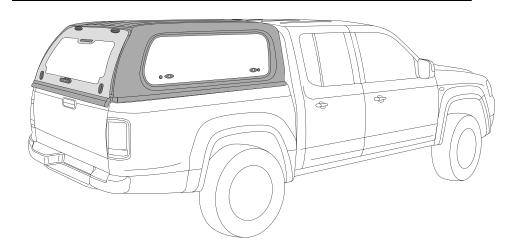
## CANOPY INSTALLATION INSTRUCTIONS

## **VOLKSWAGEN AMAROK Double Cab**



**Care Instructions:** 



Clean Canopy with a mild detergent and water solution.



Do not use abrasive cleaners or solvents.

Place these instructions in vehicle's glove box after installation is complete

#### **IMPORTANT!**

Read instructions carefully before installation.
 It is strongly recommended that installation is conducted by a Volkswagen dealer.

- This product must be installed exactly as specified in these instructions. Failure to do so may result in improper fit and/or retention.
- Recommend installation by 2 people. Where lifting is required 4 people are recommended.
- This Fitting Instruction where a Bed Liner is referred to, is based on the Volkswagen Genuine Under Rail Bed Liner Accessory only.



Electrical preparation:

Tub preparation:

Canopy installation:

Step 1 to 17,

Step 18 to 29,

Step 30 to 42,

Page 3 to 8

Page 9 to 13

Step 30 to 42,

Page 15 to 18

Latch striker adjustment:

Step 43 to 46,

Page 19 to 20



Light switch adjustment (If fitted): Step 48 to 49 Page 21
Owners manual supplement: -- Page 22

#### **RECOMMENDED TOOL LIST - (Not Supplied in Kit)**

- Loctite 243 thread locking liquid (IMPORTANT)
- Phillips Head Screwdriver
- Dehousing Tool (for VOLKSWAGEN Wiring Genuine)
- Medium Adjustable Spanner
- Side Cutters
- Sockets 10 & 13mm, Extension Bar and Driver
- Spanners 10 & 13mm
- Silicon Dispensing Gun
- Non Acetic Silicon (Neutral Cure)
- Spray Bottle (25% isopropyl Alcohol & 75% Water)
- Spray Bottle Water
- Torque Wrench 0-20Nm
- T30 Torx Drive Screwdriver
- Non Permanent Marker

- Masking Tape
- Cleaning Cloths / Rags
- Steel Rule and Tape Measure
- Scissors (Sharp)
- Knife (Sharp)
- Squeegee
- Metal Primer
- File or Deburring Tool
- Drill & Ø5mm Drill Bit
- Engineers Scribe
- Rivet Gun for Stainless Steel Rivets
- Electrical tape
- Light Gauge Plastic Coated Draw Wire

Page 1 of 22 25/08/14

#### PARTS CHECK SHEET

#### **VOLKSWAGEN AMAROK CANOPY**



#### **PARTS IN MAIN CARTON**



Canopy Qty - 1



Rail Extrusion Tub Stop (ALUM0043-7) Qty - 1



Lock Keys (Attached to Canopy Internal Rear Door Handle) Qty - 2



Fitting Kit Qty - 1



#### **PARTS IN FITTING KIT**



Kit - Rail Clamps (CNPY0007B) Qty - 6



Clear Abrasion Tape Roll 48mm Wide (TAPE0611-1) Qty - 1



Tape EPDM4300 5.5Mx20x6mm (TAPE0386) Qty - 1



Screw M6x30 Hex Head SS304 (SCRW0824) Qty - 4



M6 Flat Washer OD. 19mm (WASH0169) Qty - 8



M6 Nyloc Nut SS304 (NUTS0016) Qty - 4



Abrasion Resistant Clear Tape 50x30mm (TAPE0011) Qty - 6



Primer Stick (MISC1365) Qty - 3



Rivet SS304 ST-ST 6-6 (FAST0505) Qty - 4



104x35mm Label Sticker (LABL1441) Qty - 1



LH-Tub Sealing Block (TAPE0618-LH) Qty - 1



RH-Tub Sealing Block (TAPE0618-RH) Qty - 1



Alcohol Wipe (MISC0052) Qty - 8



Rust Inhibitor Sachet (MISC2776) Qty - 2



Vehicle Wiring Patch Harness Kit (LOOM0019) Qty - 1



Clear Anti-abrasion Tape Tub Corner Die Cut Right Hand (TAPE0627-RH) Qty - 1



Clear Anti-abrasion Tape Tub Corner Die Cut Left Hand (TAPE0627-LH) Qty - 1



Fitting Instruction (FIT-CP0031j) Qty - 1



#### PARTS IN VEHICLE WIRING PATCH HARNESS KIT (LOOM0019)



Vehicle Wiring Patch Harness (LOOM0019) Qty - 1



Cable Ties Short 200mm Qty - 30



Adhesive Tie Pad Qty - 1



Foam Tape Qty - 1



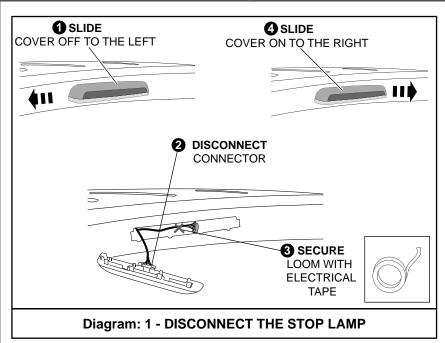
5 Amp Blade Fuse Qty - 1



2-Way Connector Qty - 1

Page 2 of 22 25/08/14

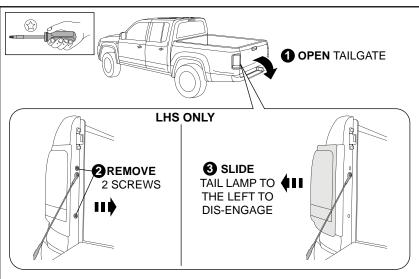
#### **ELECTRICAL PREPARATION**



Remove high mount stop lamp, by sliding the stop lamp from right to left to remove it.
Disconnect the connector and tape the loose loom back with electrical tape

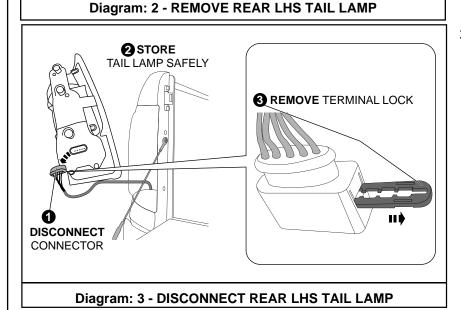
loose loom back with electrical tape (not supplied) so the loom does not rattle.

