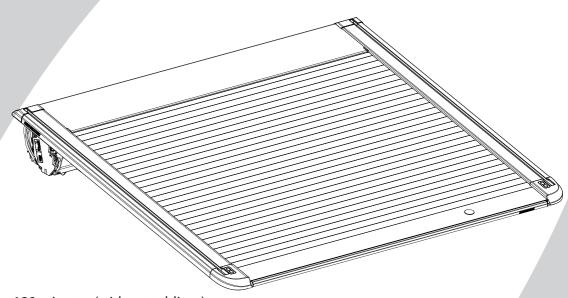
# **INSTALLATION INSTRUCTIONS**



# **ELECTRIC**

**Vehicle Model: LDV T60** 

Year of manufacture: 2018 onwards



Installation time: 180 minutes (without tubliner)

#### Caution

- Do not attach EGR RollTrac in a location or by a method not specified.
- Do not use this product for any vehicle make or model, other than those specified in this document.
- Do not remove the plaque or label from this product.
- Do not modify the structure of the EGR RollTrac in any way.

#### **General Notes**

- Read through the fitting instructions before installation of EGR RollTrac.
- · Always install the accessory following the fitting instructions. Failure to do so may cause damage to the vehicle or the accessory.
- Ensure all recyclable discarded vehicle accessory components and packaging are recycled following local recycling regulations.
- It is always recommended that this accessory is fitted by a qualified Technician.
- Safely store and protect any removed vehicle components.
- Ensure all bare metal surfaces are protected using Automotive Bare Metal Primer and touch-up paint.
- Remove all metal swarf and dust from all vehicle surfaces if surface is used for accessory installation.





#### Safety Notes

- Check that all work practices comply with safety standards.
- Please wear appropriate clothing and use safety equipment.

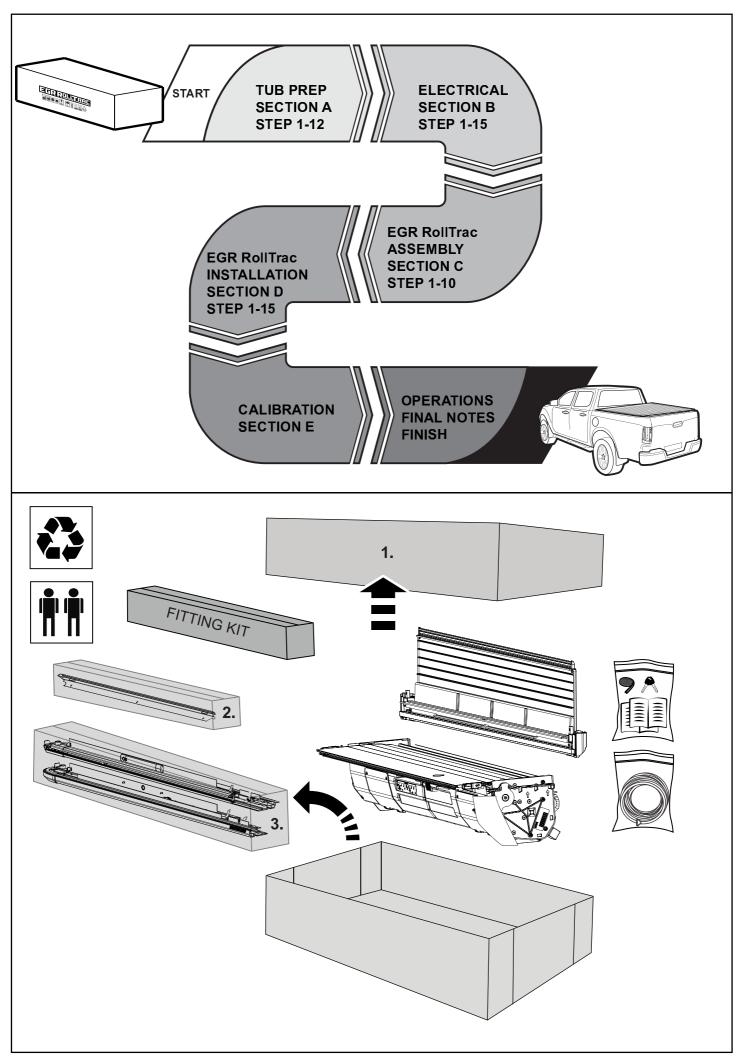




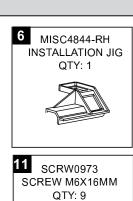




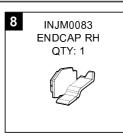




#### KIT CONTENTS - COMPONENT NUMBER AND QUANTITY 1 2 CANISTER ASM. QTY: 1 FRONT COVER QTY: 1 4 3 LHS RAIL QTY: 1 RHS RAIL QTY: 1 5 TAILGATE RAIL QTY: 1 KIT036423 EGR ROLLTRAC FITTING KIT IN BOX 6 MISC4844-RH 8 CONS70097 7 MISC4844-LH INJM0083 INJM0082 CABLE TIE INSTALLATION JIG INSTALLATION JIG ENDCAP RH **ENDCAP LH** QTY: 8 QTY: 1 QTY: 1 QTY: 1 QTY: 1



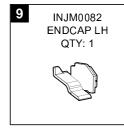


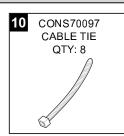


KIT036421

**CLAMP SET** QTY: 1

> . () ٥٥ 00





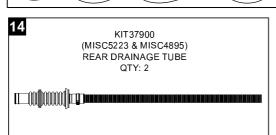


MISC5222

FRONT DRAINAGE TUBE

QTY: 2

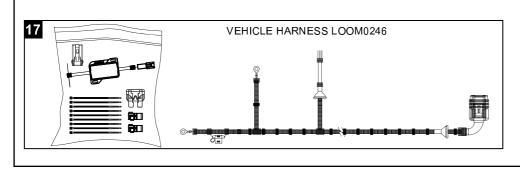
13



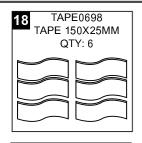




#### EGR ROLLTRAC FITTING KIT COMPONENTS IN BAGS



#### **EGR ROLLTRAC FITTING KIT ADDITIONAL ITEMS**

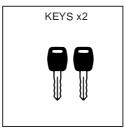














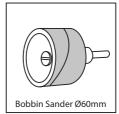
# **TOOLS REQUIRED - NOT SUPPLIED IN KIT**

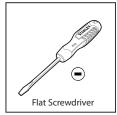




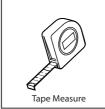


















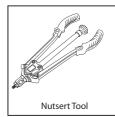






























Cutting device needed to trim tubliner

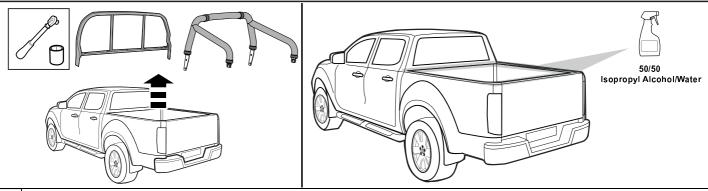
#### **GLOSSARY:**

1 number inside a square indicate part number

number inside circle indicate the sequence within a step

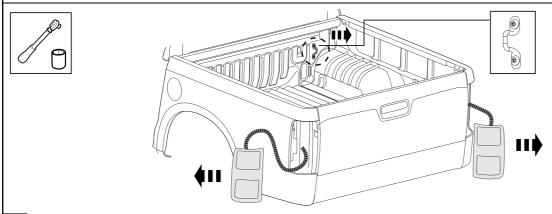
1 number inside the hexagon indicate torque instruction

#### **SECTION A** TUB PREPARATION



Carefully remove any accessories (Sports Bars, Cabin Guards, etc.) attached to the tub of the vehicle. **Important:** Refit all the screws to cover holes in the tub.

Thoroughly wash the vehicle and tub and ensure that all dirt and grease is removed. Allow to dry. Clean the top surfaces of the tub and tailgate with a mixture of Isopropyl Alcohol and Water (50/50) and allow to dry.



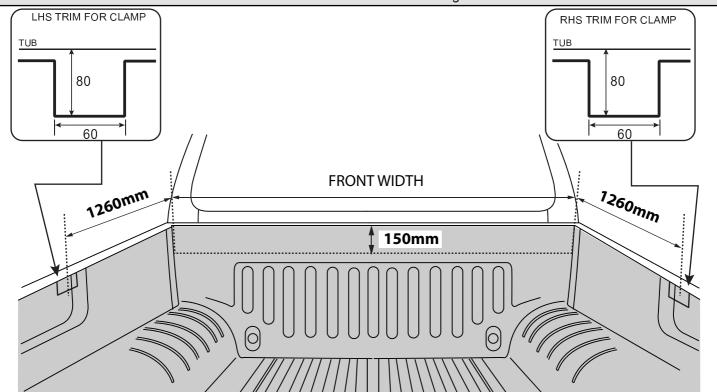
Carefully remove both Rear Tail Lamps with the appropriate tools and store in safe place. Retain all hardware for re-installation. Remove front tie down hooks. Refit only the screws to cover the holes in the tub.

