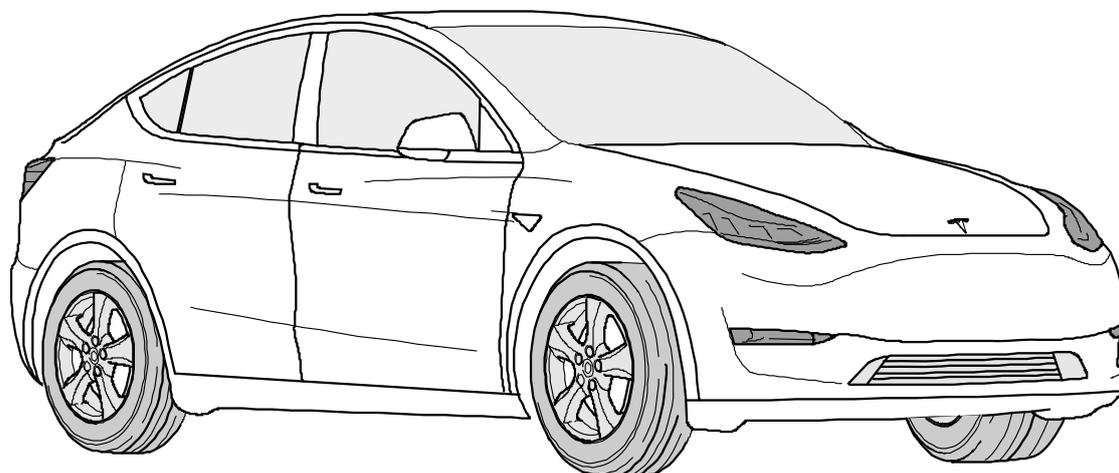




# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

TESLA MODEL Y CL4



## PRODUCT DETAILS:

Part Number:	03454RW	Maximum Towing Braked:	1600	kg
ECU Number:	04844	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1800mm	Maximum Static Ball Load:	160	kg
TBM/Lug Part Number:	21232			
Wiring Part Number:	102821-WL			

## FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Hayman Reese SmartCODE Solution Required:	NO
Wiring Installation Time:	60 Mins.	RPA Disable/Other:	NO
Total Installation Time:	120 Mins.		
Bumper Cut Required:	Yes		

### Note:

- RPA disable is access via infotainment.
- All vehicle connections must be connected prior to testing.



Electrical vehicles include a high voltage battery, which can lead to property damage and personal injury if handled incorrectly. DO NOT unplug any orange high voltage cables unless the vehicles have been properly isolated by a high voltage trained technician. Series injury or death may occur.



# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

TESLA MODEL Y CL4

**ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT.**

## **i** BEFORE YOU START:

Hayman Reese recommends that instructions are read completely prior to fitment. Check all hardware items have been included refer to assembly diagram. Please ensure this towbar is only fitted to vehicle models as per Hayman Reese application guide ([www.haymanreese.com.au](http://www.haymanreese.com.au)).

### Bumper Cuts



Vehicle and bumper variations can and do occur during vehicle manufacture after initial towbar design. Fitment of towbar to vehicle and accuracy of bumper cut must be assessed prior to any bumper modifications made. Incorrect bumper cuts are not covered under Hayman Reese warranty.

**NOTE: Bumper cuts need to be approached with care, refer to notes below.**

- Bumper centreline – where the centreline of the bumper needs to be determined, the installer must assess centre point by measurement of bumper width or determining two symmetrical reference points to give centreline.
- Bumper edge – To assist with accurate bumper cut measurement, reference to the start of the bumper edge is now being commonly used.
  - Measure from bottom edge along bumper and around corner to the 70 mm point (Figure 1).
  - Do not measure from visible bumper front of corner, upwards (Figure 2).

**CORRECT**

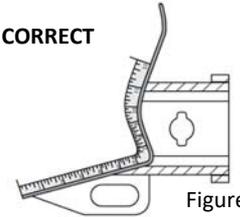


Figure 1

**INCORRECT**

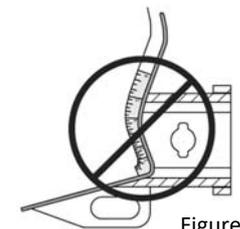


Figure 2

### Drilling

- For any required drilling during installation, ensure that the area is clear of fuel, electrical & other components that may be damaged.
- All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.

### Bolts/Fasteners

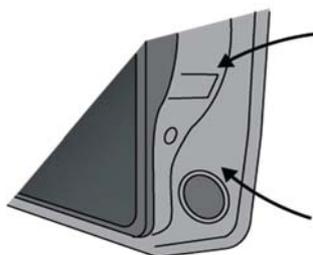
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



**NOTE: Achieving correct torque is critical to proper installation and responsibility of the installer. Towbar failures attributed to tension issues from over tightening or under tightening are not covered by Hayman Reese warranty.**

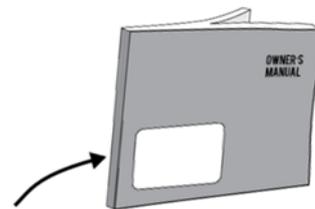
### Product Labels

- a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.
- b. Powertrain Control Module (PCM)/Body Control Module (BCM) upgrade warning label will be provided in towbar kit for vehicles as required. Affix warning label in door and owner's handbook.



Place **Load Rating sticker** inside driver's door here

Place **Vehicle PCM/ BCM upgrade warning label** in door AND on front cover of owner's service handbook



## **WARNING:**

**Do not, drill, cut, weld or otherwise modify the towbar.**

**FOR TOWING PURPOSES ONLY - This towbar is designed and tested by Hayman Reese to adhere to ADR 62/02 which provides only for the expected load demands of towing.**

