



**TOYOTA FJ CRUISER**  
**CARGO BARRIER INSTALLATION INSTRUCTION**  
**Part # 609475**  
VEHICLE YEARS OF MANUFACTURE - FROM MARCH 2011



This cargo barrier is capable of being located in two positions, behind the 2nd row of seats with the seats in an upright position, and behind the 1st row of seats with the 2nd row of seats in their folded position. The installation kit contains sufficient components for fitment to both locations. A high degree of technical competence is necessary to correctly install this product. We recommend this cargo barrier be installed by an authorised outlet to ensure the barrier installation complies with AS/NZS 4034 Standard.

The cargo barrier is designed, manufactured and fitted to decrease the impact hazard in an accident to occupants from cargo carried within the interior cargo space of the vehicle. In the event of an accident, a cargo barrier can reduce injuries caused by cargo intruding into occupant's space.

**Installation time approximately 2 Hours**



## **WARNINGS**

- Strict compliance with fitting instructions is essential for this safety product to meet its rated capacity. Refer user instructions regarding correct usage of the cargo barrier.
- Do not modify cargo barrier in any way.
- Do not use this cargo barrier in any other vehicle for which it is not designed.
- Modifications to the cargo barrier or its fixings or use in any other vehicle for which it is not designed may void the load rating and warranty.
- Do not attach the cargo barrier to the vehicle using seat, seat belt or child restraint anchorage's.
- Where high tensile threaded fasteners are used, the cargo barrier must be installed using the size and grade fasteners specified by Milford Industries.
- Do not drill, rivet, adhere or attach objects to the front or rear of the cargo barrier.
- Do not place smaller items, that may bypass the cargo barrier in the event of heavy braking or collision, near the edges of the barrier.
- Position the load against the cargo barrier.
- When load is positioned against cargo barrier, secure the load with a restraint system.
- During a collision moving cargo may damage seat belts or tether straps of a child restraint device, or its anchorage. Load should be carefully positioned so as not to come in contact with these items.
- Do not obstruct seat belts or child restraints, or their operation.
- Long thin items of cargo should be positioned in the vehicle with the long axis across the vehicle to minimise the penetration risk.
- If involved in an accident or accidentally damaged, the cargo barrier should be replaced and the anchorage's repaired to as new condition.
- Clean with soap and water only. Do not use solvents or chemicals. Discard cargo barrier if it becomes rusted. Do not expose to direct sunlight for long periods.
- It is extremely dangerous to ride in the cargo area of the vehicle behind the cargo barrier. It is recommended that the cargo barrier be removed. In a collision people or children riding unrestrained in these areas are more likely to be seriously injured or killed.
- Never leave a child in the vehicle unattended, particularly in the rear cargo area. The cargo area should never be used as a play area for children.
- The cargo barrier may deform and significantly intrude into occupant's space in an accident.
- Remember that the tailgate cannot be opened from inside the cargo area.
- The fixed labeling should not be removed from the cargo barrier.
- Failure to comply with warning notes may prevent the barrier protecting the occupants.
- Parents should explain to children how and when to use **EMERGENCY ESCAPE HAMMER** attached to cargo barrier.
- Do not remove the rating plaque from the cargo barrier.

### **NOTICE TO INSTALLERS & DISTRIBUTORS**

***Please ensure User Instructions are left with vehicle owner after installation.***

# TOYOTA FJ CRUISER CARGO BARRIER INSTALLATION INSTRUCTION

Part # 609475

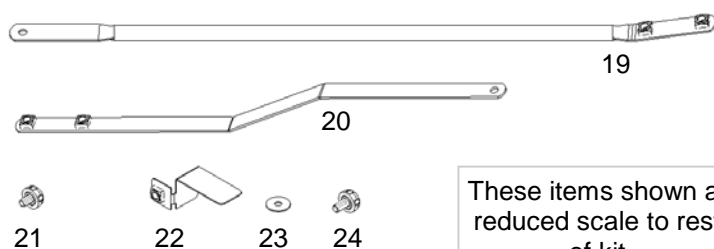
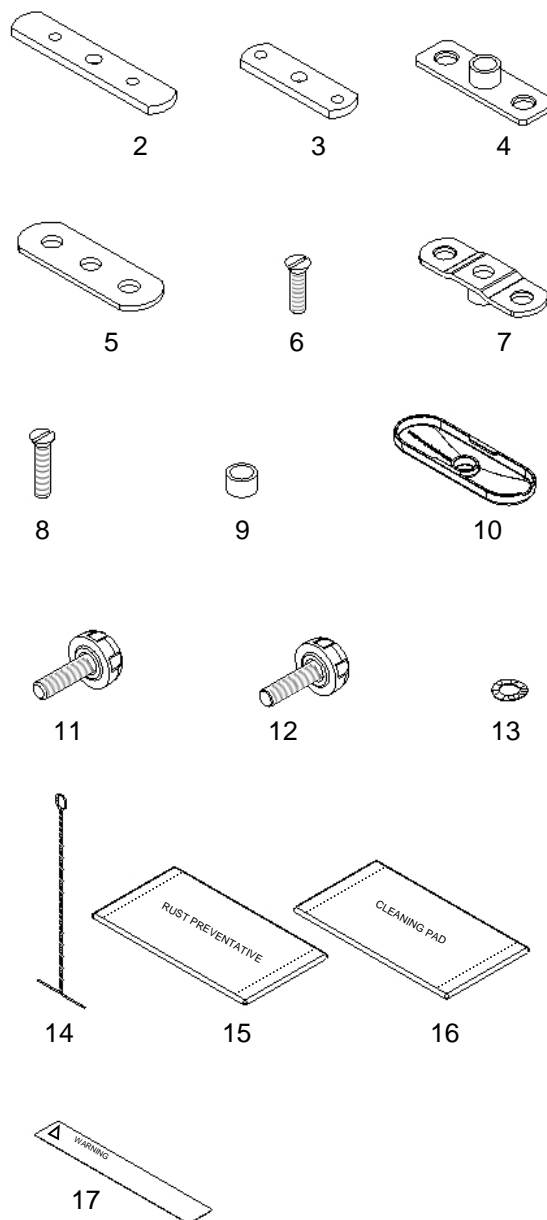
VEHICLE YEARS OF MANUFACTURE - FROM MARCH 2011



