



VERTICAL TIRE MOUNT

2002+ RAM/2500/3500
2002–2018 RAM 1500

PLEASE READ ENTIRELY BEFORE YOU START

To guarantee a quality installation, we recommend reading these instructions thoroughly before beginning any work. These instructions assume a certain amount of mechanical ability and are not written nor intended for someone not familiar with auto repair.

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REQUIRED TOOLS

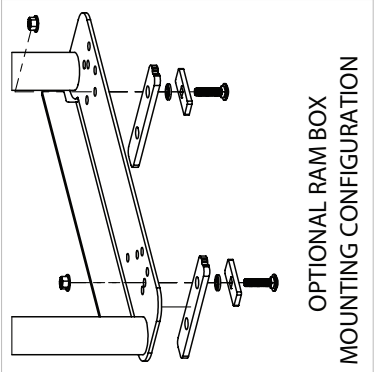
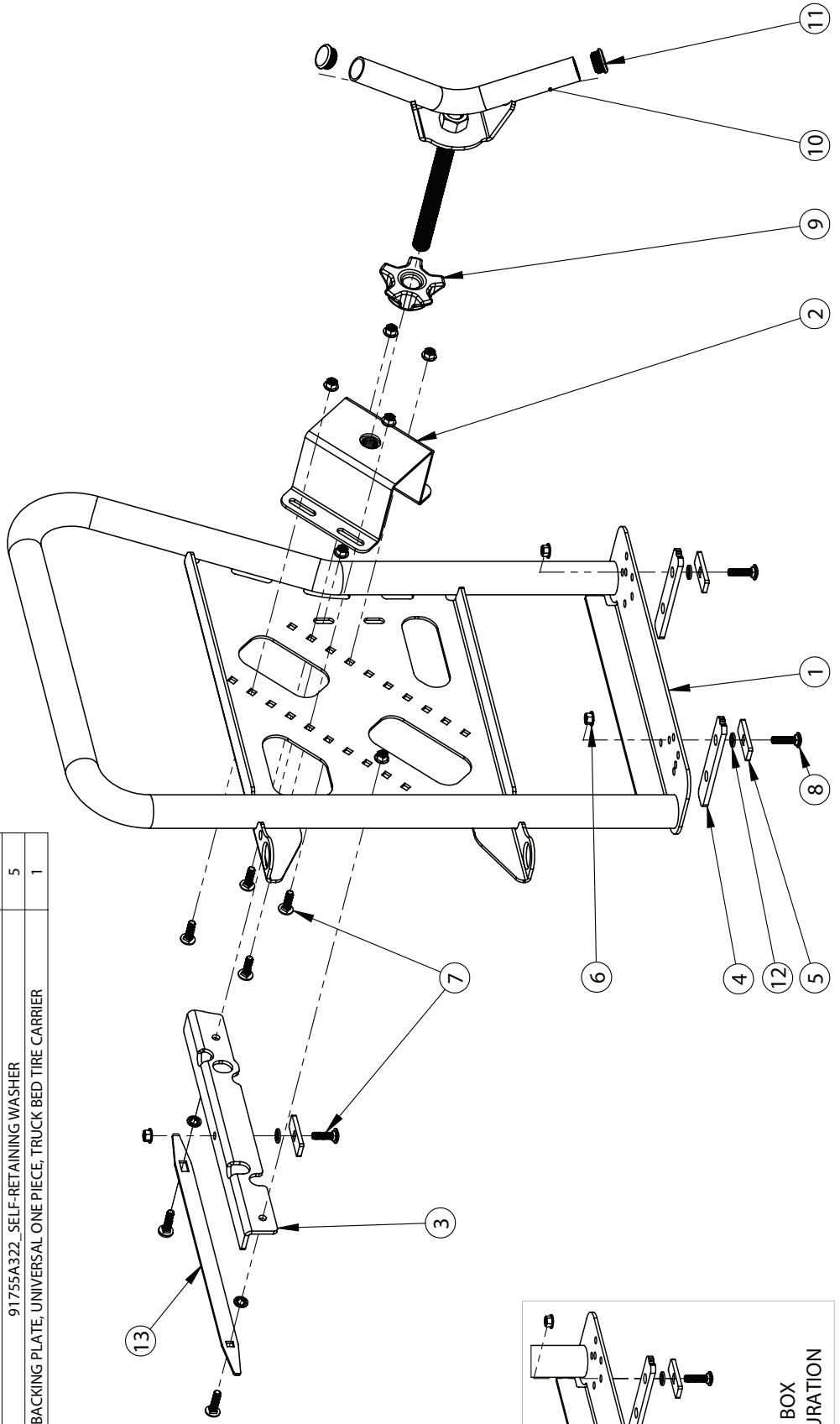
Common Hand Tools
Drill
1/2" Drill Bit
5/16" Drill Bit
Center Punch
Deburring Tool
Rust Preventative such as Permatex Rust Treatment



