



MITSUBISHI CHALLENGER CARGO BARRIER INSTALLATION INSTRUCTION

Part # 306275

VEHICLE YEARS OF MANUFACTURE - DEC. 2009 ONWARD
Suitable for 5 seat models & 7 seat models with 3rd row seats removed.



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 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.



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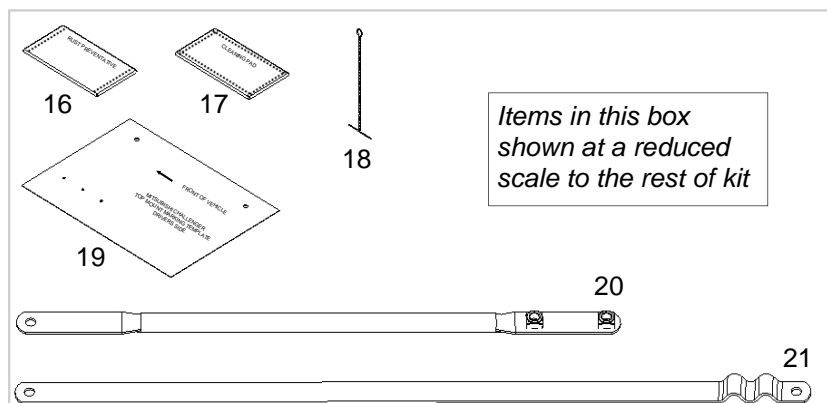
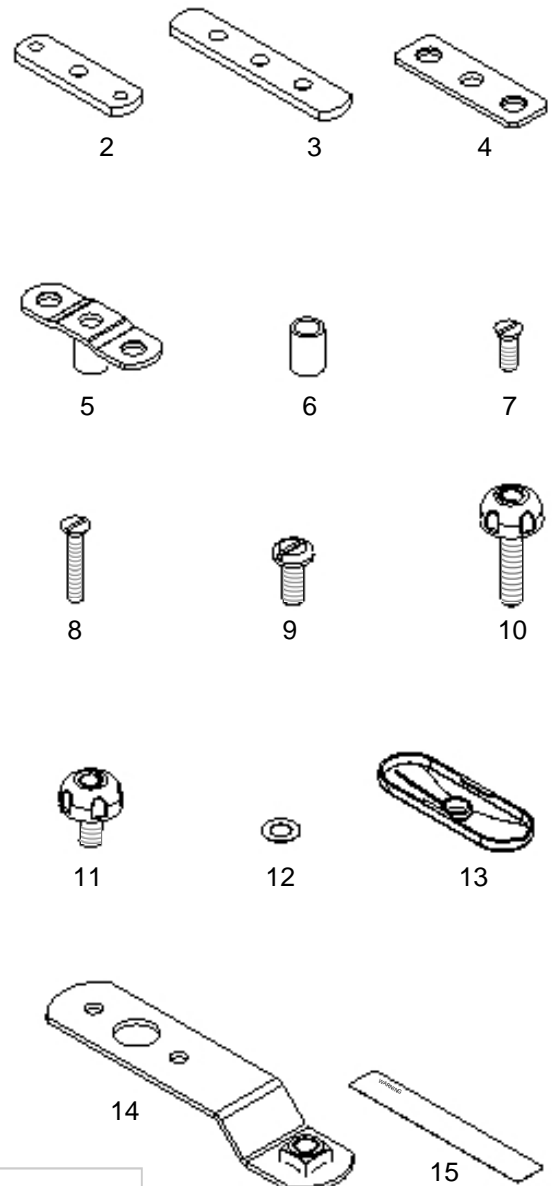
VEHICLE YEARS OF MANUFACTURE - DEC. 2009 ONWARD
Suitable for 5 seat models & 7 seat models with 3rd row seats removed.



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)	306275	1
2	Mounting Plate—Short ZN	754000	2
3	Mounting Plate—Long ZN	754593	2
4	Cover Plate—Powder coated	754235	2
5	Cover Plate ASM—ZN	754742	2
6	Tube Spacer—22mm ZN	754729	8
7	CSK Screw—5/16" x 3/4"	912390	4
8	CSK Screw—5/16" x 1 1/2"	912310	8
9	Screw— Pan Head—M10 x 1.5 x 35mm	912020	2
10	Milbolt—M10 x 1.5 x 59mm	913115	2
11	Milbolt—M10 x 1.5 x 19mm	912820	6
12	Wave Washer—10mm	932125	4
13	Plastic Garnish	754960	2
14	Bracket ASM—Floor	756872	2
15	Warning Label (Orange)	905017	1
16	Rust Preventative Sealer (Sachet)	906300	1
17	Cleaning Pad (Sachet)	906302	1
18	Installation Tool	754200	2
19	Marking Template— Roof (Card)	306284	1
20	Tube Extension Strap (Front position-Top)	776506	2
21	Flat Long Strap (Front position—Bottom)	776502	2



Items in this box
shown at a reduced
scale to the rest of kit

Note: Head style of
CSK screws (Items 7 &
8) may vary from that
shown.

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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

Hammer
Screwdriver—Large Flat Blade
Screwdriver—#4 Phillips
Socket wrench
Metric A/F sockets
Power Drill
Masking Tape
Marker Pen
Centre Punch
5mm, 9mm Drill Bits
Screwdriver—Small Flat Blade

Drill stop's
16mm Hole Saw
22mm Hole Saw
16mm Vinyl Cutter
22mm Vinyl Cutter
Sharp Knife
Hole De-Burring Tool
Magnetic Pickup Tool
Rust Preventative Applicator
Vacuum Cleaner
Cover sheet / Drop sheet

