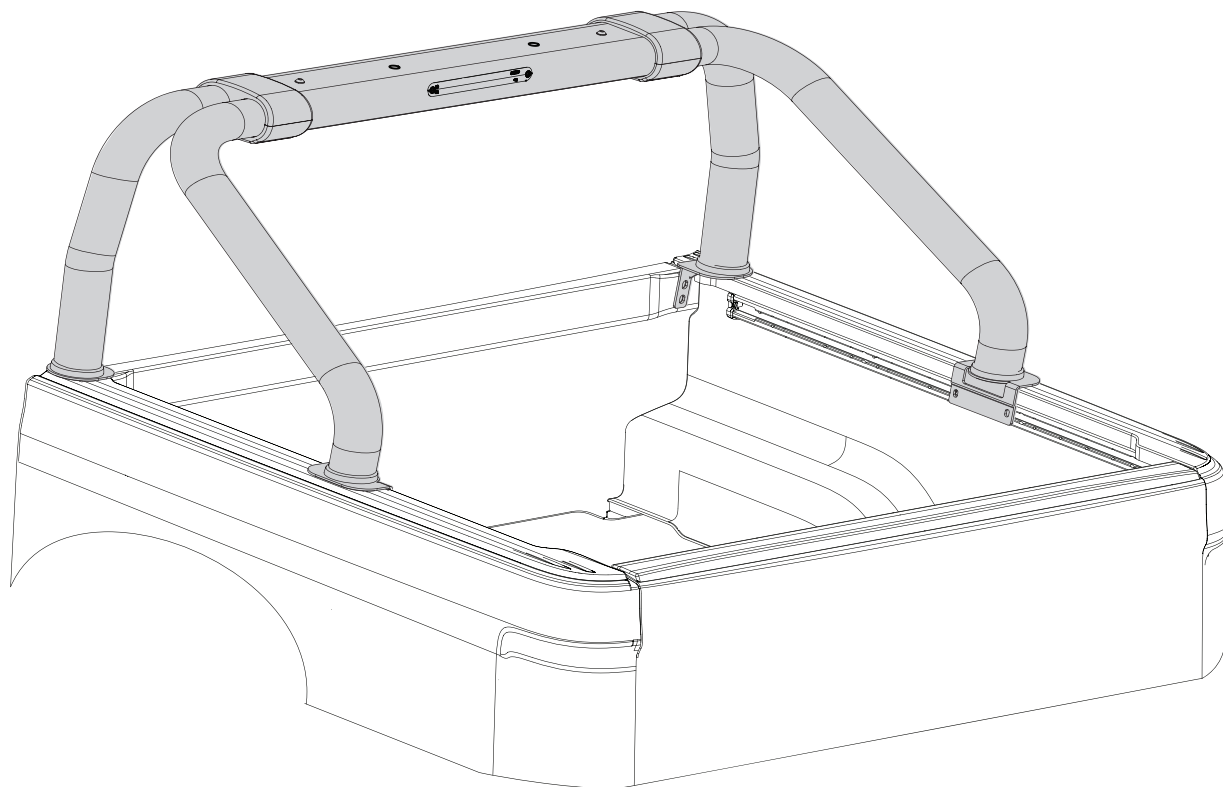




FRD 150

EGR Sports Bar

Installation Instructions



Installation Time: Approx. 60 mins

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

General Notes

- Read through the fitting instructions before installation of accessory.
- 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.
- Please check content of kit using this list and subsequent sketches.
- 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.



Care Instructions:

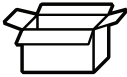


Clean with mild detergent and water solution.

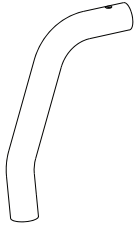


Do not use abrasive cleaners or solvents.