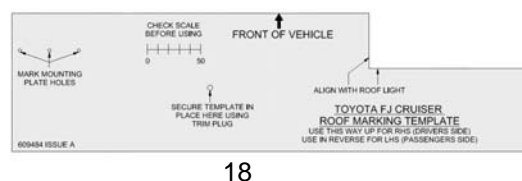
**IMPORTANT:** The installation kit contains sufficient components to fit the cargo barrier. A high degree of technical competence is necessary to correctly install this product. We recommend this cargo barrier be installed by an authorised outlet to ensure the barrier installation is correct. These instructions must be read and clearly understood before commencing installation. Check contents of kit before commencing fitment and report any discrepancies or damage.

## Parts List

Item	Component Name	Part No.	Qty
1	Cargo Barrier ASM (not shown)	609475	1
2	Mounting Plate—Long	754593	2
3	Mounting Plate—Short	754000	2
4	Cover Plate ASM	754655	2
5	Seal - Cover Plate	754647	2
6	Screw – 5/16" BSW x 1" CSK Z/P	912000	4
7	Cover Plate ASM Z/P	754744	2
8	Screw– 5/16" BSW x 1 1/4" CSK Z/P	912005	4
9	Tube Spacer—Ø16mm x 10mm Z/P	754545	4
10	Cover Plate Garnish—Plastic	754960	2
11	Milbolt—M10 x 1.5 x 34mm	912835	2
12	Milbolt—M10 x 1.5 x 39mm	912840	2
13	Wave Washer—10mm	932125	4
14	Installation Tool	754200	2
15	Rust Preventative Sealer—(sachet)	906300	1
16	Cleaning Pad—(sachet)	906302	1
17	Label—Adhesive Warning (Orange)	905017	1
18	Marking Template (roof mounts)	609484	1
19	Tube Strap ASM (Front position top)	776570	2
20	Strap ASM (Front position bottom)	776574	2
21	Milbolt—M10 x 1.5 x 14mm	912816	8
22	Bracket (Lateral support front pos.)	753973	1
23	Washer—Flat 10mm (Mudguard)	932006	1
24	Milbolt—M10 x 1.5 x 19mm	912820	1



These items shown at reduced scale to rest of kit



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**E and OE—Errors and Omissions Excepted**  
**Note:** Head style of CSK screws (Items 6 & 8) may vary from that shown.



## ADVICE TO FITTER

**Note:** To fit the cargo barrier the following is essential:

- ☐ Always drill perpendicular to surface (Unless stated otherwise).
- ☐ A positive drill stop should always be used to prevent accidental damage to external panels, fuel lines etc.
- ☐ Ensure Safety Eye Protection and Gloves are worn as required when using cutting tools.
- ☐ When cutting metal panels be very careful of sharp edges, for risk of skin cuts etc.
- ☐ Care should be taken when applying Rust Preventative sealer to all holes drilled, to negate the possibility of skin and eye irritation.
- ☐ Check screws in relevant components by hand before installation. Should there be resistance re-tap threads and re-check.
- ☐ **Before marking or drilling to install this cargo barrier, check vehicle for LPG conversion & non standard fuel tanks. Locate tanks and all lines attached and take EXTREME CARE not to damage whilst installing this cargo barrier.**
- ☐ **Before drilling to install this cargo barrier, check for concealed wiring looms. E.g. tow bar, reversing camera, reversing sensor wiring etc.. Relocate before drilling to avoid damage.**

**CARE SHOULD BE TAKEN NOT TO CROSS THREAD THE FASTENERS DURING  
INSTALLATION OF COMPONENTS TO THE VEHICLE.**

## TOOLS REQUIRED

Socket wrench  
 Metric hex sockets  
 Trim removal tools  
 Hammer  
 Screwdrivers  
 Power Drill  
 Masking Tape  
 Marker  
 Centre Punch

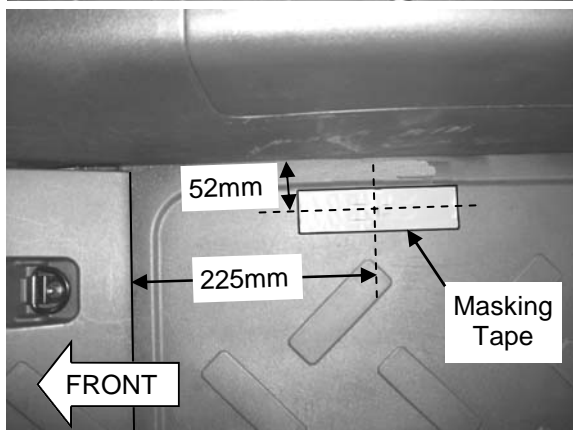
5mm, 9mm Drill Bits  
 Drill stop's  
 22mm Hole Saw  
 16mm/20mm/22mm Vinyl Cutter  
 Hole De-Burring Tool  
 Rust Preventative Applicator (e.g. cotton bud)  
 Vacuum Cleaner  
 Cover sheet / Drop sheet