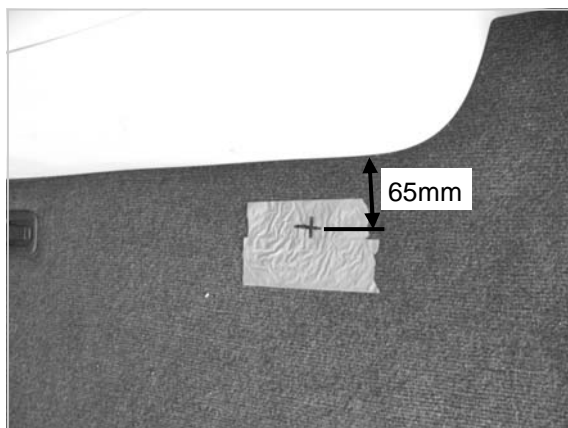
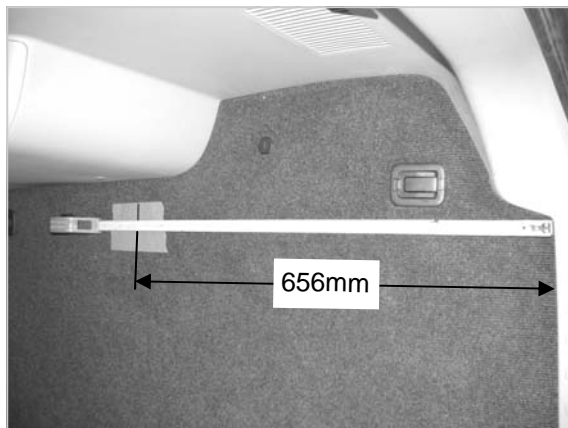
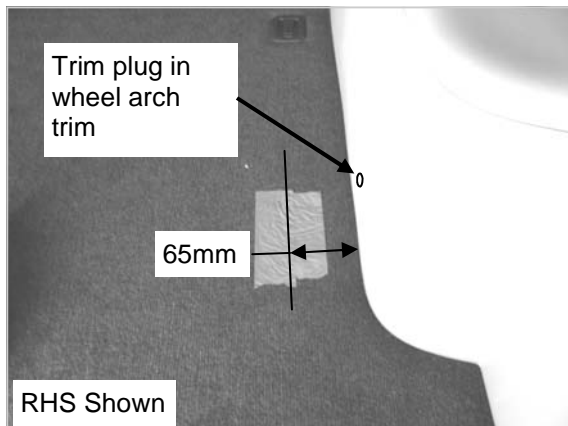
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MARKING PROCEDURE FOR FLOOR MOUNTS



1. If installing cargo barrier to 7 seat model remove the 3rd row of seats & cargo hold at rear of cargo area.
2. At approximate location shown in cargo area apply masking tape to the floor covering. (**5 seater**)
 - In 7 seater pull floor covering back and mark directly onto floor panel.
3. Repeat on other side.

4. From the forward edge of the tailgate opening plastic skid plate trim, measure forward 656mm. Mark this location on masking tape.
5. Repeat on other side.

6. From the plastic side trim measure inboard 65mm as shown. Mark this location on masking tape. This intersection point will be the mounting plate centre hole.
7. Repeat on other side.

8. Using cover plate (Item 4) as a template position centre hole over marked locations from steps 4 to 7.
9. Position cover plate parallel with side trim as shown.
10. Mark the outer holes onto masking tape.

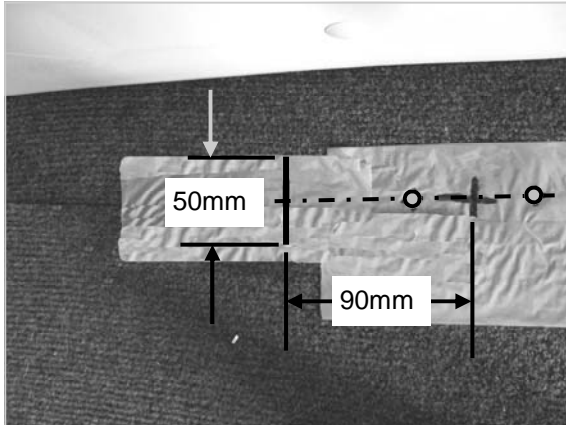
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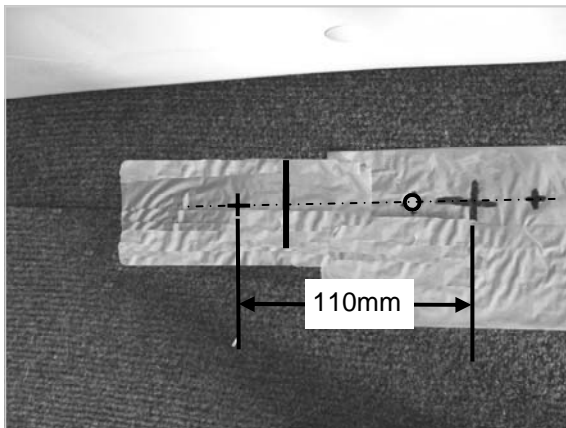


MARKING PROCEDURE FOR FLOOR MOUNTS—Cont'd



For 5 seat model only

11. Mark a centre line through the marked hole locations, forward as shown.
12. From the mounting plate centre hole location measure forward 90mm.
13. Mark a 50mm line on masking tape perpendicular to side trim & equal about centre line as shown. (This line will be cut along to allow floor bracket to be inserted under floor covering) Refer steps 28 & 29.



14. From the mounting plate centre hole location measure forward 110mm.
15. Mark this position on centre line.
16. Repeat steps 11 to 15 on other side.

DRILLING PROCEDURE FOR FLOOR MOUNTS



17. Using a Ø5mm drill bit with drill stop set at 30mm (10mm for 7 seater), drill a pilot hole at each of the marked hole locations, through floor covering & metal panel behind. (6 places)

Note: Ensure drill bit is held perpendicular to floor covering when drilling metal panel.