PARTS LIST

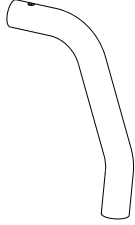


1



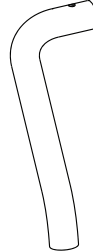
Front Leg Left
Qty - 1

2



Front Leg Right
Qty - 1

3



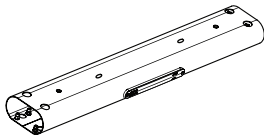
Rear Leg Left
Qty - 1

4



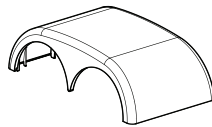
Rear Leg Right
Qty - 1

5



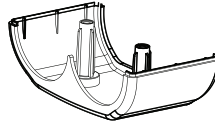
Central Pipe W/ LED Light x1
Qty - 1

6



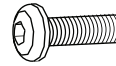
Plastic Cover Upper
Qty - 2

7



Plastic Cover Lower
Qty - 2

8



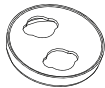
M8 x 30mm Pan
Head Screw
Qty - 14

9



M8 Internal Lock Washer
Qty - 8

10



Left Rear Footcup
Qty - 1

11



Left Front Footcup
Qty - 1

12



Right Rear Footcup
Qty - 1

13



Right Front Footcup
Qty - 1

14



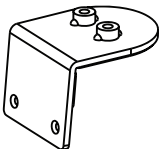
M8 x 16 Flat Washer
Qty - 4

15



Spacer Plate W/ Foam
46x32mm
Qty - 2

16



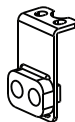
Rear Base Plate
Qty - 2

17



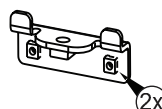
Front Foot Plate
Qty - 2

18



Front Tube Attachment Bkt
Qty - 2

19



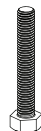
Rear Clamp Bkt
Qty - 4

20



M5 x 90 Pan Head
Screw
Qty - 4

21



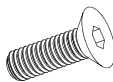
M10 x 65 Hex Head
Bolt
Qty - 2

22



Screw Cap
Qty - 2

23



M8 x 30 Foot
Counter Sink Screw
Qty - 8

24



M6 x 16 Rear
Bracket Screw
Qty - 4

25



M8 x 20 Foot
Screw
Qty - 4

26



M8 x 40 Front
Tub Screw
Qty - 2

27



Stop Lamp
Loom Plug
Qty - 2

28



M50 Square
Nut
Qty - 2

29



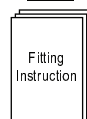
Extension Loom
Qty - 2

30



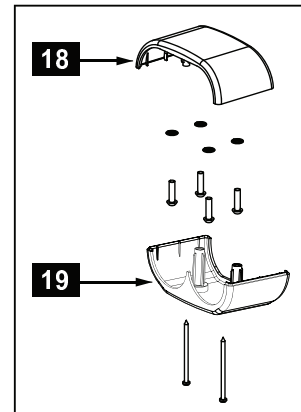
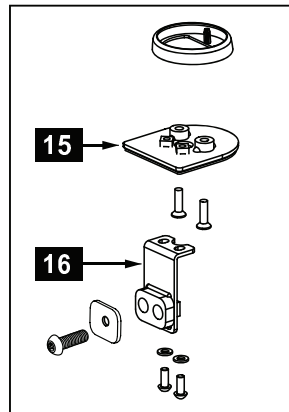
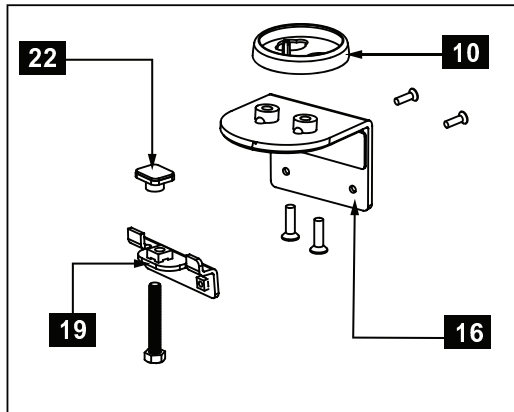
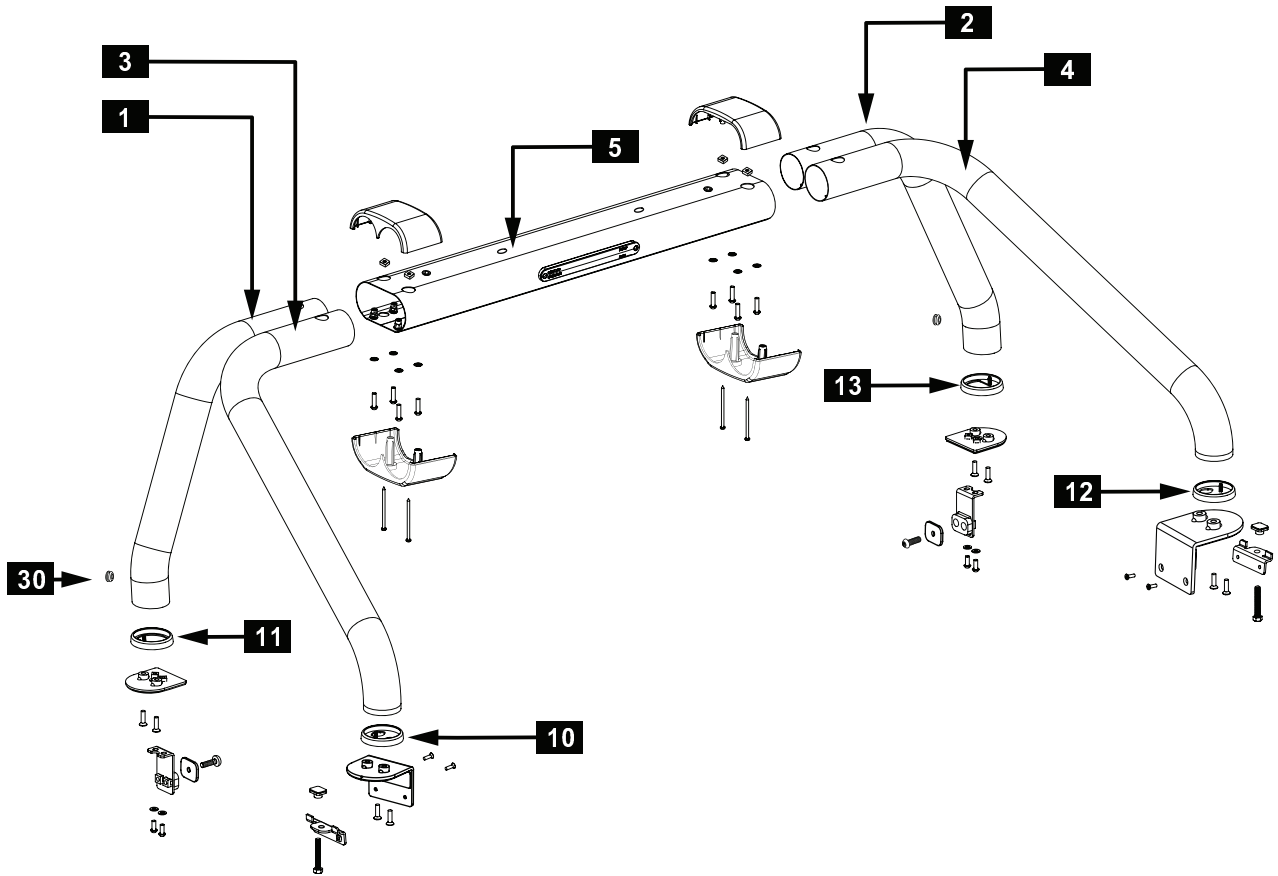
Grommet
Qty - 2

31

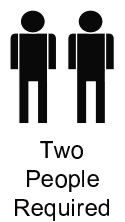
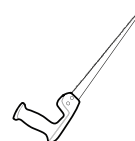
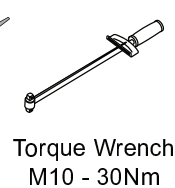
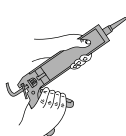
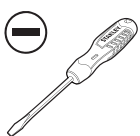
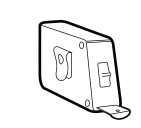
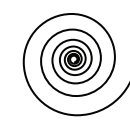
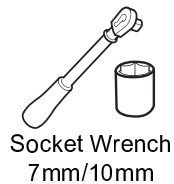
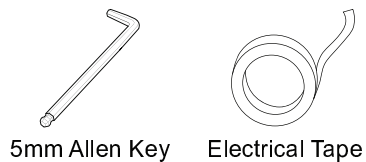


