



# Ram 3500

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## 5<sup>th</sup> Wheel Prep Kit

MOPAR®

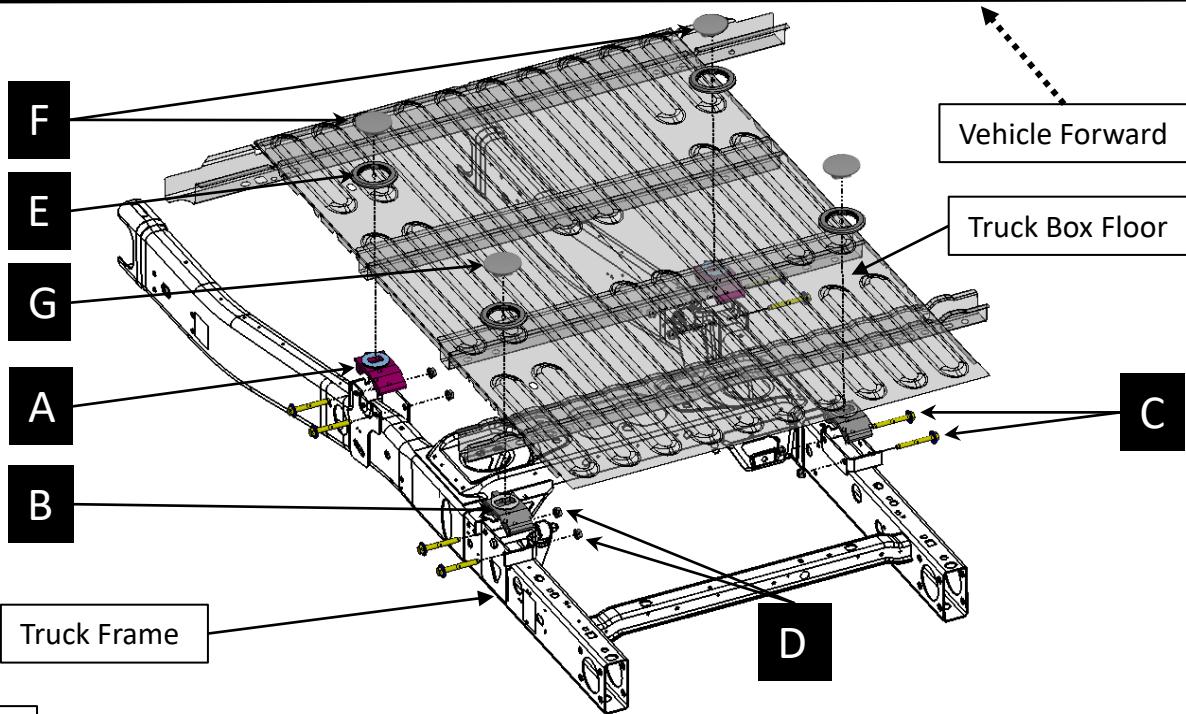
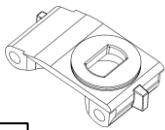