Re-fit the stop lamp by sliding it on left to right.



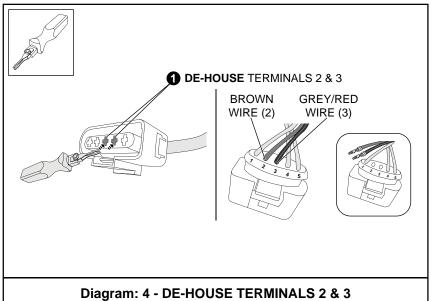
2. Open the tailgate. Remove and retain the two (2) screws from the left hand side as shown securing the left hand side tail lamp, using a T30 torx drive screwdriver.

Remove the tail lamp by sliding it to the left to dis-engage it from the ball fixings.

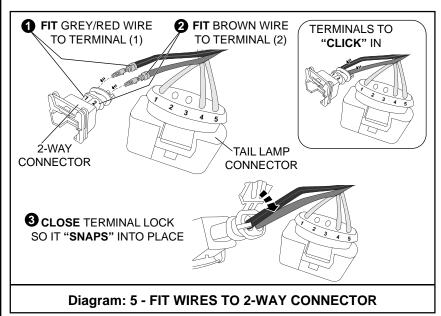


Disconnect the connector from the tail lamp, and store the left hand side tail lamp in a safe place to re-fit at a later stage. Remove the terminal lock from the tail lamp connector as shown.

Page 3 of 22 25/08/14



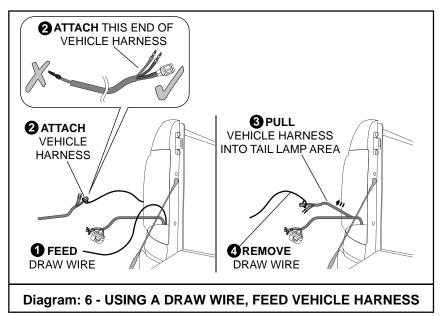
**4.** Using a VOLKSWAGEN genuine dehousing tool, remove the brown wire from terminal 2 and the grey/red wire from terminal 3.



**5.** Fit the previously removed wire terminals into the 2-way connector supplied in hardware kit.

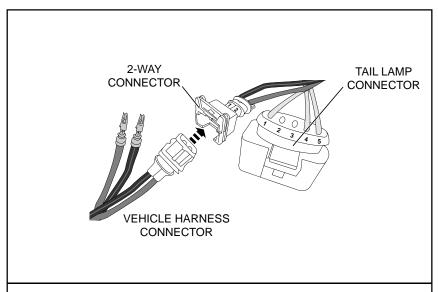
terminal 1 : grey/red wire terminal 2 : brown wire

Close Terminal lock so it snaps into place.



6. Feed a draw wire through the gap between the sheet metal surfaces. Under the vehicle attach the draw wire to the end of the vehicle harness with the black 2-pin connector and two (2) loose wires as shown.

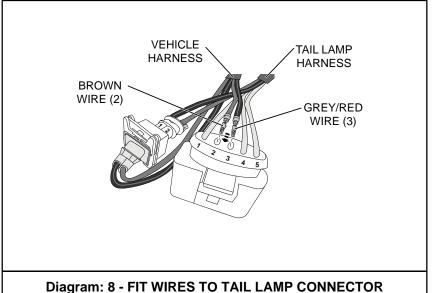
Page 4 of 22 25/08/14



7. Connect the vehicle harness connector to the 2-way connector as shown.

Ensure connectors 'CLICK' into place and can not be pulled apart.

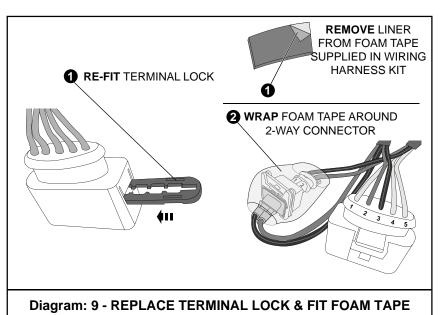




**8.** Fit the two (2) loose wires from the vehicle harness into the terminals on the tail lamp connector as shown.

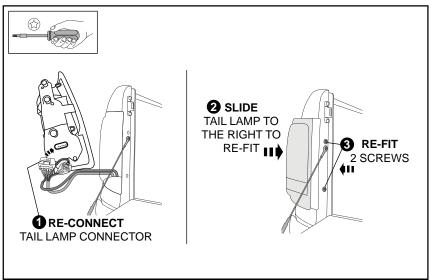
terminal 2 : brown wire terminal 3 : grey/red wire

Ensure connectors 'CLICK' into place and can not be pulled apart.



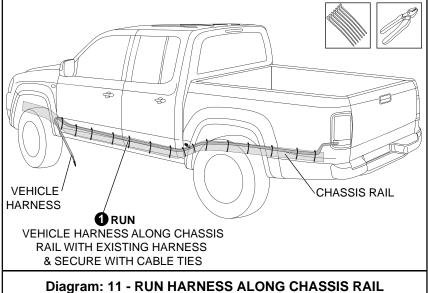
9. Re-fit the terminal lock into the tail lamp connector as shown.
Remove adhesive liner from the foam tape supplied and wrap it around the 2-way connector and vehicle harness connector as shown.