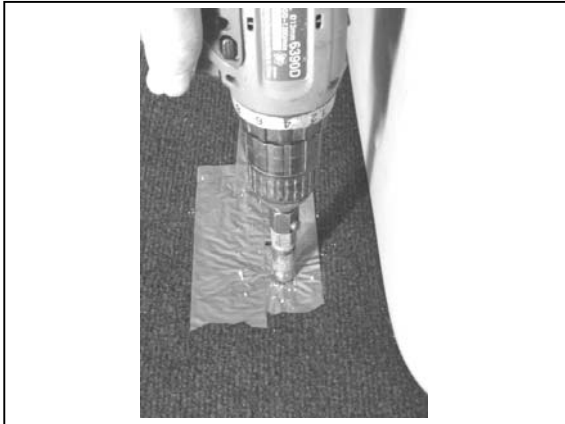
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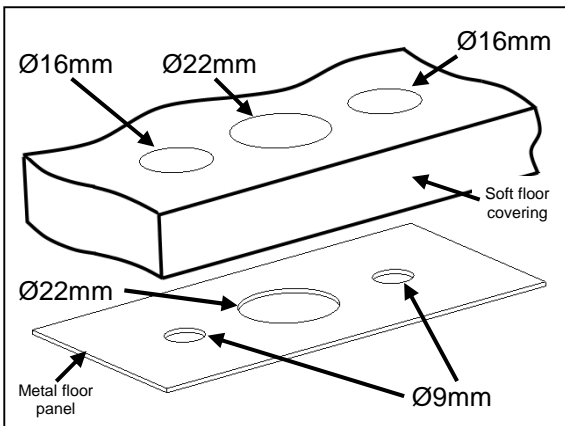


DRILLING PROCEDURE FOR FLOOR MOUNTS—Cont'd

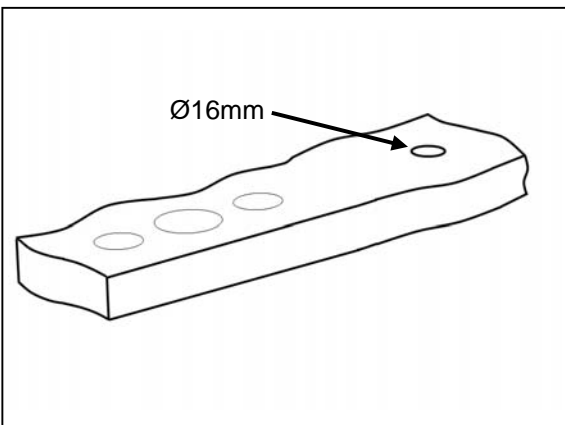


For 5 seat model only

18. Using a 16mm vinyl cutter enlarge the outer mounting plate holes only through soft floor covering.
19. Using 22mm vinyl cutter enlarge the centre mounting plate holes only through soft floor covering.

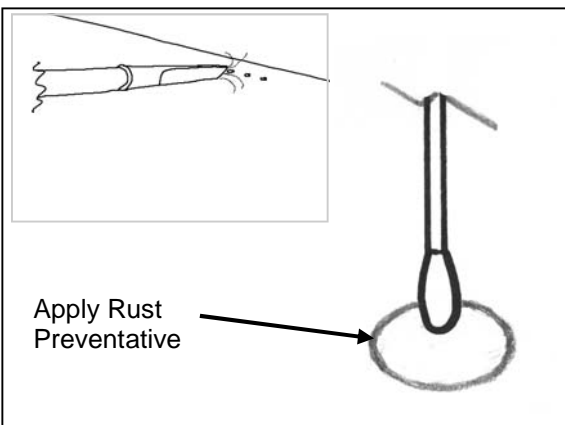


20. Using a 9mm drill bit with drill stop set at 10mm enlarge the outer holes only through metal panel.
21. Using 22mm hole saw enlarge the centre holes only through metal panel.
22. Deburr drilled holes.



For 5 seat model only

23. Using a 16mm vinyl cutter cut a hole through the floor covering only at each of the marked locations from steps 15 & 16.



24. If hole saw slug has dropped into chassis, remove using magnetic pick up tool.
25. Vacuum away all drilling swarf.
26. Apply rust preventative sealer (Item 16) to all raw edges of holes drilled in metal panels.

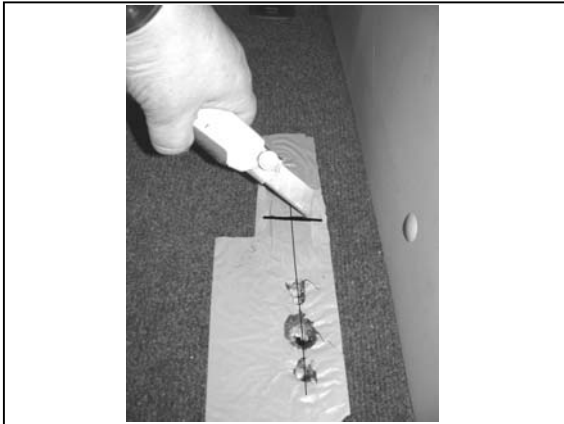
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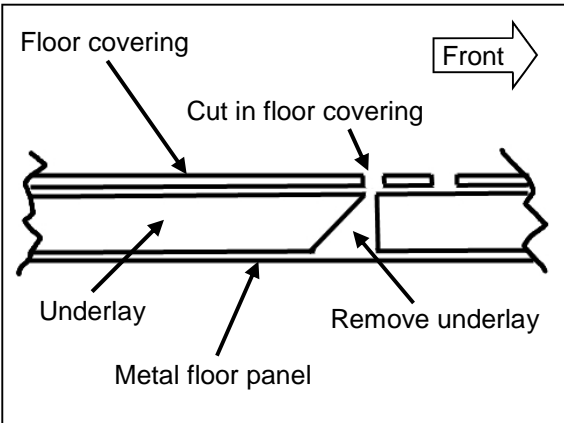


