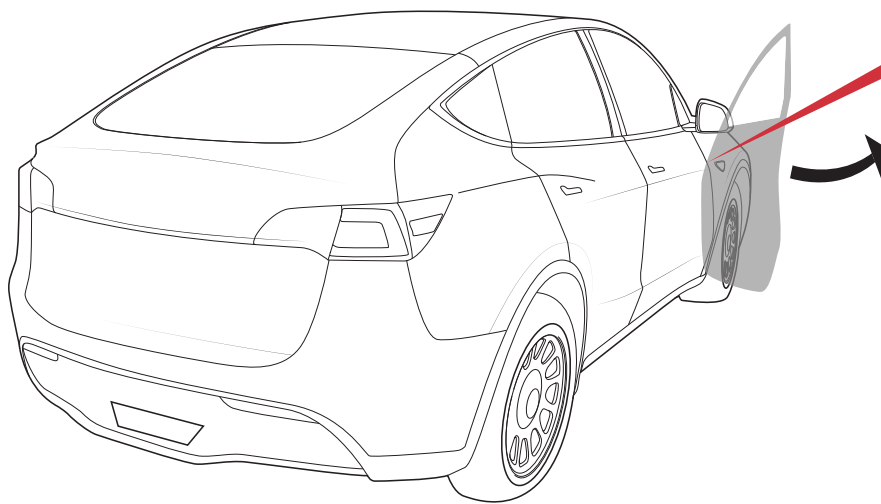
STEP 1

A) Slide the towbar hitch into place.
B) Use the pin to hold the hitch in place.
C) Using an R clip, fix the pin in place.
Fix the assembly with the anti-rattle bolt and nut.



STEP 2

Install the load rating sticker provided, inside the drivers door.



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CARASEL

TOWBARS

