

INSTRUCTIONS for RAIL RACK and RAIL RACK II

WARNING: Do NOT attempt to install or use this rack without following all instructions.

SPECIFICATIONS and SAFE LOADING REQUIREMENTS

These instructions are intended for use only upon the pickup trucks that have conventional fleetside bedrails (for these use Rail Rack model 2007-2U) or that have bedrail track systems such as the Nissan Utili-track, Toyota Deckrail, or Dodge, Ford or GM utility track systems (for these use model 2007-2TRA). Both models of this rack are designed to carry ladders, boats, canoes, kayaks, lumber, or other cargo not exceeding 400 lbs. If you have purchased a Rail Rack II with over-cab extension, the total distributed load rating increases to 500 lbs. and the instructions beginning on page 6 also apply.

This rack is designed to carry loads, which are spread across the width of the crossbar and shared evenly between the front and rear crossbars. It is not designed to carry loads where a force of over 150 lbs. is concentrated on any space less than 12 inches wide along either crossbar or where a force of over 200 lbs overall is loaded on either crossbar. This product is not warranted for use off-road or on unimproved or poorly maintained or bumpy roads. All loads must be tied down securely to the rack to prevent them from vibrating or sliding forward, backward, laterally or being blown off or broken by wind. The manufacturer does NOT warranty any automotive product and does not warranty truck bed rails against damage caused by the weight of excessive loads being applied to them when the rack is installed on a vehicle. **The manufacturer is not responsible for injury or property damage resulting from the rack being improperly installed or improperly loaded, nor is it responsible for injury or property damage resulting from loads or parts of loads falling or being blown off a vehicle.** Loads extending beyond the rear bumper of the vehicle must be designated with a red flag during daylight or red light during darkness in accordance with the state vehicle code. Whenever this rack is mounted on your truck, ensure the tailgate is up.

BE SAFE: Carrying any load can be hazardous. Make sure all parts of all loads are securely tied down against unexpected winds and vibrations caused by road hazards such as potholes. Check each time you install the rack, load the rack, as well as daily to ensure that all connections are tight. Avoid roll over. As with all racks, ensure that loads are not top-heavy. Loads should be placed so that the center of mass of the load is no closer than 24" from the sides of the rack. High loads must be transported with GREAT CAUTION to prevent loads from striking low overhead objects and from tipping during turns, abrupt stops, or high winds.

INVENTORY

Your safety is paramount. Before assembling the rack, inventory and inspect all parts. Visually check each part to ensure it corresponds to the inventory list and check all welds for signs of cracking or weakness. If you do not have all the correct parts or if any parts appear to be defective, STOP! Do NOT install the rack.