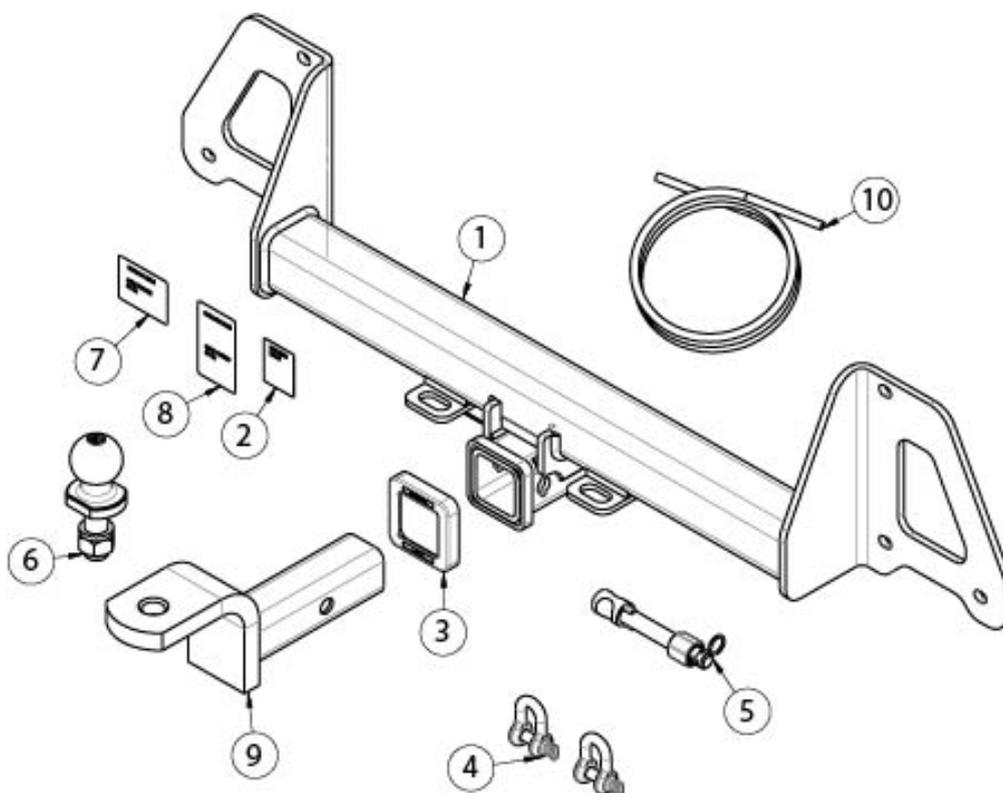


# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

TESLA MODEL Y CL4

## TOWBAR ASSEMBLY DIAGRAM



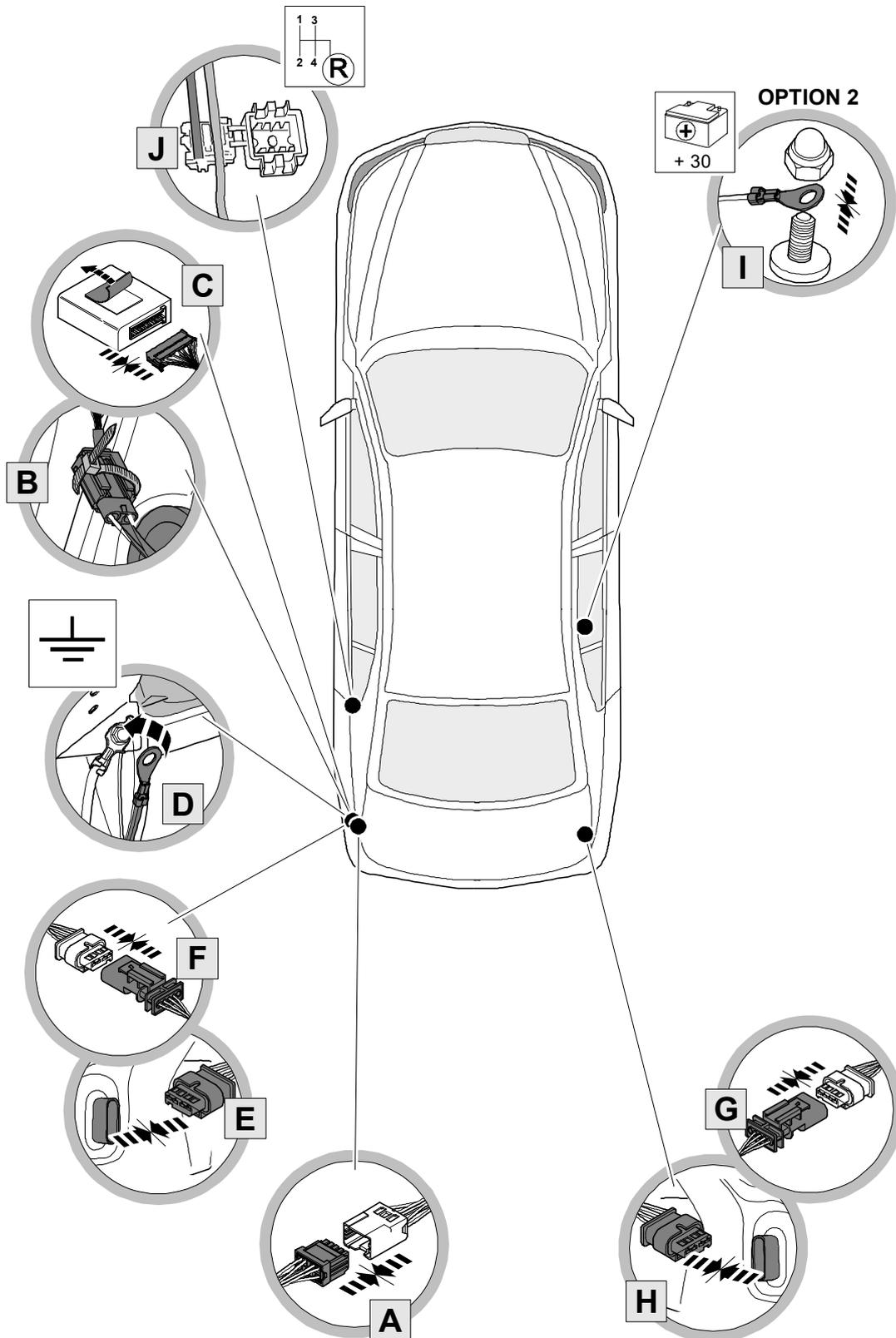
ITEM	DESCRIPTION	QTY
1	TESLA MODEL Y WELDED ASSY	1
2	HAYMAN REESE LOGO STICKER	1
3	HITCH BOX COLLAR COVER	1
4	"D" SHACKLE 10mm	2
5	SMART PIN GOLD	1
6	TOWBALL 50mm	1
7	COMPLIANCE LABEL	1
8	LOAD RATING LABEL	1
9	TRAILER BALL MOUNT	1
10	WIRE LOOM	1



# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

TESLA MODEL Y CL4



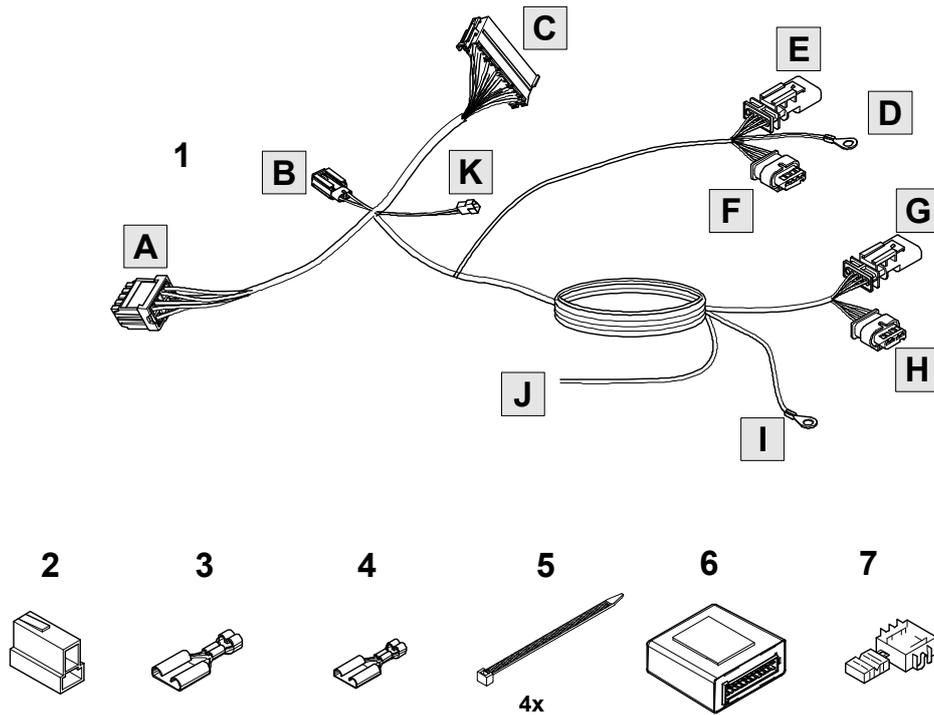


# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

TESLA MODEL Y CL4

## **i** WIRING ASSEMBLY DIAGRAM



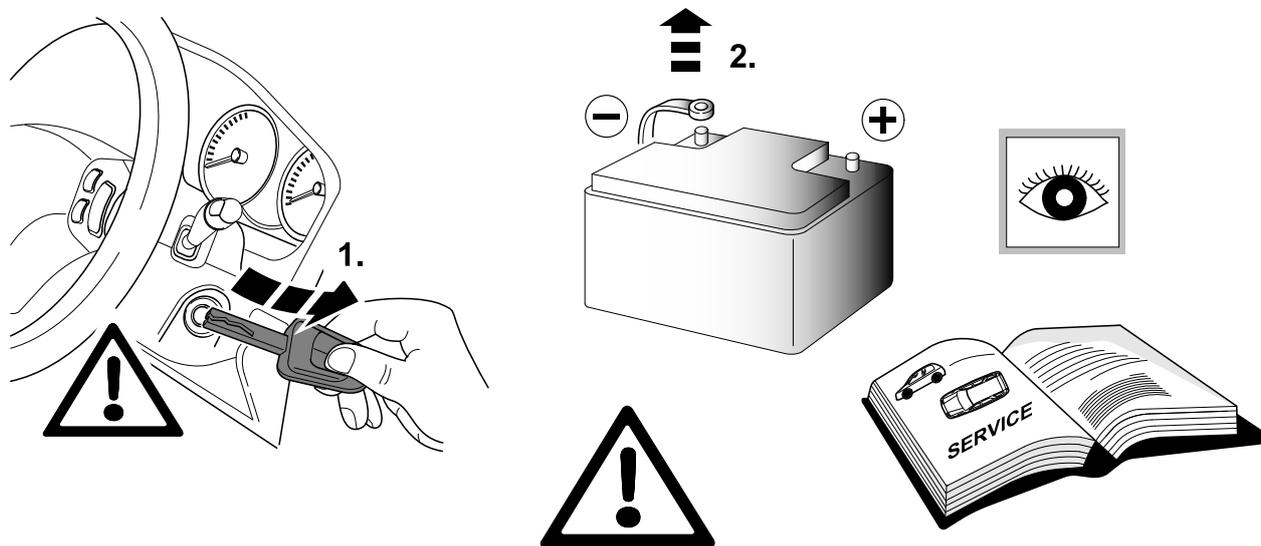
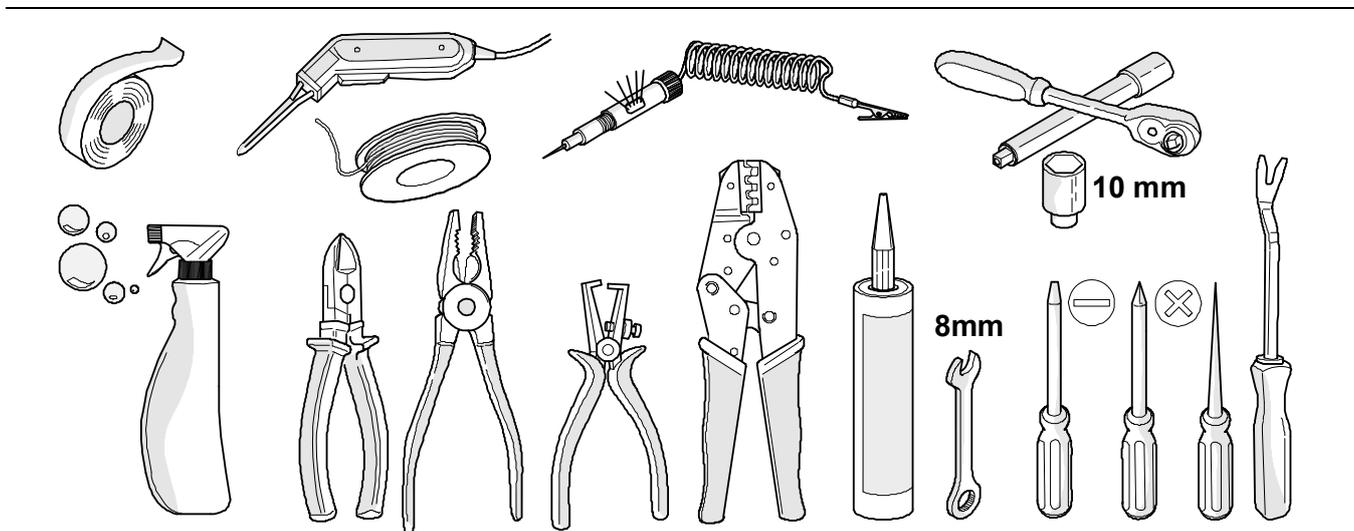
ITEM	DESCRIPTION	QTY
1	MAIN WIRE HARNESS	1
2	HOUSING 082 NT 6.3MM	1
3	CONTACT 6,30MM/1,00	1
4	CONTACT 6,30MM/2,50	1
5	TIE STRAPS	4
6	TIE STRAPS	20
7	TRAILER CONTROL MODULE 12V (04844)	1
9	WIRE TAP	1



# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

TESLA MODEL Y CL4



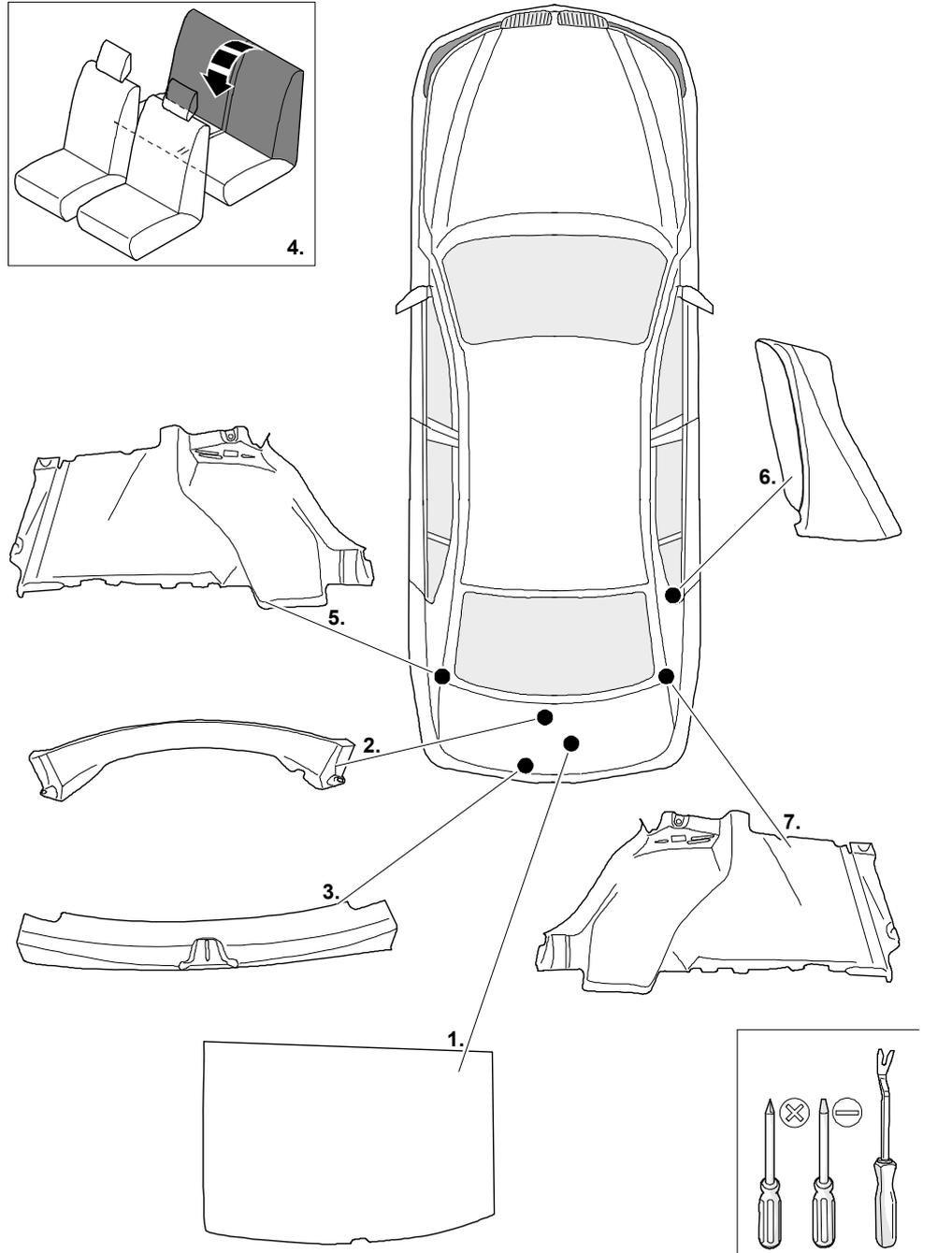


# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

TESLA MODEL Y CL4

## Interior panel removal Steps.

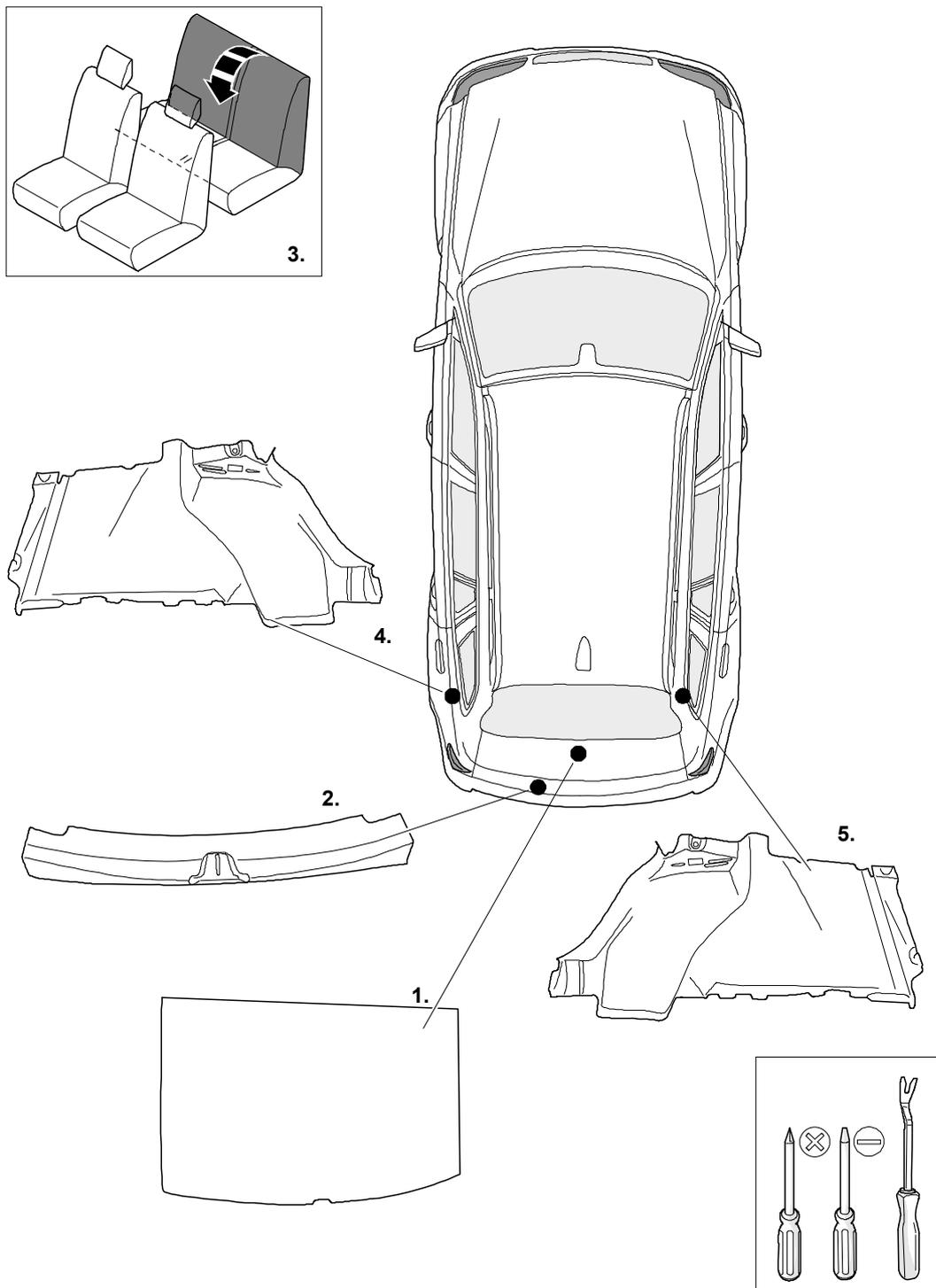




# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

TESLA MODEL Y CL4



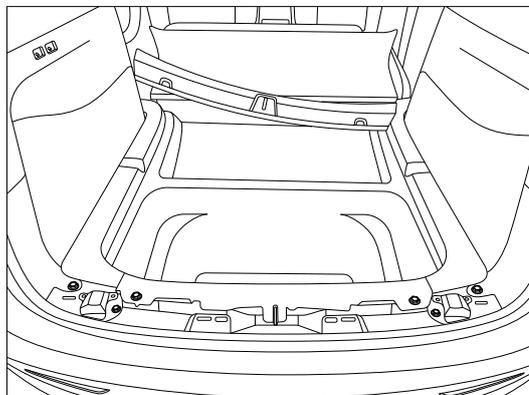


# TOWBAR INSTALLATION INSTRUCTIONS

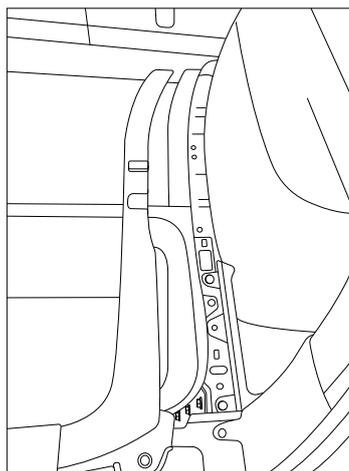
PART NUMBER 03454RW

TESLA MODEL Y CL4

1. Open the tailgate.  
Remove the cargo floor cover.  
Pull out the rear latch trim.



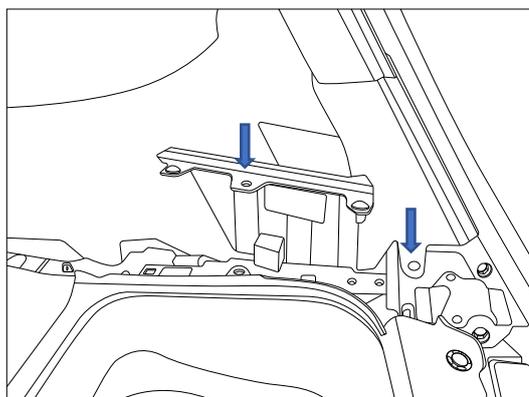
2. Pull out the side rail.  
  
Repeat for the other side.



3. Remove 2x scrivet clip.  
Pull out the pocket trim.
4. Dislodge the rear cargo trim.

Repeat for the other side.

**Note: LHS trim has 2 x connectors to disconnect prior to dislodge.**





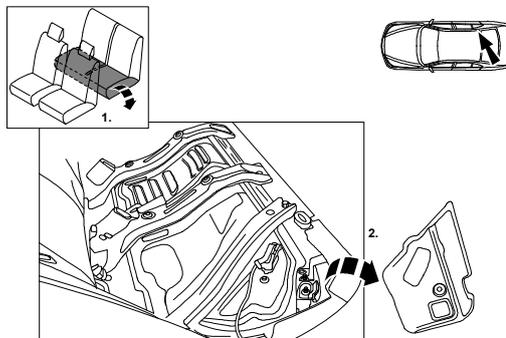
# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

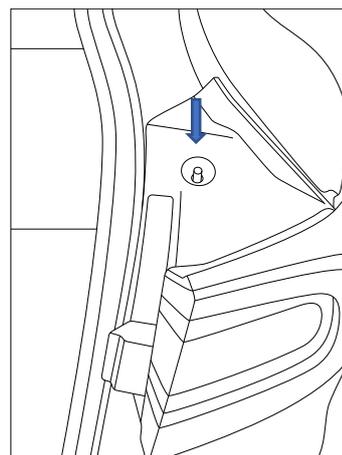
TESLA MODEL Y CL4

5. Remove the lower rear seat cushion.

**Note: This is to expose the battery post which is used in step 31.**

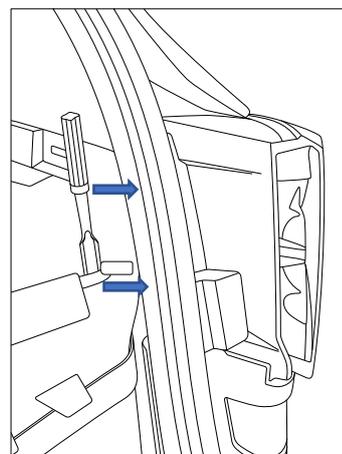


6. Remove the tailgate bump stop.



7. Remove 2x nuts behind the tail light.

Repeat for the other side.





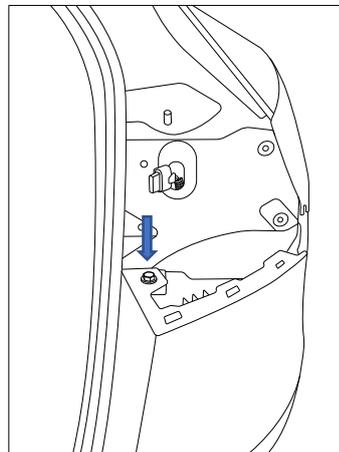
# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

TESLA MODEL Y CL4

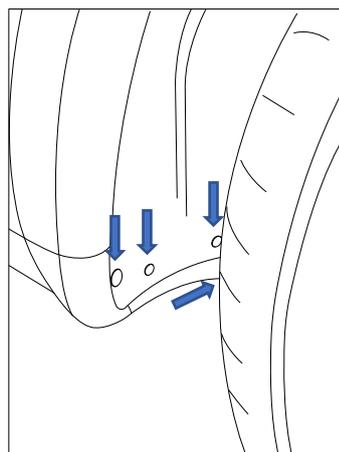
8. Pull the taillight rearward.  
Disconnect the tail light wire.  
Remove 1x screw on the bumper.

Repeat for the other side.



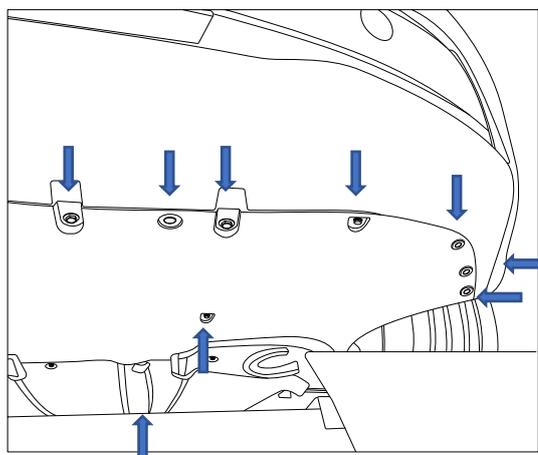
9. Remove 4x scrivet clips on the wheel guard.

Repeat for the other side.



10. Remove 6x screws and 3x scrivet clips on the bumper under cover.

Pull down to remove the bumper under cover.