Page 5 of 22 25/08/14



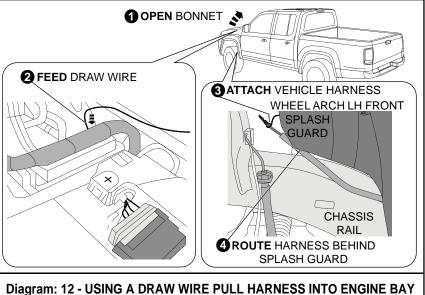
10. Re-connect tail lamp connector to tail lamp. Neatly position harnesses inside the recess for the tail lamp and re-fit tail lamp to the vehicle by locating it on the ball fixings and sliding the tail lamp to the right. Secure to the vehicle with the two (2) screws previously removed.





**11.** Run the vehicle harness along the chassis rail with existing wiring, up to the front left hand wheel arch as shown.

Fit cable ties to secure the vehicle harness to the existing harness every 300-400mm.



12. Open and secure the bonnet.

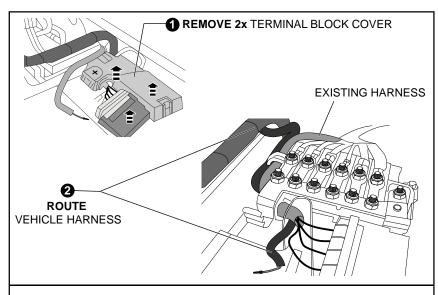
Feed a draw wire down through the engine bay in the rear left hand corner where the inner left hand front quarter panel meets the firewall as shown.

From inside the left hand front wheel arch, attach the end of the vehicle harness to the draw wire.

Ensure harness is positioned behind the splash guard inside the wheel arch as shown.

**IMPORTANT:** The wiring must be positioned against the firewall and avoid contact against any pipes or other wiring under tension of canopy vehicle wiring harness.

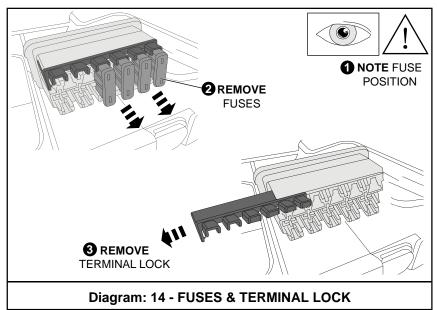
Page 6 of 22 25/08/14



**13.** Remove 2 x terminal block covers using a flat blade screwdriver.

Route the vehicle harness along side the existing harness under the battery terminal block cover to the terminal block as shown.

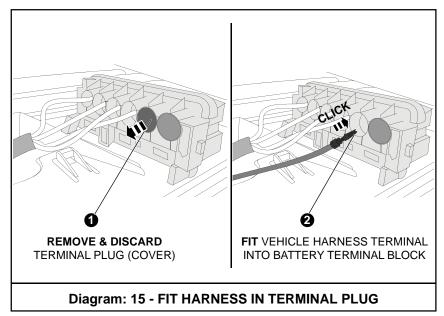




14. IMPORTANT: Note the positions of the fuses.

Remove fuses and store in a safe place to re-fit at a later stage.

Remove the terminal lock from the battery terminal block as shown.

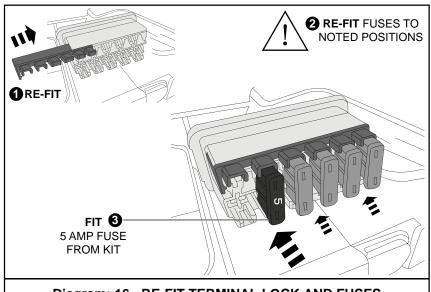


**15.** Using the sharp end of an engineers scribe, remove and discard the terminal plug (cover) from the battery terminal block.

Fit the vehicle harness terminal into the battery terminal block as shown.

When fitted correctly a 'CLICK' can be felt and heard.

Page 7 of 22 25/08/14

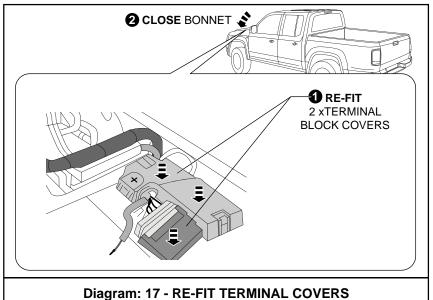


16. Re-fit the terminal lock.

Re-fit the fuses to previously noted positions.

Fit the 5 amp fuse from the hardware kit.

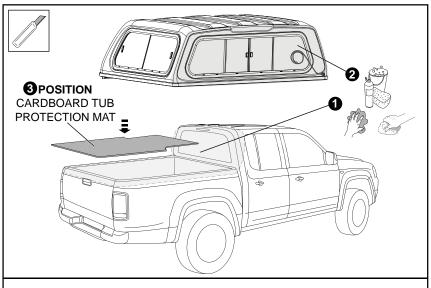




**17.** Re-fit the terminal covers. Close the bonnet.

Page 8 of 22 25/08/14

#### **TUB PREPARATION**

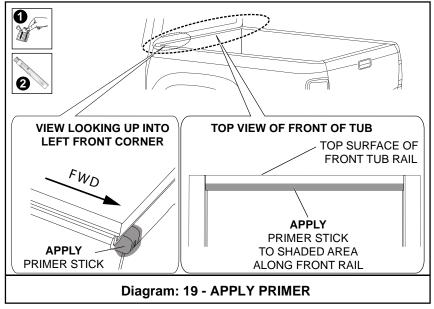


**18.** Thoroughly clean and dry installation areas (tub, rear of cabin and glass) as shown.

Clean front of canopy including the front window

Using cardboard cut from the canopy carton, cut and place a piece inside the tub on the floor as a protection mat while installing the canopy.