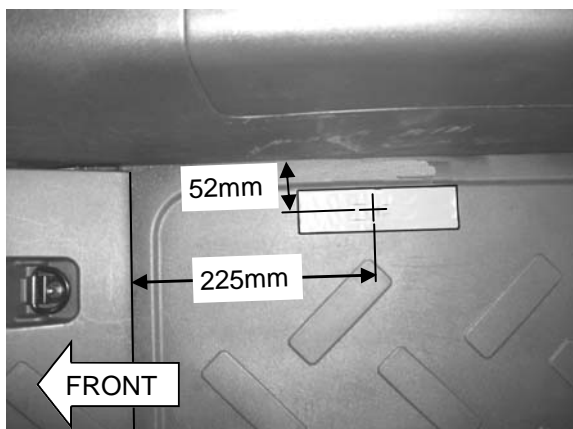
## MARKING PROCEDURE FOR FLOOR MOUNTS



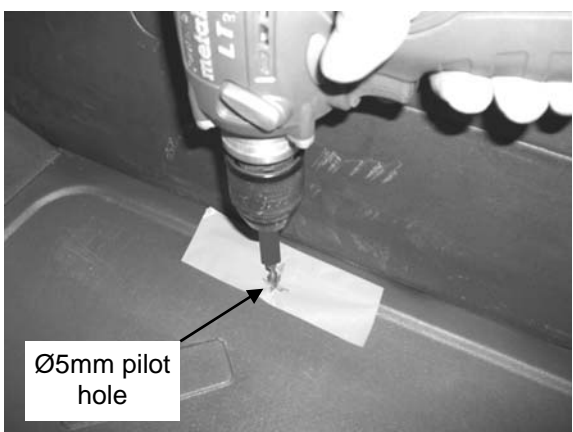
1. Identify area which you will be working in. Floor of cargo area just behind 2nd row seats.



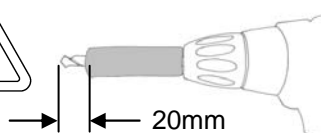
2. On the RHS (drivers side) of vehicle cargo floor apply masking tape in approximate location shown.
3. Repeat for LHS (passenger side).



4. From the back edge of the wedge shaped floor panel measure 225mm rearward as shown. Mark this location on tape.
5. From the side trim measure inboard 52mm as shown. Mark this location on tape.
6. Where lines intersect is the M10 centre hole location for mounting plate.
7. Repeat mark out procedure for LHS



8. Using a Ø5mm drill bit with drill stop set at 20mm drill a pilot hole through rubber mat and metal panel approx. 10mm behind, at each of the marked locations from steps above.





## MARKING PROCEDURE FOR FLOOR MOUNTS—Cont'd

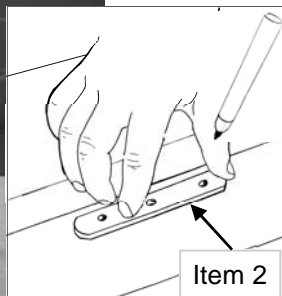
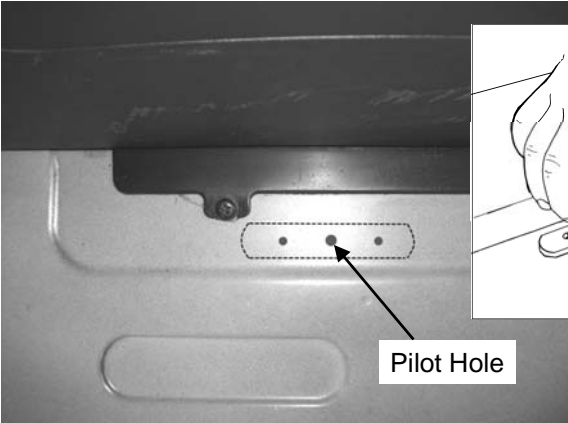


9. Unscrew forward 'D' ring anchors then carefully unclip wedge shaped floor panel from vehicle. (1 clip in middle)

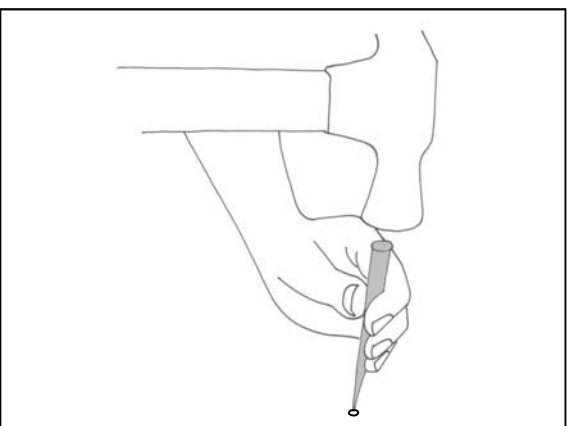


10. Carefully pull back floor covering half way to expose the metal floor panel under.

**Note:** Take care to **not** scratch side trims.



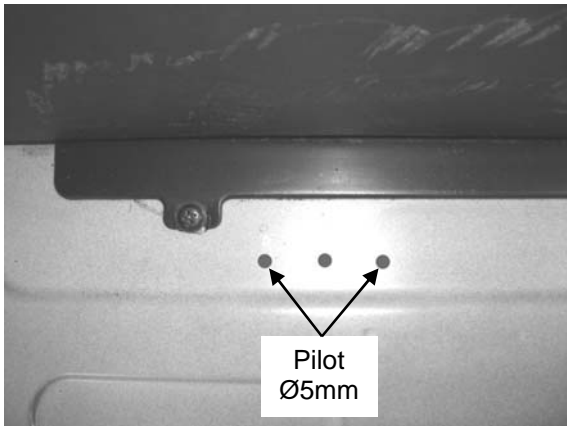
11. Locate pilot holes drilled earlier.
12. Position mounting plate (Item 2) centre hole over pilot hole. With plate held parallel to side trim mark the outer holes onto floor panel.
13. Repeat on other side.