Fitting Instructions
Qty - 1

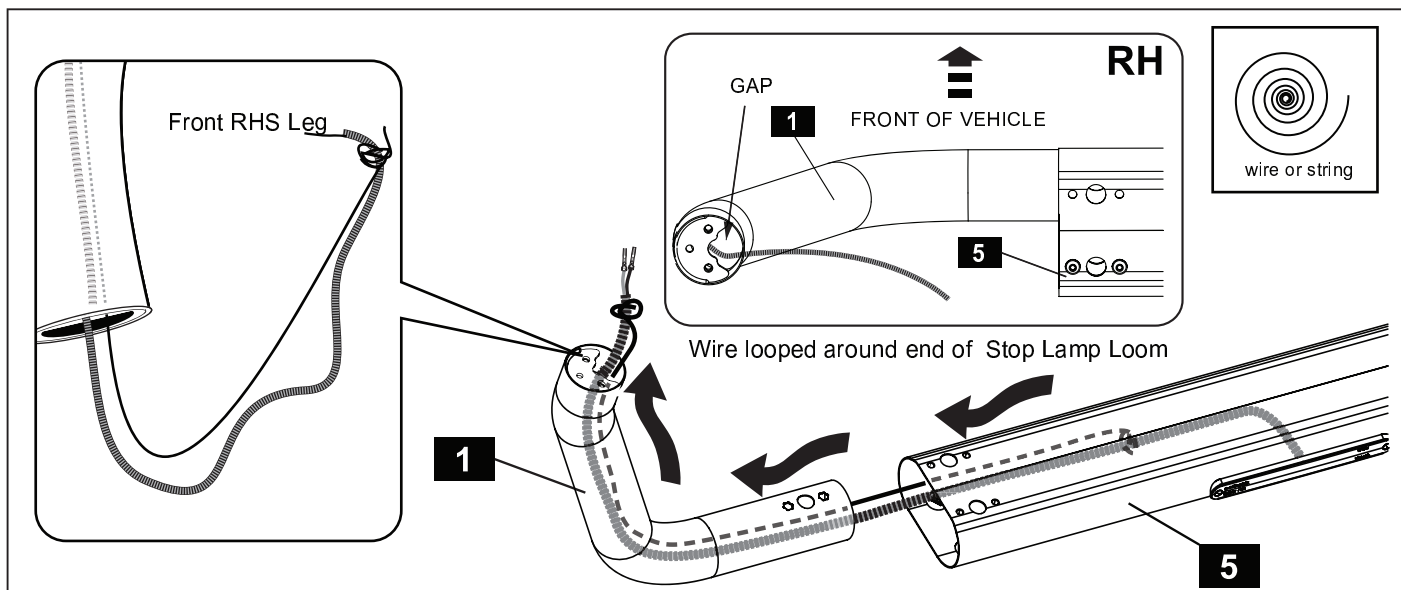
EXPLODED DRAWING AND REQUIRED TOOLS



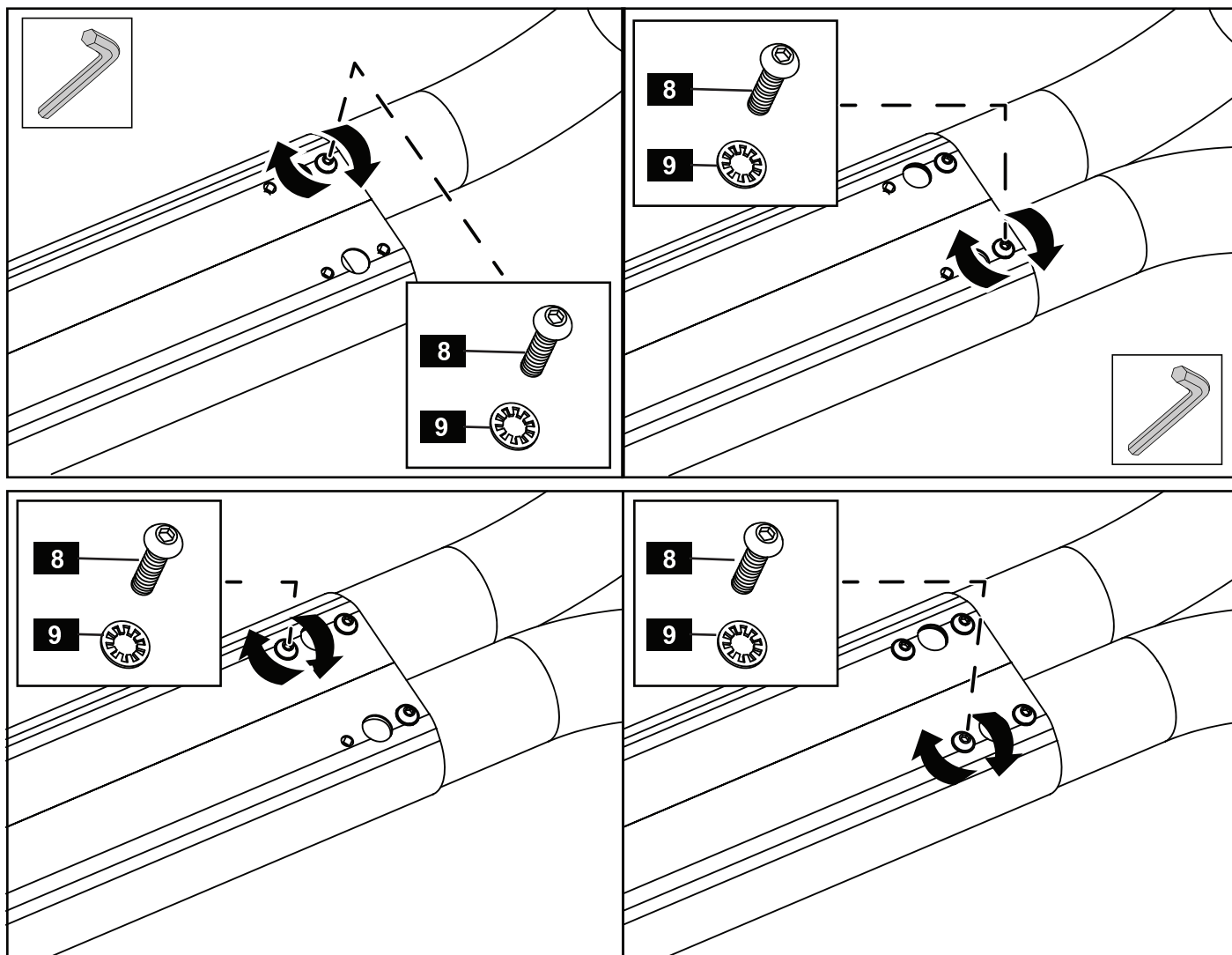
TOOLS REQUIRED



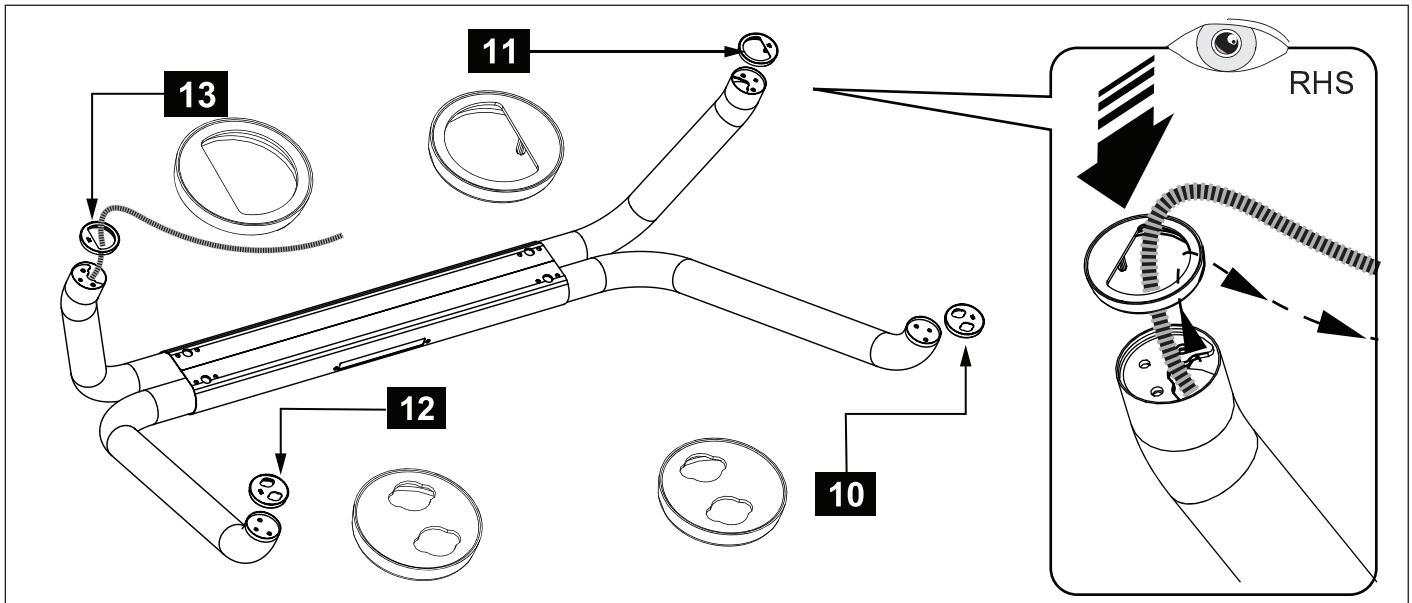
INSTALLATION INSTRUCTIONS



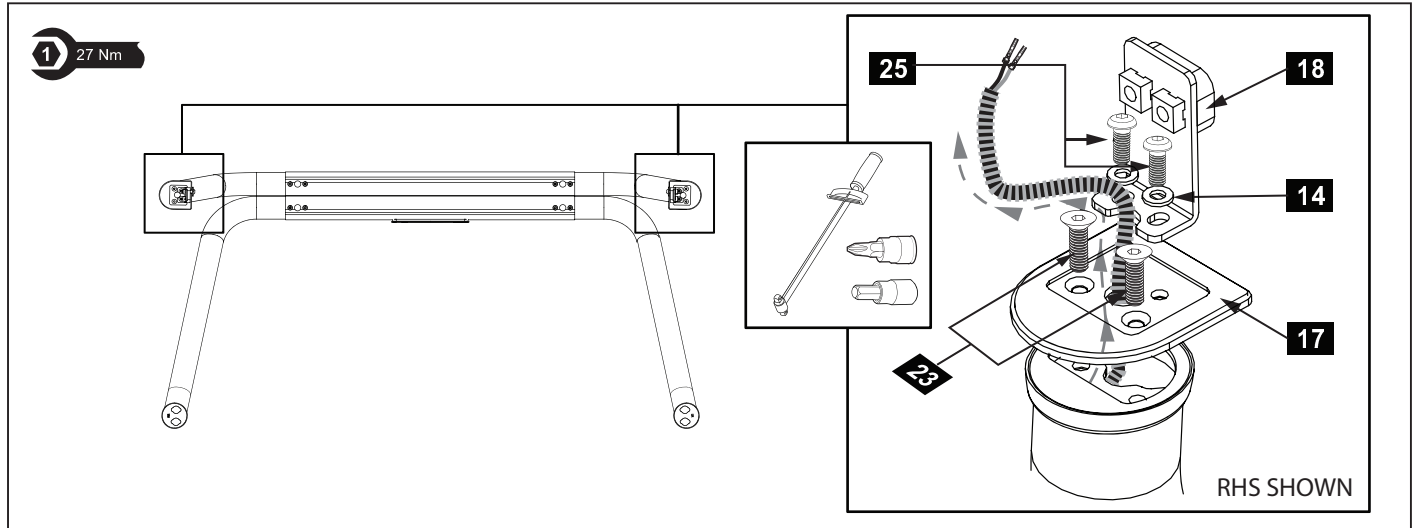
1. Place the center piece on a soft surface so that the side with six holes per side is facing up (underside of the part).



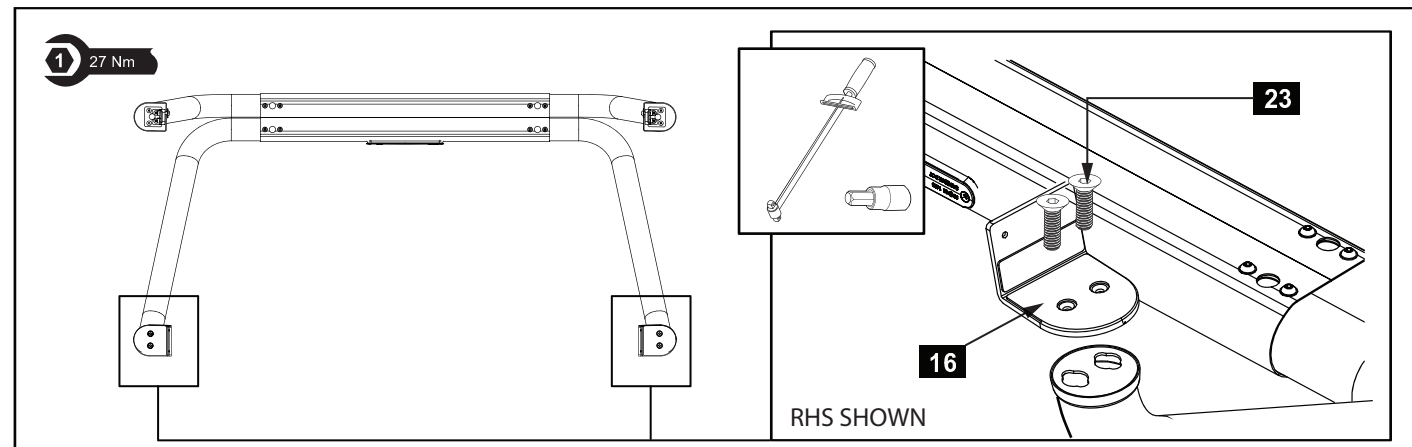
2. Insert RH Front Leg into centre section | Loosely tighten M8x30mm screw with M8 Internal Lock Washer.
Repeat for RH Rear Leg
Repeat RH Legs process for LH Legs.
NOTE: Install remaining 2 x M8x30 Screws and M8 Internal Lock Washer at each side. DO NOT FULLY TIGHTEN.