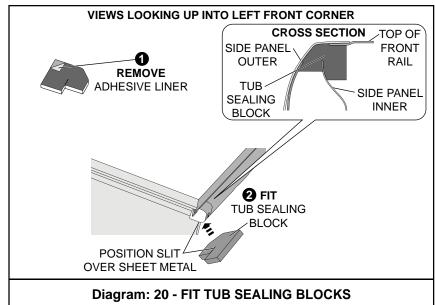
Diagram: 18 - CLEAN & DRY INSTALLATION AREAS



- 19. Using alcohol wipe provided clean
  - The front inside corners of the tub
  - The top surface of front rail

Wipe away residue with a dry clean cloth.

Apply (MISC1365) primer stick to this areas as shown and allow to dry.

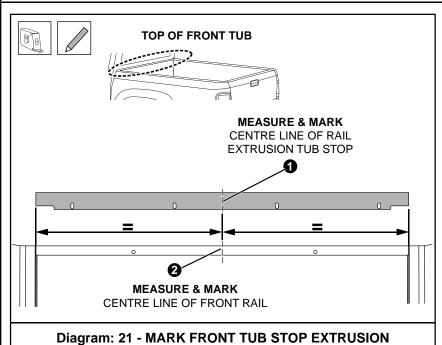


20. Remove adhesive liner from the left hand tub sealing block. Feed through the opening allowing the split to sit over the sheetmetal inner skin panel and firmly press into place as shown.

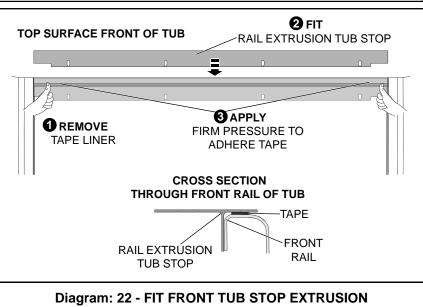
Ensure the perimeter of the tub sealing block makes contact with tub internal surfaces. Repeat process for the other side of the vehicle using the right hand tub sealing block.

IMPORTANT: This step must be done properly to ensure the vehicle tub is water sealed.

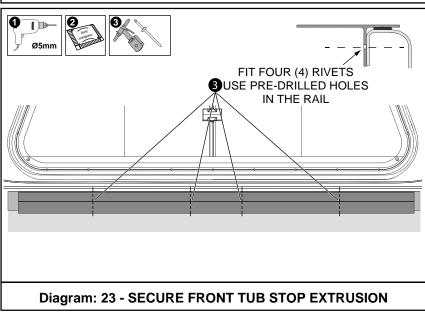
Page 9 of 22 25/08/14



21. Using a non permanent marker, measure and mark a line at the centre of the rail extrusion tub stop (ALUM0043-7) and the centre of the front rail on the tub as shown.

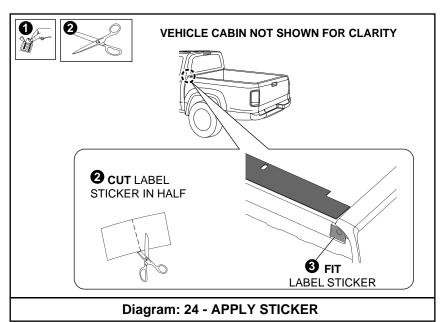


22. Remove the liner film from the double sided tape applied to the rail extrusion tub stop. Fit rail extrusion tub stop (ALUM0043-7) to the front rail over the tape aligning the previously marked centre lines.



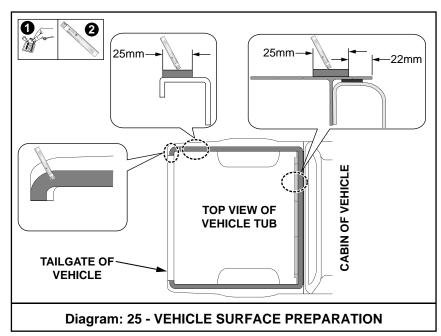
23. Drill through the four (4) existing Ø5mm holes in the front tub stop rail, through the vehicle front sheetmetal tub. Apply rust inhibitor to all drilled holes in the tub sheet metal. Rivet in position with four (4) rivets, that must secure to flat form on tub.

Page 10 of 22 25/08/14

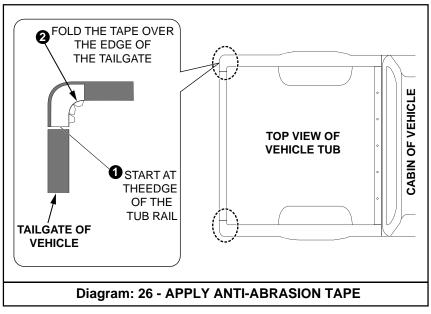


**24.** Using alcohol wipe provided, clean the front rail of the tub around the hole and wipe away residue with a dry clean cloth. Cut black label sticker (LABL1441) in half as shown.

Remove adhesive liner from label sticker and adhere to the front tub rail to cover the hole in the front of the tub as shown.

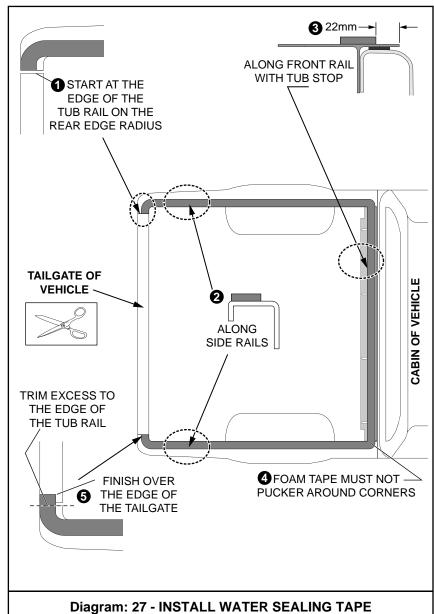


**25.** Using alcohol wipes provided clean all top rail areas of the tub and wipe away residue with a dry clean cloth.
Using primer stick (MISC1365) prime top rails of the tub as shown.