VERTICAL TIRE MOUNT

RAM TRUCK

ITEM NO.	PartNo	DESCRIPTION	QTY
1	ACPR1032AC	WELDMENT, TRUCK BED TIRE CARRIER, TUBE, FULL SIZE	1
2	ACPR1033AB	WELDMENT, TRUCK BED TIRE CARRIER, CENTER BRACKET	1
3	ACPR1024AB	BRACKET, TRUCK BED TIRE CARRIER, UPPER RAM	1
4	ACPR1025AB	SPACER, TRUCK BED TIRE CARRIER, BOTTOM RAM	2
5	ACPR1037AA	PLATE, TRUCK BED TIRE CARRIER, BACK	3
6	AEV93036AA	M10 X 1.5 FLANGE NUT, NON LOCKING CLASS 10.9 (PS11036-BLACK)	9
7	98930A217	M10 X 1.5 X 35 CARRIAGE BOLT, CLASS 8.8	5
8	B-98930A219	M10 X 1.5 X 40 CARRIAGE BOLT, CLASS 8.8	4
9	ACPR1029AA	BUSHING, TRUCK BED TIRE CARRIER, CENTER	1
10	ACPR1035AA	WELDMENT, TRUCK BED TIRE CARRIER, RETAINER HANDLE	1
11	CCF-1 1/2-8-12	PLUG, TUBING ROUND, CCF 1-1.5-8-12	2
12	AEV93037AA	91755A322_SELF-RETAINING WASHER	5
13	ACPR1047AA	BACKING PLATE, UNIVERSAL ONE PIECE, TRUCK BED TIRE CARRIER	1



OPTIONAL RAM BOX
MOUNTING CONFIGURATION



I. SETTING UP VERTICAL TIRE MOUNT

1. Physically measure the diameter of the tire you are using. DO NOT go off the advertised size listed on the sidewall (fig. 1) ex: *37 x 12.50 Tire measures 36"*.
 - A. Divide the diameter measurement in half to calculate the radius ex: $36"/2 = 18"$.
 - B. Subtract $1/4"$ from the radius to account for material thickness of the Tire Carrier ex: $18" - 1/4" = 17\ 3/4"$

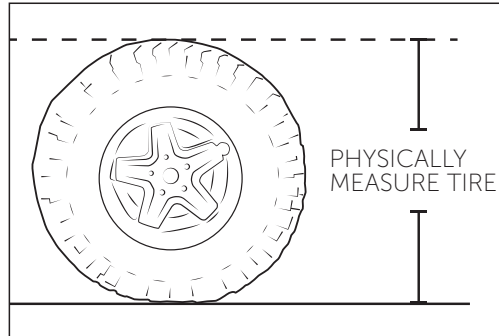


Figure 1

2. Use the final dimension from 1-B to position the Tire Mount on the Tire Carrier (fig. 2).

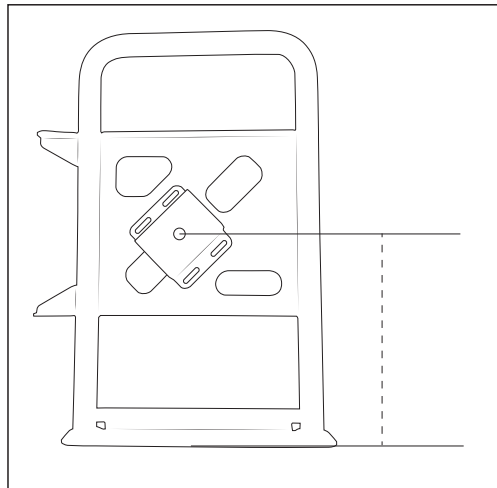


Figure 2

3. Install four M10x35 carriage bolts through the back side of the Tire Carrier. Secure with M10 nuts and tighten until snug. Some adjustment may be required, nuts will be torqued later



II. INSTALLATION

1. Place the Bulkhead Bracket into position **approximately** $10 \frac{13}{16}$ " (standard bed) or $11 \frac{1}{2}$ " (Ram Box bed) from plastic bed rail (fig. 3). NOTE: This measurement is for **REFERENCE ONLY**. Step 3 will help in final alignment.