INSTALLATION PROCEDURE FOR FLOOR MOUNTS

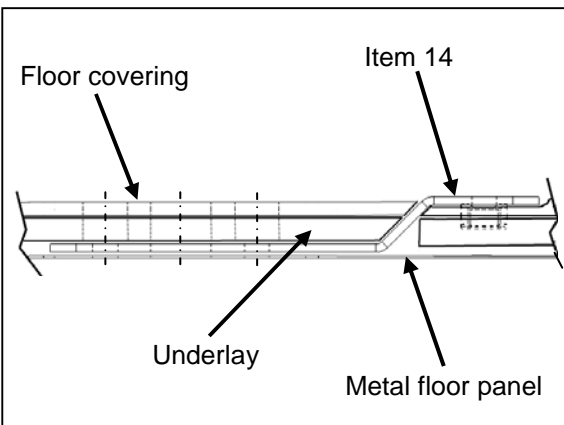


For 5 seat model only

27. Using a sharp knife cut through floor covering and underlay down to metal panel along marked lines from step 13.



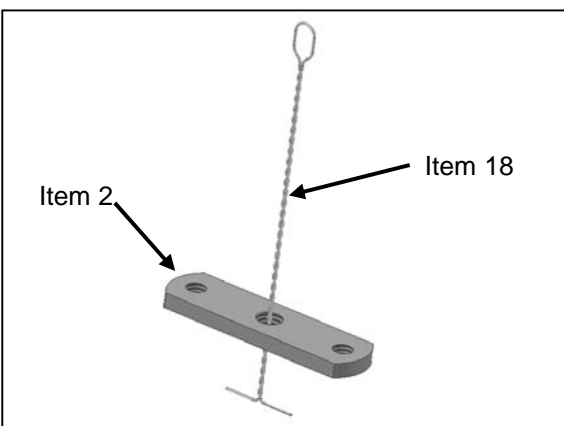
28. With knife at an angle of 45° towards back of vehicle, cut away a wedge of the underlay as shown for the full width of the cut in floor covering.



For 5 seat model only

29. Take floor bracket ASM (Item 14) and insert through cut in floor covering. Manoeuvre into position between floor covering underlay and metal panel with all holes aligned with those drilled earlier.

30. For 7 seat model simply position floor bracket ASM (Item 14) on floor panel with all holes aligned. Weld nut to front.



31. Insert installation tool (Item 18) through centre hole in Short mounting plate (Item 2) as shown.

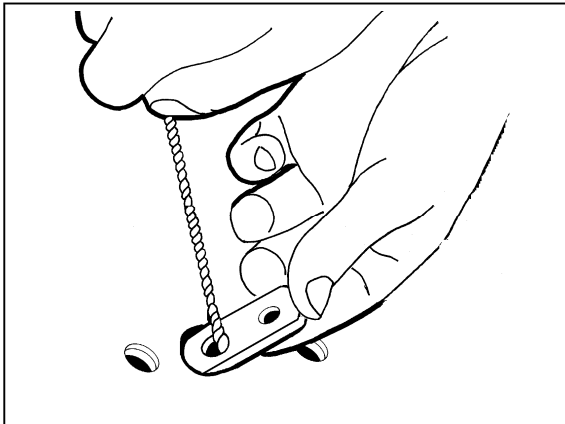
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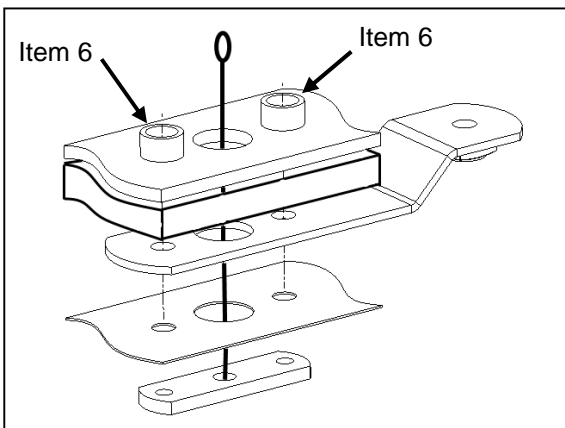
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INSTALLATION PROCEDURE FOR FLOOR MOUNTS—Cont'd



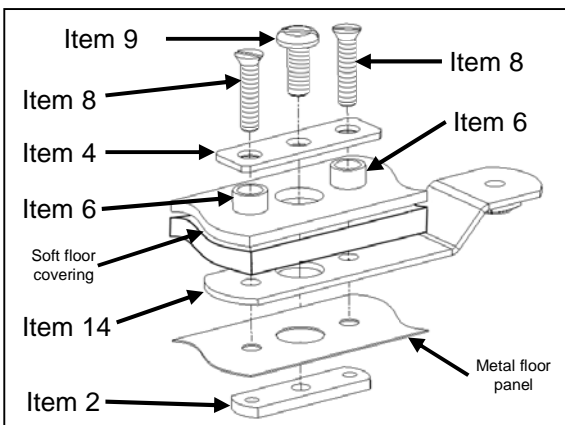
32. Whilst keeping hold of installation tool insert mounting plate through 22mm hole in floor bracket & panel. Manoeuvre plate into position on outside of panel with outer holes aligned with 9mm drilled holes.



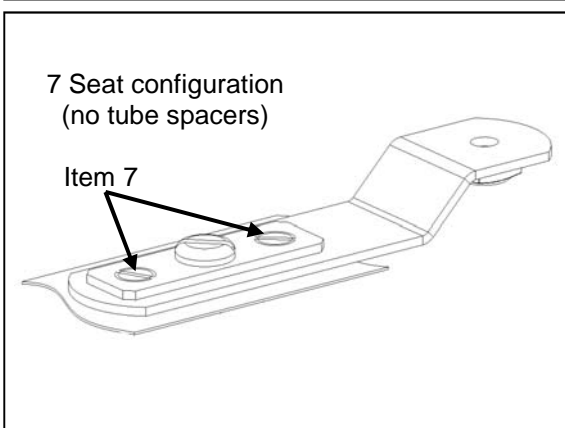
For 5 seat model only

33. Place 22mm tube spacers (Item 6) into the outer holes in floor covering.

Note: Tube spacers are not used for 7 seat model.