#### TUB LINER TRIM NOTE:

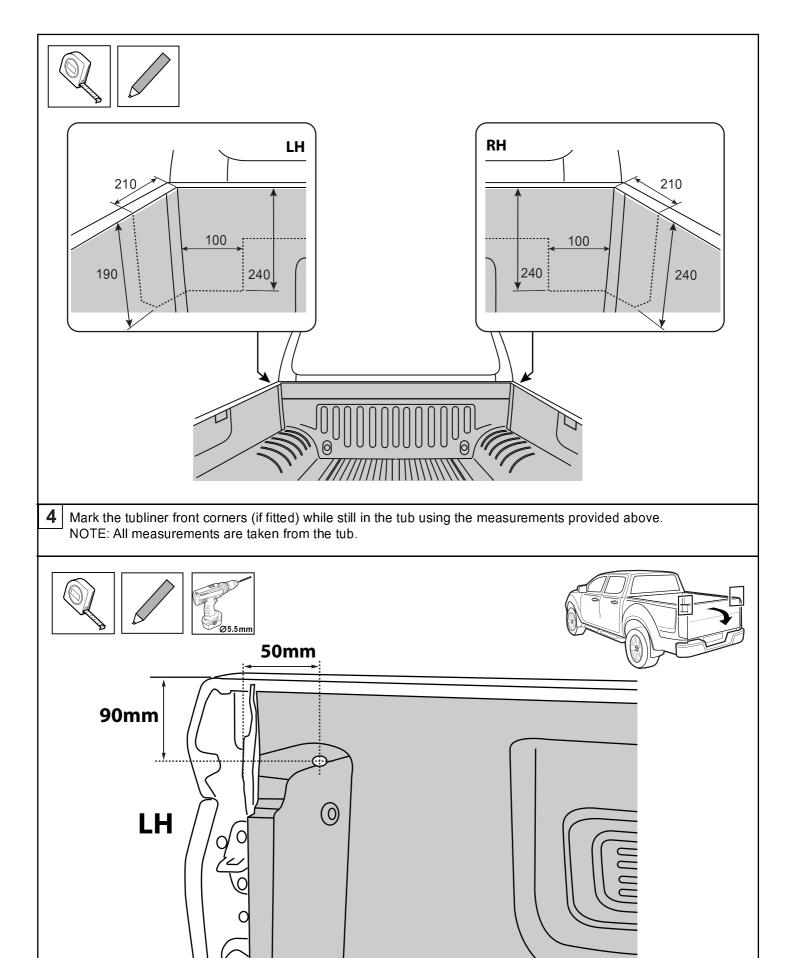


Due to variations in tubliners it is strongly recommended that Installers mark up and pre check part fitment in assy and adjust trim lines prior to making final cuts. EGR will not be held responsible for incorrect or inaccurate liner trimming.

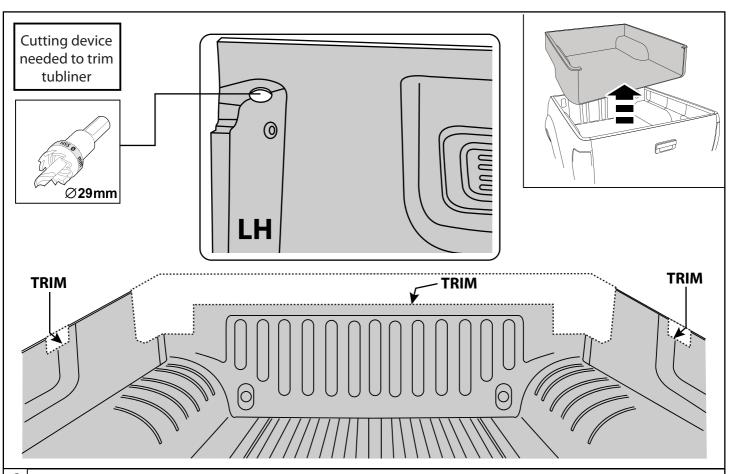




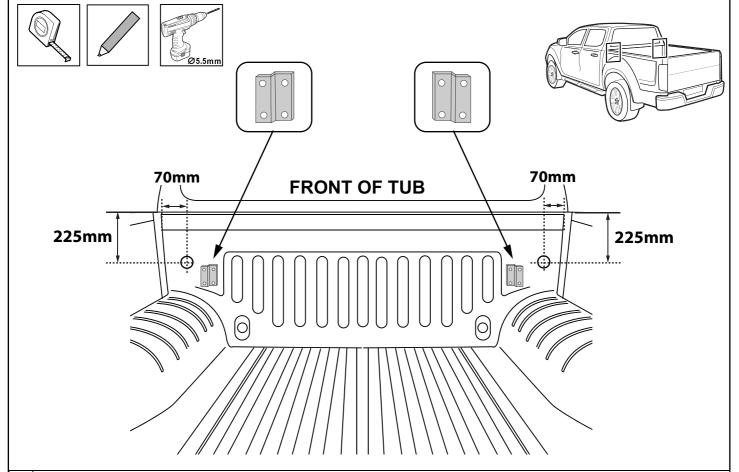
Mark the tubliner for the side clamps cut outs (if fitted) while still in the tub using the measurements provided above. 3 NOTE: All measurements are taken from the tub.



Fully open the tailgate and at the rear of the tub on both sides measure and markup the positions for the Rear Drain Tubes. Centre punch the locations and drill through the tub and tubliner (if fitted) with 5.5mm drill.

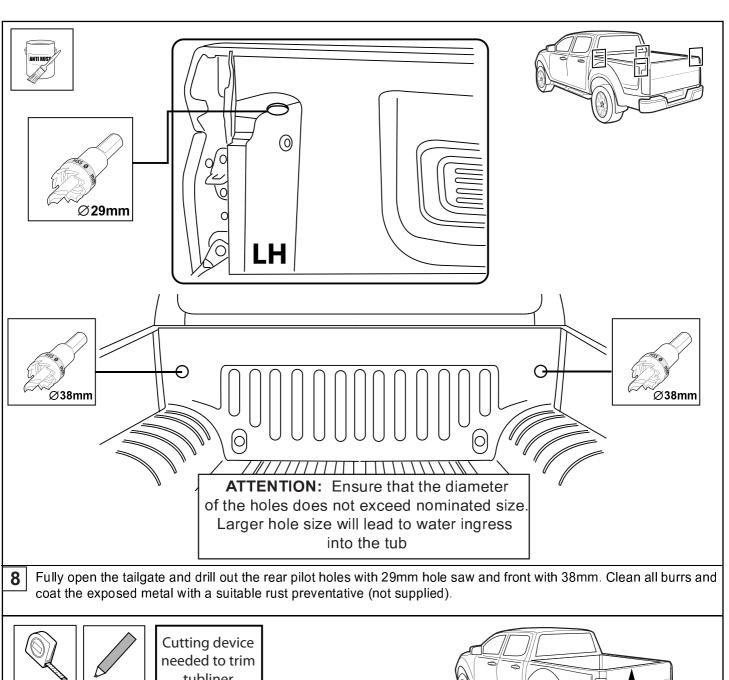


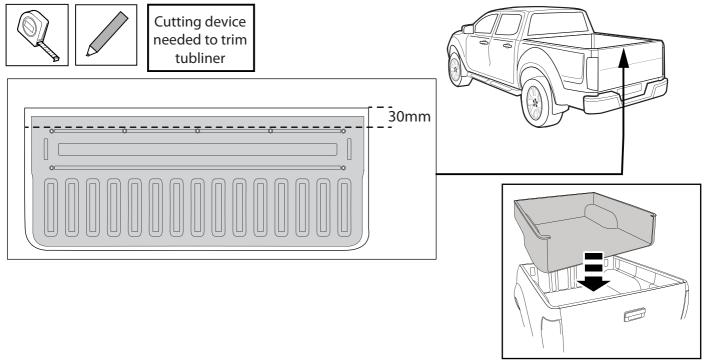
Remove the tubliner and attachment hardware. Drill out the rear pilot holes with 29mm hole saw. Trim the tubliner following the markings using a suitable cutting device. Clean all burrs.



Measure and markup 225mm from top edge of the tub and 70mm from the inside corner of the tub for the positions of the front Drain Tubes. Centre punch the locations and drill through the tub with 5.5mm drill.