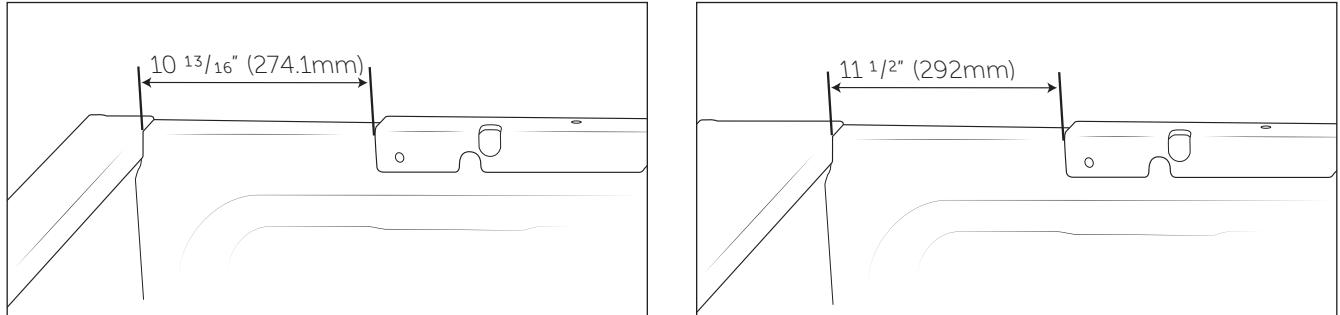


Figure 3: Standard Bed (left) Ram Box Bed (right)

2. Lift Tire Carrier into vehicle bed.
3. Place the two provided Spacers under the Tire Carrier as shown NOTE: For Ram Box beds, the notched end of the spacer should be inserted toward the bulkhead (fig. 4). Adjust the Tire Carrier position side to side to align with spacer holes. Check that the Bulkhead Bracket is aligned with the Tire Carrier and adjust as necessary. NOTE: The Spacers should be pushed all the way forward, this will locate the Tire Carrier position front to back.