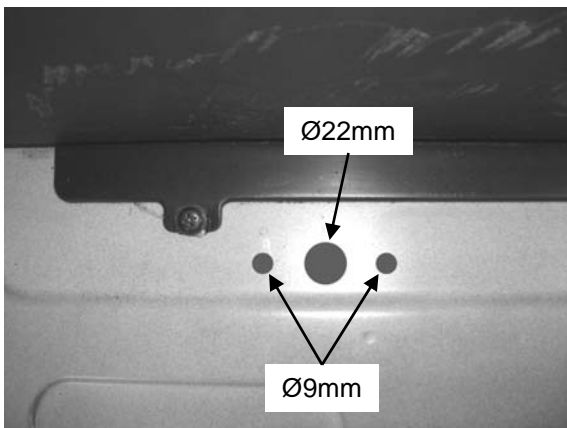
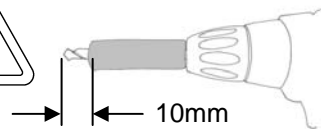
14. Centre punch the marked locations. 4 places.



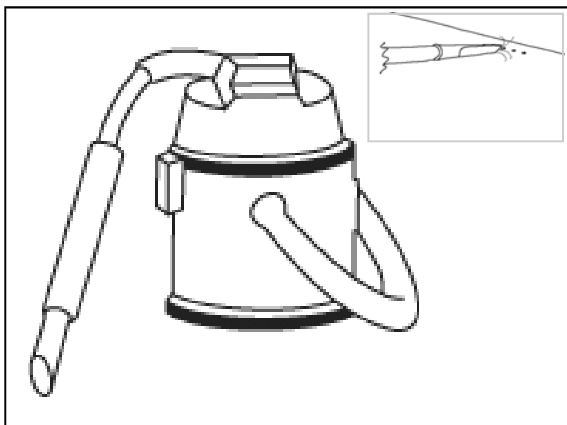
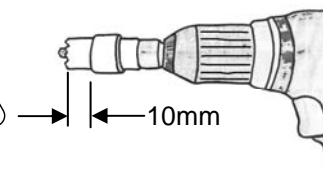
## DRILLING PROCEDURE FOR FLOOR MOUNTS



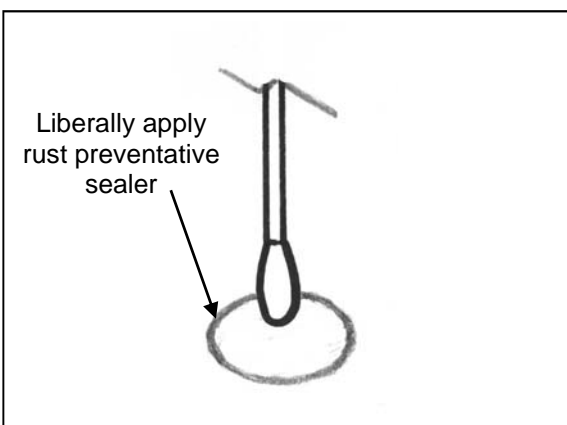
15. Using a Ø5mm drill bit with drill stop set at 10mm pilot drill each of the centre punched locations in floor panel.



16. Using a Ø9mm drill bit with drill stop set at 10mm enlarge the outer holes only.  
17. Using a Ø22 mm hole saw with drill stop set at 10mm enlarge the centre holes only.



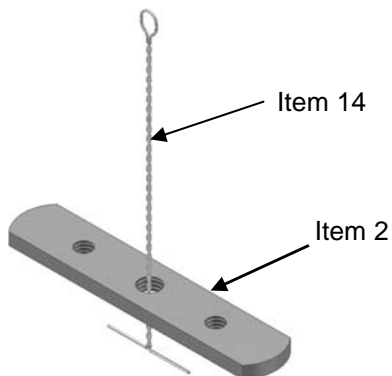
18. Vacuum away all drilling swarf.



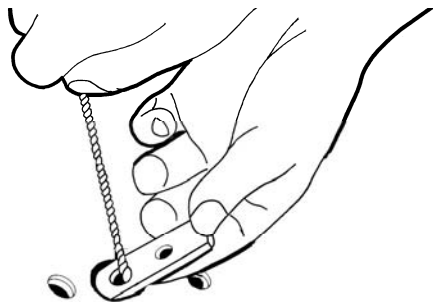
19. Apply rust preventative sealer (Item 15) to all raw edges of drilled holes in metal panel.



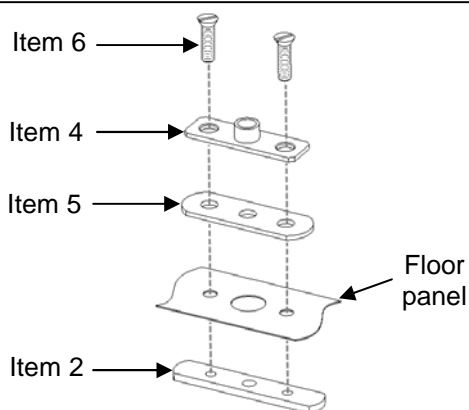
## INSTALLATION PROCEDURE FOR FLOOR MOUNTS



20. Place long mounting plate (Item 2) over installation tool (Item 14) as shown.



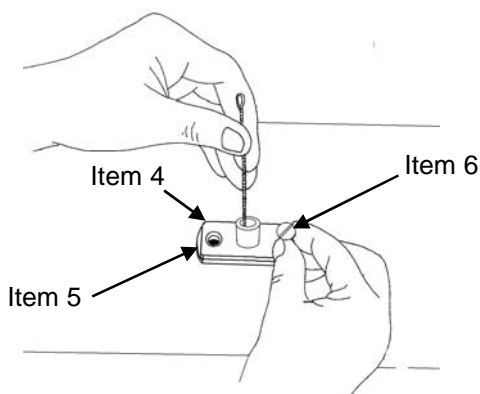
21. Whilst keeping hold of installation tool push mounting plate through 22mm centre hole. Once plate is fully inserted, pull into position on the underside of floor panel with outer holes aligned.



