



Ram 2500

MOPAR®

Gooseneck Prep Kit

1

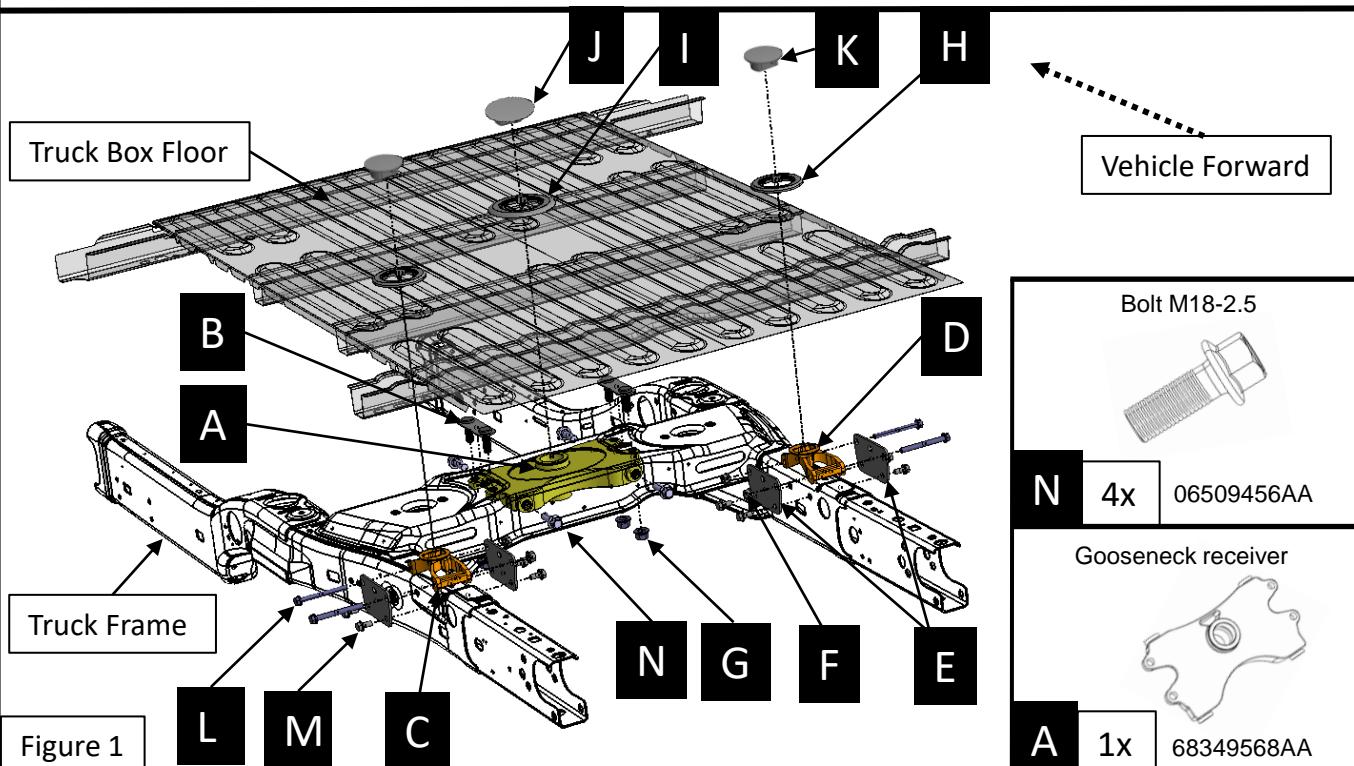


Figure 1

Gooseneck mounting strap



B 2x 68366718AA

Chain tiedown receiver - LH



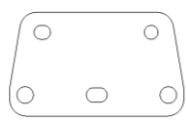
C 1x 68195992AC

Chain tiedown receiver - RH



D 1x 68171176AC

Chain tiedown mtg bracket



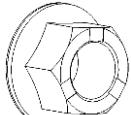
E 4x 68186442AA

Flange Nut M12-1.5



F 4x 06104718AA

Flange Nut M18-2.5



G 4x 06512099AA

Trim Ring – Chain Tiedown



H 2x 124031

Trim Ring – Gooseneck Ball



I 1x 124029

Trim Cover – Gooseneck Ball



J 1x 124030

Trim Cover – Chain Tiedown



K 2x 124033

Bolt M12-1.5x120mm



L 4x 06104247AA