34. Position cover plate (Item 4) centre hole over installation tool & on top of tube spacers (floor bracket in 7 seat model) with outer holes aligned.
35. Secure assembly in place using 5/16" CSK screws (Item 8) in outer holes.
- Note:** For 7 seat model use shorter screws (Item 7).
36. Remove installation tool by pulling upwards. Reset ends for other side.
37. Place M10 pan head screw (Item 9) into centre hole, then tighten all screws.
38. Repeat on other side.



39. On 7 seat model reposition floor covering around floor bracket. Floor covering may require cutting to get it back into position around floor bracket.

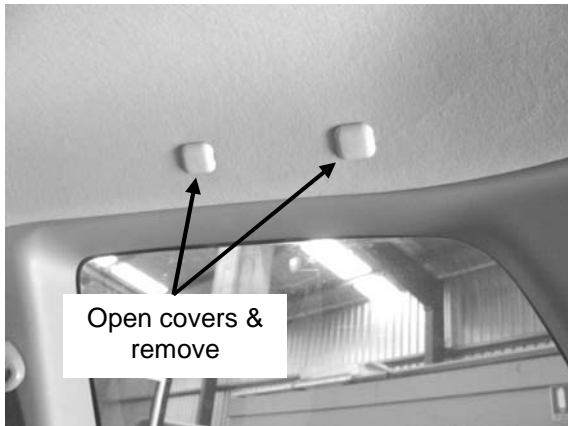
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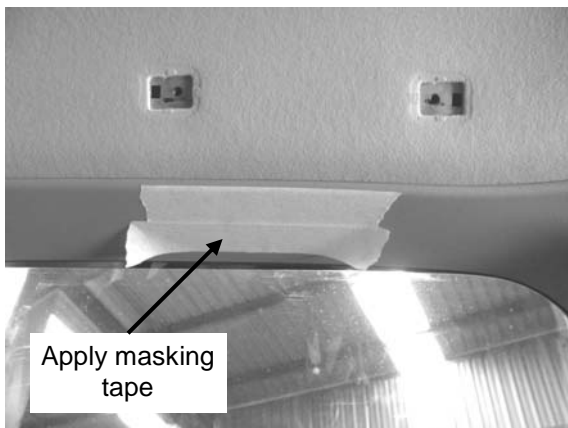
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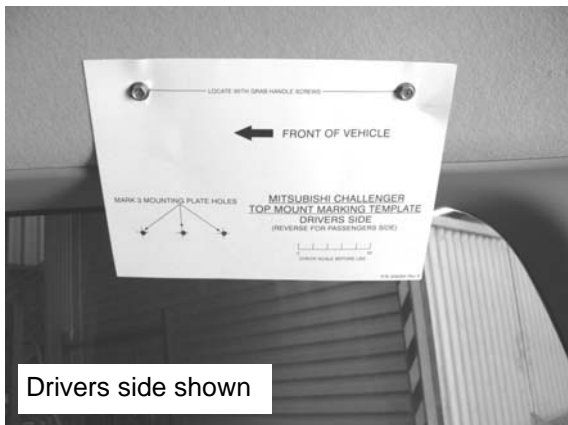
MARKING PROCEDURE FOR UPPER MOUNTS



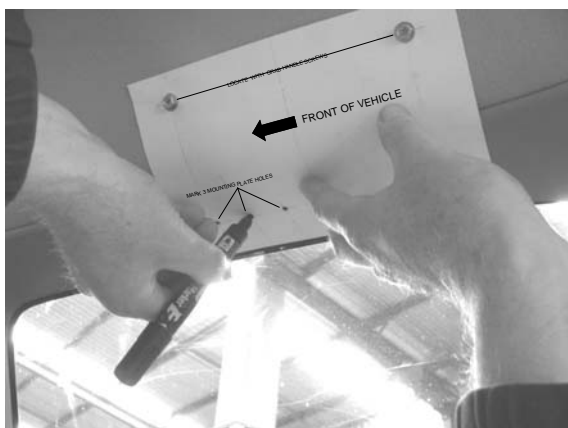
40. Place drop sheet over cargo area.
41. Remove grab handle mounting point covers from over cargo area in 5 seater. Remove 3rd row seat grab handles in 7 seater.



42. At approximate location shown apply masking tape to the hard plastic trim adjacent to the grab handle mounts.
43. Repeat on other side.



44. Using grab handle screws & mounts locate top mount marking template (Item 19) in place on drivers side of vehicle.



45. Wrap template tight around hard trim as shown, then mark 3 mounting plate hole locations onto masking tape as indicated on template.
46. Repeat steps above on passenger side with template reversed.

Note: Ensure mounting plate marking holes are to the front of the vehicle when template is reversed.

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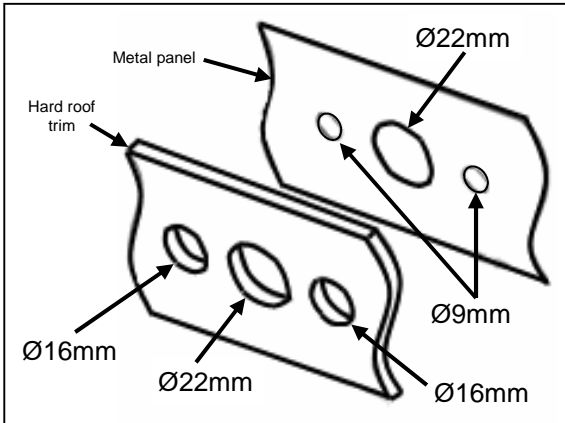


DRILLING PROCEDURE FOR UPPER MOUNTS

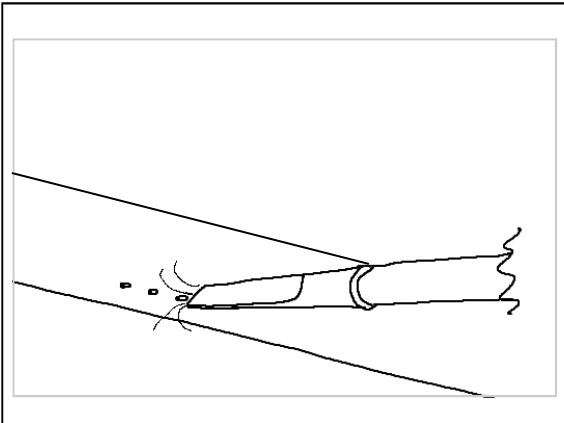


47. Using 5mm drill bit with drill stop set at 30mm, drill through hard plastic trim & metal panel approximately 22mm behind at each of the marked locations from steps 45/46.