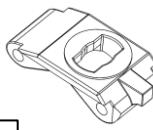
Figure 1

Front 5<sup>th</sup> Wheel Mount



A 2x 68349561AB

Rear 5<sup>th</sup> Wheel Mount



B 2x 68349563AB

Bolt M14-1.5x120mm



C 8x 06105118AA

Flange Nut M14-1.5



D 8x 06104712AB

Trim Ring – 5<sup>th</sup> wheel mount



E 4x 124031

Trim Cover – 5<sup>th</sup> wheel mount - front



F 2x 124032

Trim Cover – 5<sup>th</sup> wheel mount - rear



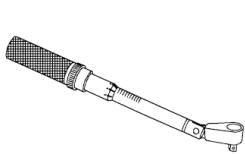
G 2x 124033

## Tools Required

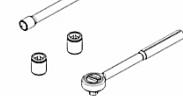
Safety Eyewear



Torque wrench



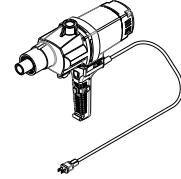
21mm socket, extension, Ratchet



21mm Wrench

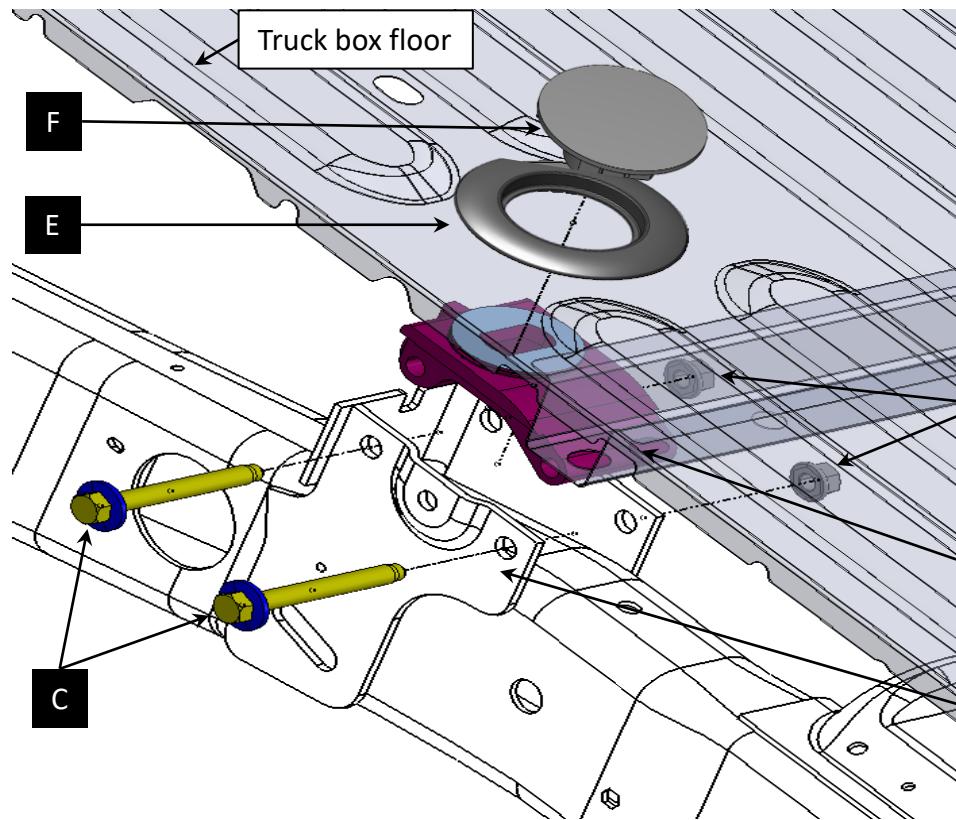


Drill motor



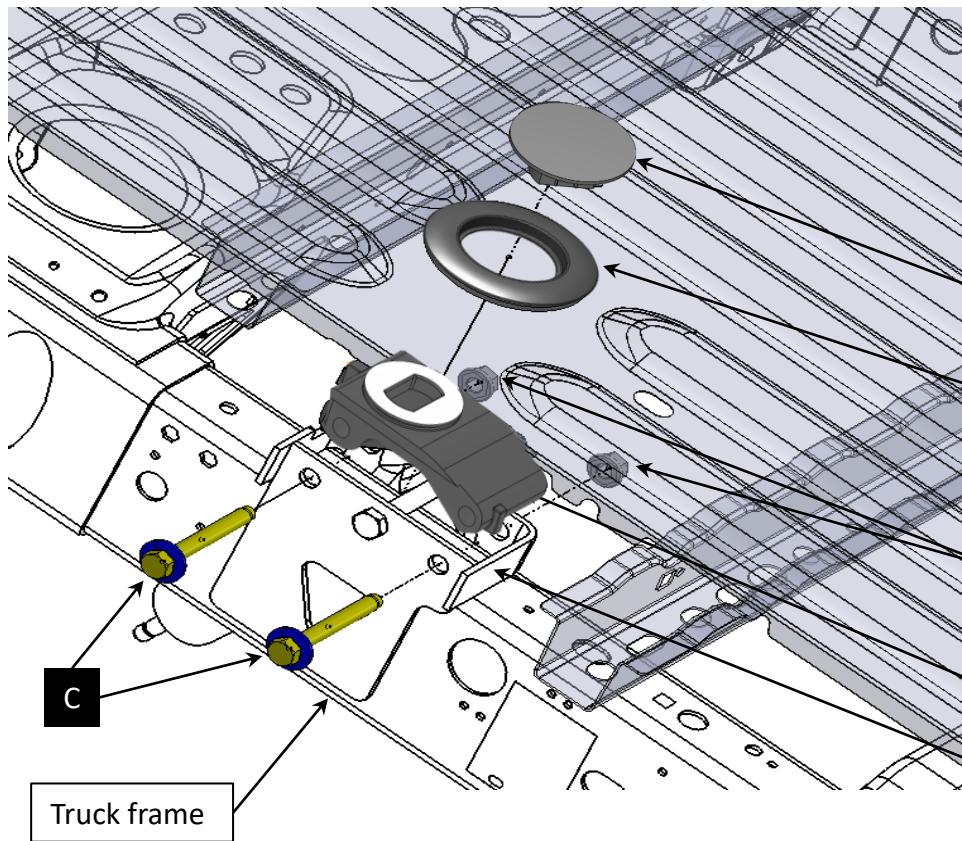
3 ¾" Hole saw





**Figure 2**  
Front 5<sup>th</sup> wheel mount

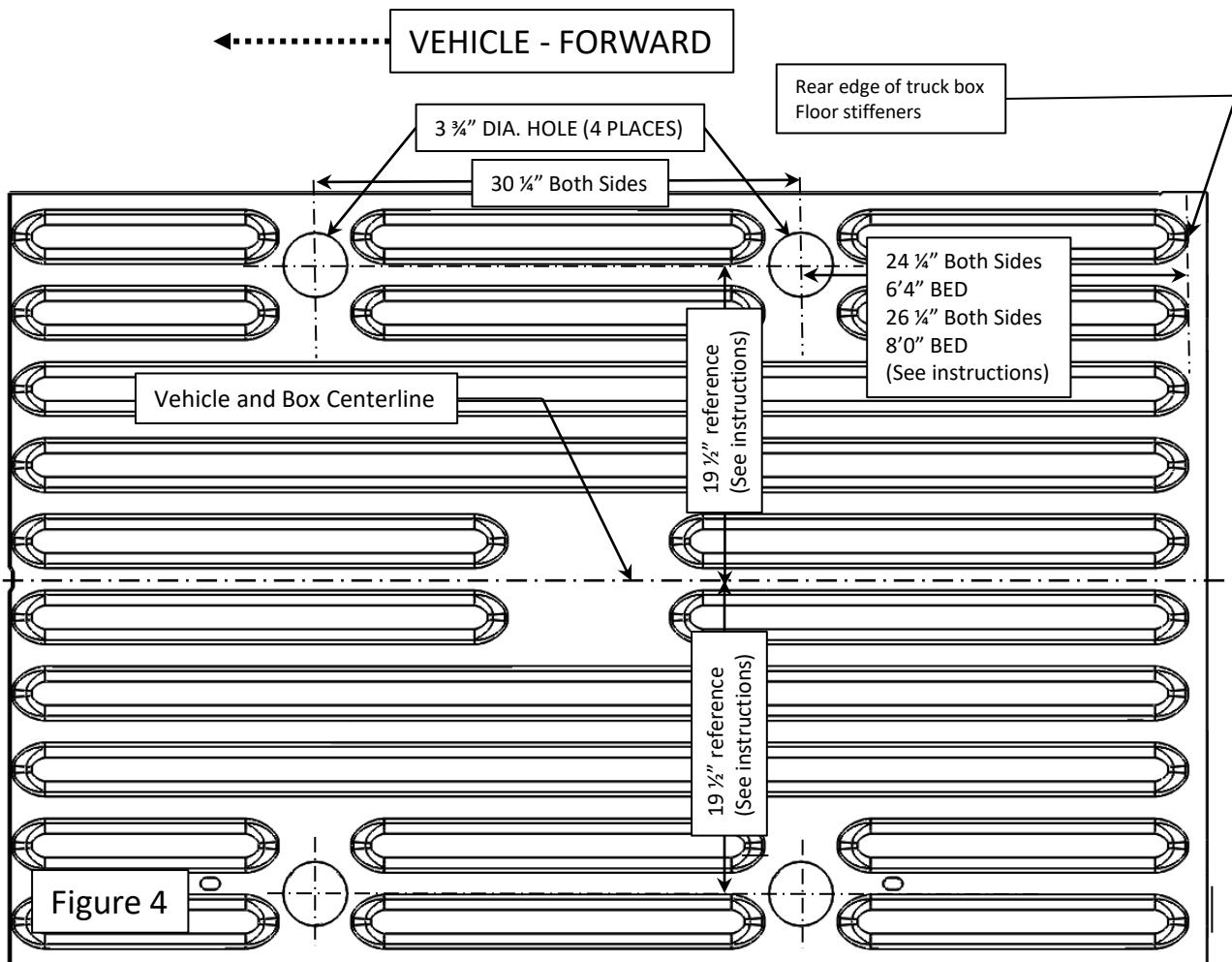
**Note: Assembly typical both sides**



**Figure 3**  
Rear 5<sup>th</sup> wheel mount

**Note: Assembly typical both sides**

Note: check hitch frequently, making sure all fasteners and ball are properly tightened. A hitch or ball which has been damaged should be removed and replaced. Observe safety precautions when working beneath a vehicle and wear eye protection. Do not cut access or attachment holes with a torch.