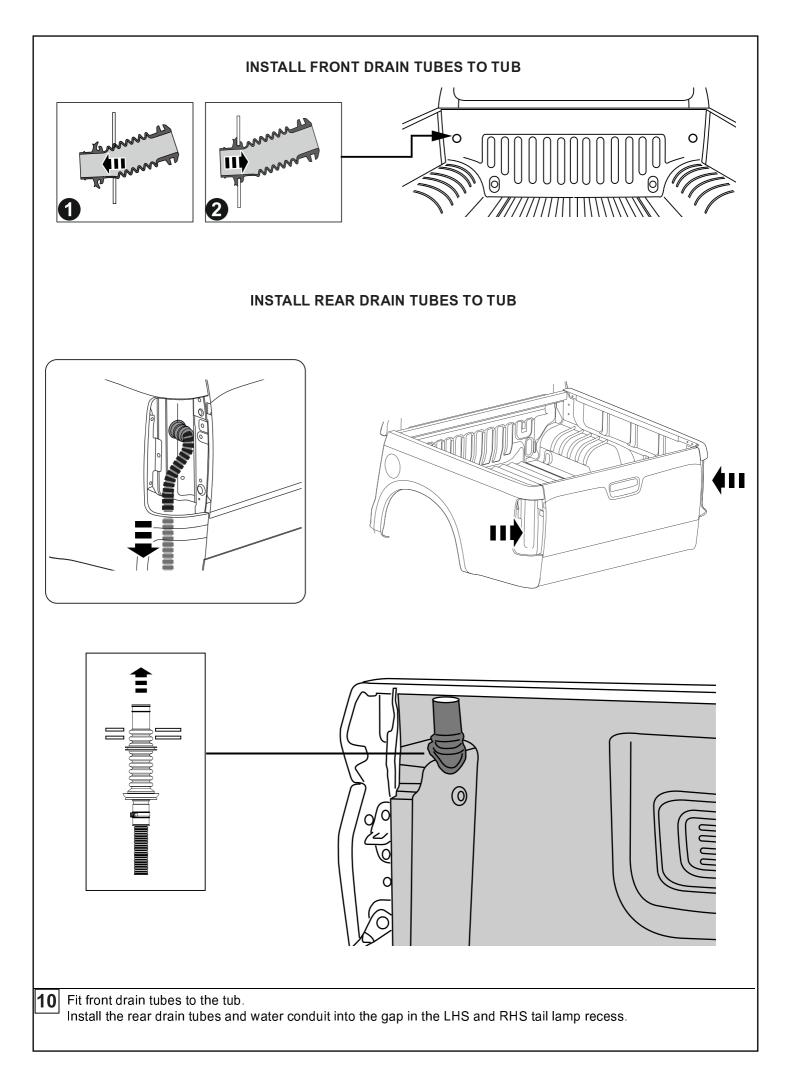
Remove and discard the two front brackets used for tubliner attachment. Refit only the screws to cover the holes in the tub.

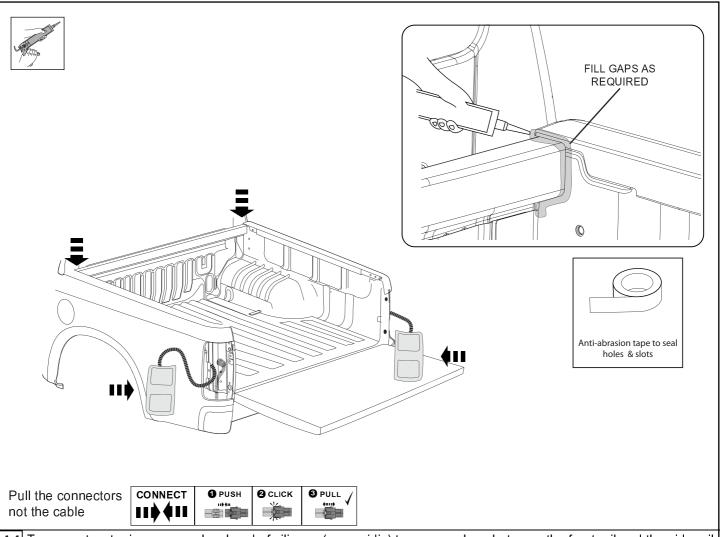




If tailgate liner is fitted, mark line as indicated the top of tailgate. Remove and trim along the line using cutting device.

Refit the tailgate liner and tubliner.

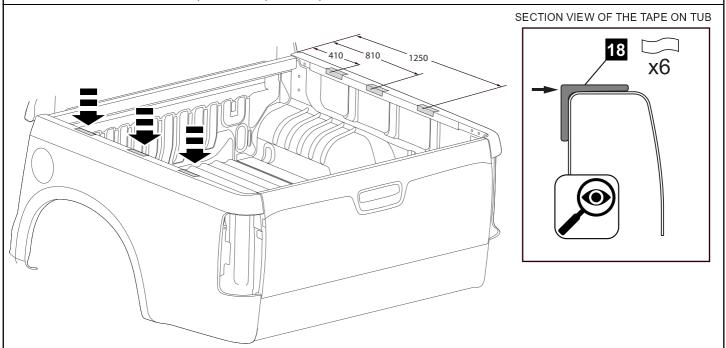




To prevent water ingress, apply a bead of silicone (non-acidic) to gaps such as between the front rail and the side rail as shown. Holes in the tub from any removed accessories should be covered using tape or silicone.

NOTE: Ensure the Silicone bead transitions smoothly between front and side rail.

Re-connect the rear tail lamps with the previously removed hardware.



Clean top of the tub. Measurements taken from front of the tub to the centre of each tape, as per the diagram. Adhere 6 Abrasive Protection Strips (18) to the top of the tub at clamp locations. Position the tape so that it is aligned with the inside wall of the tub as shown.

#### **SECTION B**

#### **OVERVIEW OF ELECTRICAL LOOM INSTALLATION**



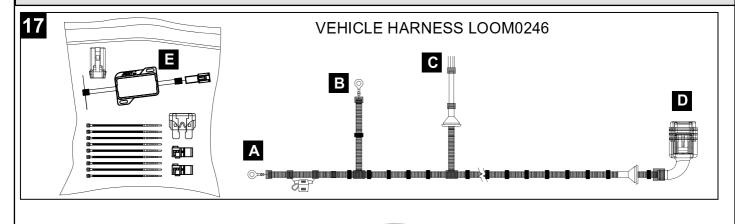
IMPORTANT: DISCONNECT CAR BATTERY NEGATIVE TERMINAL. FIT THE SUPPLIED FUSES AT THE END OF INSTALLATION.

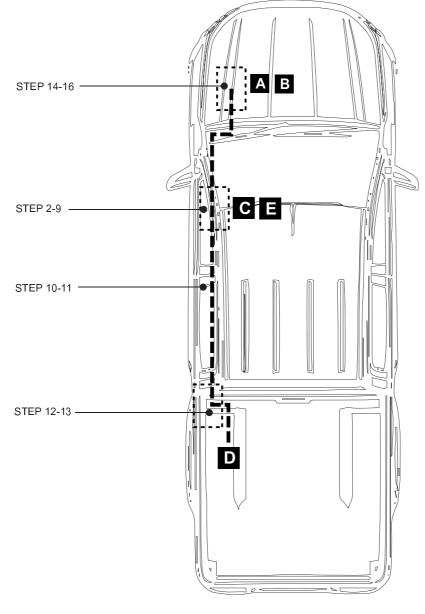




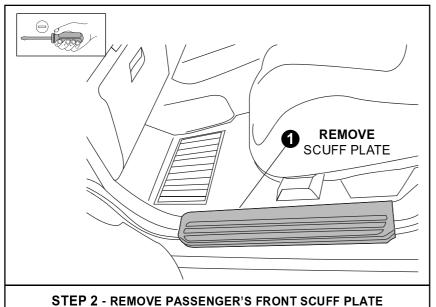
WHILE ROUTING THE VEHICLE HARNESS AVOID ANY VEHICLE COMPONENTS
THAT HEAT UP, LIKE EXHAUST AND ENGINE COMPONENTS.
DO NOT ATTACH HARNESS TO FUEL LINES AND AVOID PINCH POINTS.



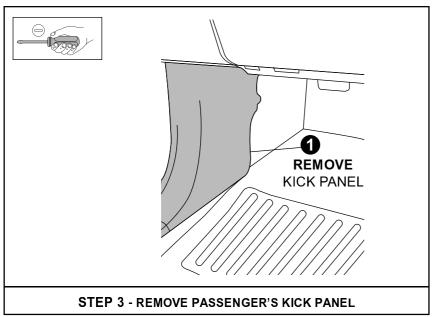




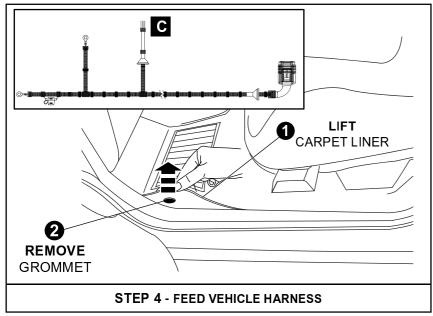
STEP 1 - VEHICLE HARNESS LAYOUT



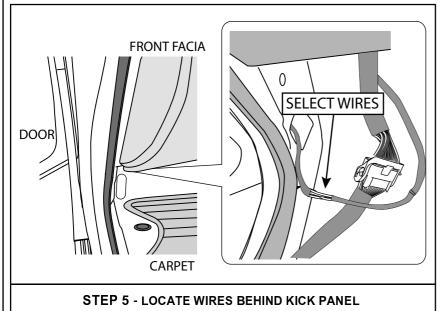
Remove the passenger's front side scuff plate by lifting it with flat screwdriver or trim removal tool.