Bolt M12-1.5x20mm



M 8x 06104233AA

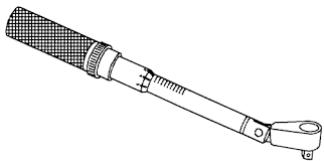
Tools Required

2

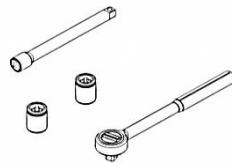
Safety Eyewear



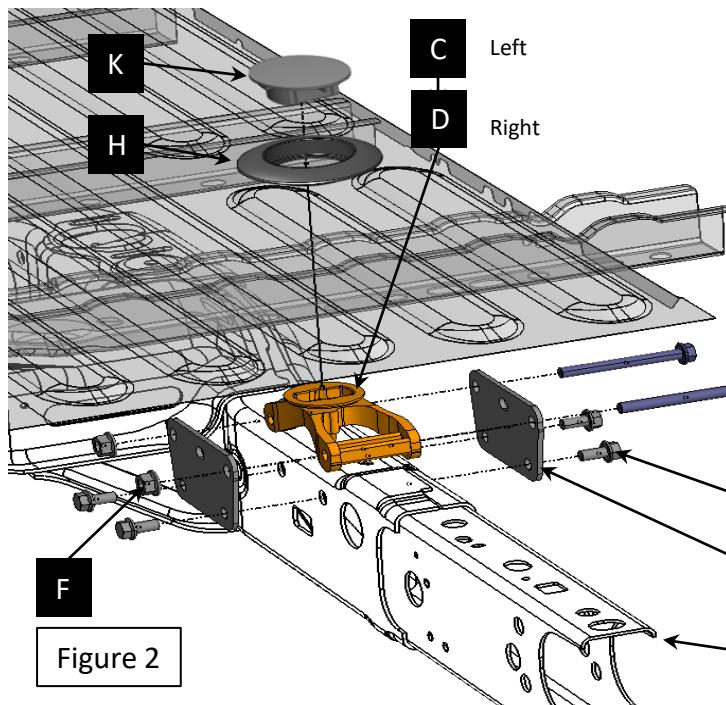
Torque wrench



18mm, 24mm sockets
6" Ratchet extension, Ratchet



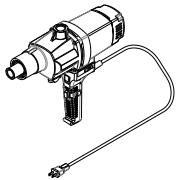
18mm, 24mm wrench



Note: Assembly
typical both sides

Vehicle Forward

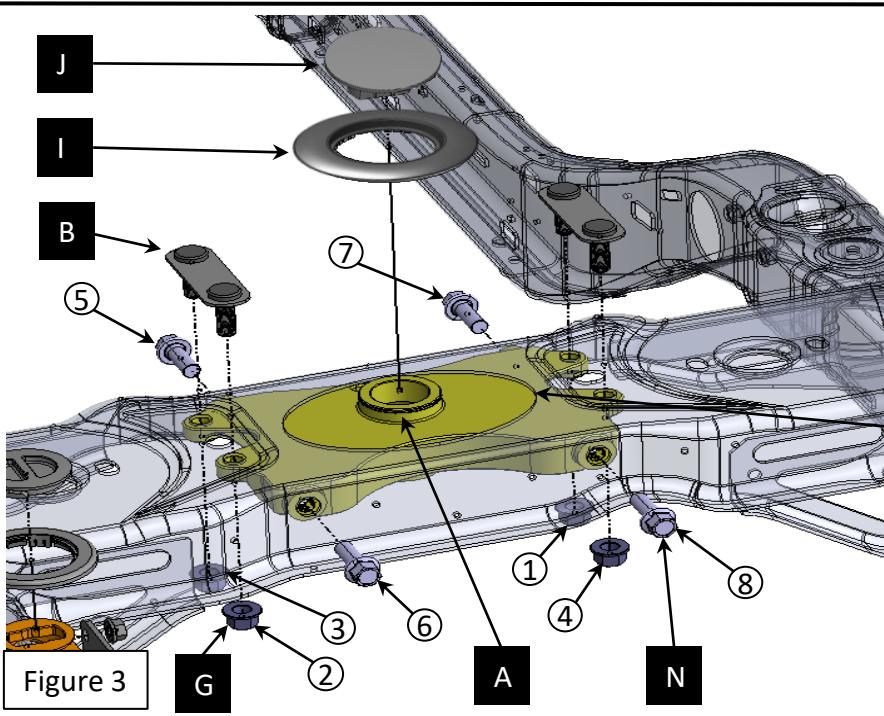
Drill motor



3 ¾" & 4" hole saws



Figure 2



(Truck box removed for clarity)

Vehicle Forward

Gooseneck hole

Figure 3

Note: The numbers shown in Fig. 3 starting from 1-8 are the sequential bolting order on the gooseneck head.