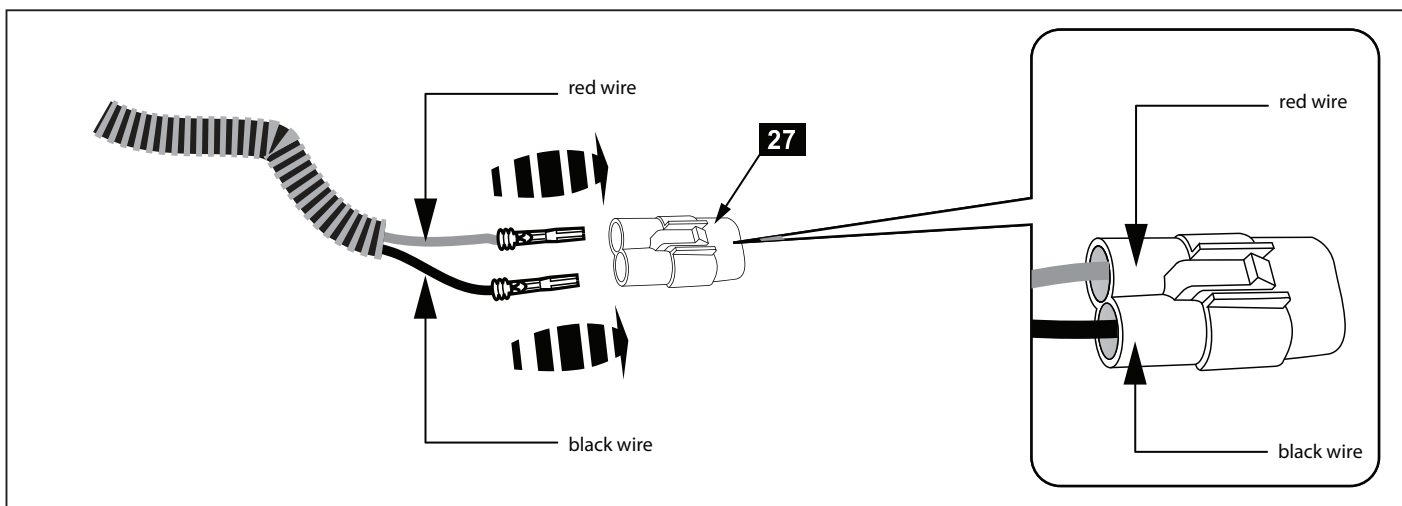
3. Push the rubber Foot Cups onto the respective foot ends of each tube.
Take care on the front RHS foot that the stop lamp wiring is pushed through the rubber foot cup hole.



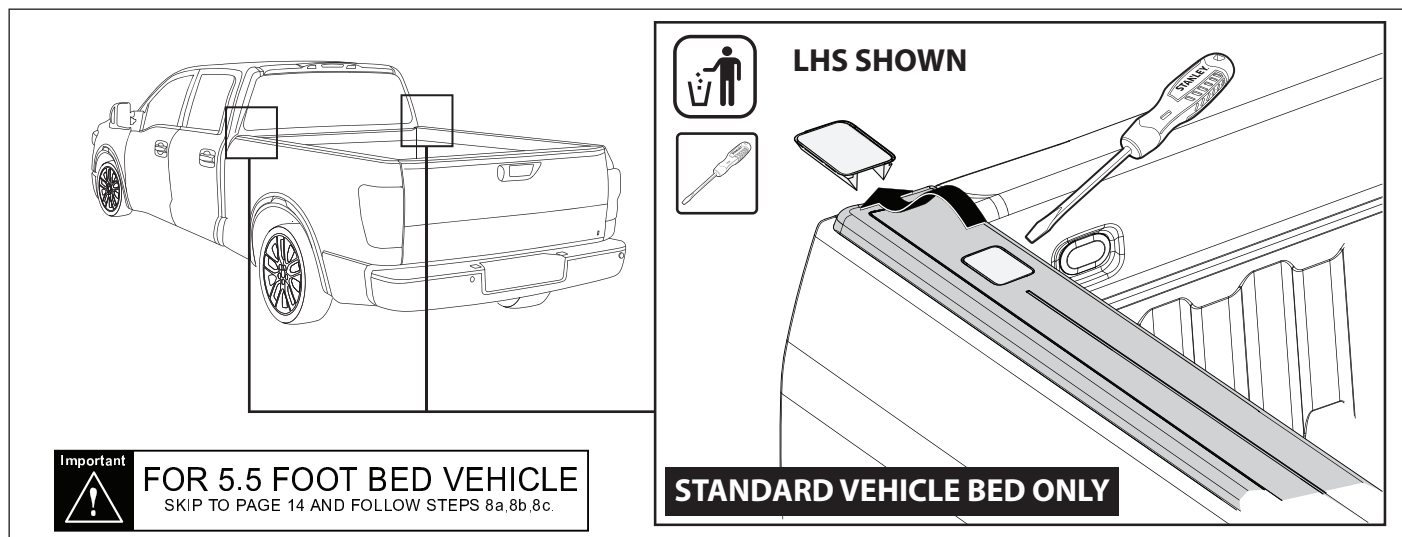
4. Attach the front foot plate to the foot end over the foot cup. Align the holes and secure (27Nm) using the two M8x30 Counter Sink screws. Attach the front tube attachment bracket, align holes and secure (27Nm) using two M8 Foot Screws and two washers. For the RHS foot carefully thread the stop lamp wiring through the hole in the footplate and notch in the bracket as shown.



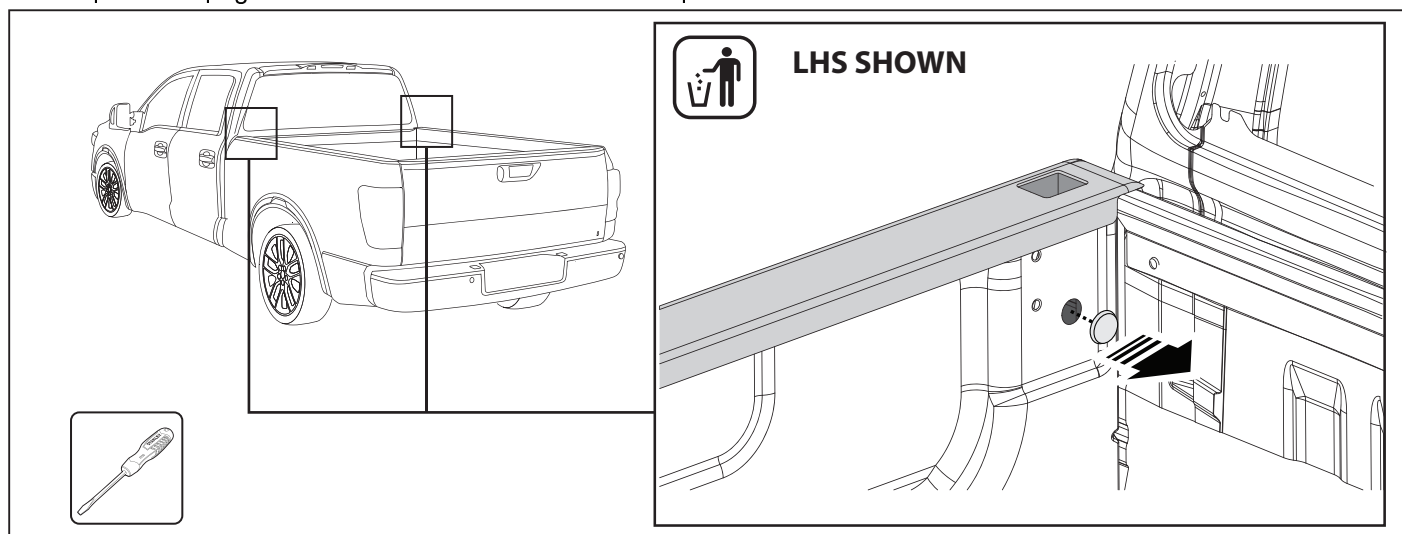
5. Attach the rear foot plate to the rear feet over the foot cups. Align the holes and secure using the two M8x30 screws. Torque to 27Nm.