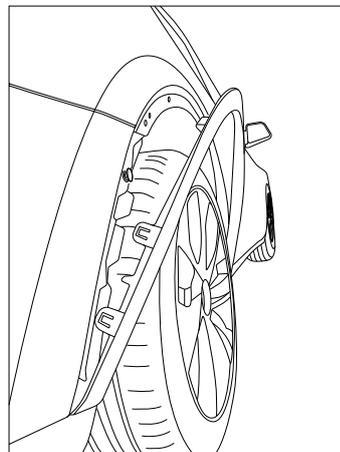


# TOWBAR INSTALLATION INSTRUCTIONS

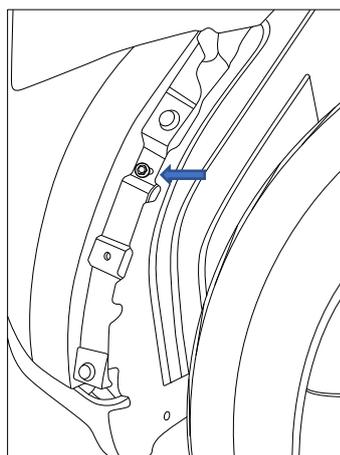
PART NUMBER 03454RW

TESLA MODEL Y CL4

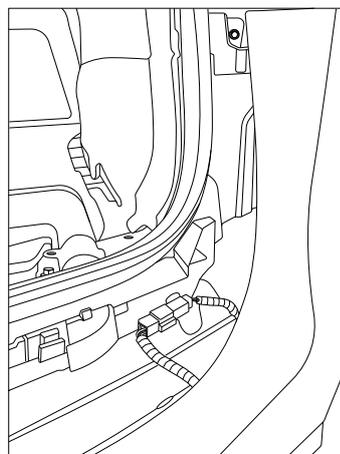
11. Unclip the wheel fender.



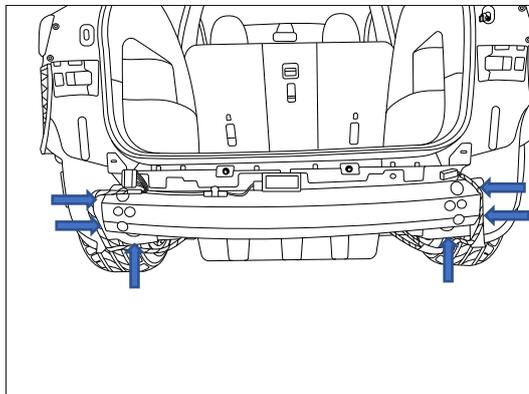
12. Remove 1x screw on the bumper.



13. Unclip the bumper and disconnect the wire loom.

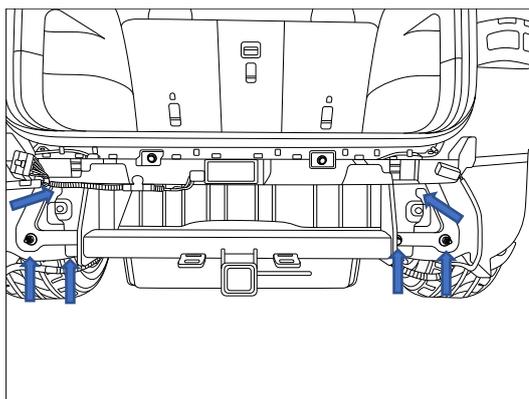


14. Remove 6x nuts and retain the nuts for towbar mounting.
15. Discard the impact beam.



16. Fit the towbar to the car and scure with 6x nuts retained from the impact beam.

Torque the 6x nuts  
M10x1.5 = 62 Nm



## Warning

There are orange high voltages wire in this area check before drilling.

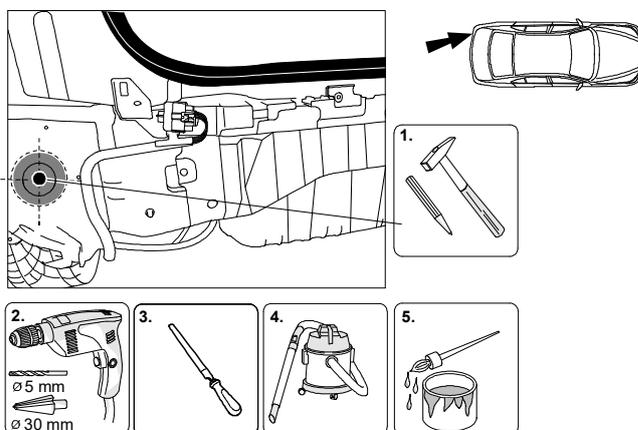
**Note: If there is unused grommet.**

17. Using a step drill; drill out to  $\varnothing 30\text{mm}$  hole.

**Note: If there is no grommet available.**

18. Find a suitable location on the LHS sheetmetal using a step drill; drill a  $\varnothing 30\text{mm}$  hole.

**Note: File any rough or sharp edges and spray rust inhibitor.**



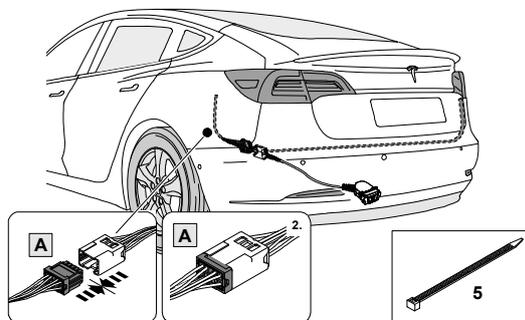


# TOWBAR INSTALLATION INSTRUCTIONS

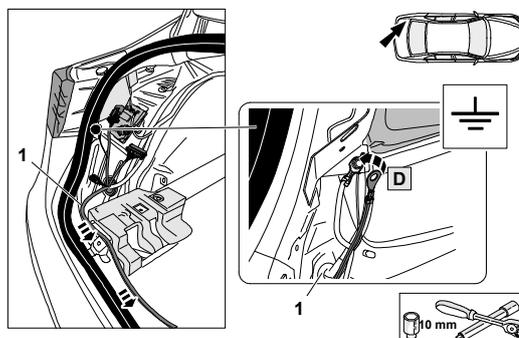
PART NUMBER 03454RW

TESLA MODEL Y CL4

19. Mount the 1800 tail trailer plug to plug bracket.
20. Feed the 1800 tail connector through the previously drilled hole, slide the grommet to desired position and secure using a cable tie.
21. Connect the tail connector to trailer patch mating connector (A).

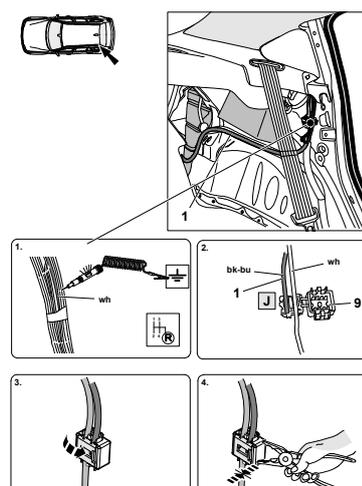


22. Connect the trailer patch ring terminal (D) to factory ground point.



**Note: This step is for Reverse only.**

23. Locate white wire on the LHS of wheel arch loom. measure the reverse signal, then use a scotch lock to connect to trailer patch Black/Blue wire (J).