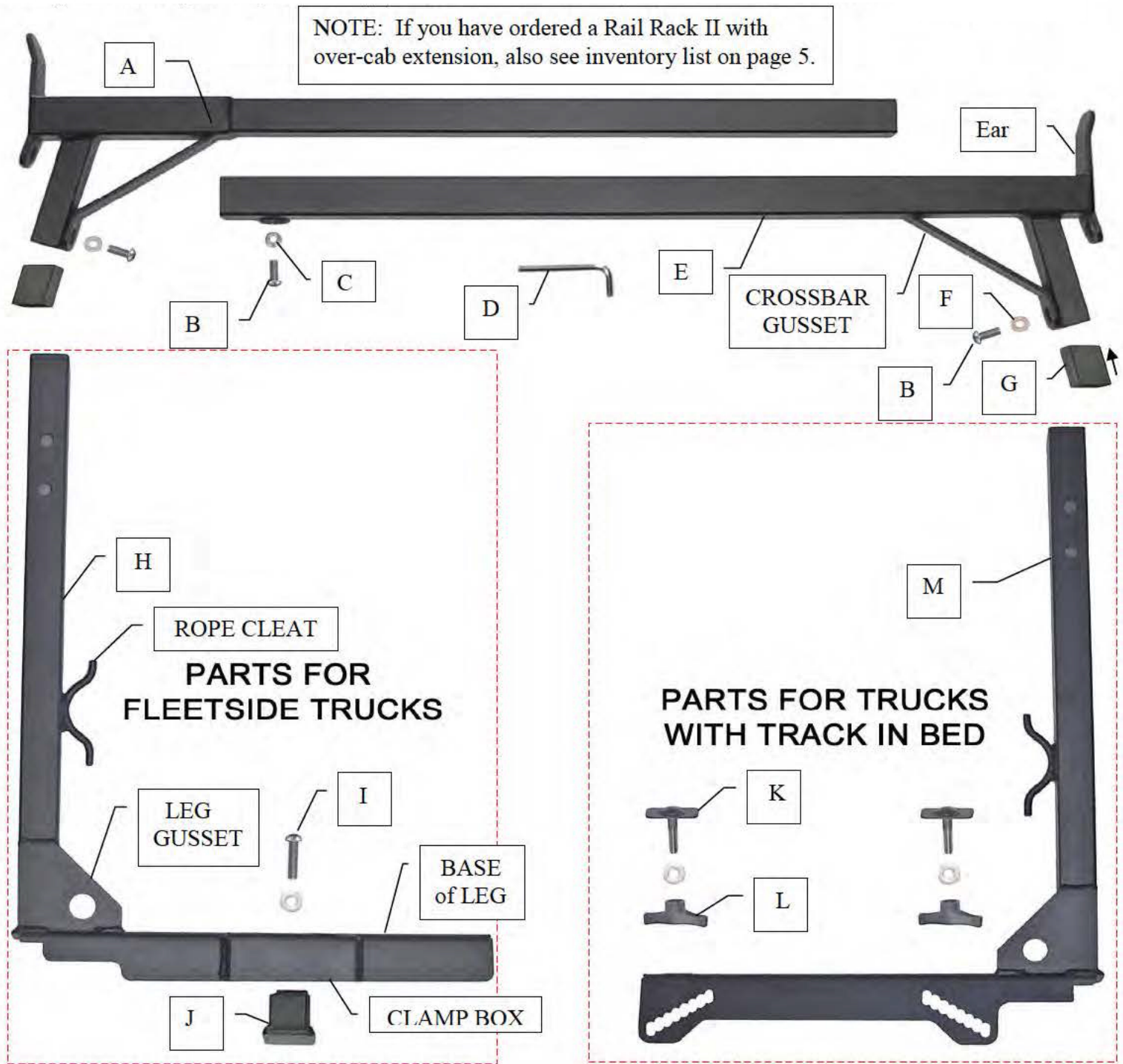


Fig. 1

The Rail Rack consists of these parts:

- | | |
|---|---|
| <ul style="list-style-type: none"> A. Male Crossbar (x2) C. 3/8-16 flange (jam) nut (x2) E. Female Crossbar (x2) G. Leg Extender Ring (x4) I. 3/8-16 x 1.75" button head cap screw (x4) K. Track Insert M. Leg for Bed with Track (x2 right and x2 left) | <ul style="list-style-type: none"> B. 3/8-16 x 1" button head cap screw (x6) D. Allen wrench F. 3/8 x 7/8 metal washer H. Leg for Fleetside Beds (x2 right and x2 left) J. Clamp Bottom (x4 for racks with clamp box) L. Nylon (Plastic) Locking Knob |
|---|---|

NOTE THAT SCREWS AND SMALL PARTS MAY BE FASTENED TO OTHER PARTS

ASSEMBLY

Read ALL instructions through once BEFORE you do anything!



1. **Assemble Crossbars** after you have inventoried and inspected all parts. Examine the male side (A) and female side (E) of the Crossbars. Insert the male side into the female side so both gussets are on the bottom as shown in Fig. 2. Referring to Fig. 1, if you have a truck with an extra tall cab (over 24" high above the bedrail), place the Leg Extender Ring (G) on the tube projecting down from each Crossbar so that the top of the ring sits flat on the bottom of the Crossbar.