Remove the passenger's kick panel by lifting it with flat screwdriver or trim removal tool.



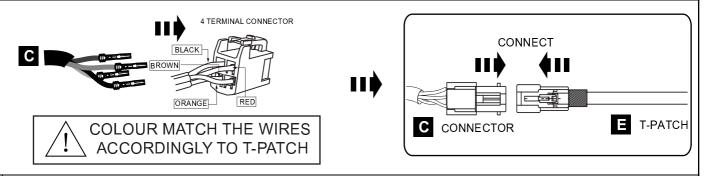
Locate and remove the grommet inside the passenger footwell. Feed vehicle harness (branch C) into the passenger footwell until the opening is sealed by the vehicle grommet.



Locate the main harness on the passenger floor along with a smaller harness

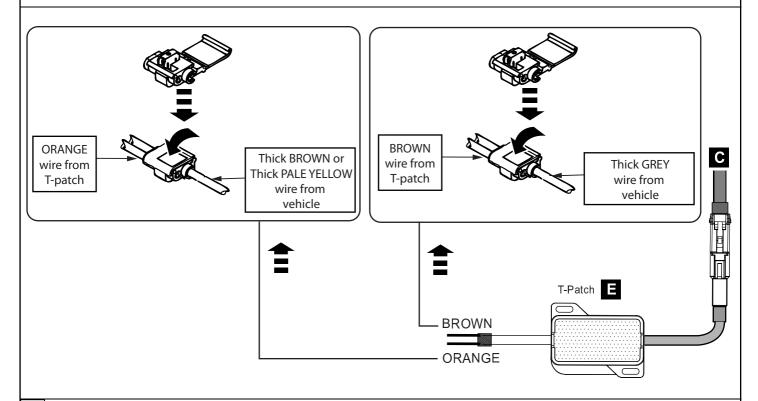
running from under the front facia to the opening in the LHS A-pillar.

Remove 70 mm - 90 mm black insulation tape from the cables to expose the two wires (thick BROWN or PALE YELLOW & thick GREY) to splice with the connectors.



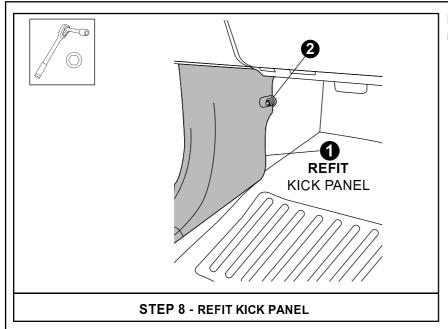
Connect the 4 wires to the connector (supplied) and plug into the T-patch.

Note: Make sure the wires are colour matched to the wires in the T-patch connector.

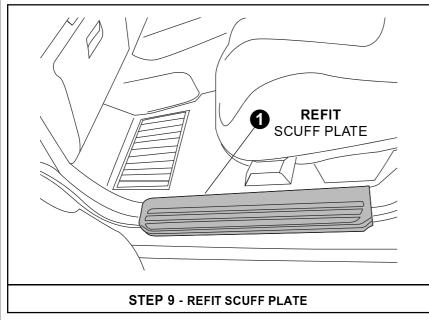


Connect the wehicle harness (C) to the T-patch (E). Splice the designated wire as shown from the vehicle harness with corresponding wire from RollTrac T-patch harness using the supplied wire tap.

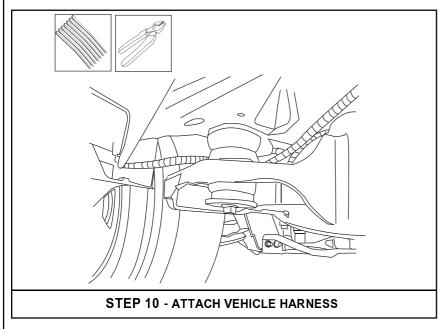
Note: Clamp down firmly on metal component in the wire tap.



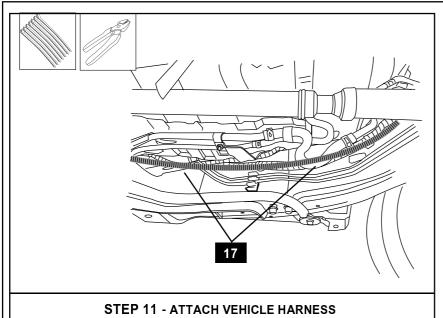
Refit the kick panel ensuring the wiring does not get trapped by clip fasteners.



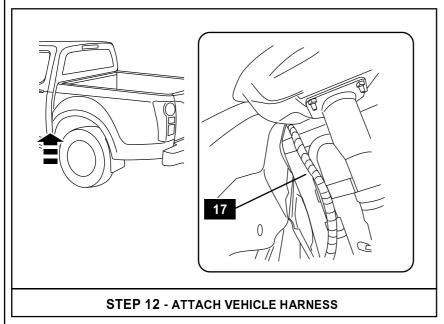
Refit the scuff plate ensuring the wiring does not get trapped by clip fasteners.



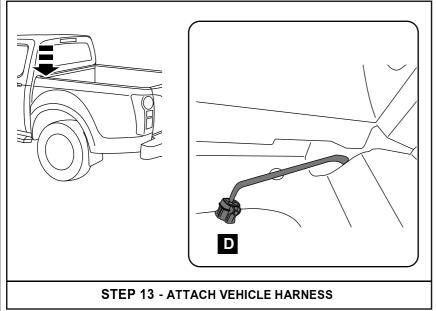
Run the Vehicle Harness from the front wheel arch to the rear along the chassis rail and secure with cable ties. Make sure harness is clear of sharp edges. Avoid exhaust and drive shaft.



Run the Vehicle Harness to the rear along the chassis rail and secure with cable ties to existing vehicle harness.



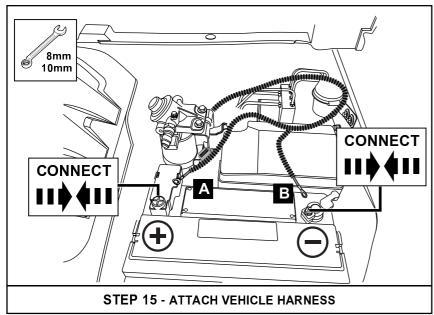
Remove wheel arch front section to allow feeding a draw wire from inside the tub down to the vehicle harness.



Feed the harness up into the tub using the draw wire fitted in between the sheet metal at the front left of the tub rail.

**STEP 14 - ATTACH VEHICLE HARNESS** 

Feed the harness up into the engine bay.



Connect the Vehicle Harness to the positive and negative terminals of the battery. NOTE: Once harness is in position secure in place using cable ties.

#### **SECTION C**

#### **EGR RollTrac ASSEMBLY**

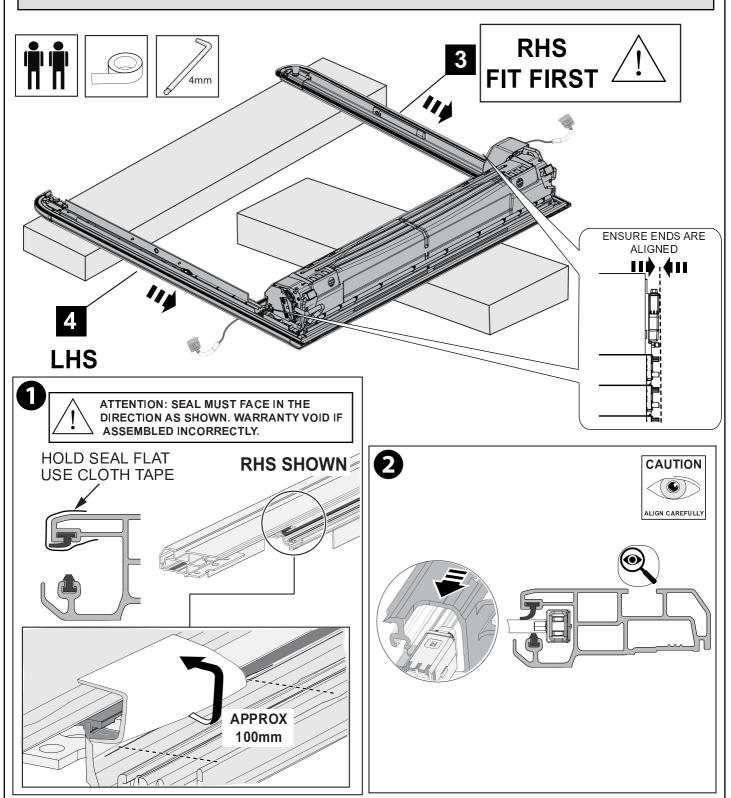


DURING ASSEMBLY PROCEDURE SUPPORT AT CENTRE OF CANISTER ONLY, PLACE ON TOP AND BASE CARTON (OR SIMILAR), COVER WITH FOAM BLANKET.