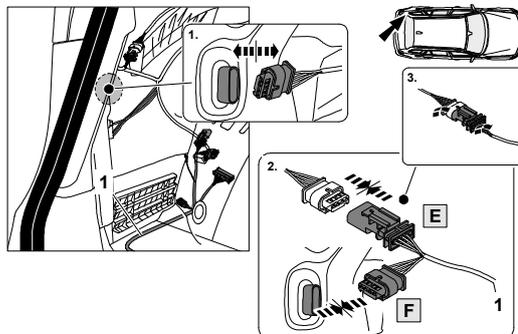


# TOWBAR INSTALLATION INSTRUCTIONS

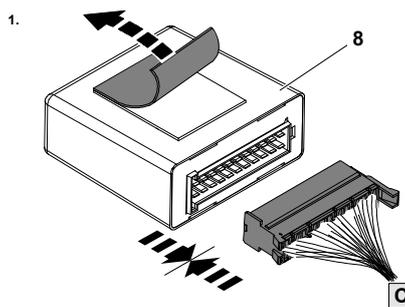
PART NUMBER 03454RW

TESLA MODEL Y CL4

24. Connect the LHS trailer patch tail light connector (E) to vehicle mating connector.

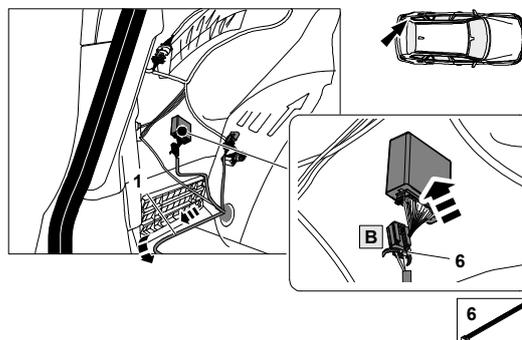


25. Connect trailer patch ECU connector (C) to ECU (6).  
26. Peel the backing tape from the trailer module.



27. Place the ECU to vehicle sheetmetal.

**Apply pressure ensuring good adhesion.**



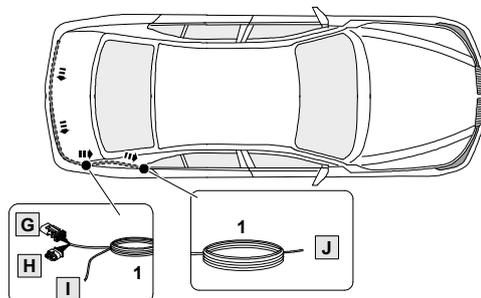


# TOWBAR INSTALLATION INSTRUCTIONS

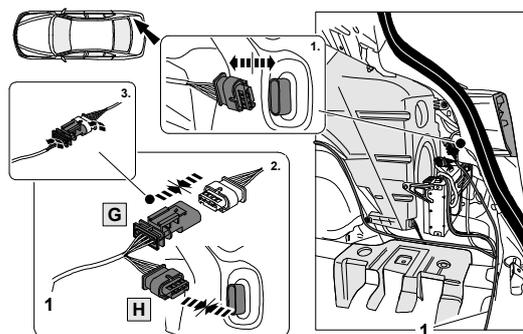
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TESLA MODEL Y CL4

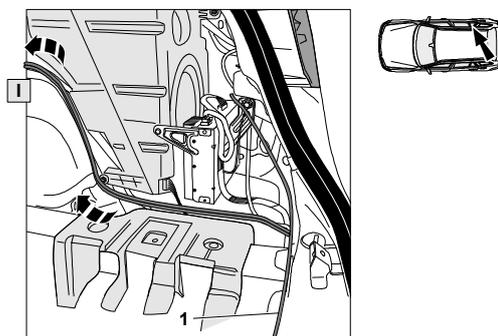
28. Route the trailer patch towards the RHS of the vehicle.



29. Connect the RHS trailer patch taillight connector (G) to vehicle mating connector.



30. Route trailer patch power ring terminal (I) towards the battery post. Rear RHS passenger seat.





# TOWBAR INSTALLATION INSTRUCTIONS

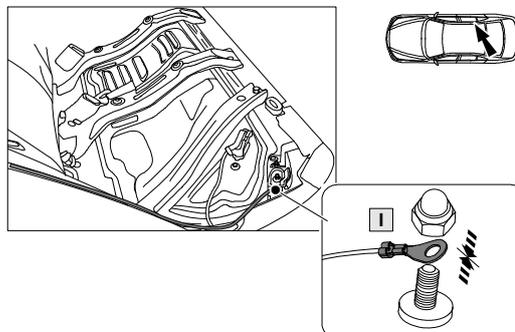
PART NUMBER 03454RW

TESLA MODEL Y CL4

31. Connect trailer patch ring terminal (I) to positive battery terminal post.

 **Warning**

**Note: Care to be taken when securing the terminal not to short out positive post.**



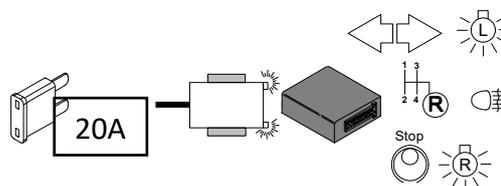
32. Secure harness using cable ties.