26. Ensure top of the tub rear corner is clean. Clean with isopropyl alcohol. Spray rear corners of top of the tub rails using a spray bottle and a mixture of 25% isopropyl alcohol and 75% water (not supplied). On the left hand side of the tub corner, position clear anti-abrasion tape die cut (TAPE0627-LH) and remove backing paper from tape. Fold the tape v-cut sections over the edge of the tailgate. Use squeegee to push out any excess water solution and bubbles. Wipe away and dry with clean cloth. Repeat for the right hand side.

Page 11 of 22 25/08/14

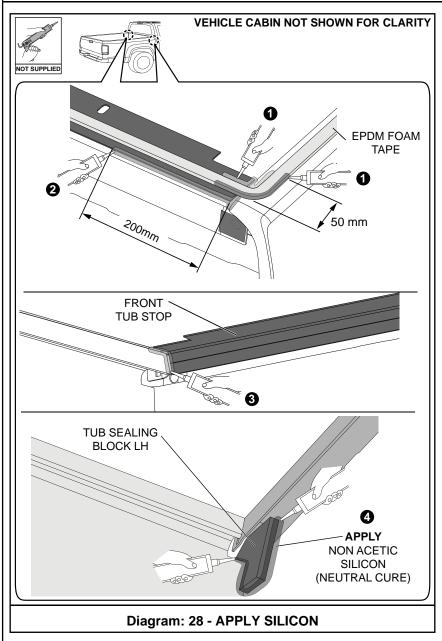


**27.** Apply EPDM foam tape (TAPE0386) from hardware kit to the vehicle tub bed rails and rail extrusion tub stop.

IMPORTANT: DO NOT CUT FOAM TAPE, IT MUST BE APPLIED IN ONE CONTINUOUS LENGTH!

Starting from one side at the rear corner. As the tape bends around the corners ensure the tape sits flat and DOES NOT pucker. Trim off excess to the edge of the tub rail as shown.

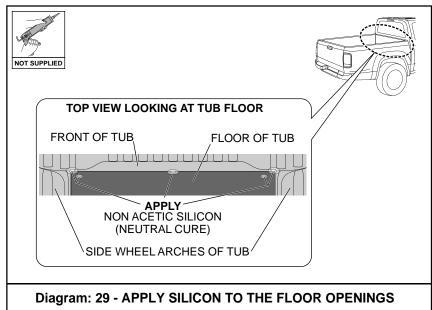
Page 12 of 22 25/08/14



- 28. With a clean cloth wipe down all areas of the internal front tub corners to be siliconed as shown. Spray areas to be siliconed with water, Do Not dry. Apply non-acetic silicon (neutral cure) (not supplied) to:
  - 1/ Along front and back of the EPDM foam tape as shown
    2/ Along front tub stop rail (200mm)
    3/ Side edge of the front tub stop
    4/ Around tub sealing blocks

Re-spray silicon with water and push silicon into gaps and clean up excess silicon. Repeat process for the other side of the vehicle.

IMPORTANT: This step must be done properly to ensure the vehicle tub is water sealed.



29. (Recommended) Apply silicon to all openings in the tub floor as shown. This step must be done properly to ensure the vehicle tub is water sealed.

Page 13 of 22 25/08/14

#### **CANOPY INSTALLATION**

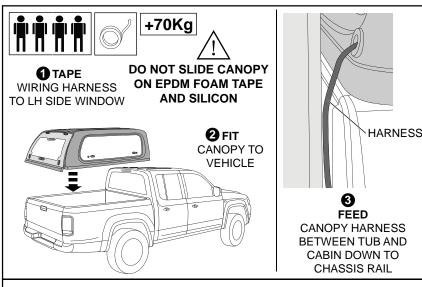
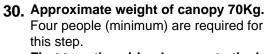


Diagram: 30 - FIT CANOPY TO TUB

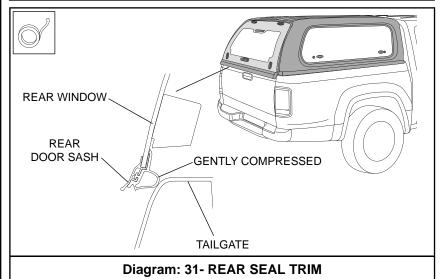


First tape the wiring harness to the left hand side window with masking tape. Position the canopy onto the vehicle tub carefully.

IMPORTANT: Ensure canopy is placed fully forward on the tub in one action. DO NOT slide the canopy on the EPDM foam tape and silicon, as this can damage the foam tape and spread the silicon (break the water seal).

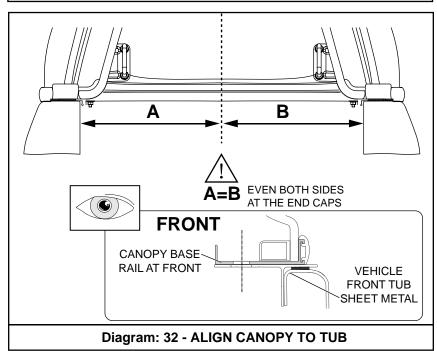
Remove masking tape and feed canopy harness down between tub and cabin (right hand side of vehicle) so it is accessible under the vehicle on the outside of the chassis rail.