22. Place rubber cover plate seal (Item 5) over installation tool with outer holes aligned.  
 23. Place metal cover plate ASM (Item 4) over installation tool with outer holes aligned.  
 24. Secure assembly in place with 5/16" x 1" CSK screws (Item 6) before removing installation tool by pulling upwards.

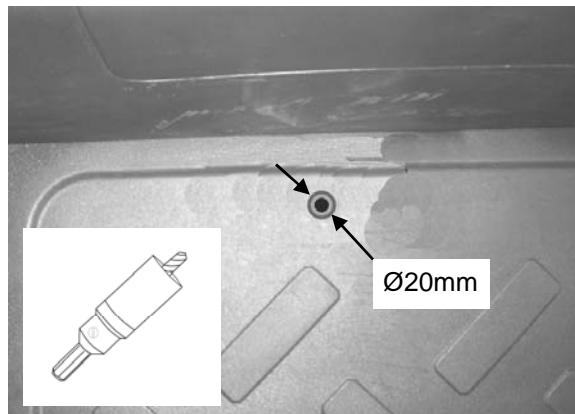
25. Tighten outer screws.  
*Hint: Thread Milbolt (Item 11) into centre hole before tightening outer screws to ensure correct alignment.*

26. Remove Milbolt.  
 27. Repeat procedure for other side. (Ends of installation tool will need to be reset before proceeding)





## INSTALLATION PROCEDURE FOR FLOOR MOUNTS—Cont'd



28. Reinstall floor covering back into its home position.
29. Using a Ø20mm Vinyl Cutter, cut through floor covering at pilot hole locations to allow covering to fit over tube spacers on cover plate ASM's.



30. Reinstall wedge shaped floor panel

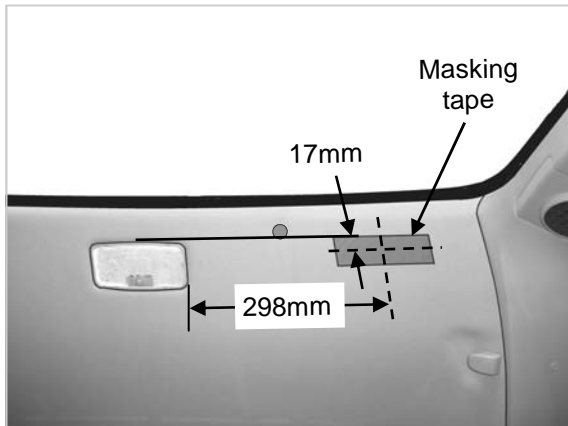
## MARKING PROCEDURE FOR ROOF MOUNTS



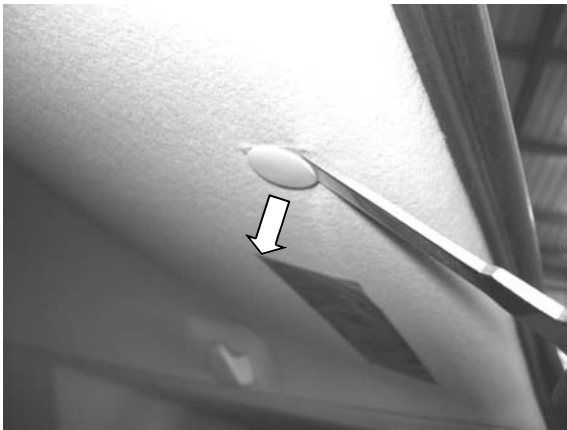
31. Identify area which you will be working in. Roof area above tailgate opening.
32. Place a drop sheet over cargo area to protect trim.



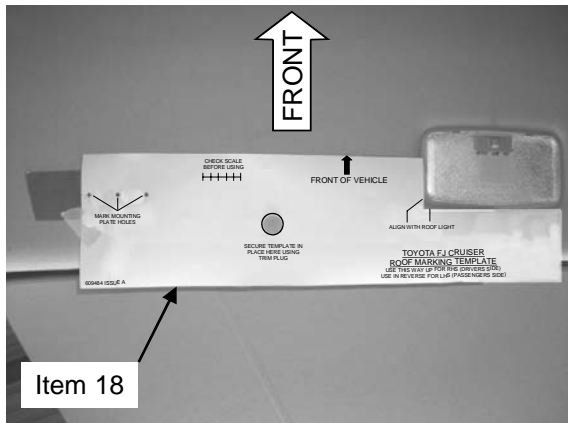
## MARKING PROCEDURE FOR UPPER MOUNTS—Cont'd



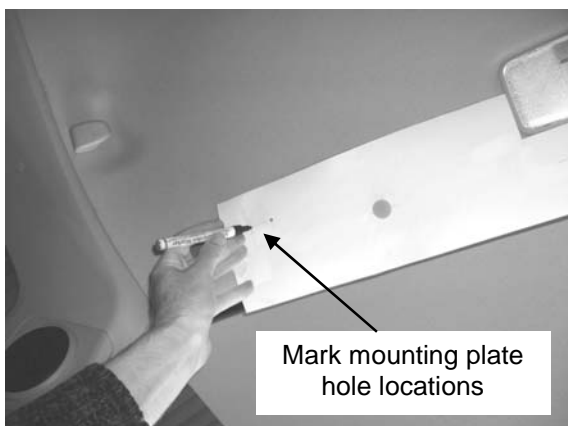
33. At approximate location shown place masking tape on the roof lining.
34. Repeat on LHS (passenger side).



35. Remove trim plugs securing roof lining at top of tailgate opening. One each side.



36. Position roof marking template (Item 18) on RHS (drivers side) of vehicle as shown. (printed side towards you) Secure in place using roof trim plug as indicated on template.
37. Position template against back & side edge of roof light as shown. Tape template in place.