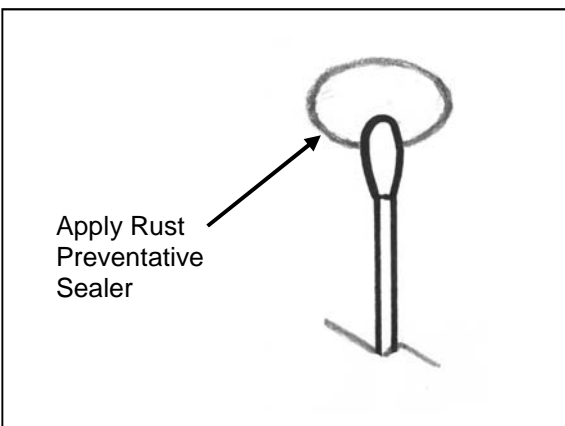
Note: Ensure drill bit is held perpendicular to trim when drilling metal panel.



48. Using 16mm hole saw enlarge the outer holes only through the hard plastic trim.
49. Using 22mm hole saw with drill stop set at 30mm, enlarge the centre holes only through the hard plastic trim & metal panel behind.
50. Using 9mm drill bit with drill stop set at 10mm, enlarge outer holes through metal panel.



51. Deburr all holes in metal panels.
52. Vacuum away all drilling swarf.



53. Apply rust preventative sealer (Item 16) to all raw edges of holes drilled in metal panels.

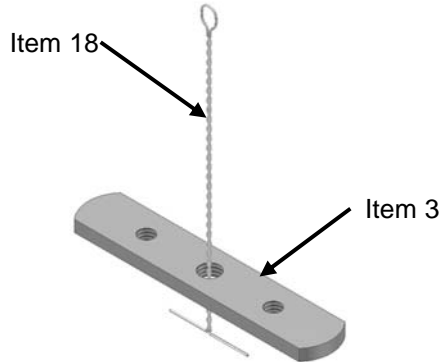
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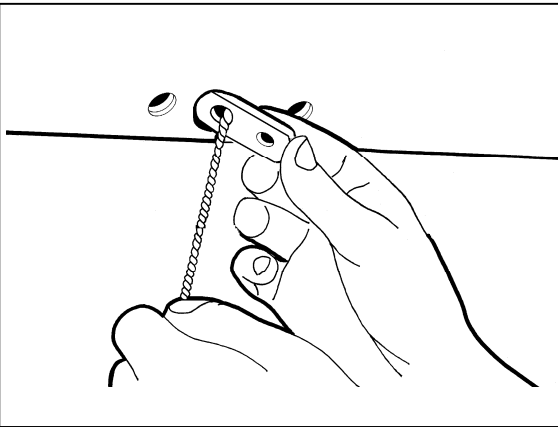
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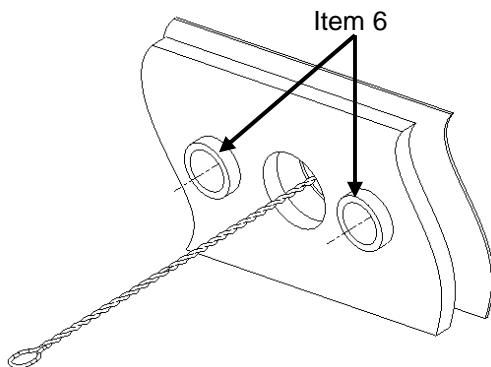
INSTALLATION PROCEDURE FOR UPPER MOUNTS



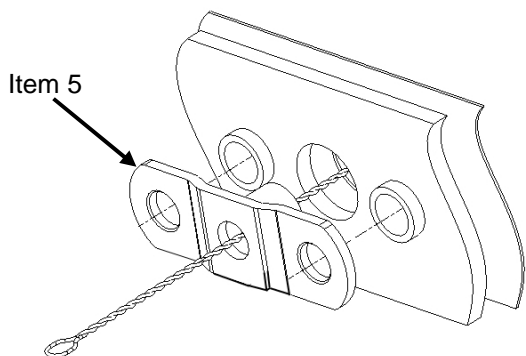
54. Insert installation tool (Item 18) through centre hole in Long mounting plate (Item 3) as shown.



55. Whilst keeping hold of installation tool insert mounting plate through 22mm hole in roof panel. Manoeuvre plate into position on outside of metal panel with outer holes aligned with 9mm drilled holes.



56. Insert tube spacers (Item 6) into each of the outer holes in hard plastic trim.



57. Position cover plate ASM (Item 5) over installation tool with tube spacer facing outwards as shown.

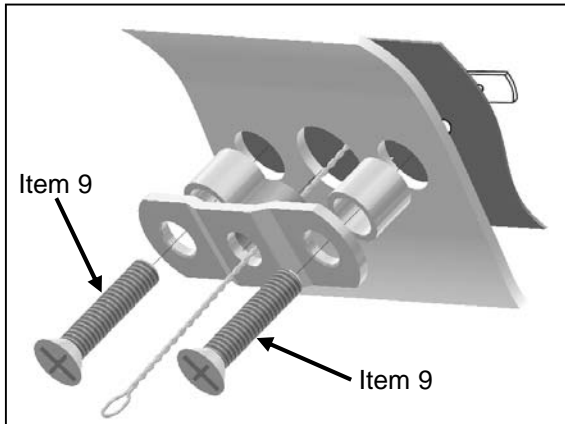
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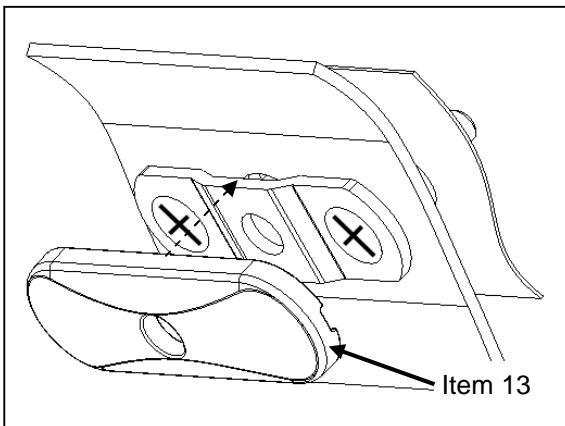
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INSTALLATION PROCEDURE FOR UPPER MOUNTS– Cont'd