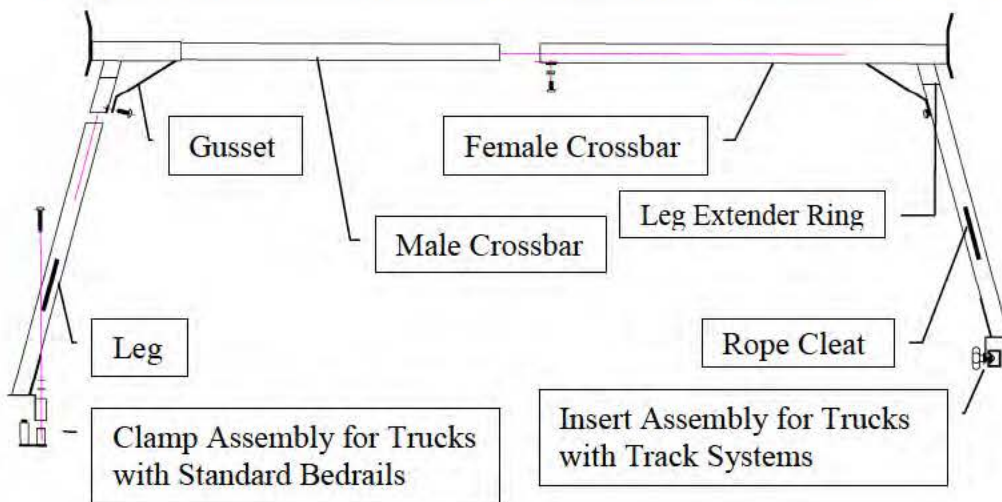


Fig. 2



Fig. 3

2. **Attach Crossbars to Legs.** Pick up and examine the Legs (H or M). The Legs are mirror images of each other. Notice that there are two holes at the top of each Leg. Slide a Leg onto the tube projecting down from each Crossbar as far as it will go. Align the hole in the bottom of the gusset with the top hole in the Leg if you have added the Leg Extender Ring or the bottom hole in the Leg if you have not. Ensure that the bases of both Legs point in the same direction. Place a washer onto a 1-inch long screw, push it through the hole in the bottom of the gusset, and screw it into the threaded hole in the Leg. Attach the Legs securely to the Crossbars by tightening the screws firmly with the Allen wrench as shown in Fig. 3.

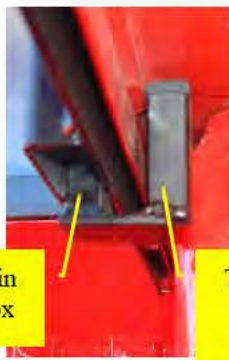
INSTALLATION

3. **Place the Rail Rack onto Bedrails.** Park your pickup truck in a safe and level place and lower the tailgate. Pick up one Rail Rack assembly (assembled Crossbar and two legs) and step carefully up into the bed and approach the front of the bed. Slide the sides of the Crossbar together or apart until the bases of the Legs are about as far apart as the bedrails of the truck. Orient the bases of the Legs so that the long ends point toward the tailgate and place the bases on the bedrails so the vertical portion of each Leg is at the front corners of the truck bed.
4. **If you have a Truck with Conventional Fleetside Bedrails, Clamp the Rack to the Bedrails.** For this installation as shown in Fig. 1 you should have Rail Rack Model 2007-2U and you should have parts H, I and J and NOT parts K, L and M. After placing the rack on the bedrails so that the vertical face of each base is in contact with the inside lip of the bedrail, examine the clamp box on each base and notice that the bottom of the box is completely open and the top has three holes. Any of these holes can be used to screw the Clamp Bottom (J) into the box. Examine the Clamp Bottom and notice that it is shaped like a "U". To clamp the rack to the bedrail, insert the side of the Clamp Bottom with the threaded hole up into the bottom of the clamp box while simultaneously inserting the side with the rubber top up behind the lip of the bedrail. After applying grease, place a metal washer on a 1.75" button head cap screw (I) and insert it into one of the holes in the top of the box. Align the screw with the Clamp Bottom and screw it into the threaded hole. Use the Allen wrench to tighten the screw into the threads until the rubber top makes contact with the bottom of the bedrail. Tighten the screw firmly enough so that the rack cannot move on the bedrail, but not so firmly that the threads or Allen wrench are stripped. When completed, the assembly should appear as shown in Figs. 4, 5, and 6.