38. Using marker pen mark the 3 mounting plate hole locations through the template onto masking tape, as indicated on template.
39. Remove trim plug then repeat procedure on LHS (passenger side) with template reversed. (non printed side towards you)



## DRILLING PROCEDURE FOR UPPER MOUNTS

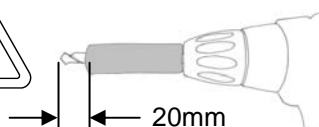


40. Centre punch the marked locations from steps 38/39, through roof trim & into metal panel approximately 10mm behind.

*Note: Ensure punch is held perpendicular to roof trim when punching metal panel.*



41. Using a Ø5mm drill bit with drill stop set at 20mm pilot drill each of the centre punched locations in roof panel.



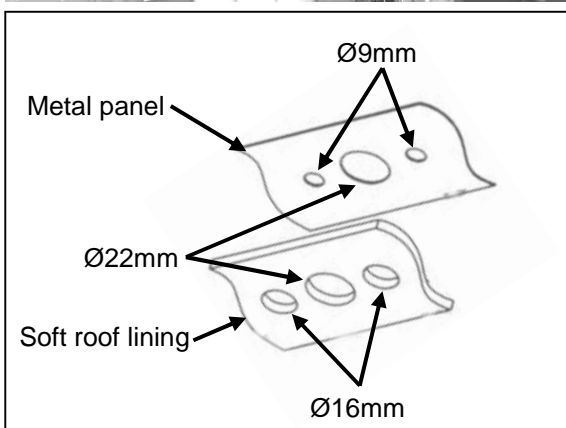
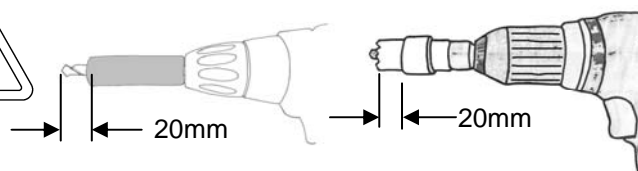
42. Using a Ø16mm vinyl cutter enlarge the outer holes only through the soft roof lining.

43. Using a Ø22mm vinyl cutter enlarge the centre holes only through the soft roof lining.



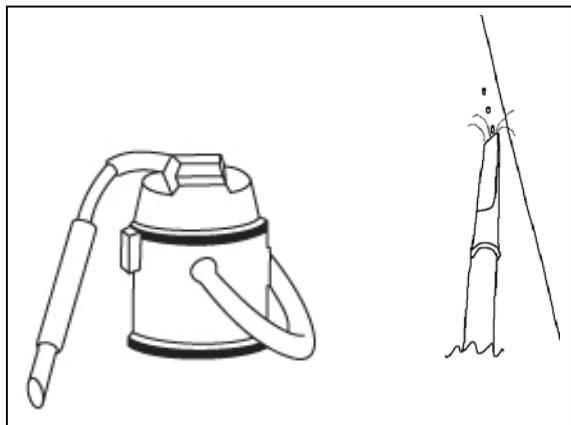
44. Using a Ø9mm drill bit with drill stop set at 20mm enlarge the outer holes through metal panel.

45. Using a Ø22mm hole saw with drill stop set at 20mm enlarge the **centre holes only** through the metal panel.

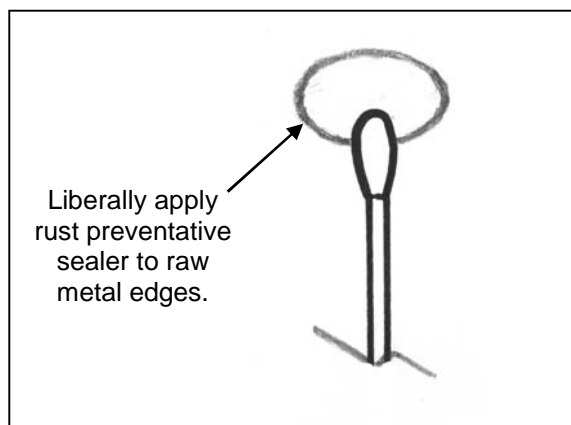




## DRILLING PROCEDURE FOR UPPER MOUNTS– Cont'd



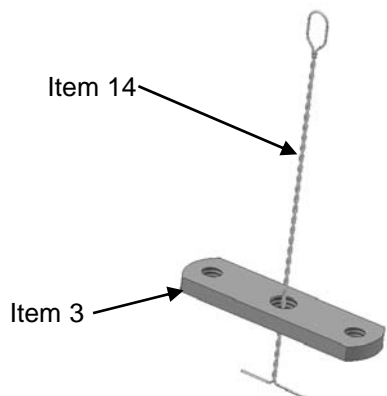
46. De burr all holes, remove masking tape and vacuum away any drilling swarf.



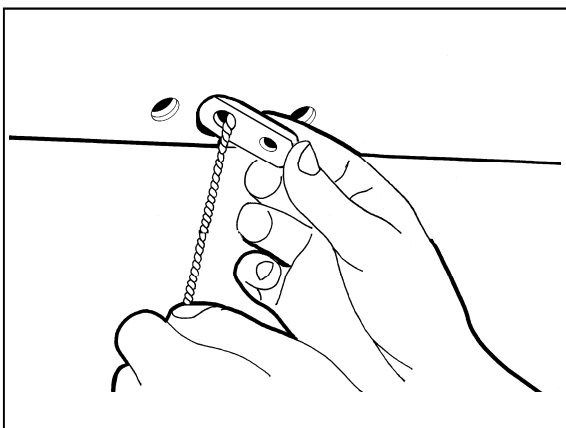
47. Apply rust preventative sealer (Item 15) to all raw edges of drilled holes in metal panel.