 **Warning**

33. **Refit bumper and taillights before testing trailer functionality.**

**Failure to comply will result in the taillight circuit will not operate for 30min.**

34. Used fuse for a module protection is 20A.



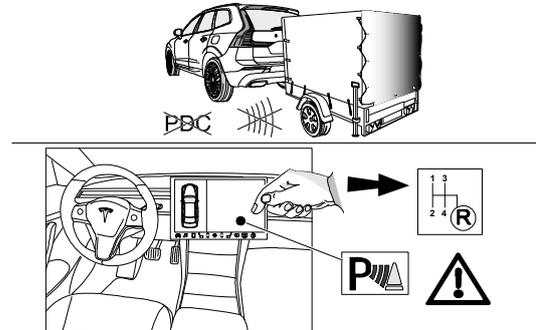


# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03454RW

TESLA MODEL Y CL4

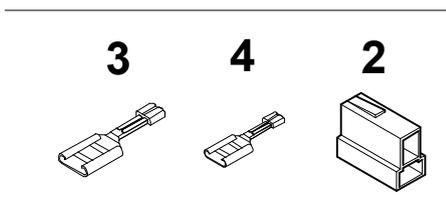
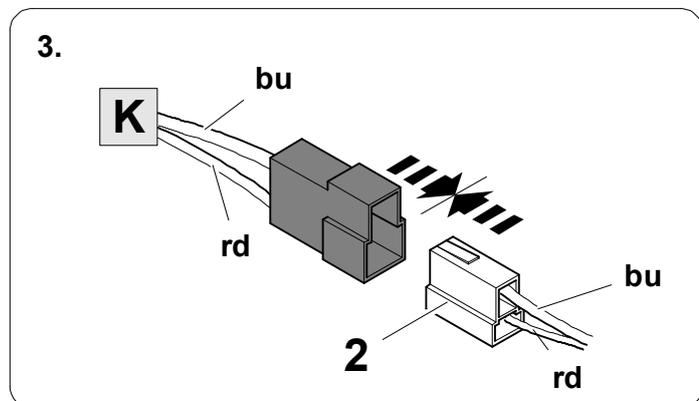
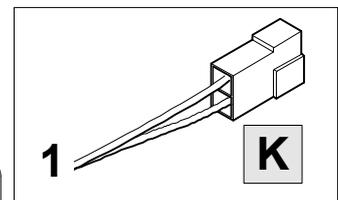
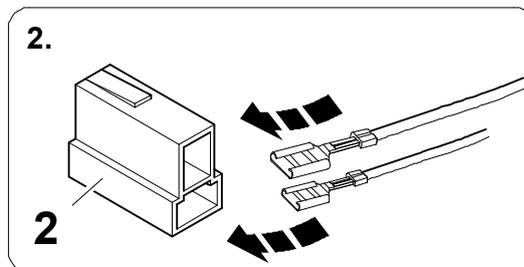
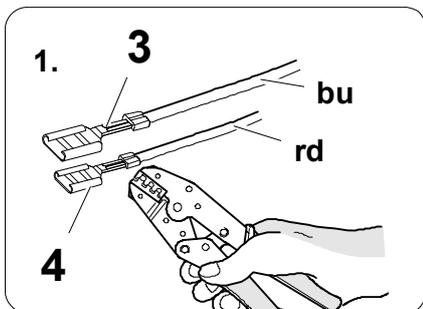
35. RPA disable is accessed via infotainment.



36.



## Trailer Brake Preparation





# CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE  
VEHICLE'S GLOVEBOX AFTER INSTALLATION

**THANK YOU FOR PURCHASING HAYMAN REESE.  
WITH CORRECT MAINTENANCE AND CARE THIS PRODUCT WILL PROVIDE A  
LIFETIME OF TROUBLE-FREE OPERATION.**

## **i** TOWBAR MAINTENANCE AND CARE:

1. Hayman Reese recommend that the towbar LUG or TBM (tow ball Mount) Pull Pin and R-clip are removed and stored when not in use. Removal of LUG or TBM (tow ball mount) is advisable when not in use to assist with any of the following.
  - Ensure rear number plate is not obscured.
  - Allow maximum available departure angle and prevent any potential interference.
  - Prevent possible interference with vehicles reverse sensors or camera detecting a tow ball mount as an obstruction during reversing.
  - Removes towball mount as an obstruction for when moving around the rear of the vehicle.
2. Hayman Reese recommends routine inspection of your towbar to ensure trouble free towing.
  - Bolt security and tension should be regularly inspected and checked for correct tension. Replace any worn or defective parts with suitable grade & class fasteners. Inspection should be requested to coincide with vehicle major services.
3. It is the owner's responsibility to ensure towing and down ball weight capacities of the towing vehicle are not exceeded.
  - Towing and down ball weights allowable may differ according to model variations. Please refer to owner's manual or vehicle dealer to confirm exact rating for your vehicle model variant.
  - It is not uncommon for the vehicle tow rating to differ from the towbar rating. When this occurs, the lesser rating must be adhered to.
  - For vehicles fitted with enhanced vehicle functions that may be altered/changed when towing i.e Trailer sway mitigation, blind spot detection, adaptive cruise control etc. Please consult owner's manual to understand changes enabled when towing and after towing.

## **i** WARRANTY INFORMATION:

Hayman Reese Towbars are covered by a Lifetime Warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

For further details please visit [www.haymanreese.com.au/warranty](http://www.haymanreese.com.au/warranty) or contact customer service on 1800 812 017 or [info@haymanreese.com.au](mailto:info@haymanreese.com.au).



# CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION

## HAYMAN REESE SMART PIN

Your Hayman Reese towbar is equipped with Smart Pin technology to help reduce towbar tongue rattle in most driving conditions. Please ensure below instructions are understood and routine maintenance is carried out to ensure best towing experience.



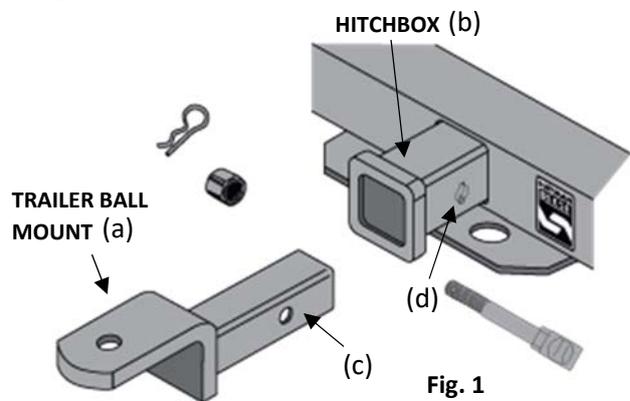
Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- Before towing, ensure R-Clip is properly installed and Smart pin nut is installed and tensioned. Replacement parts are available from your Hayman Reese Distributor.

## TOWBALL MOUNT REMOVAL/INSTALLATION

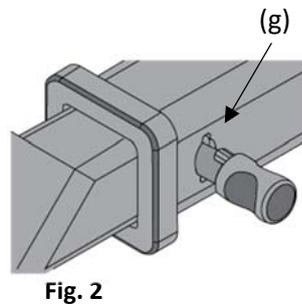
### STEP 1

Insert Trailer Ball Mount (TBM) (a) into towbar hitchbox (b), aligning hole in TBM shank (c) with hole in hitchbox (d) (Fig. 1)



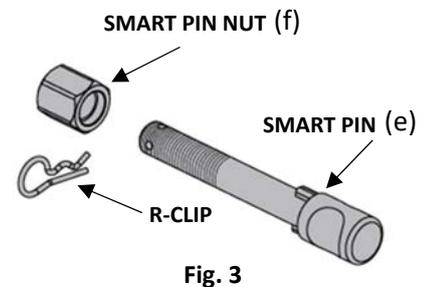
### STEP 2

Insert Smart Pin (e) through hole in hitchbox and hole in TBM shank (g); ensure the locators are inserted into the notches in the hitchbox (Fig. 2)



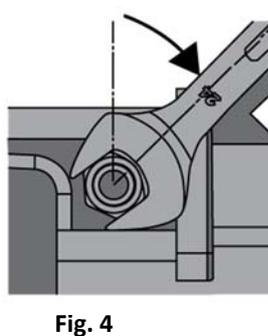
### STEP 3

Screw Smart Pin Nut (f) onto Smart Pin (g); tighten Smart Pin Nut until finger tight, ensuring TBM is restrained from up and down movement.



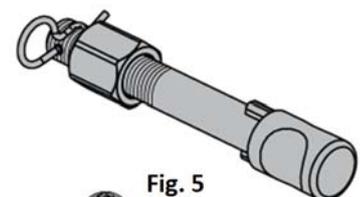
### STEP 4

Tighten Smart Pin Nut by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig. 4).



### STEP 5

Install Smart Pin R-Clip through the hole that provides best clearance or easiest access. (Fig. 5)



### STEP 6

Install towball onto TBM and tighten to **350 Nm** using a calibrated torque wrench (Fig. 6).