TO AVOID SCRATCHING POWDERCOATED SURFACES.

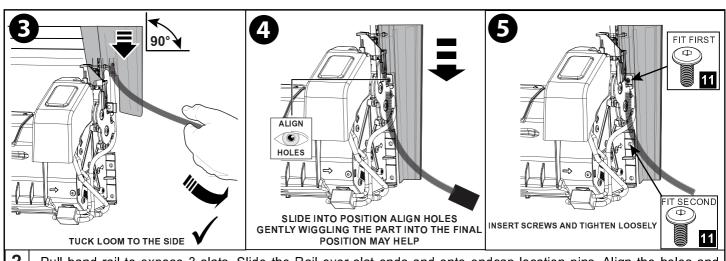
DO NOT LOAD ELECTRICAL CONNECTORS OR MOTOR COVER.



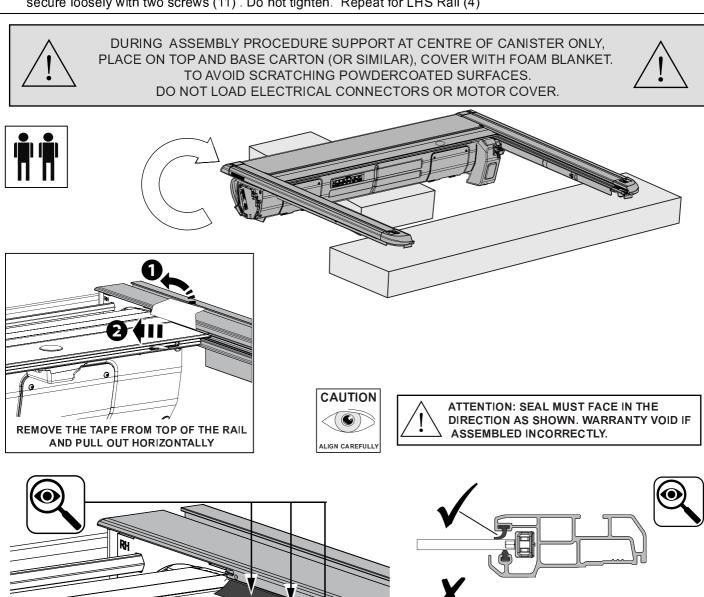


Place the canister (1) on two protected boxes as shown, ensure hand rail and slat ends are aligned. Tape up the seal on the Side Rail (3) as shown.

**IMPORTANT:** Carefully align and slide the rail over the handrail contact and canister endplate taking particular care to ensure that the side rails are slid straight and no undue force is applied to the electrical contact. Details in following steps.

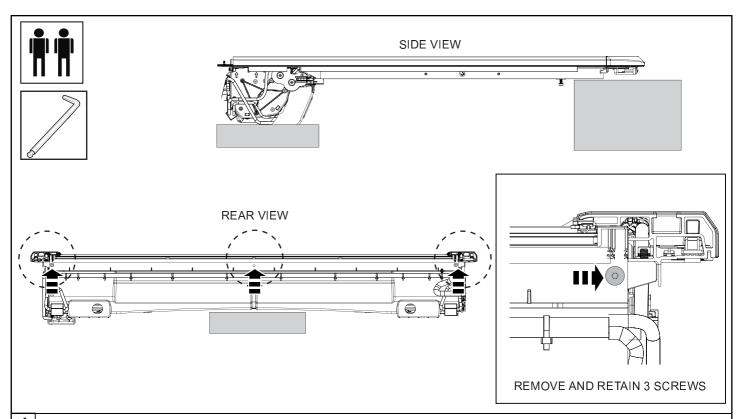


Pull hand rail to expose 3 slats. Slide the Rail over slat ends and onto endcap location pins. Align the holes and secure loosely with two screws (11). Do not tighten. Repeat for LHS Rail (4)



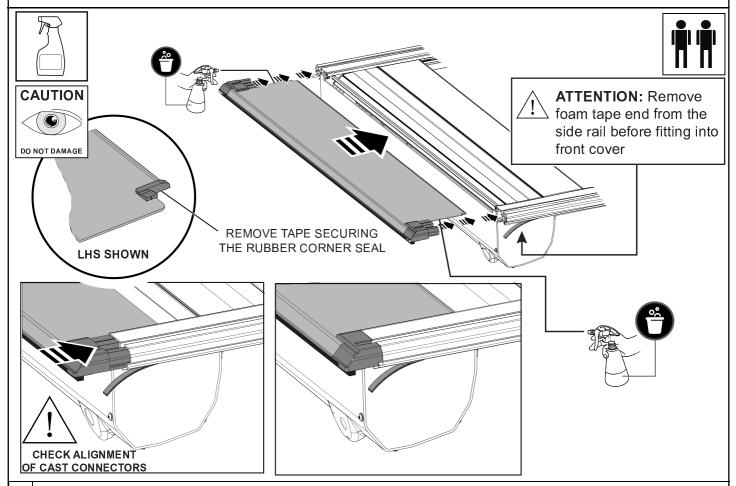
Carefully lay the assembly over onto a protected surface. Remove the tape holding the rubber seal and check the seal position as shown. Repeat for LHS Rail (4)

CHECK SEAL IS IN POSITION AND NOT DAMAGED

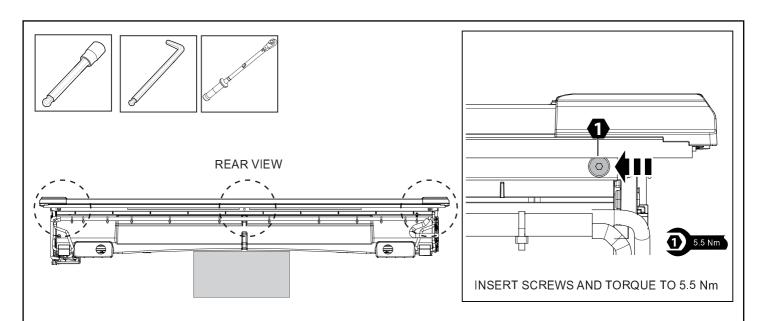


Remove the 3 pre-fitted screws (11) from the rear of the cover which will be used to secure the Front Plate (1) to the assembly. Ensure the product is not scratched or damaged when laying flat.

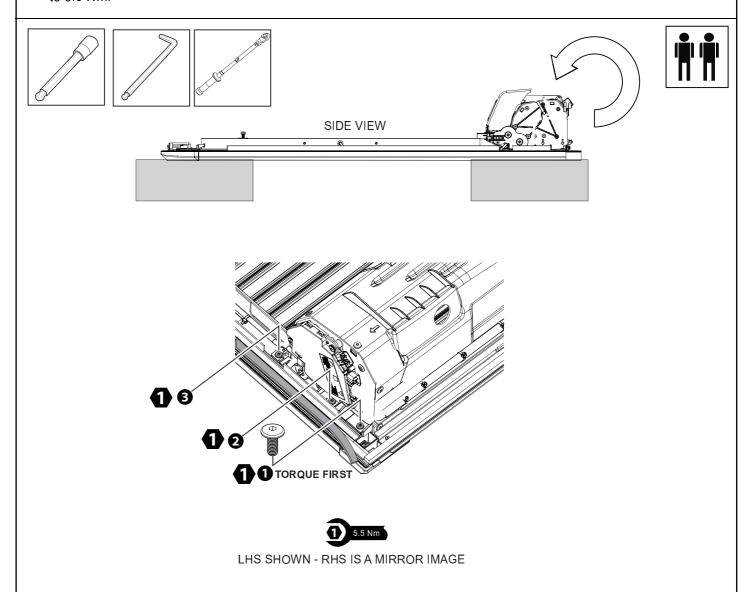
IMPORTANT: Do not apply load to the electrical connectors and do not sit product on motor cover.



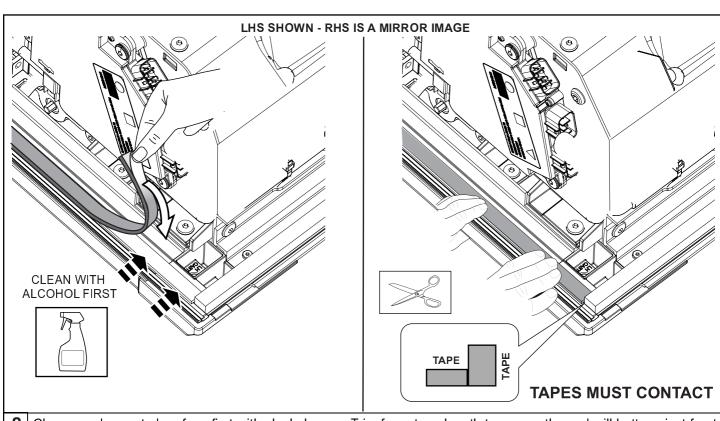
Slide the Front Plate (2) over the canister and into the side rail channels ensuring that the foam side rail tape is pulled out of side rail and the small rubber corner seal on the RHS and LHS of the front plate are not damaged. IMPORTANT: Spray the front cover edge with soapy water to allow it to slide easily into the sides, twisting side rails outwards will also help.