This side in
Clamp Box

Fig. 4



This side
behind
Bedrail

Fig. 5

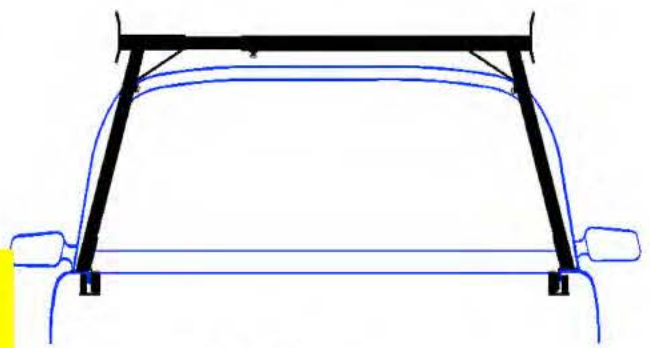


Fig. 6

5. **If you have a Truck with a Track System, Attach the Rack to the Track.** For this installation you should have Rail Rack Model 2007-2TRA or Model 2007-2FRT. Your rack should NOT have a clamp box on the base and you should have parts K, L and M NOT parts H, I, and J. Slide two Track Inserts (K) into the back end of each bedrail track and push them to where the rack is positioned. Pull the base of the rack away from the lip of the bedrail just enough to push the inserts along the track so they pass behind the vertical face of the base. Align both inserts with the scalloped holes and then push the base of the rack back against the bedrail so that the threaded end of each Insert passes through the holes. Each Insert should be placed into the highest position into which it can fit, and that will also allow it to remain level when seated in the hole. After both Inserts are set into the holes on one side of the rack, place a metal washer on the end of each insert and then screw a plastic Locking Wing Knob on the end and tighten. Repeat the installation process on the other side of the rack and install the rear section in the same way.
NOTE: The nylon rings in these knobs are very stiff. In the first installation, after you spin the knobs several turns onto the threads of the insert you will likely encounter a lot of resistance which you can overcome with firm hand strength. After you break through the first time, it should be much easier. These knobs have a nylon ring designed to prevent them from vibrating loose, but check them frequently to ensure they do not loosen, especially when carrying a heavy load. Tighten the knobs firmly enough so that the rack cannot move on the bedrail but not so firmly that the threads are stripped. Should they ever get worn, they can be replaced with standard nylon lock nuts. The tightness of these knobs is critical to the security of your load.

1. To attach the rack to the track system, follow the steps below.
 - a. First, if your track system has a cap over the end of the track, remove the rear cap. Slide two inserts into the rear end of each track and slide them along the track until they are next to the rack as shown below.



Fig. 7



Fig. 8

- b. Next, on one side of the bed at a time pull the rack away from the lip of the bedrail about to create about a one inch wide space between the bedrail and the vertical face of the Base; slide the inserts along the track until each insert aligns with the diagonal slots in the side of the Base; then push the rack against the bedrail so the ends of the threaded inserts extend out. Place a metal washer and plastic knob on the Inserts and tighten firmly as shown below.