#### Installation Instructions:

##### **Step A - 5<sup>th</sup> wheel mount installation**

- 1) Review and familiarize yourself with all components (Fig. 1). Verify all components are supplied.
- 2) Safely block vehicle and work in a safe manner.
- 3) Remove spare tire.
- 4) Working from one side of the vehicle, remove all the truck box bolts (3 bolts on the 6'4" box, 4 bolts on the 8 ft box) holding truck box to vehicle frame (PASSENGER SIDE ONLY). Loosen but leave in place the bolts holding the driver's side of the truck box. This is done to maintain box alignment. Lift and block side of truck box approx. 6". Check to assure no wires, fuel filler or other items attached to the box are stressed. Check also to assure there is clearance between the front of the box and rear of the cab. Finally check for clearance between the rear of the truck box and rear bumper.
- 5) Install part 'A' 5<sup>th</sup> wheel receiver front in frame bracket as shown in (Fig. 2), **NOTE ORIENTATION**.
- 6) Install part 'B' 5<sup>th</sup> wheel receiver rear in frame bracket as shown in (Fig. 3), **NOTE ORIENTATION**.
- 7) Fasten casting (both sides) through the frame bracket carrier using (2) M14-1.5x120mm bolts and (2) M14-1.5 nuts (parts 'C' & 'D'). (Fig. 2)
- 8) At this step, both 5<sup>th</sup> wheel receivers on one side of the vehicle should be in place with fasteners loosely installed
- 9) Torque bolts holding the tiedown receiver to 136 Lb.-Ft. (185 N\*m)
- 10) Lower the passenger side truck box onto the frame and loosely install the bolts removed in step 4.
- 11) Remove the truck box hold down bolts from the driver's side of the truck box. Lift and block the driver's side of truck box approx. 6"
- 12) Repeat steps 5, 6, 7 & 9 on the driver's side of vehicle
- 13) Lower the truck bed onto the frame. Install and torque truck bed hold down bolts to specification (See RAM service manual for torque specs.)

Note: check hitch frequently, making sure all fasteners and ball are properly tightened. A hitch or ball which has been damaged should be removed and replaced. Observe safety precautions when working beneath a vehicle and wear eye protection. Do not cut access or attachment holes with a torch.

## **Step - B Drill Holes in truck box floor**

When installing the 82215837AC 5<sup>th</sup> Wheel prep kit, 4 holes must be drilled in the bed of the truck. It is critical that these directions are followed.