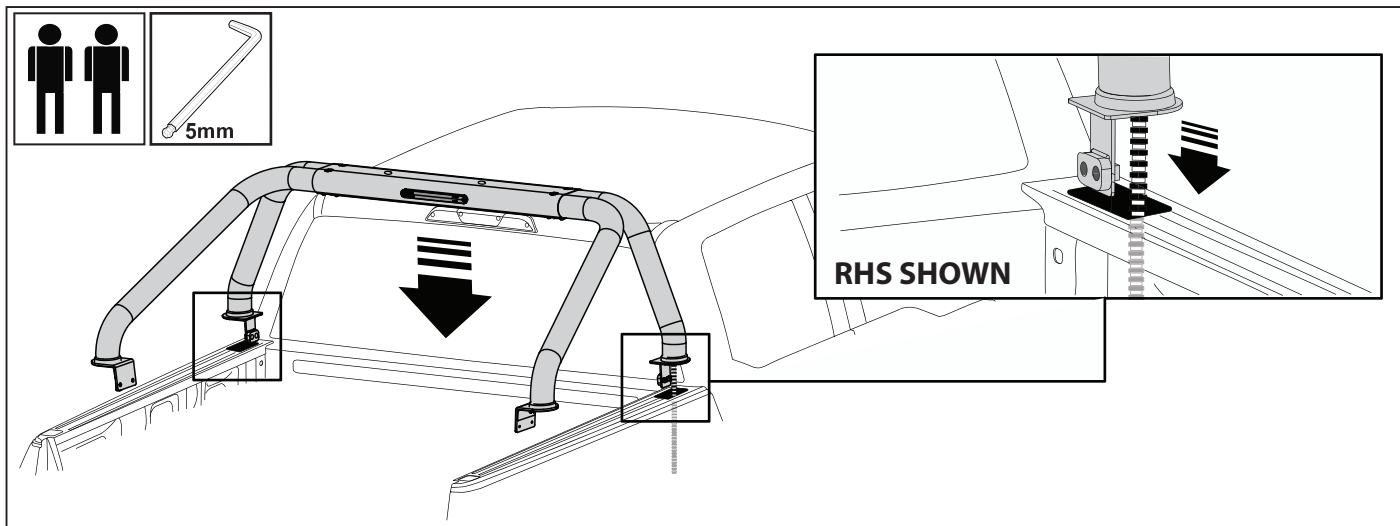
6. Remove the stop Lamp Loom Plug from fitting kit.
Push the red and black wires from the Stop Lamp Wiring Loom into the Stop Lamp Loom Plug.



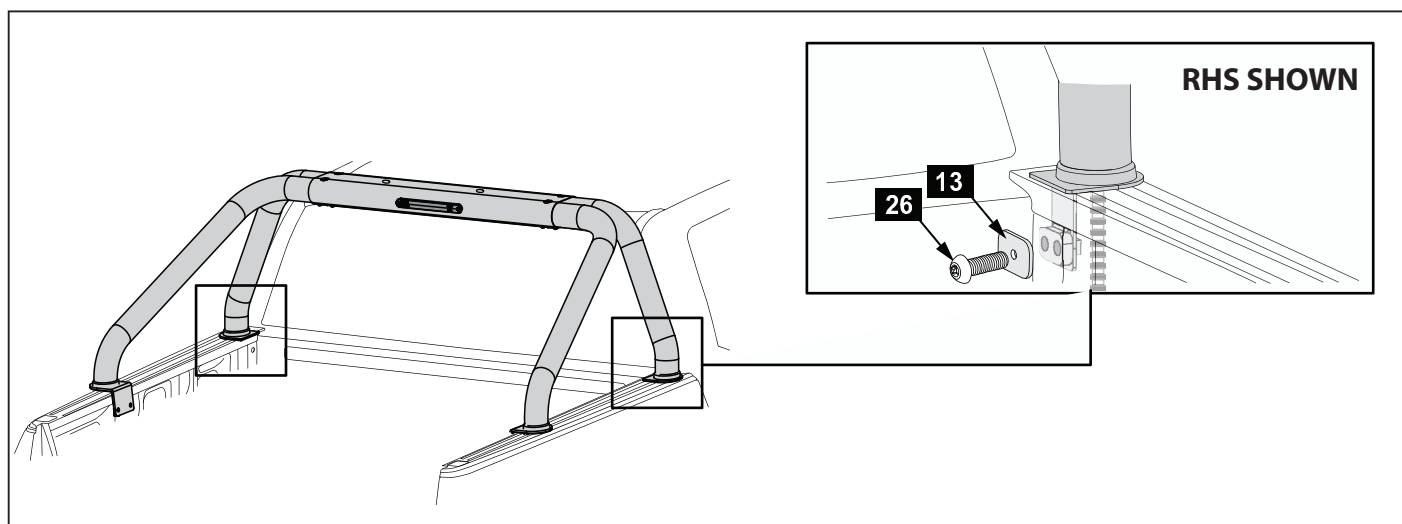
7. Using a flat head screwdriver carefully pop out the plastic insert at the front of the LHS and RHS bed rail caps to open the clearance hole for the front feet of the Sports Bar.
For a 5.5 foot bed skip to page 14 and follow steps 8a, 8b and 8c and use the supplied templates on page 15 and 16 to cut a slot in bed rail cap.



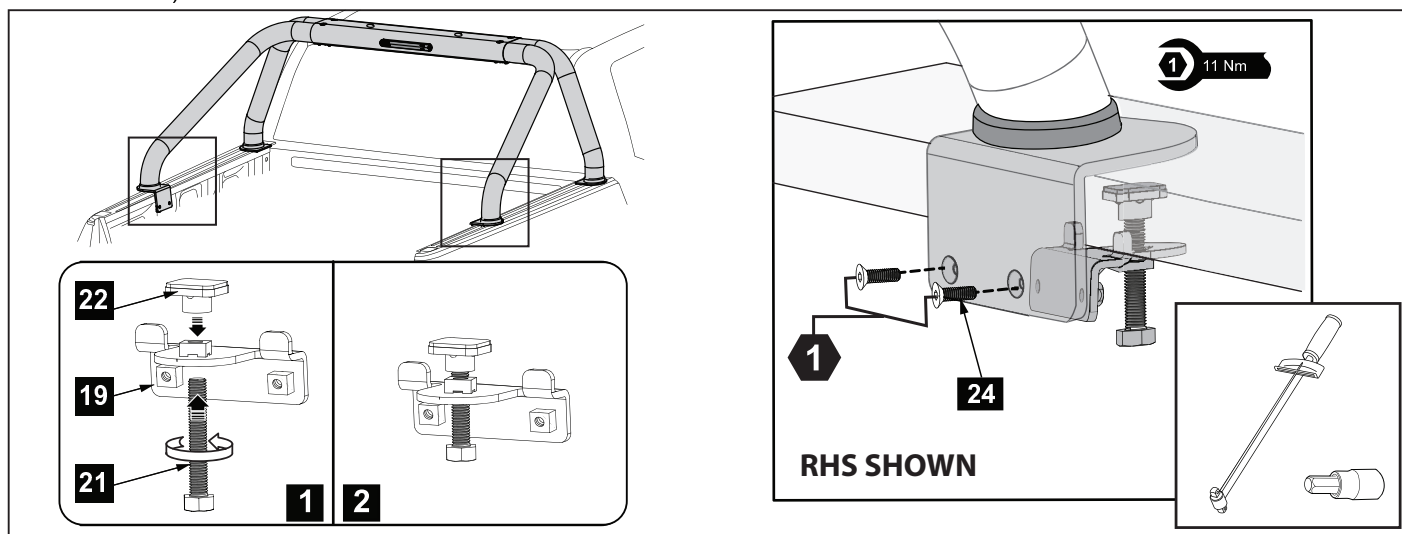
8. Remove and discard the LHS and RHS plastic side plugs from the Tub. If a drop in bedliner is present, remove now.