Fig. 9



Fig. 10



Fig. 11



Fig. 12

6. **Adjust and Lock Crossbar.** After attaching the rack to the bedrails, examine the Crossbars and notice that a threaded hole is located on the bottom of the female side of each Crossbar. This is for use with a 1-inch screw and a 3/8-16 flange nut that functions as a jam nut to set the bar. To make final adjustments to the length of the Crossbar, stand at the center and simultaneously grasp the ear at the end of each Crossbar. Pull them together with a moderate amount of force to ensure the slack has been taken out of the Crossbar. Tighten the screw firmly with the Allen wrench and then tighten the flange nut to set the Crossbar in place. The screw and nut should not be tightened so much that it deforms the crossbar or strips the threads or the wrench. If the screw loosens, the rack cannot come immediately off the truck, but the screw should be re-tightened anyway.
7. **Install the Back Section of the Rack.** Install the back section in the same manner as the front. When installed, as shown in FIG. 13, both sections of the rack should sit firmly on the bedrails without moving. Loads can be roped or strapped to the tie-downs on the side of the Legs or to the holes in the gussets at the top or the base of the Legs. Ensure that when loads are tied, the strap or rope tension is not so great as to bend or loosen parts. Road conditions, temperature and whether can affect vibration and tension on parts. The load, road, and driving conditions can affect the tension on all parts. Check tension on all threaded parts of the rack and on straps periodically to ensure they are tight.



Fig. 13

8. **Adjust height of crossbar with Rail Rack Model 2007-2U.** If you find that the height of your rack is not the height you wish, you may adjust the height by adding or removing the Leg Rings from either the front, back, or both sections of the rack. Figs. 14 thru 16 show the Crossbar with no Leg Ring, with Leg Ring partially installed, and with Leg Ring installed.



Fig. 14



Fig. 15



Fig. 16

IF YOU HAVE PURCHASED THE RAIL RACK II, USE THE BELOW INSTRUCTIONS TO INSTALL THE RAIL RACK EXTENSION KIT

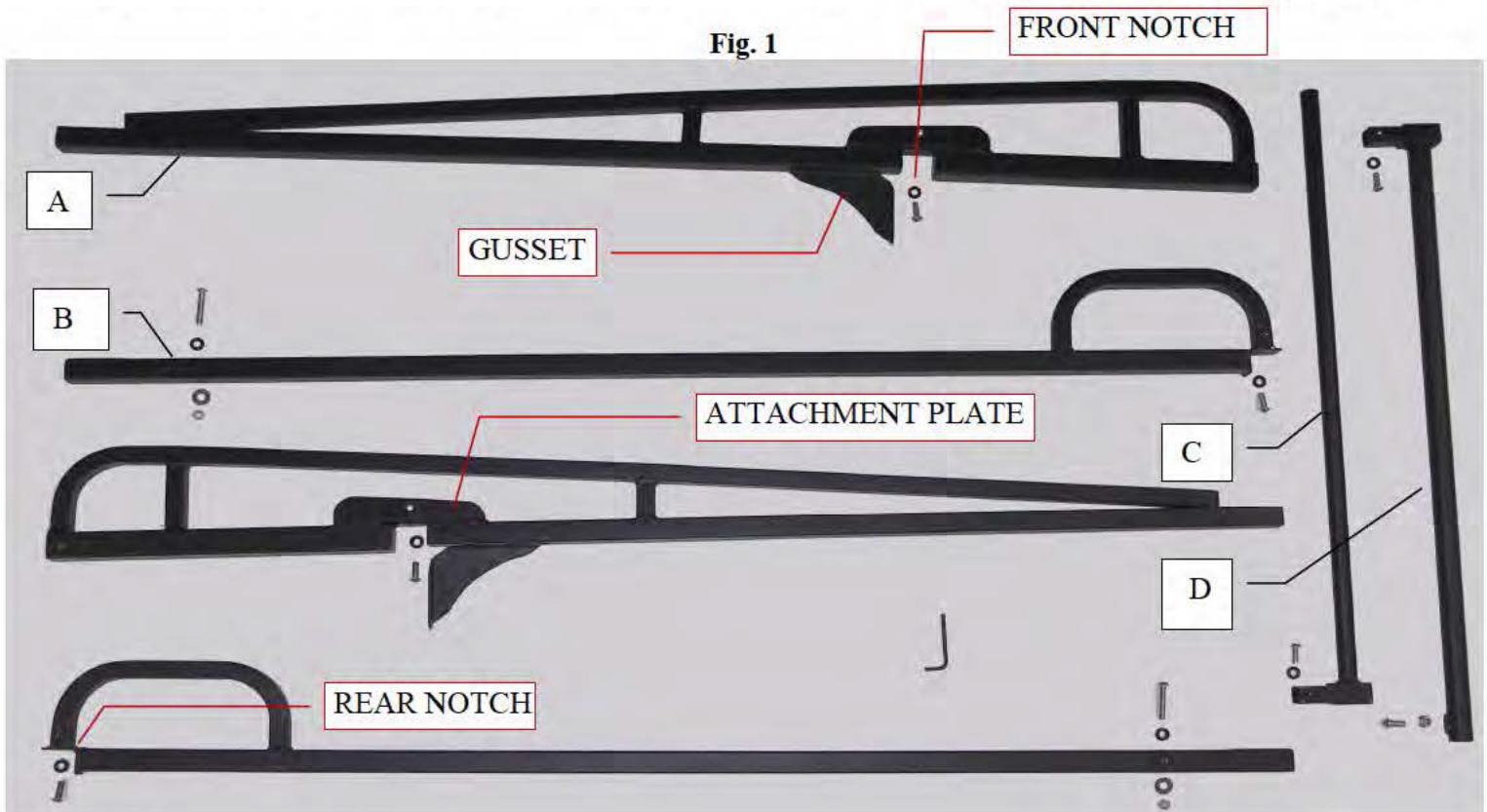
SPECIFICATIONS and SAFE LOADING REQUIREMENTS