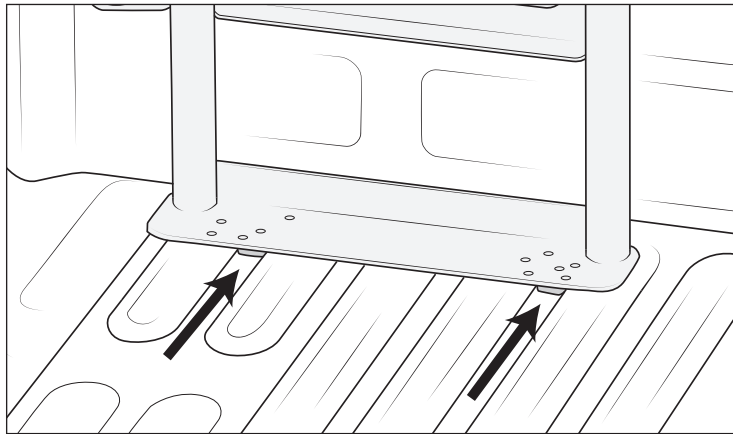


Figure 4

4. Mark two hole locations on the bed floor (fig. 5) and three hole locations on the Bulkhead Bracket (fig. 6).

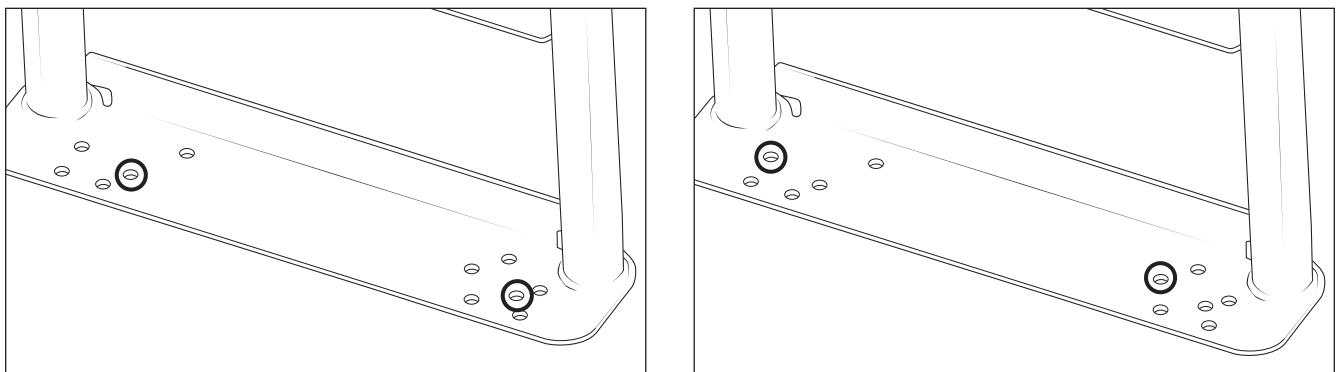


Figure 5: Standard Bed (left) Ram Box Bed (right)

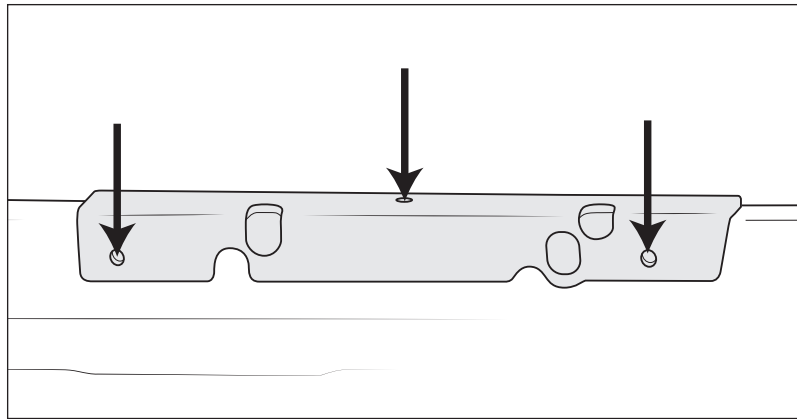


Figure 6

5. Remove Tire Carrier, center punch and drill all five holes to 1/2".
6. Deburr and prep bare metal with rust preventative.
7. Use provided fish wire to pull one M10x35 bolt and backer plate through the top hole on bulkhead. Secure with a retaining washer. Reach behind the bulkhead and align the one-piece backing plate to the face holes. Hold in place and insert two M10x40 bolts through the holes behind the bulkhead. Secure with retaining washers. Note: Fish wire is provided if you are having trouble securing the one-piece backing plate behind the bulkhead.
8. Next use the fish wire pull two M10x40 bolts and backer plates (with shank) through the bed and hold in place with retaining washers (fig. 7-right).

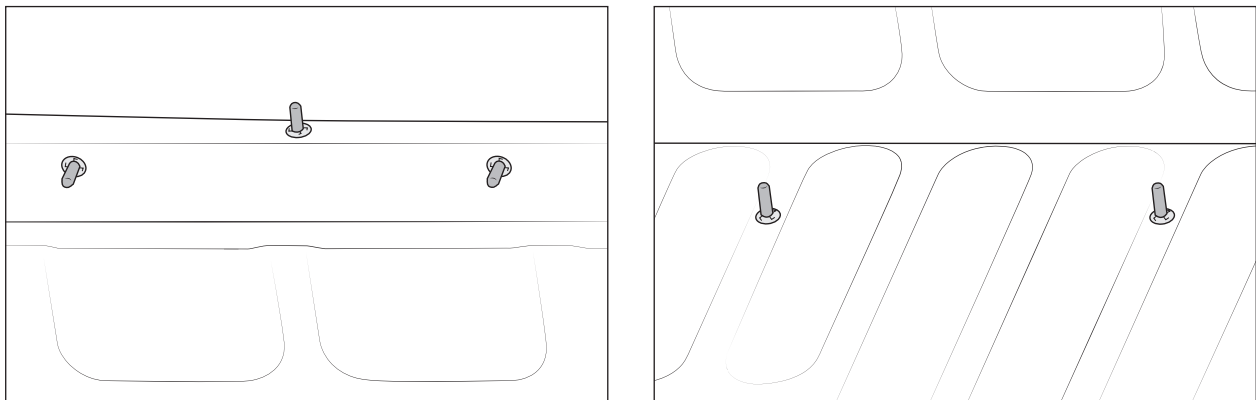


Figure 7

9. Place Bulkhead bracket into position on the three bulkhead bolts (fig. 8). Loosely install an M10 nut onto the top bolt.