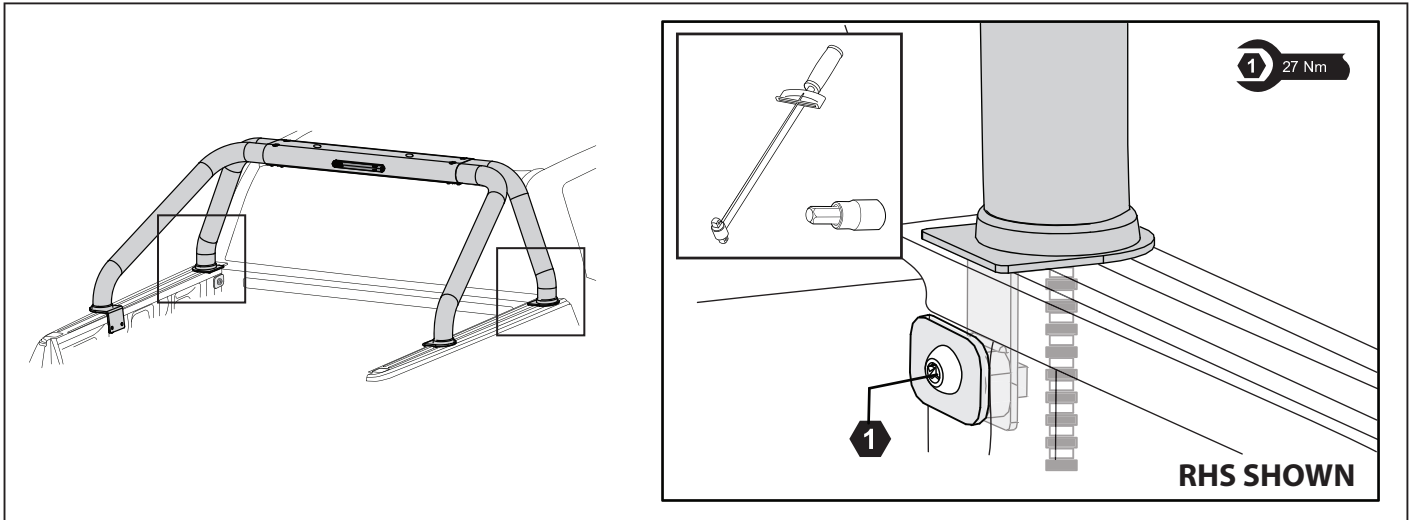
9. Using two people carefully lift the sports bar into position above the tub and on the RHS insert the LED cable through the hole in the bed rail cap as per shown in detail view. Slowly follow by lowering the sports bar front foot through the bed rail hole and lower the sports bar assembly onto the tub of the vehicle.



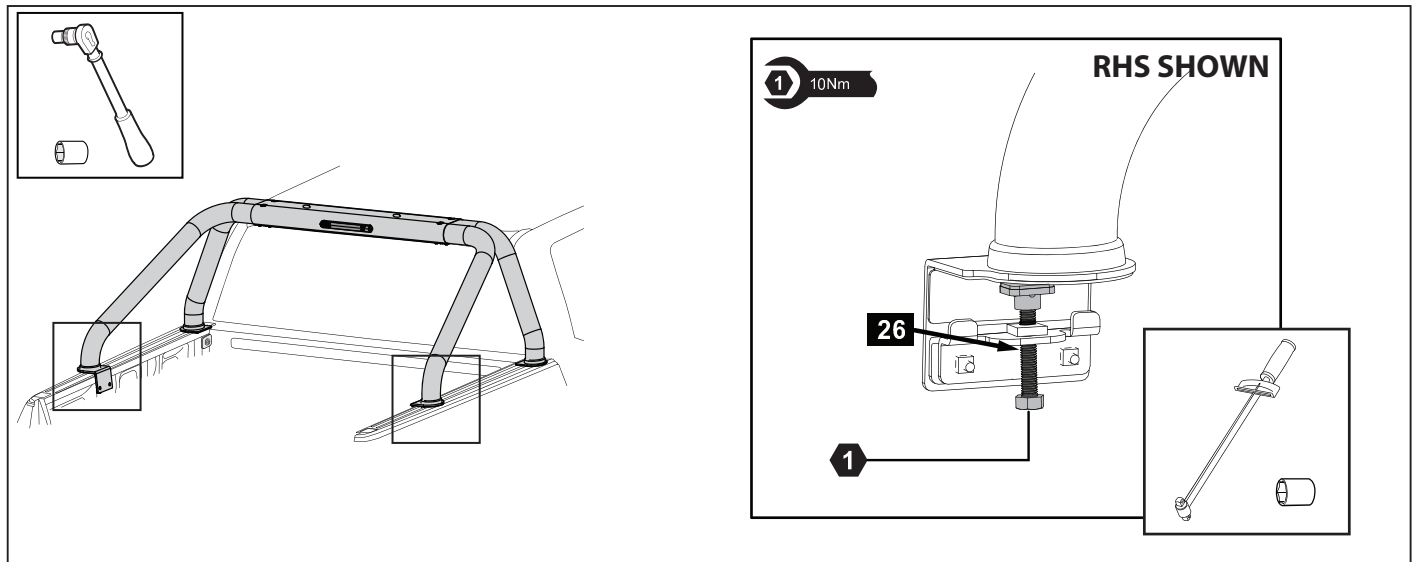
10. Loosely Secure the front foot to the tub using Screw and Washer Plate. Do not fully tighten. Repeat for the opposite side. If using a Drop in Bedliner fully torque the front clamps as per Step 14 then reinstall the Bedliner (ONLY if using a Drop in Bedliner).



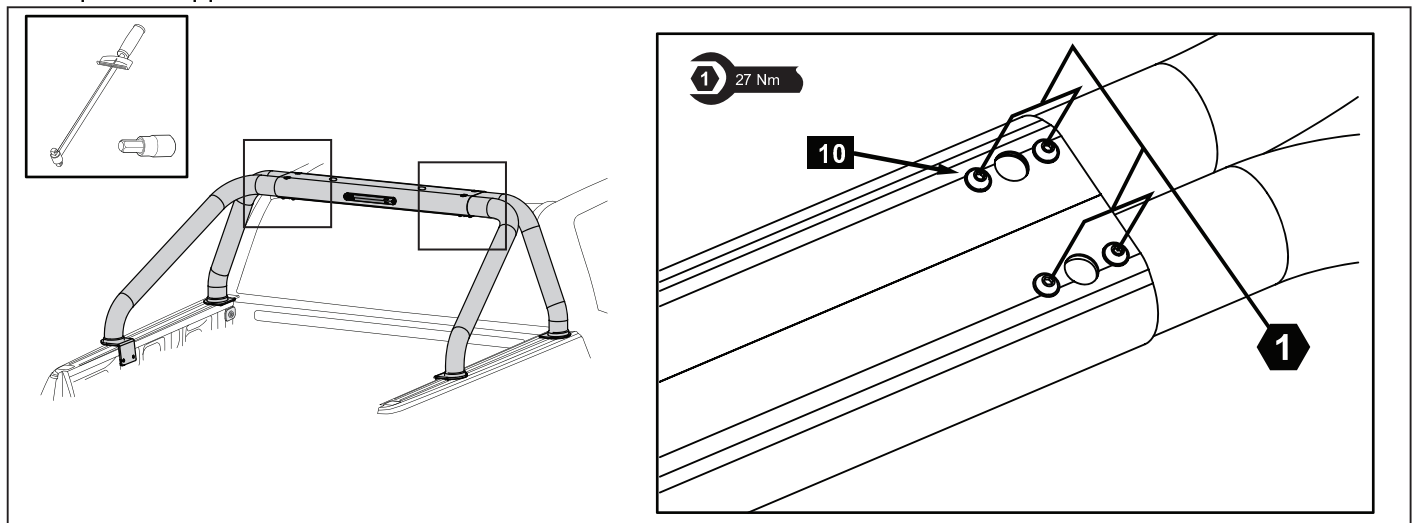
11. Assemble the rear foot clamp plates by screwing the Hex head bolts into the clamp body and attach the Screw Cap. Position the assembly on the inside of the tub and attach the Clamp Plate assembly to the Rear foot of the sportsbar using screws. Repeat for the opposite side. Tighten the screws to 11Nm using a Torque Wrench.