**31.** Check the seal trim on rear door sash is slightly compressed all along the tailgate. Move canopy if necessary.

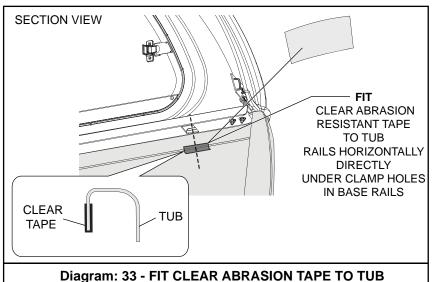


**32.** Check sideways alignment.

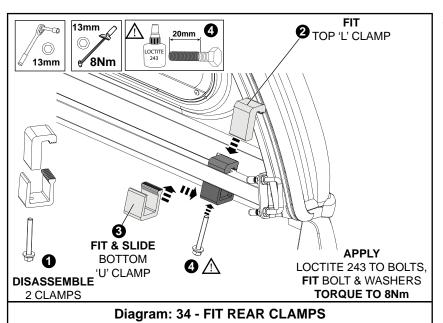
At the front of the canopy, make sure the canopy holes aligned with the stop rail holes.



Page 14 of 22 25/08/14



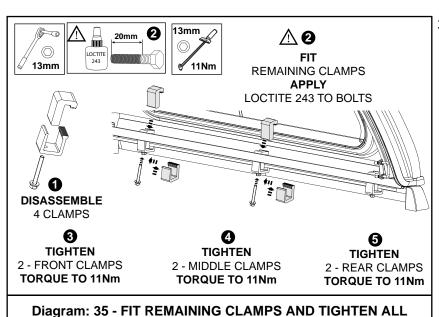
**33.** Fit six (6) abrasion resistant clear tape 50x30mm pieces (TAPE0011), to the vehicle tub rails directly under the square holes in the canopy base rails for the clamps as shown.



**34.** Fit two clamps (CNPY0007) to the rear holes in the canopy base rails both sides by fitting the top L clamp down through the hole in the rail and sliding the lower U clamp along the side rail over the clear abrasion tape.



Apply Loctite 243 to a minimum of 20mm along thread of the bolts. Torque to 8Nm.



**35.** Fit the four remaining clamps.

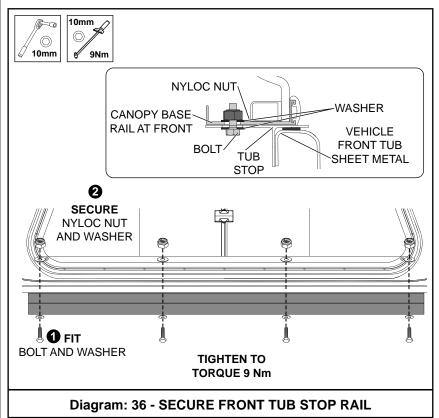


NOTE: Re-tighten the front clamps first, middle clamps second and the rear clamp towards the door, third to torque 11Nm.

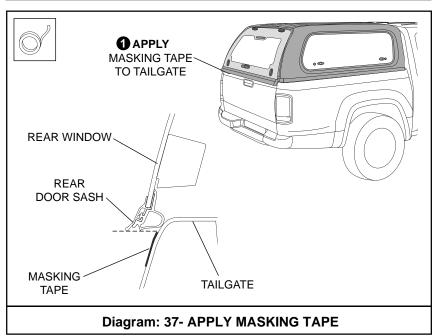


Apply Loctite 243 to a minimum of 20mm along thread of the bolts. Torque to 8Nm.

Page 15 of 22 25/08/14

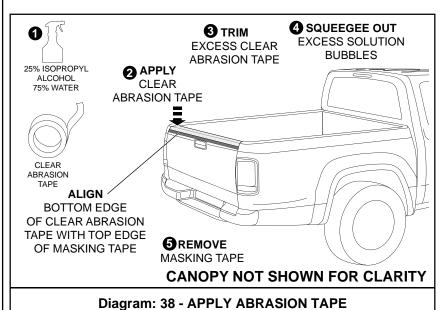


**36.** Secure the front of the canopy to the previously installed front rail tub stop extrusion (ALUM0043-7) with four (4) M6 hex head bolts, eight (8) flat washers and four (4) nyloc nuts as shown. Tighten to **Torque 9Nm.** 



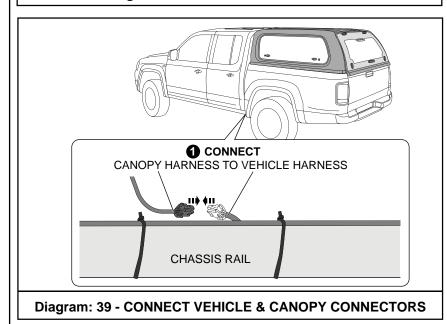
**37.** With the canopy rear door closed, apply a length of masking tape to the rear tailgate, level with the bottom edge of the canopy rear door sash, when viewed from the rear horizontal position as shown. This will assist in positioning the clear abrasion tape applied to the top of the tailgate in the next step.

Page 16 of 22 25/08/14

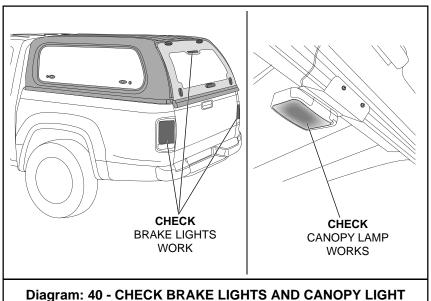


38. Using a solution of 22% isopropyl alcohol and 75% water in a spray bottle (not - supplied) Thoroughly spray along the top of the tailgate. Remove liner from clear abrasion tape. Working from one end with a 5mm overhang, place liner on the tailgate. Trim excess tape leaving a 5mm overhang at both ends of the tailgate. When in position use a squeegee to push out any excess water solution and bubbles. Using a sharp knife trim tape to end of tailgate.

You may need to squeegee a few times. When finished the tape is virtually invisible.