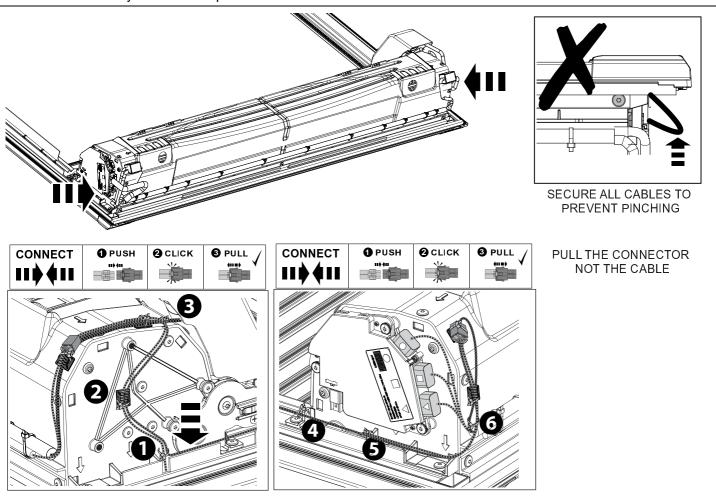
Using the 3 screws removed from Step 4, screw the Front Plate (2) to the Canister Assembly (1) and torque to 5.5 Nm.



Carefully flip the assembly over onto a flat protected surface which will not damage the cover or scratch the paint work. Install the 2 screws (11) at the most rearward position first through the front cover to the side rails and torque to 5.5Nm followed by the remaining 4 screws (11) and torque to 5.5Nm.

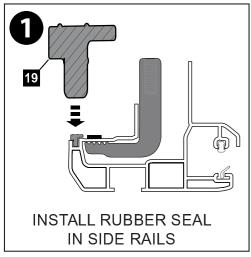


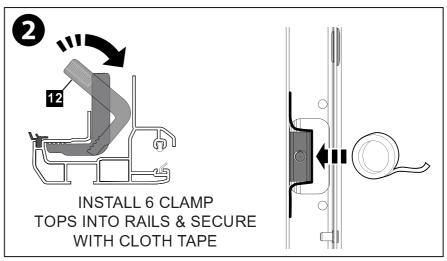
Clean powder coated surface first with alcohol spray. Trim foam tape length to ensure the end will butt against front cover seal - avoiding any gap. Peel the protective liner from the foam tape, adhere to the channel in the side rail, Press down firmly to secure. Repeat on RH side rail.

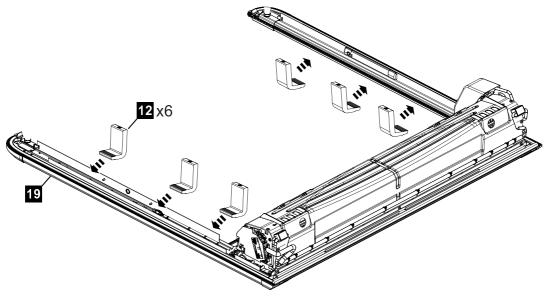


Connect side rail harness connectors to the connectors on the canister on the LHS and RHS.

Secure the harness to the canister using cable ties at the six locations shown. Secure with zip ties and pads. Ensure all cables are retained to prevent pinching during installation.

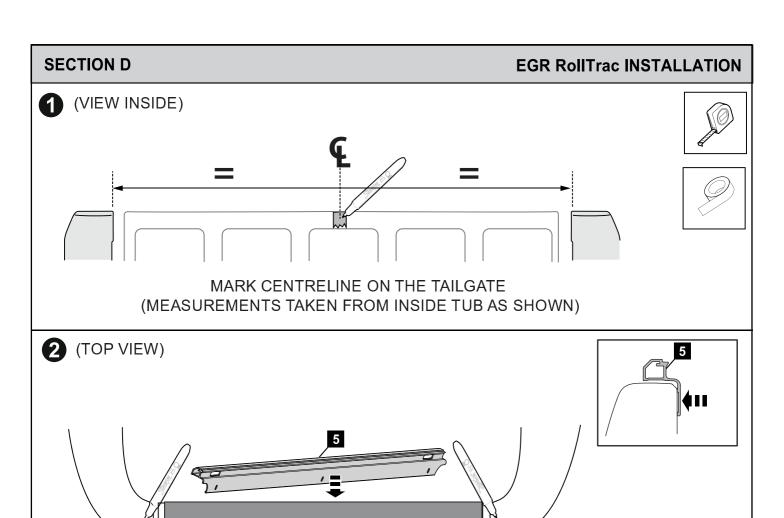






- 10 1. Install the Rubber Perimeter Seal into each side rail and ensure seal is firmly seated (note the seal orientation). Important: do not stretch the seal while fitting.
  - 2. Install the six Clamp Tops (12) into the LHS and RHS side rails and secure with cloth tape to temporarily hold in position

CONTINUE ON THE NEXT PAGE



MARK LINE ON LHS AND RHS

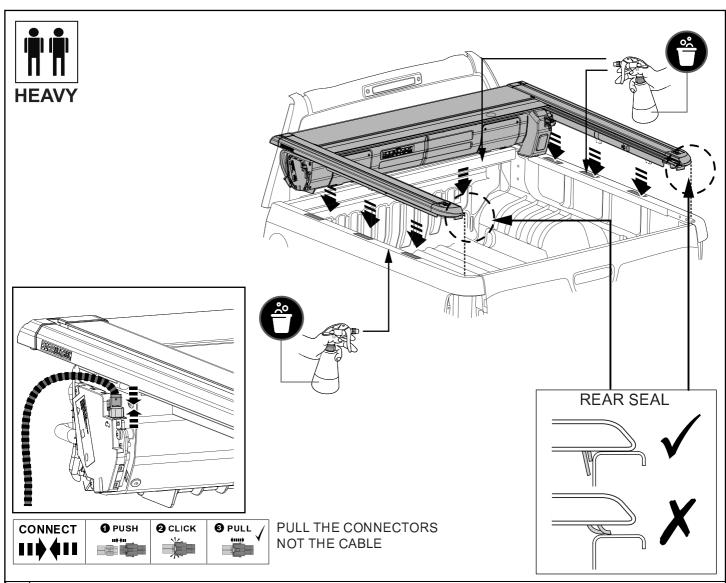
STRAIGHT EDGE

1 Measure the tailgate opening distance, determine the centre point and mark on a strip of tape placed on the tailgate as shown.

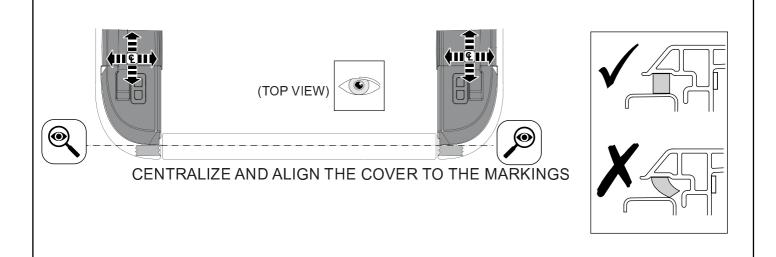
Install and centralise the Tailgate Rail (5) in position, ensuring the rail is sitting flush up against the tailgate. Place a straight edge as shown and mark a line on each side of the tub on the masking tape. Remove the Tailgate Rail (5).

STRAIGHT EDGE

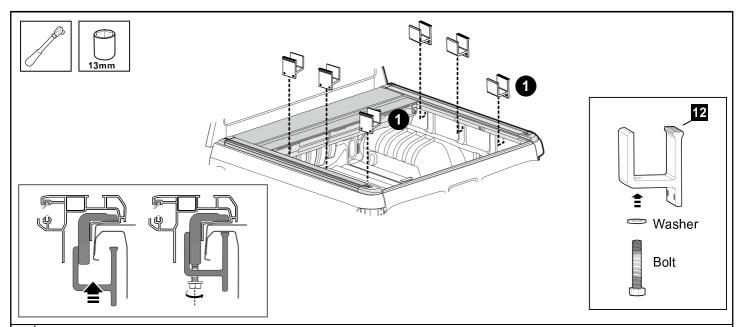
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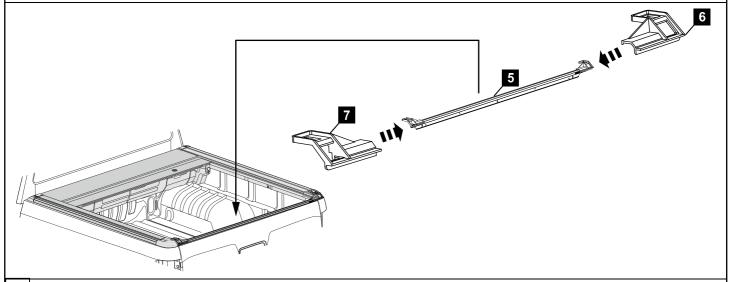
Spray the top surface of the tub liberally with a soapy water solution to enable the Cover to slide easily. Using two people to lift the cover from both sides and carefully lower it onto the tub. Connect the vehicle harness to the ECU as shown. **NOTE:** You may have to lift the LHS of the cover and use packer to aid connection. Ensure rear seals are sitting vertically as illustrated.