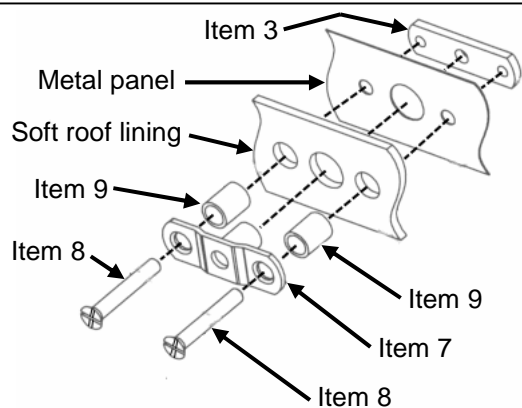
## INSTALLATION PROCEDURE FOR UPPER MOUNTS



48. Place short mounting plate (Item 3) over installation tool (Item 14) as shown.



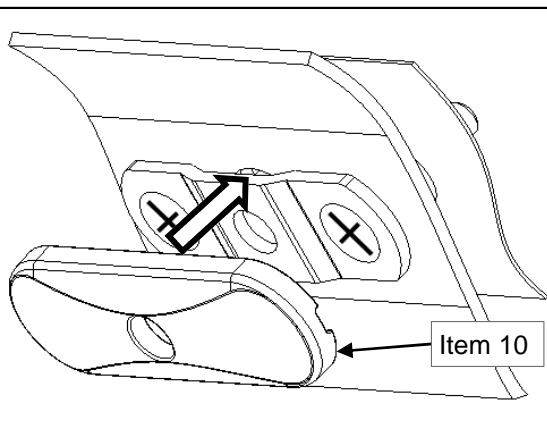
49. Whilst keeping hold of installation tool push mounting plate through 22mm centre hole. Once plate is fully inserted pull into position on the outside of metal roof panel with outer holes aligned.



50. Insert tube spacers (Item 9) into each of the 16mm outer holes in roof lining until flush with roof lining.
51. Place cover plate ASM (Item 7) over installation tool with spacer tube pointing upwards as shown.
52. With all holes aligned secure assembly in place with 5/16" x 11/4" CSK screws (Item 8) before removing installation tool by pulling downwards.

*Hint: Thread Milbolt (Item 12) into centre hole before tightening outer screws to ensure correct alignment.*

53. Tighten outer screws.
54. Repeat procedure for other side. (Ends of installation tool will need to be reset before proceeding)
55. Fit plastic garnishes (Item 10) to cover plate assemblies by clipping over raised part of cover plate.
56. Remove drop sheet and clean up.





## AFFIXING OF WARNING LABEL

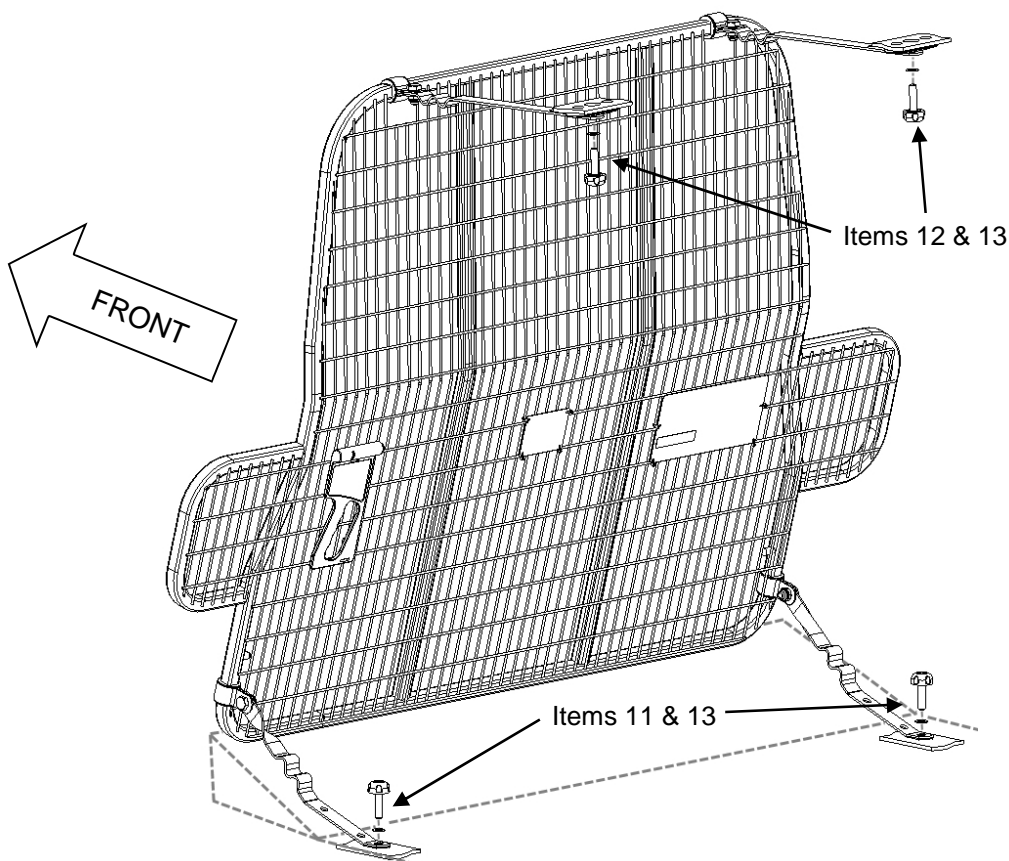


57. Clean area inside drivers door opening (front edge of back door) as shown using cleaning pad (Item 16).
58. Allow to dry then affix orange warning label (Item 17) at that location as shown.