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.

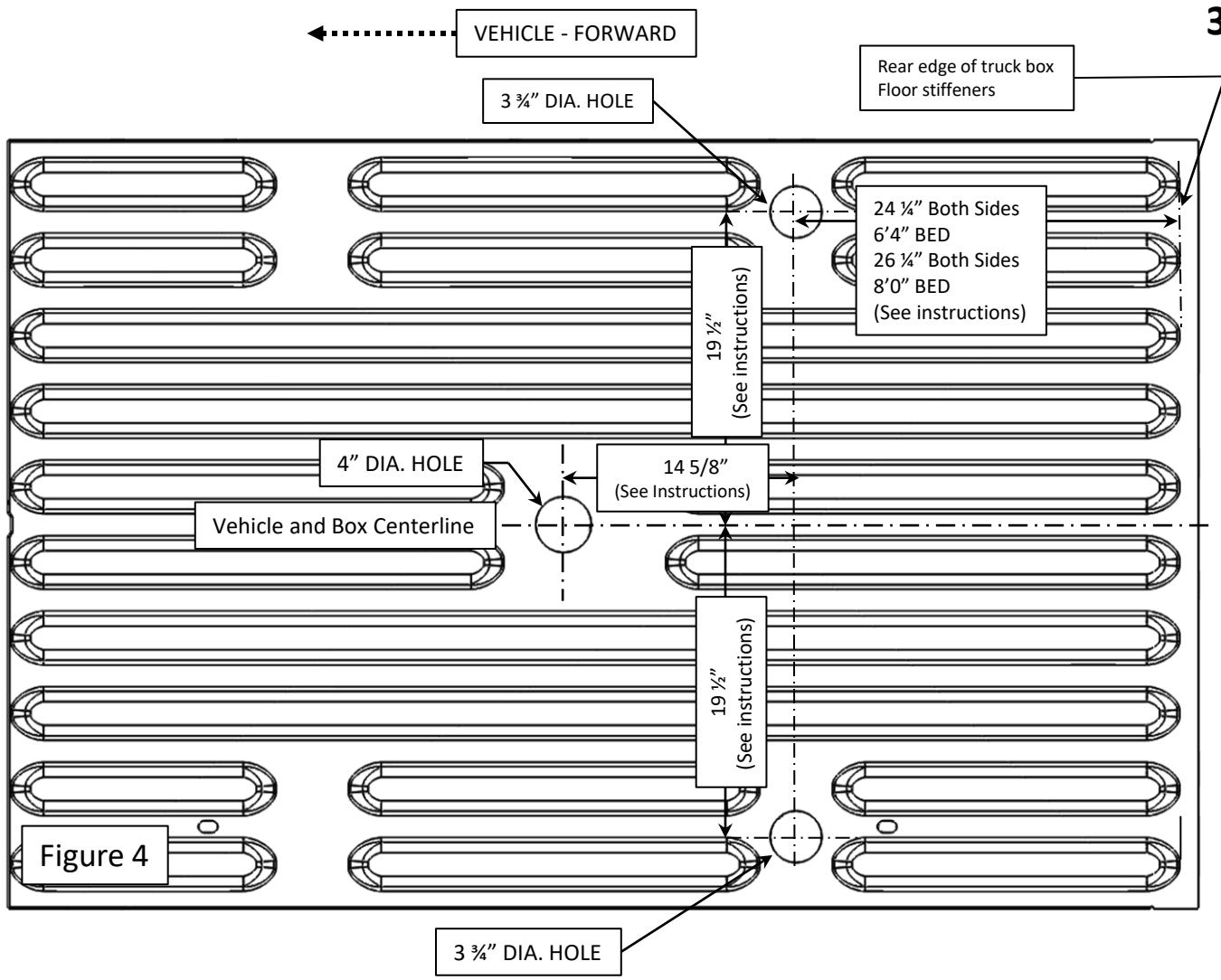


Figure 4

Installation Instructions:

Step A - Chain tiedown receiver 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) Remove rear and mid-location (6 bolts on the 6"4" box, 8 bolts on the 8 ft box) bolts holding truck box to vehicle frame. Loosen but leave in place the front two bolts. This is done to maintain box alignment. Lift and block rear 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) Loosely install part 'E' plates to inside and outside of each frame rail, using (4) part 'M' fasteners into weld nuts in frame. (as shown in Fig. 2)
- 6) Install part 'C' (LH) and 'D' (RH) chain tiedown receivers between plates 'E' in frame as shown in (Fig. 2).
- 7) NOTE: ORIENTATION.
- 8) Fasten chain tiedown receivers (both sides) through plates 'E' using (2) M12-1.5x120mm bolts and (2) M12-1.5 nuts (parts 'L' & 'F').
- 9) At this step, both chain tiedown receivers should be in place with all fasteners loosely installed.
- 10) Torque all bolts to 90 Lb.-Ft. (125 N*m)
- 11) Ensure the truck box does not shift when entering for next steps.

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 82215840AB Gooseneck prep kit, (3) holes must be drilled in the bed of the truck. It is critical that these directions are followed.

- 12) 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)
- 13) 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)
- 14) Drill $\frac{1}{4}$ " pilot hole two (rh & lh) places where you marked the center of the chain tiedown receivers.
- 15) From inside the box, using the previously marked centerline of the box, mark a spot 14 5/8" (371.5mm) forward of the line used for the chain tiedown receivers.
- 16) Drill a $\frac{1}{4}$ " pilot hole on this marked spot for the gooseneck center receiver.
- 17) You should now have 3, $\frac{1}{4}$ " 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 $\frac{3}{4}$ " & 4" holes in your truck bed.

- 18) Chain tiedown receiver - Drill 3 $\frac{3}{4}$ " holes in the two places for where you drilled the two $\frac{1}{4}$ " pilot holes in step 14.
- 19) Gooseneck receiver - Drill a 4" hole using a hole saw. Use the $\frac{1}{4}$ " pilot hole drilled in step 16 as a guide.
- 20) Use rust inhibitor or equivalent primer paint on raw edges of drilled holes. Paint as desired to match truck color.

Step C - Gooseneck receiver installation

- 21) Install (2) gooseneck mounting straps (part 'B') through the two holes in vehicle frame cross member (See Fig. 3).
- 22) From beneath vehicle frame, insert gooseneck ball receiver casting through the (4) bolts from part 'B' gooseneck mounting straps.
- 23) Follow the sequential bolting order starting from 1 to 8 shown in Fig. 3 - Install first (4) M18-2.5 nuts (part 'G') on vertical threaded bolts (part 'B') following 1-2-3-4 bolting order and then Install (4) M18-2.5 bolts (part 'N') following 5-6-7-8 bolting order that runs horizontally through the vehicle cross member to the gooseneck module receiver. Torque all M18 bolts and nuts to 332 Lb.-ft. (450 N*m).
- 24) Lower rear of truck bed back on frame of vehicle.

CHECK YOUR WORK! From the top of the bed, verify that the holes in the bed align with the gooseneck ball receiver and chain tiedown 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.

- 25) Torque truck bed hold down bolts to specification (See RAM service manual for torque specs.)
- 26) Reinstall spare tire, verify that all wires, fuel fill and any other box to frame components have not been pinched or otherwise disturbed.

Step D - Trim rings and covers installation

- 27) Trim rings- Press trim rings (items H & I) 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 a plastic trim tool or similar item. Use of a sharp tool or flat blade screwdriver may damage the trim ring. **NOTE: Trim rings are not the same:** There are (2) rings for the chain tiedowns and (1) ring for the gooseneck receiver.
- 28) Trim covers - Press trim covers (parts J & K) 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 chain tiedowns and (1) cover for the gooseneck receiver.

Tighten all (12) M12 bolts with torque wrench to 90 Lb.-Ft. (125 N*m).

Tighten all (8) M18 bolts with torque wrench to 332 Lb.-Ft. (450 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.