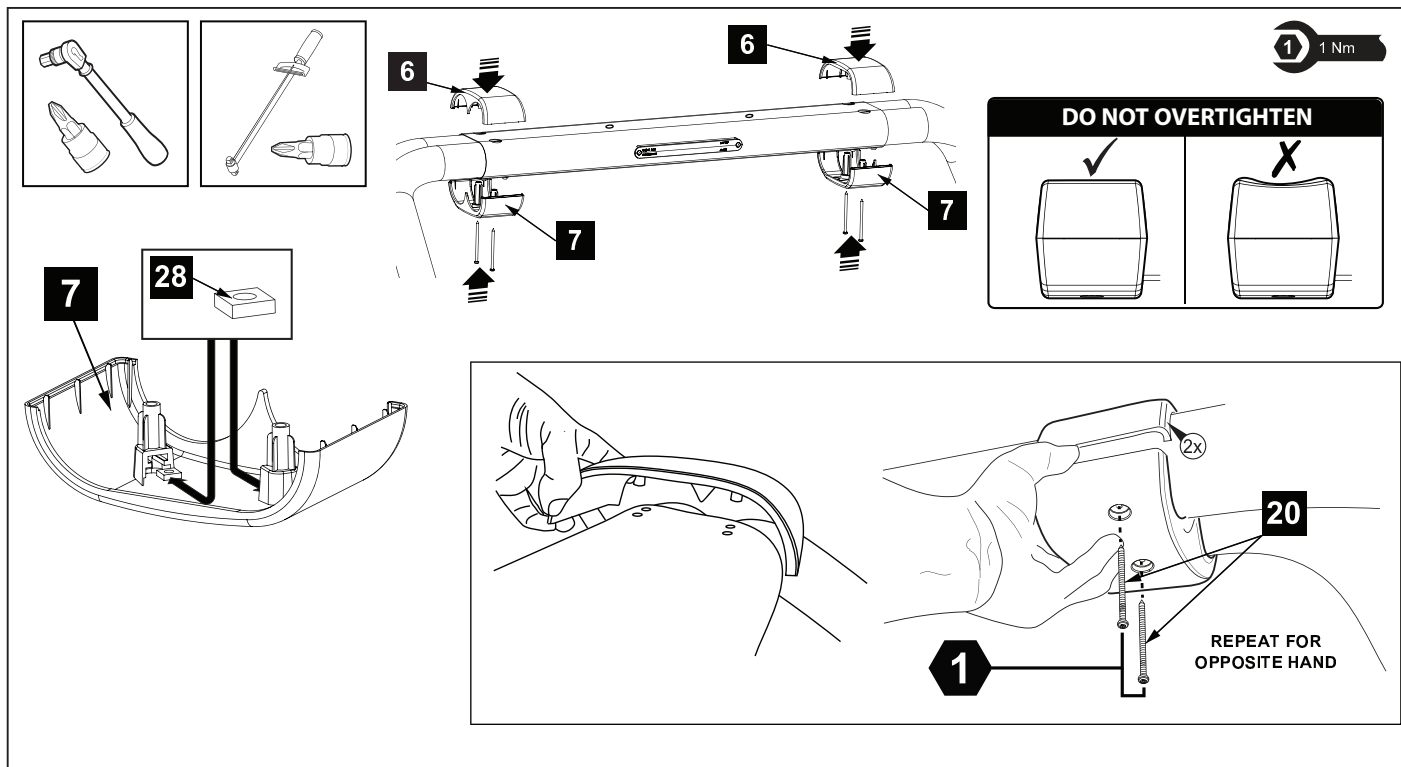
12. Tighten front screws (26) to a torque of 27Nm.
Repeat for opposite side.



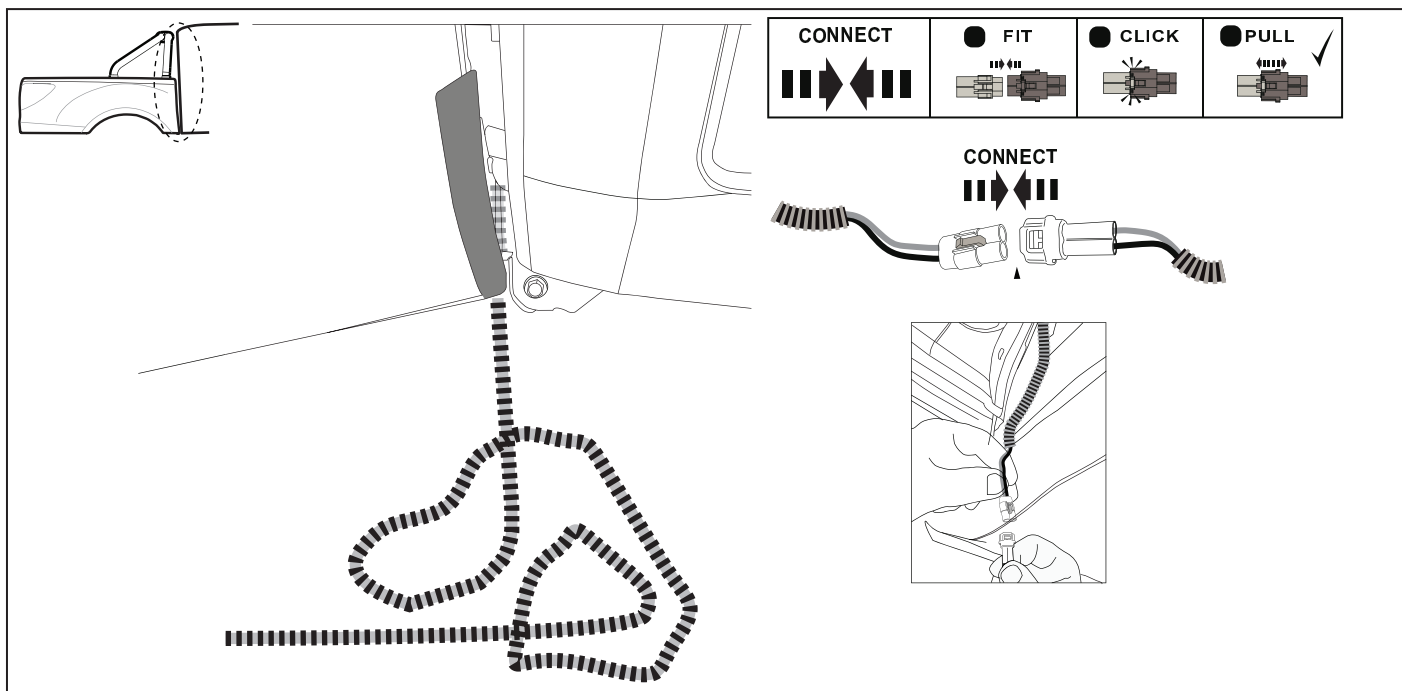
13. Tighten up the rear foot clamp plate bolts to a torque of 10Nm.
Repeat for opposite side.



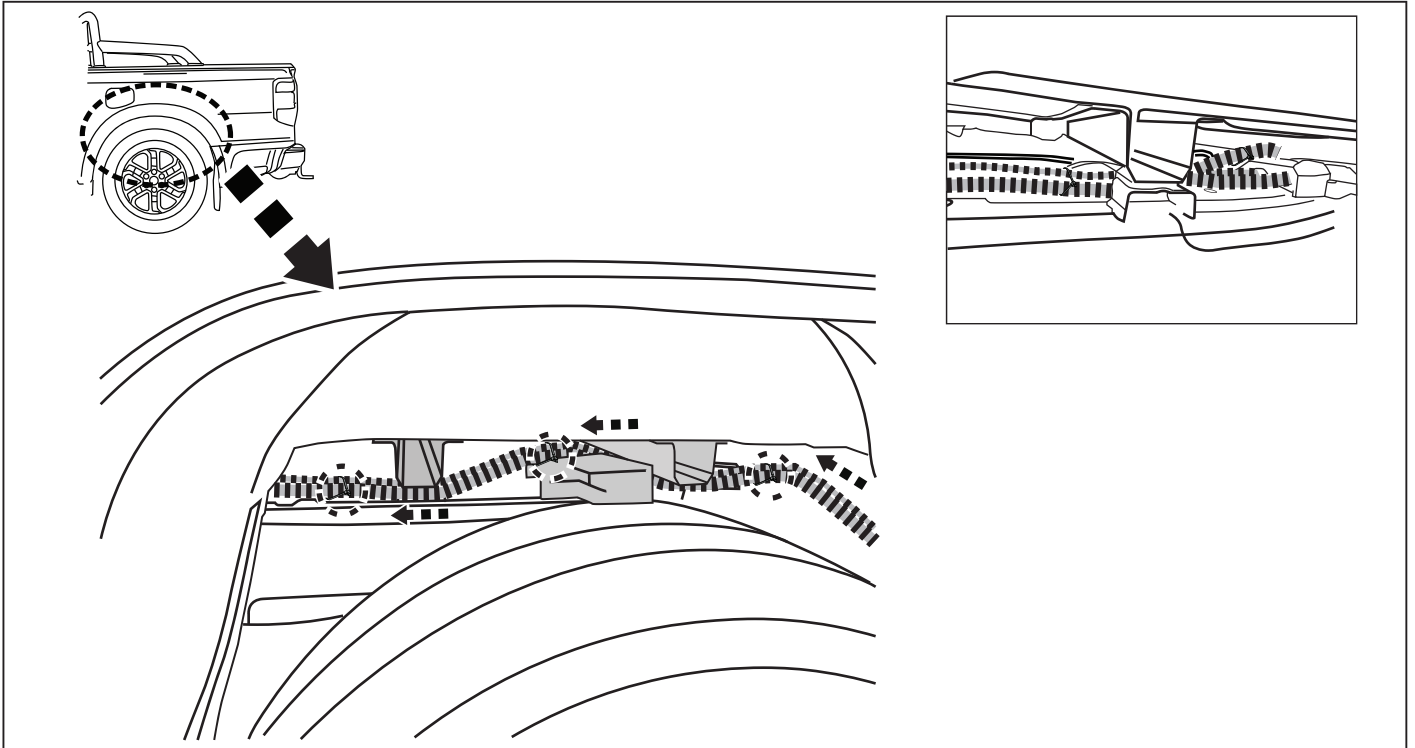
14. Fully tighten all 8 Leg to center piece bolts to 27Nm.