***Please ensure User Instructions are left with vehicle owner after installation.***

## INSTALLATION OF CARGO BARRIER 'Behind 2nd row of seats'

1. Ensure mounting straps are pivoted towards the rear side (meshed side) of cargo barrier as shown.
2. Position cargo barrier directly behind 2nd row seats with rating label (meshed side of cargo barrier) facing the rear of the vehicle.
3. Attach top straps to roof mounts using 39mm Milbolts (Item 12) with wave washers (Item 13) under heads.
4. Attach bottom straps to floor mounts using 34mm Milbolts (Item 11) with wave washers (Item 13) under heads.
5. Tighten all Milbolts securely.

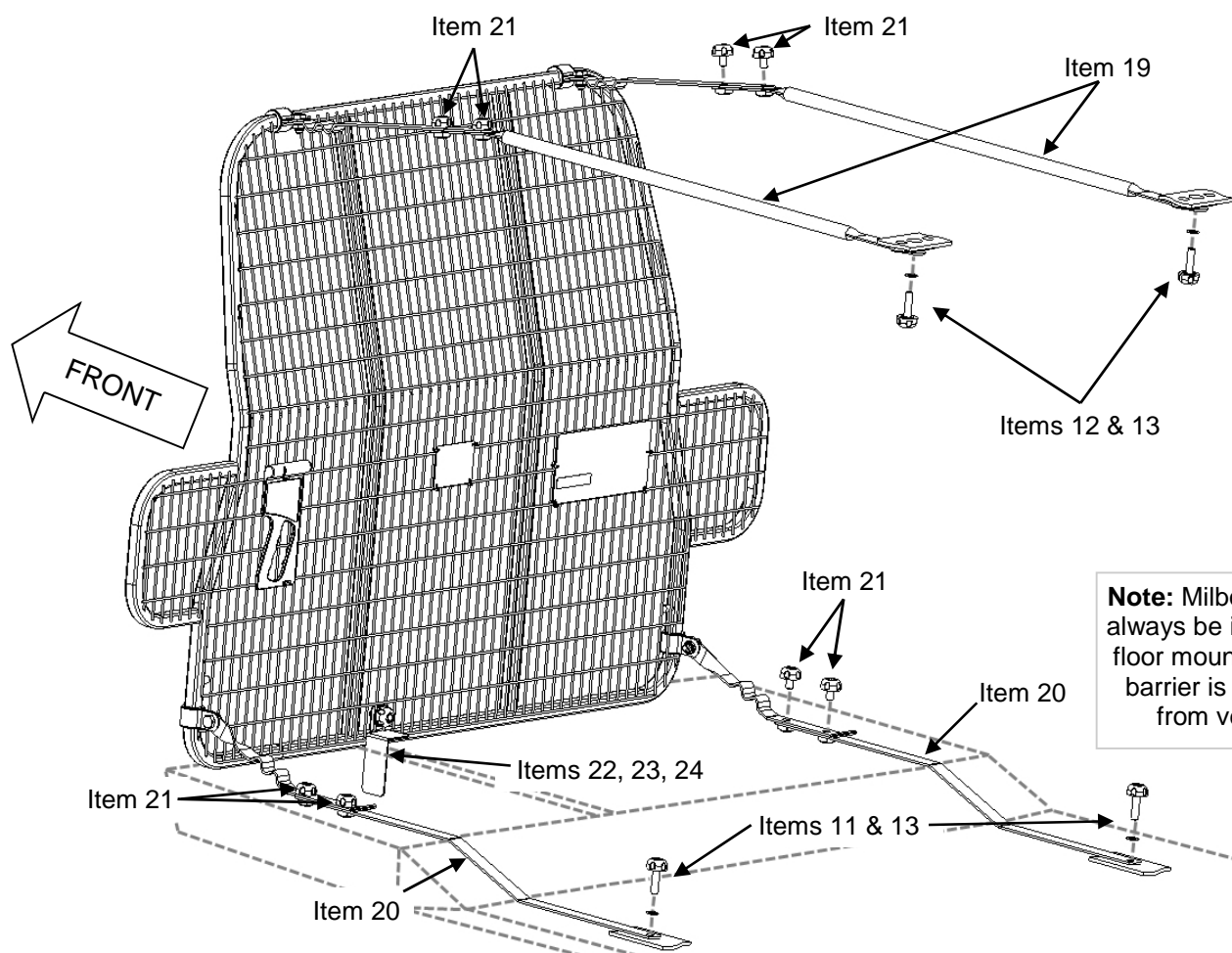


**Note:** Milbolts should always be installed to floor mounts, even if barrier is removed from vehicle.



## INSTALLATION OF CARGO BARRIER 'Behind 1st row of seats'

1. Lay 2nd row seats flat as shown in owners handbook.
2. If moving from rear position undo all Milbolts securing cargo barrier in position.
3. Move the cargo barrier forward onto the back of the folded 2nd row seats with the rating label (meshed side of cargo barrier) facing the rear of the vehicle.
4. Attach tube extension straps (Item 19) to top straps as shown using 14mm Milbolts (Item 21).
5. Attach other end of tube extension straps to roof mounts using 39mm Milbolts (Item 12) with wave washers (Item 13) under heads.
6. Attach bottom extension straps (Item 20) to bottom straps as shown using 14mm Milbolts (Item 21).
7. Attach other end of bottom extension straps to floor mounts using 34mm Milbolts (Item 11) with wave washers (Item 13) under heads.
8. Tighten all Milbolts.
9. Centre cargo barrier in the middle of the vehicle. (Even gap each side)
10. Locate best mesh aperture opening along bottom of cargo barrier for lateral support bracket (Item 22). (Bracket will locate in gap between folded seat backs)
11. Manoeuvre lateral support bracket into position through mesh aperture selected.
12. With lateral support bracket positioned in gap between folded seat backs, secure in position using 19mm Milbolt (Item 24) with flat washer (Item 23) under head.



**IMPORTANT NOTE: Check that all bolts and screws are tight and re check periodically.**