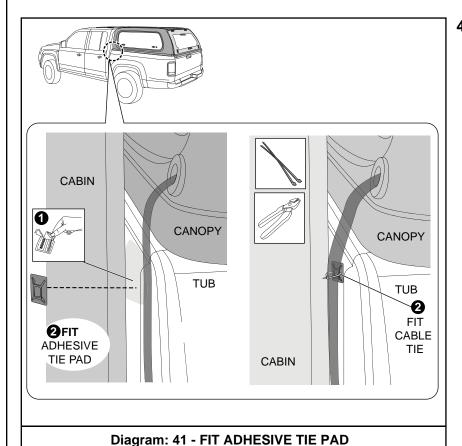


39. Feed the canopy harness along the chassis rail to the vehicle harness connector, and connect them together. IMPORTANT: Wiring harnesses should be positioned away from the exhaust system side.



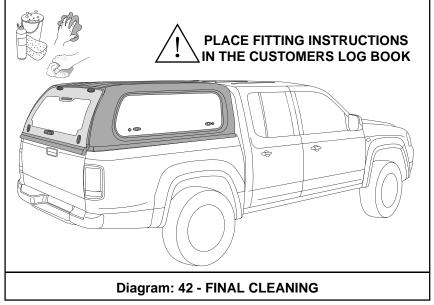
**40.** Two people are required to check the canopy brake light is operational after depressing the brake pedal. Then open the rear window and check that the internal canopy lamp is operating correctly when switched to the 'ON' position only.

Page 17 of 22 25/08/14



41. Using alcohol wipe provided in the kit, clean the left hand side top corner of the front tub rail as shown, and wipe away residue with a dry clean cloth. Remove tape liner from adhesive tie pad and position on the tub in area previously cleaned as shown. Apply pressure to ensure maximum adhesion.

Fit a cable tie through the adhesive tie pad previously fitted to the front of the tub and secure the canopy wiring harness as shown. Trim excess tie with side cutters.

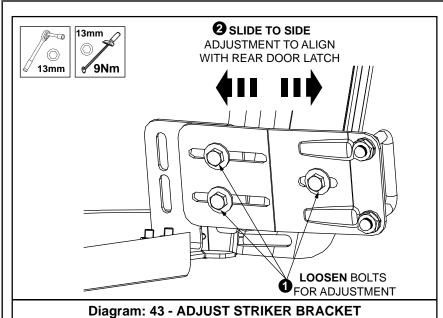


**42.** Clean canopy including all windows and vehicle thoroughly .

Place fitting instructions in the Customers log book, and ensure the owners manual supplement is discussed with the customer and a copy is given to the customer.

Page 18 of 22 25/08/14

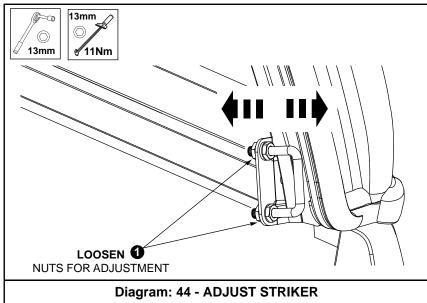
## **LATCH STRIKER ADJUSTMENT**



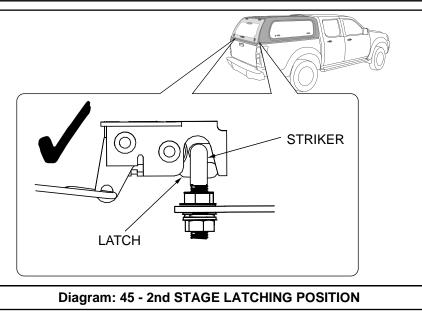
**43.** Ensure rear door latch engages onto the striker hoop. Striker hoop cross-car direction can be adjusted by loosing 3 x M6 bolts and sliding striker bracket. Re-tighten bolts to 9Nm.



IMPORTANT: The latch system is a two stage system. Ensure that the rear door latches engage to the second stage when the rear door is closed.



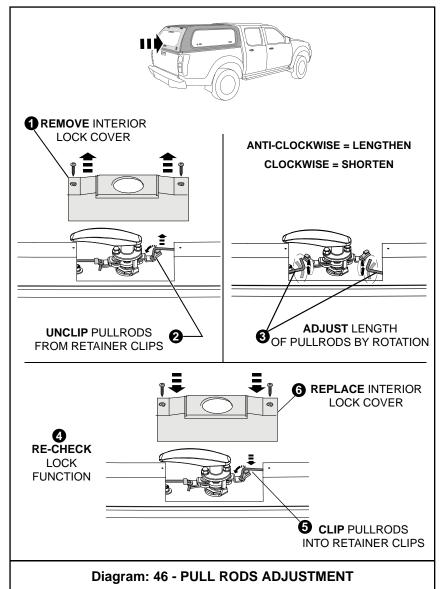
**44.** Door position forward / rearward can be adjusted by loosing 4 x M8 nuts on the threaded striker hoop. Readjust position as required. Re-tighten to 11Nm.



**45.** Ensure latch reaches 2nd stage position, as shown.

Page 19 of 22 25/08/14

## **LATCH STRIKER ADJUSTMENT**



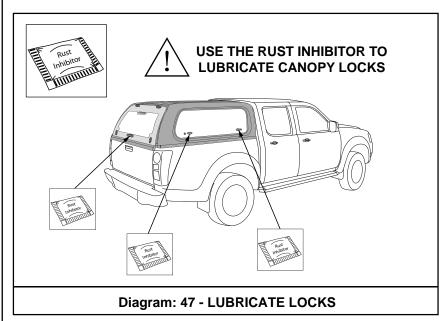
**46.** Check rear door handle operation:

This can be checked with the door open, manually depress latches and activate handle. Handle should activate latches at 2/3 of handle travel simultaneously for LHS and RHS.

If required, adjust pull rods as shown: Spinning clockwise - shorten. Spinning anticlockwise - lengthen.