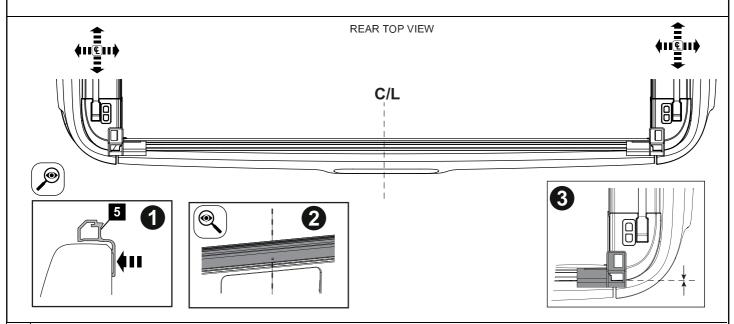
Adjust the cover so that it is aligned with the previous markings as shown. Ensure seals are not deformed by lifting cover and dropping vertically on tub.



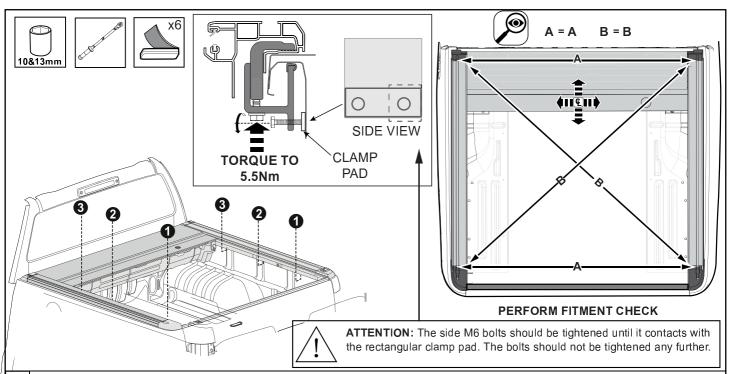
4 Slide the clamp feet (20) onto the clamp base and loosely install the LHS and RHS clamp bases (12). DO NOT TIGHTEN. IMPORTANT: Ensure to install washers as supplied in the kit.



**5** Open the tailgate. Assemble jigs to the tailgate rail, position on rear corners of the cover. Gently close tailgate.

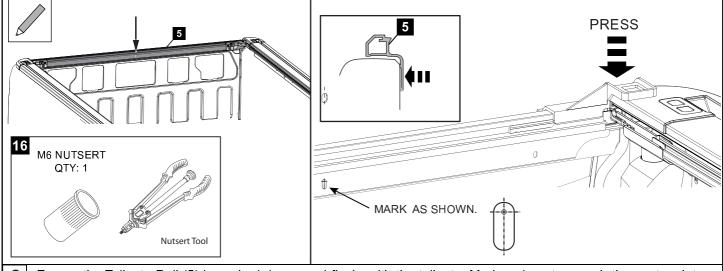


Press tailgate rail firmly against the tailgate. Check and adjust side to side by aligning the centre slot of the tailgate rail with pre marked center line. Check front to back position of cover on tub using jigs as a guide.

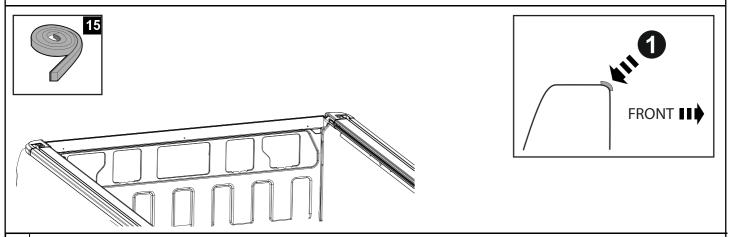


Torque (5.5Nm) the rear set of cover clamp bolts, ensuring cover does not move after tightening.

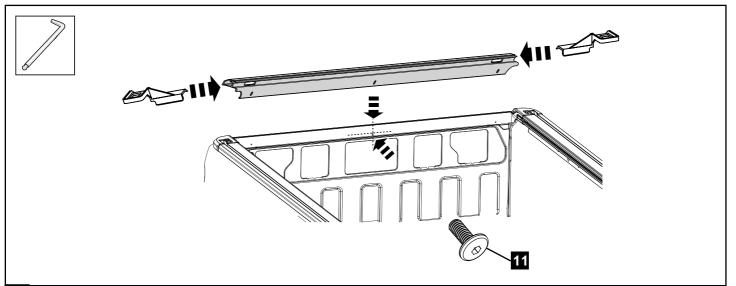
Perform diagonal fitment check (bolts may need loosening for adjustment). At this stage the clamp bolts should be tightened from tailgate to the cab to 5.5Nm.



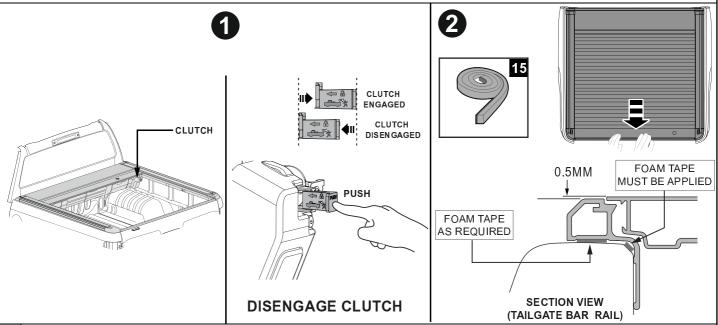
Ensure the Tailgate Rail (5) is pushed down and flush with the tailgate. Mark and centre punch the centre slot as shown. Remove tailgate rail and jigs. Drill marked location with 9mm Step Drill. Apply rust inhibitor to the hole in the tailgate. Using Nutsert tool fit 1 Nutserts to the tailgate.



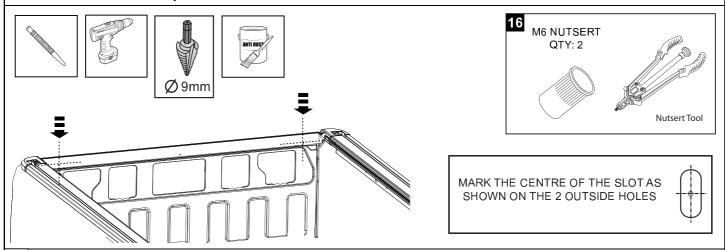
Glean tailgate with isopropyl alcohol (50/50), apply primer and let dry. Apply foam tape (15) to the tailgate inside top edge as shown in detail.



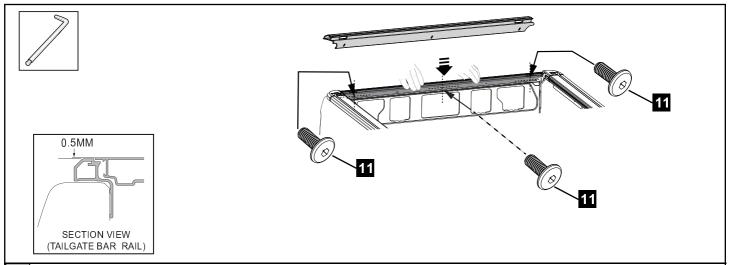
Refit the tailgate rail with the jigs to the tailgate. Push down hard in the centre above the bolt fixing onto the tailgate rail and secure with the centre bolt as shown. Torque to 5.5Nm. Remove the jigs.



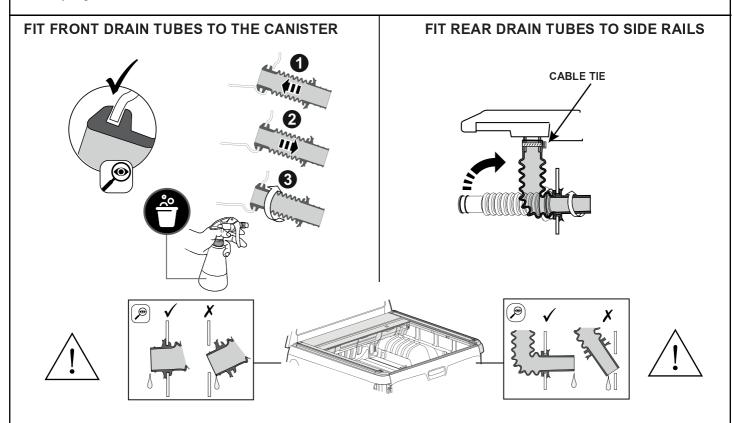
Locate the Clutch Disengagement Lever on the RH side of the cover and push the Clutch inward to disengage the motor. Pull the cover rearward to check it is rolling freely and the alignment is 0.5mm above the tailgate rail as shown in detail. NOTE: At this stage tape may need to be applied to the tailgate rail in order to lift the tailgate rail to the 0.5mm level as required.