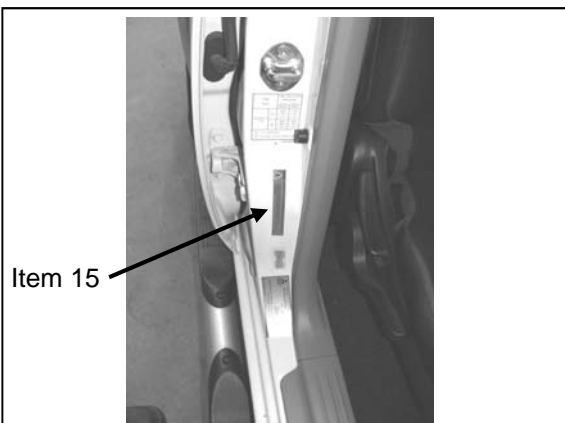


58. Secure cover plate ASM to mounting plate using 5/16" CSK screws (Item 8) through outer holes.
59. Remove installation tool by pulling inwards. Reset ends for other side.
60. Temporarily fit Milbolt (Item 10) to centre hole before tightening 5/16" CSK screws.
61. Repeat steps 54 to 60 on other side.



62. Attach plastic garnish (Item 13) to cover plate ASM's as shown.
63. Replace grab handle mounting point covers. (Grab handles in 7 seater)

AFFIXING OF WARNING LABEL



64. Clean area inside drivers door opening as shown using cleaning pad (Item 17).
65. Allow to dry then affix orange warning label (Item 15) at that location as shown.

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

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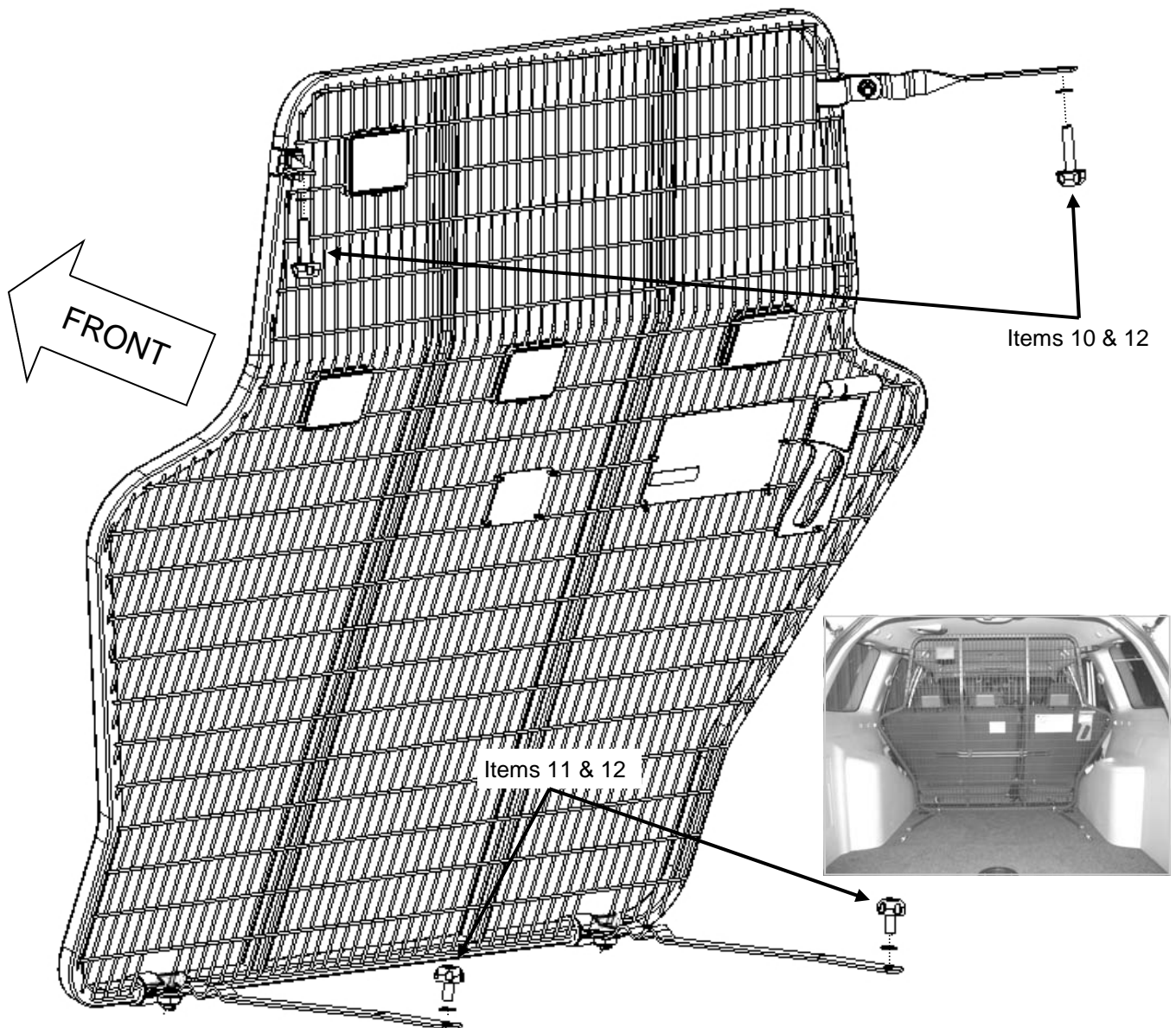
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INSTALLATION OF CARGO BARRIER 'Behind 2nd row of seats'

- A. Ensure all straps are on the rearward side (meshed side) of cargo barrier.
- B. Position cargo barrier behind second row of seats with rating label (meshed side of cargo barrier) facing the rear of the vehicle.
- C. Unfold top straps and attach to upper mounts using 59mm Milbolts (Item 10) with wave washer (Item 12) under heads.
- D. Unfold bottom straps and attach to floor mounts using 19mm Milbolts (Item 11) with wave washers (Item 12) under heads.
- E. Tighten all Milbolts.