NOTE: If required latch position on the rear door can be adjusted side to side by removing latch cover and loosening 2 x M8 nuts holding latch in position.

Re-tighting to 8Nm.



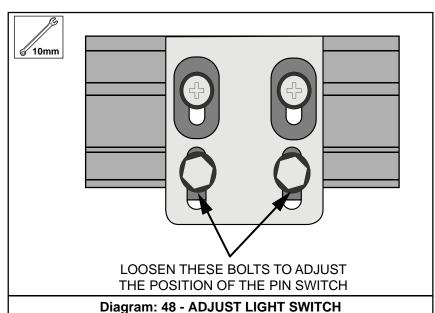
47.



To avoid locks from seizing, apply the rust inhibitor provided to all canopy locks on a regular basis.

Page 20 of 22 25/08/14

#### **INTERIOR LIGHT SWITCH ADJUSTMENT (IF FITTED)**

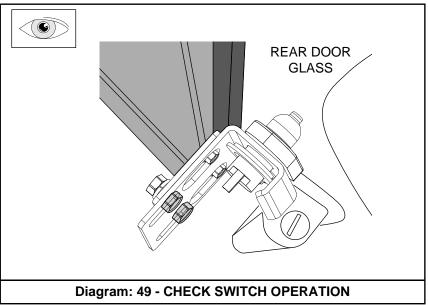


**48.** Note the slotted holes in the lower bracket. These holes are used to position the pin switch against the inside surface of the rear door.

At first position the bolts so they are central in the bracket slots and test by turning the interior light switch to 'door' position and close the door.

If the light goes out the switch is positioned correctly. If the light does not go out you can adjust the position of the brackets by loosening the M6 bolts.

Once you are happy with the position tighten the bolts to **Torque 5Nm**.



**49. NOTE:** this picture of the door closed against the pin switch. You can see this by looking through the side windows of your canopy.

If at any stage the light does not go out when you close the rear door, and the interior light switch is in the 'door' position, you will need to adjust it by once again loosening the M6 bolts and getting the position right before re-tightening the bolts to Torque 5Nm. Check how tight the screws are regularly and make sure you take notice if the interior light does not go out when you close the rear door.

**IMPORTANT:** Adjustment must be made to ensure correct operation, to avoid flattening the vehicle's battery.



**END** 

Page 21 of 22 25/08/14



# OWNERS MANUAL SUPPLEMENT IMPORTANT: PLACE THIS PAGE IN THE CUSTOMER'S VEHICLE SERVICE BOOK.



#### **VOLKSWAGEN Amarok MY10 Onwards**

CANOPY

## **KEY IDENTIFICATION CODE**





Please write the key identification code in the boxes above, and retain this copy with the vehicle service history. Replacement keys can be purchased from your local dealer.

#### **WARNING! - SAFETY!**

- Do Not use the canopy as a passenger compartment.
- Do Not operate/drive vehicle with fold up windows or rear door open. They must be closed when vehicle is in motion.
- Do Not store or transport volatile materials, such as solvents, chemicals or liquids as fumes may accumulate inside canopy. Do Not allow solvents, chemicals or oils to come in contact with the canopy. If this should occur clean the canopy immediately with a mild detergent and water solution.
- Do not stand/sit or rest heavy objects on Canopy.
- Do not fill volatile liquid containers while inside canopy such as fuel cans.
- VEHICLES FITTED WITH A BED LINER: Static electricity can cause fire when fuel is pumped into ungrounded fuel containers or equipment (eg: motorcycles, chainsaws etc..). Do Not fill fuel containers or equipment within the vehicle tray as static electricity can cause fuel to ignite, resulting in damage, injury or death. To avoid electricity build-up, place fuel container or equipment on the ground before filling.

#### **Maintenance**

Only use mild detergents or wax polish. Do Not use abrasive compounds on painted or plastic finished canopy surfaces.

The gas struts are self lubricating and should only be cleaned with a damp cloth, when regularly cleaning the vehicle. Premature seal failure will result if solvents or lubricants are used to clean struts.

Gas struts must be orientated as installed, cylinder (wide end) to canopy and rod (narrow end) to glass.

Lightly coat the door and window rubber assemblies with a silicon spray after cleaning periodically.

Only locks and lock recesses are to be lubricated with Graphite Powder.

Vaseline may be used on the rotary catches on the rear door.

DO NOT use any other lubricants or oils. Using alternative products will VOID Warranty.

Check canopy attachment clamps every 1000 Km.

Clamp bolt recommended torque setting is (9 Nm or 6.64 lb/ft).

If removed, bolts must have **LOCTITE** 243 re-applied and be re-tightened on refitting to specified values.

CHECK regularly that all screws and fasteners holding windows and doors are tight.

The rear tailgate protection tape must be replaced periodically to minimize paint scuffing caused by the canopy rear door opening and closing.

For sliding windows use a silicon based Non-Aerosol lubricant or a dry film lubricant or LY70 lubricant or 3M window channel dresser lubricant sparingly.

 $\Delta$  DO NOT use CRC, WD40 or petroleum based lubricants on sliding windows.  $\Delta$ 

To avoid locks from seizing, apply the rust inhibitor provided to all canopy locks on a regular basis.

#### **Exclusions**

This warranty does not cover failure due to neglect, improper installation, including any modifications to installation hardware, alterations, addition of non genuine equipment, abuse, accident, normal wear and tear, lack of maintenance, misuse, and exposure to chemicals that are not safe for plastics or hardware components.

Incidental or consequential damage or loss of contents due to use, neglect, lack of maintenance, misuse of EGR Canopy is sole responsibility of the vehicle owner and operator. Paint wear to the vehicle bed can happen with any Canopy and is the sole responsibility of the vehicle owner. Paint damage to your vehicle is not covered under this warranty.

Page 22 of 22 25/08/14