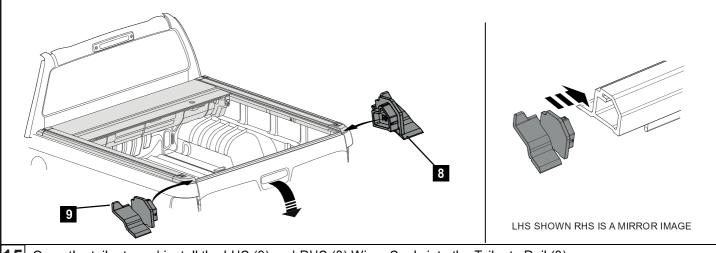
Mark the two outside slot holes. Remove the tailgate rail. Centre punch and drill the 2 marked slot positions with 9mm Step Drill. Apply rust inhibitor to the holes in the tailgate. Using Nutsert tool fit 2 Nutserts to the tailgate.



Fit tailgate rail, push down to previous position and tighten with 3 M6 screws (11). Check 0.5mm alignment prior to torquing the screws to 5.5Nm.



Connect the front drain tubes (13) to the canister cover. Connect rear (14) drain tubes to the vehicle tub, making sure that both tubes engage over the wall of the tub. Leakage will occur if they are not properly installed.



**15** Open the tailgate and install the LHS (9) and RHS (8) Wiper Seals into the Tailgate Rail (3).

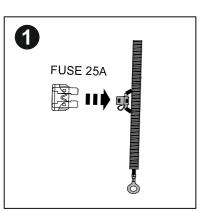
# RECOMMENDATION: SILICONE LUBRICATION TO THE SPIRALS & SIDE RAILS 1. Open the tailgate (EGR RollTrac is in open position). Using Silicone Spray (ONLY) spray onto both side rails. 2. Open both inspection covers. 3. Close the EGR RollTrac manually. NOTE: The motor clutch must be disengaged. 4. Using Silicone Spray (ONLY) spray onto the spirals on both sides of the canister. Allen Key 2.5mm 5. Open EGR RollTrac manually. 6. Close and secure the inspection covers. 0 Silicone Spray Face mask OPEN INSPECTION **OPEN INSPECTION COVER COVER** 3 **PUSH** 6 CLOSE INSPECTION COVER CLOSE INSPECTION COVER

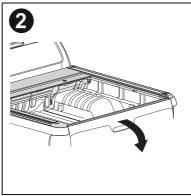
- 1. Insert fuse to EGR RollTrac harness.
- 2. Make sure the tailgate is open.
- 3. Engage motor, pull out lever (clutch).
- 4. Make sure the vehicle is unlocked and driver door open.
- 5. Press both buttons and hold for 10 sec. until light illuminates.

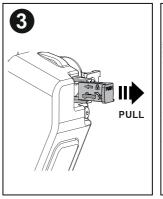


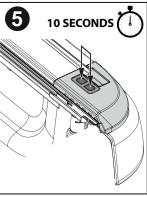
**WARNING:** Keep obstructions clear of cover during calibration mode. **IMPORTANT:** Do not leave the Rolltrac keys inside the tub.





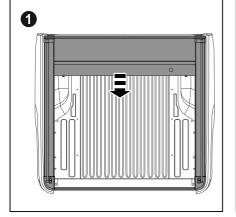


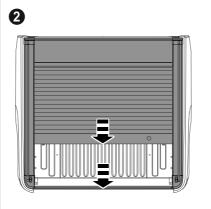


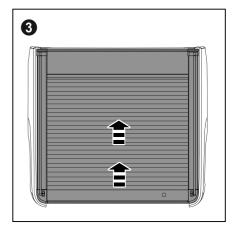


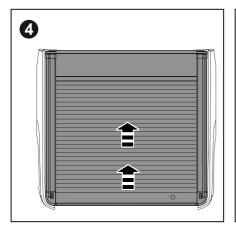
- Cover will open and close twice automatically.
- The EGR RollTrac internal LED light will pulse slowly during calibration and stop pulsing when calibration is complete.

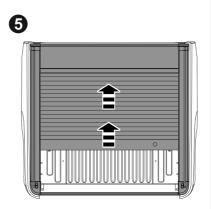


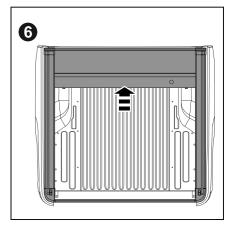






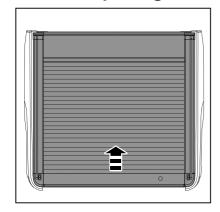




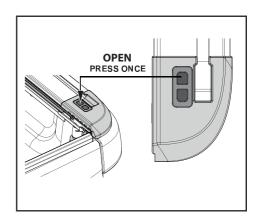


#### **OPENING AND CLOSING PROCEDURE**

## **Electric Opening Procedure:**

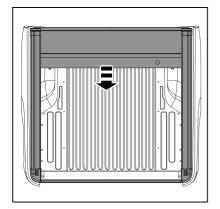


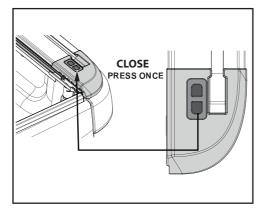




- 1. Press the "UNLOCK" button on the car remote.
- 2. Press the front button on the EGR RollTrac side rail as shown.

# **Electric Closing Procedure:**







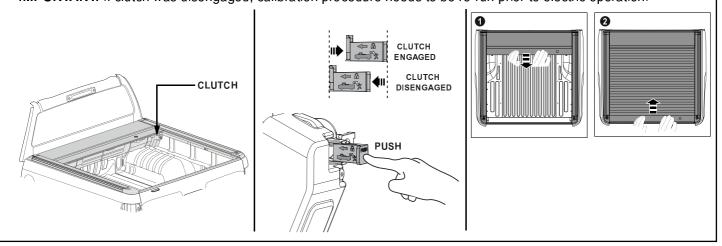
- 1. Press the rear button on the EGR RollTrac side rail as shown.
- 2. Press the "LOCK" button on the car remote.

NOTE: EGR RollTrac should open and close smoothly. If cover does not lock or open correctly, please refer to the trouble shooting section in the Owners Manual. If the EGR RollTrac closing is slow, clean the side rails and ensure that no dirt or debris is inside the drive rail.

## **Manual Opening and Closing Procedure:**

Locate the Clutch Disengagement Lever on the RH side of the cover and push the Clutch inward to disengage the motor. Pull the cover rearward or forward as required. Before driving vehicle ensure you re-engage the clutch.

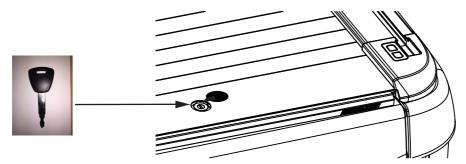
IMPORTANT: If clutch was disengaged, calibration procedure needs to be re-run prior to electric operation.



#### LOCKING PROCEDURE

# Manual locking / unlocking using key:

- 1. Ensure cover is fully closed.
- 2. Open the rubber cap covering the lock and using the provided key turn RIGHT to lock and LEFT to unlock the cover.
- 3. Check lock engagement by opening the tailgate, if lock does not engage recheck cover installation

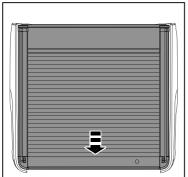


## **Electric locking / unlocking using key:**

- 1. Ensure cover is fully closed.
- 2. Lock or unlock the cover by using button on the key remote.
- 3. Check lock engagement by opening the tailgate, if lock does not engage recheck cover installation **NOTE:** If vehicle is locked, buttons are deactivated and cover will not open/close.

Lock latches will not activate until cover is in fully closed position.

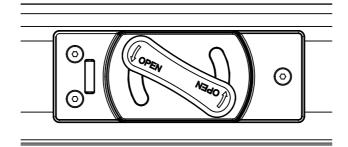
Ensure to return tailgate to fully closed position prior to lock/unlock.





# **Emergency Opening:**

- 1. The EGR RollTrac has an internal manual unlocking handle.
- 2. Test the operation by twisting the handle as indicated by the arrows and ensure latches move.



#### **FINAL NOTES:**

Dispose of all packaging and waste according to local regulations.

Retain your Owners Manual, Fitting Instructions and fitting jigs for future reference.

Refer to Owners Manual for operation, warranty, service and product care guidelines.

Complete the installation check list in Owners Manual and store keys safely.

Clean the EGR RollTrac using multi purpose cleaner to remove any residue from packaging and installation.