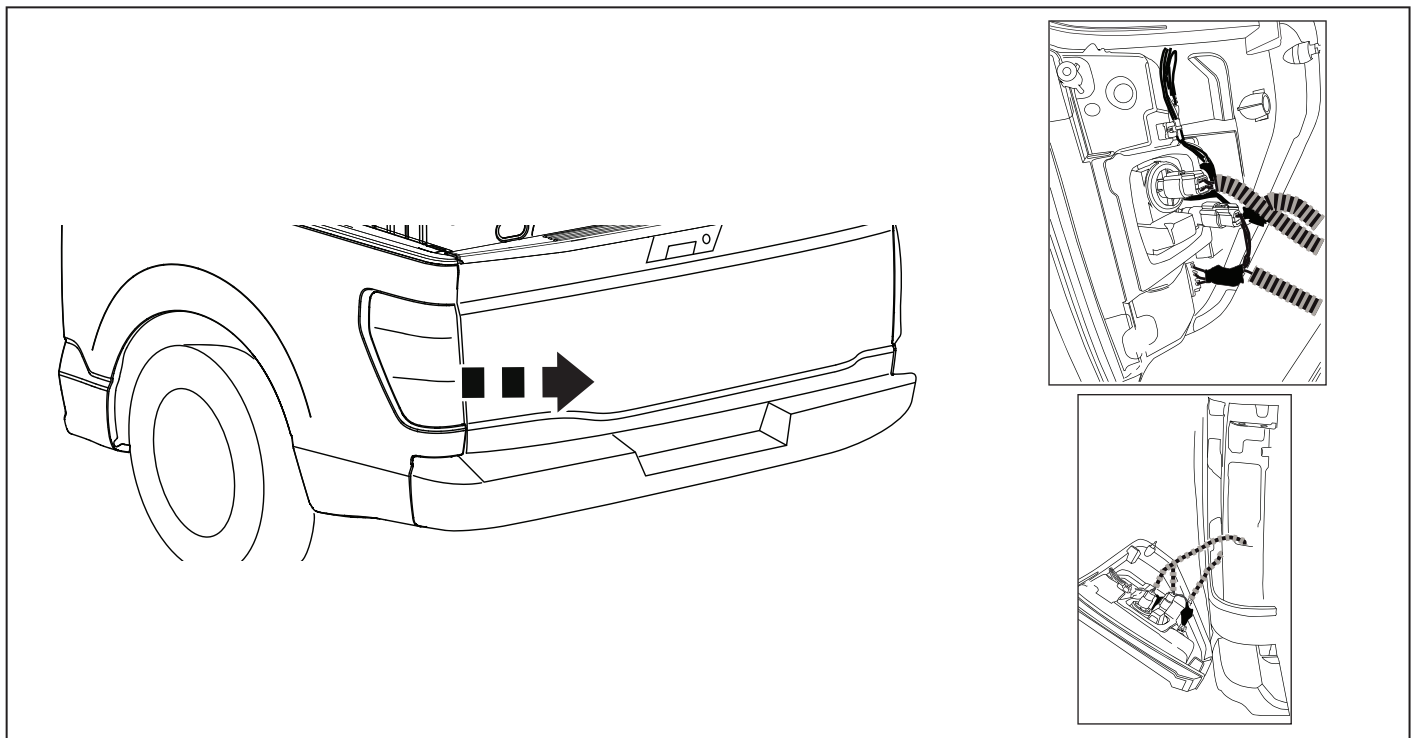
15. Insert Square Nuts into the bosses in the top half of the plastic covers. Install the top and bottom halves of the Plastic Covers and fasten together using M5x90mm Screws. Tighten to 1Nm.



16. Connect Sports Bar plug to vehicle loom.
Run wiring loom between tub and cab, ensure that loom sits behind rubber seal between cab and tub.
Run wiring loom from front of the tub along the existing wiring loom towards the rear LH taillight

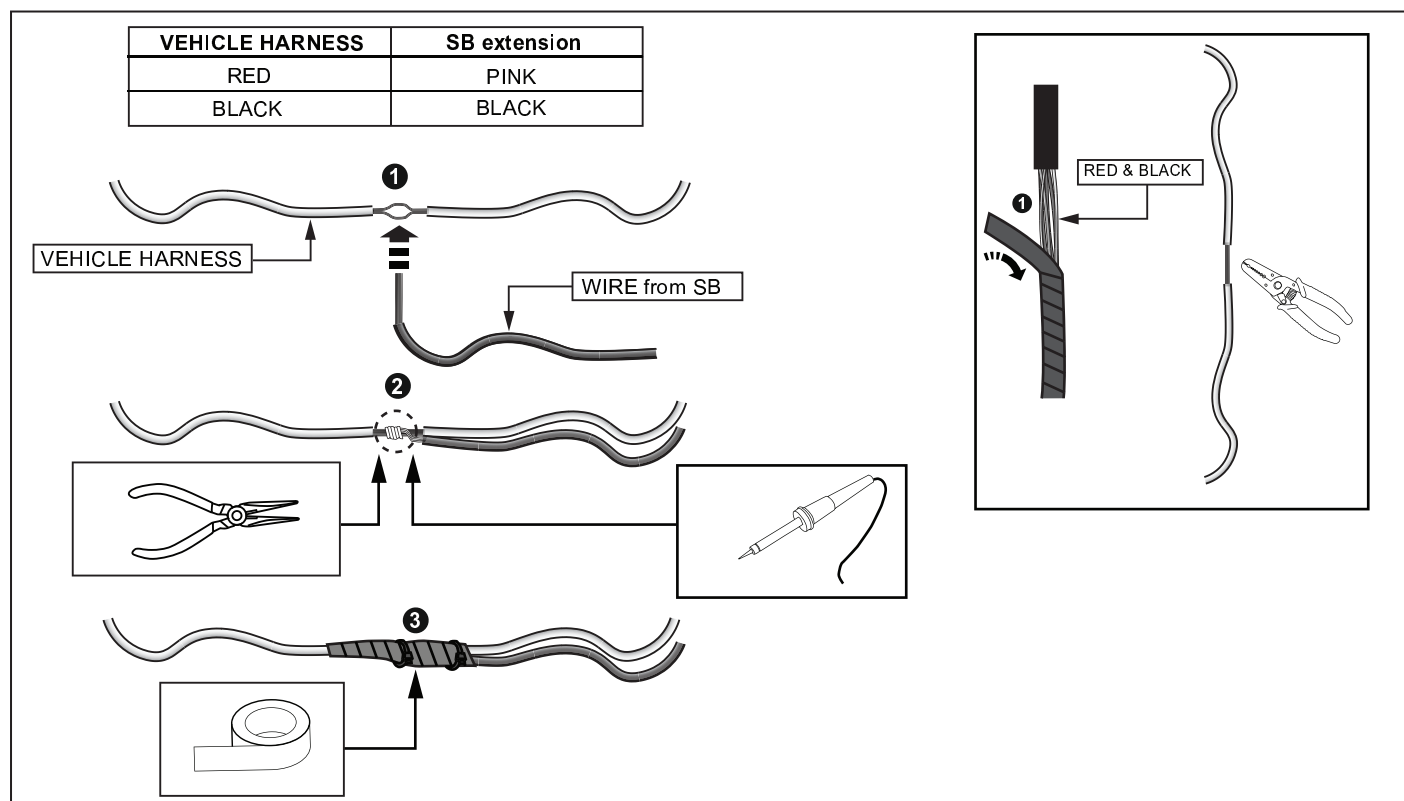


- 17.** Run wiring loom from the front of the tub along the existing wiring loom toward the rear LH taillight.
Attach with cable ties every 200 -300mm



- 18.** Open tailgate and remove LH side tail light, proceed to remove & retain the two 10mm bolts.
Unplug wiring loom from the tail light.
Using needle nose pliers release retaining clips holding the loom to the tail light.

Put tail light aside in a safe place, so it does not get scratched.



19. At the end of the convoluted split tube, peel back black electrical tape to reveal wiring loom.

Locate and solder wires as shown above, then wrap each solder joint separately with electrical tape & wrap both together.

Refit Taillight & tighten with 2 x 10mm bolts saved previously.