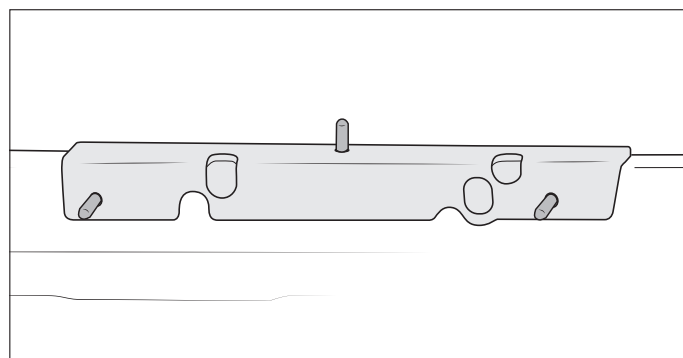


Figure 8



10. Place the Spacers and Tire Carrier into position on the two bed floor bolts and two bulkhead bolts (fig. 9). Install M10 nuts on all four bolts.

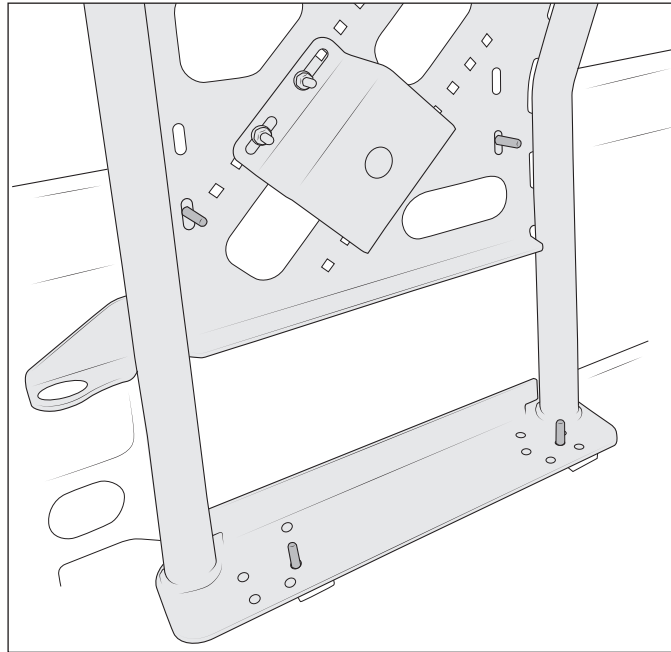


Figure 8: Standard Bed Shown

11. Torque all M10 nuts to 46 lb-ft.

III. MOUNTING TIRE

1. Slide molded spacer onto threaded portion of handle (fig. 10).
2. Install 1 1/2" end caps on to handle (fig. 10).

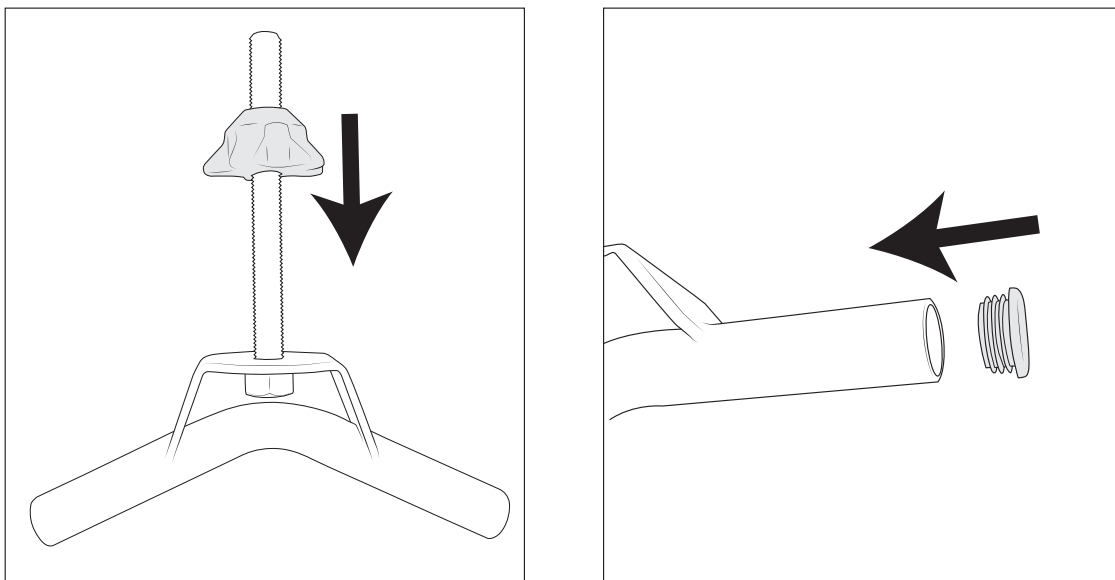


Figure 10

3. Insert handle with molded spacer through spare tire and thread into the Center Bracket until tight.
NOTE: DO NOT HOLD TIRE IN AIR. If the spare tire is not resting on the bed of the truck, adjust the Center Bracket to sit lower on the Tire Carrier (See Section I).



IV. TIPS FOR INSTALLING WITH A BED CAPS, TOPPERS, ETC.

NOTE: Installation may vary between brands and styles. An ARE brand bed topper was used for the purpose of these instructions and this is only meant as a guide for possible installation with other equipment.