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

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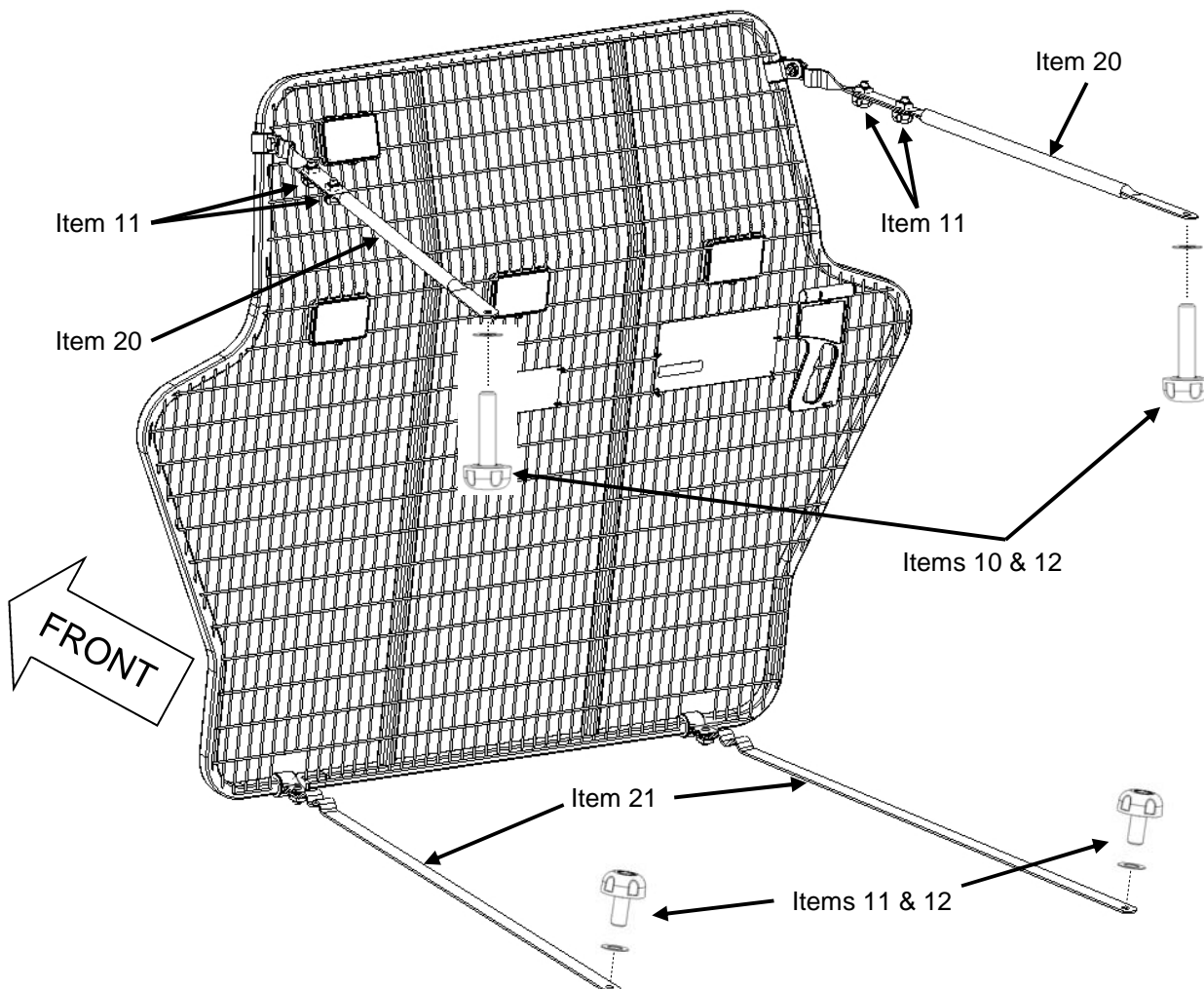
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INSTALLATION OF CARGO BARRIER 'Behind folded 2nd row of seats'

- A. Fold second row of seats forward as shown in owners vehicle handbook.
- B. If moving from behind 2nd row seat position, undo Milbolts securing bottom straps to floor mounts.
- C. Undo bolts securing bottom straps to cargo barrier pivot saddles and remove straps.
- D. If moving from behind 2nd row seat position, undo Milbolts securing top straps to upper mounts.
- E. Position cargo barrier behind folded second row of seats with rating label (meshed side of cargo barrier) facing the rear of the vehicle.
- F. Attach tube extension straps (Item 20) to top straps as shown, using 19mm Milbolts (Item 11) x2 per strap.
- G. Attach other end of tube straps to upper mounts using 59mm Milbolts (Item 10) with wave washers (Item 12) under heads.
- H. Attach long flat straps (Item 21) to bottom pivot saddles as shown using bolts removed earlier.
- I. Attach other end of bottom straps to floor mounts using 19mm Milbolts (Item 11) with wave washers (Item 12) under heads.
- J. Tighten all Milbolts.
- K. Secure spare rear position straps to cargo barrier or store in a safe place.
- L. Reverse procedure to move back to rear position.



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