These instructions are intended for use only in conjunction with the Rail Rack model series (A)2007-2. All models of this rack with extension are designed to carry ladders, boats, canoes, kayaks, lumber, or other cargo not exceeding 500 lbs.

This rack with the Extension Kit is designed to carry loads, which are spread across the width of the crossbars and shared between the rear crossbar, the crossbar at the front of the bed, and the round crossbar over the cab of the truck. It is not designed to carry loads where a force of over 150 lbs. is concentrated on any space less than 12 inches wide along any crossbar or where a force of over 200 lbs overall is loaded on either the rear crossbar or the crossbar behind the cab or where a load of over 100 lbs is loaded on the round crossbar over the cab.

INVENTORY

Your safety is paramount. Before assembling the rack, inventory and inspect all parts. Visually check each part to ensure it corresponds to the inventory list and check all welds for signs of cracking or weakness. If you do not have all the correct parts or if any parts appear to be defective, STOP! Do NOT install the rack.



The Rail Rack consists of these parts:

- B. Cab Extension (left and right)
- C. Bed Extension (left and right)
- D. Round Male Crossbar (x1)
- E. Round Female Crossbar (x1)

HARDWARE: 3/8-16 x 1" button-head hex cap screws (x5); 3/8-16 x 2" button-head hex cap screws (x2); nylon washers (x6); metal washers (x 6); nylon lock nuts (x4); flange (jam) nut (x1); Allen wrench (x1); 3/8-16 x 1.25" button head cap screw (x2)

ASSEMBLY

Read ALL instructions through once BEFORE you do anything!

There are supplemental instructions that are to be used only after the Rail Rack has been installed in accordance with the instructions for models 2007-2U or 2007-2TRA. After installing the Rail Rack on your vehicle use these instructions to complete the installation of the Rail Rack II (Rail Rack I plus Extension Kit).

1. **Assemble the round Crossbar.** After inventorying all of the parts, examine the Round Male Crossbar and Round Female Crossbar. Insert the male side into the female side so that the short extensions on each end are pointing the same way and the holes in each short extension are facing up. If not already in the hole, place a flange nut on a 1" screw and thread the screw a few turns into the threaded hole in the Round Female Crossbar but not so tightly that it keeps the male side from sliding freely inside the female.
2. **Assemble the Bed and Cab Extensions.** Examine the Cab Extensions (A) and the Bed Extensions (B). The front of the Bed Extension is pointed and inserts in the back end of the Cab Extension. Insert the Bed Extension into the back of the Cab Extension as shown in FIGs. 2 and 3.