1. Install the Vertical Tire Mount (VTM) per instructions with the elimination of the single vertical bolt through the Bulkhead Bracket, or remove this bolt if previously installed.
2. Remove the VTM leaving all of the M10 bolts in place (hold with retaining washers).
3. Install the bed cap, topper, etc.
4. If the bed cap has a fiberglass flange on the bulkhead that reaches into the bed area it will need to be trimmed (fig. 11). Place the VTM's Bulkhead Bracket into position and mark where the fiberglass flange needs to be cut.

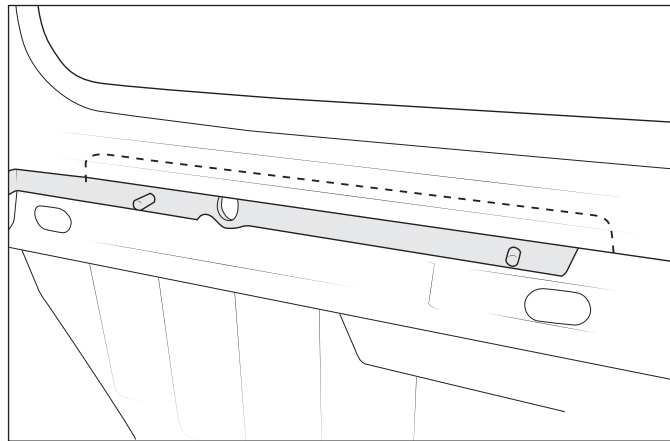


Figure 11

5. Gently peel back the carpet (if equipped) and trim the fiberglass flange so the VTM can be installed as designed. Glue carpet into new position and trim as necessary.
6. Install VTM per instructions.
7. The spare tire must sit flush against the bedside. Temporarily place tire into position and mark the inside flange of the bed cap where the tire makes contact (fig. 12).

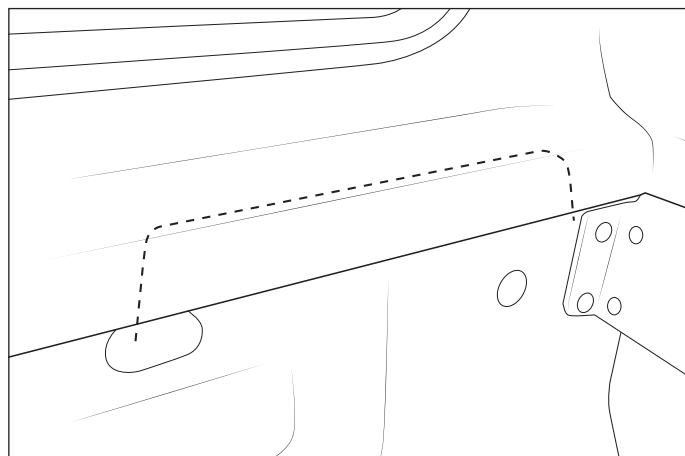


Figure 12

8. Trim the fiberglass flange as in step 5.