### **Rear 5<sup>th</sup> wheel mounts :**

- 14) From inside the box, mark the centerline of the box. Use chalk or some other temporary marking method. For 6'4" beds, measure and mark a spot 24  $\frac{1}{4}$ " (616mm) forward of the rearmost edge of the truck box floor stiffeners . For 8'0" truck beds, measure 26  $\frac{1}{4}$ " (667mm) forward of the rearmost edge of the truck box floor stiffeners .Strike an additional line 90 degrees to the spot marked. (See Fig. 4)
- 15) Measure outward in both directions, along the line you marked in the previous step, 19  $\frac{1}{2}$ " (495mm). You should have two targets marked (See Fig. 4)
- 16) Drill  $\frac{1}{4}$ " pilot hole two (rh & lh) places where you marked the center of the rear 5<sup>th</sup> wheel mounts.

### **Front 5<sup>th</sup> wheel mounts:**

- 17) From inside the box, using the previously marked centerline of the box, mark a spot 30  $\frac{1}{4}$ " (768mm) forward of the line used for the rear 5<sup>th</sup> wheel mounts in  $\frac{1}{4}$ " pilot holes drilled. Strike an additional line 90° (degrees) to the spot marked.(See Fig.4)
- 18) Measure outward in both directions, along the line you marked in the previous step, 19  $\frac{1}{2}$ " (495mm). You should have four targets marked (See Fig. 4)
- 19) Drill  $\frac{1}{4}$ " pilot hole two (rh & lh) places where you marked the center of the front 5<sup>th</sup> wheel mounts.
- 20) You should now have 4,  $\frac{1}{4}$ " holes drilled in the truck box floor.

**CHECK YOUR WORK!** From the top of the bed, verify that the  $\frac{1}{4}$ " holes match the dimensions and appearance of Fig. 4. THIS IS YOUR LAST CHANCE to make adjustments before drilling the large 3  $\frac{3}{4}$ " holes in your truck bed.

- 21) Drill four (2 lh & 2 rh) 3  $\frac{3}{4}$ " holes using a hole saw. Use the  $\frac{1}{4}$ " pilot hole as a guide (Fig.4)

**CHECK YOUR WORK!** From the top of the bed, verify that the holes in the bed align with 5<sup>th</sup> wheel mount receivers. Some slight adjustment of the truck box is possible. If there is a slight misalignment, install the appropriate trim ring and mark the outside perimeter of the ring on the truck box floor. Remove the trim ring. It is permissible to grind the opening if needed to within 1/8" of the marked outside trim ring perimeter.

- 22) Use rust inhibitor or equivalent primer paint on raw edges of drilled holes. Paint as desired to match truck color.

## **Step - C Trim rings and covers installation**

- 23) Trim rings- Press trim rings (items E) into holes on floor. Trim rings should snugly fit around castings with the lip of the trim ring tight to the floor. It may be necessary to use a flat bladed tool to assist in fitting trim rings around the castings. Use flat bladed plastic trim tool, tongue depressor, plastic serving knife or similar item. Use of a sharp tool or flat blade screwdriver may damage the trim ring.
- 24) Trim covers - Press trim covers (parts F & G) into trim ring holes on floor. Trim covers should snugly fit inside the trim rings. **NOTE: Trim covers are not the same:** There are (2) covers for the front 5<sup>th</sup> wheel mount and (2) covers for the rear 5<sup>th</sup> wheel mount.
- 25) **Re-Assemble your truck – Check all fasteners for proper torque,** re-install spare tire, re-connect any wires, hoses or anything else that may have been loosened or removed. Check to assure all wires, hoses and other components have not been pinched between box and frame.

Tighten all (8) M14 bolts with torque wrench to 136 Lb.-Ft. (185 N\*m)

Note: check hitch frequently, making sure all fasteners and ball are properly tightened. A hitch or ball which has been damaged should be removed and replaced. Observe safety precautions when working beneath a vehicle and wear eye protection. Do not cut access or attachment holes with a torch.