FIG. 2 Bed Extension and Cab Extension before assembly



FIG. 3 Bed Extension assembled with Cab Extension

INSTALLATION

3. **Install the Extension Assemblies on the Rail Rack.** After you have installed the Rail Rack (Legs and Crossbars) at the front and back of your truck bed in the positions you want, place the two Bed/Cab Extension assemblies onto the Rail Rack. Ensure that the passenger side assembly is placed on the passenger side and the driver side assembly is placed on the driver side of the truck. To make sure these are correct, ensure that the side of the assembly with the threaded holes is on the OUTSIDE of the truck. Place each assembly on the crossbars so that the notch in the Front Extension fits around the front crossbar and the notch in the rear of the Bed extension fits around the rear crossbar. If your crossbars are too close or too far apart, slide the extensions closer or farther apart to fit. In order to easily place the notch over the crossbar, it may be necessary to hold the Cab Extension assembly in a flat horizontal position and then rotate it until it is in its normal upright position as shown in FIG. 4, 5, and 6. Secure the assemblies to the ends of the crossbars by placing a metal washer on a 1.25" screw and inserting it through the hole in the ear of each Crossbar and the adjacent hole of the Bed Extension. Then place a second washer and a nylon lock nut on the end of the screw and tightening firmly as shown in Figs. 7 and 8. Place the back of the Bed Extension on the back Crossbar and align the hole in the ear of the Crossbar with the hole above the notch in the Bed Extension. Attach the rear Crossbar and Rear Extension by placing a nylon washer on a 1" screw, passing through the ear, and turning it into the threaded hole in the Extension. Tighten loosely with the Allen wrench as shown in Figs. 9 and 10.



FIG. 4 – Lay flat on crossbar



FIG. 5 – Rotate



FIG. 6 – Align with hole in Ear of Rack



FIG. 7 – Cab Extension placed on Front Crossbar



FIG. 8 – Cab Extension screwed to Front Crossbar

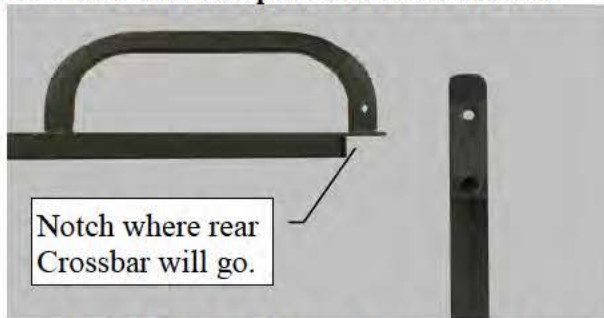


FIG. 9 – Bed Extension before placement on Rear Crossbar



FIG. 10 – Bed Extension screwed to Rear Crossbar

4. **Bolt together the Bed and Cab Extensions.** You MUST fix the length of the Extension Assembly to ensure the rack is sturdy. After you are satisfied that the Rail Rack and extensions are square and properly seated in the right location, make a pencil mark on both sides of the interior tube (Bed Assembly) through the hole in the back of the Cab Assembly. Remove Bed Extension and drill a hole at each pencil mark straight through the tube using an electric drill with a 3/8" drill bit. After drilling, the end of the Bed Extension should appear as in Fig. 11. Re-insert the interior tube, align the holes, and attach the tubes with 3/8-16 x 2" button head cap screws. Place a nylon washer under the head and metal washer in contact with the nylon lock nut as in Fig. 12. After assembling the Extensions, re-attached to the Rear Crossbar and tighten firmly with the Allen wrench. **NOTE: IF YOU HAVE AN EXTRA SHORT BED, IT MAY BE NECESSARY TO CUT THE FRONT OF THE REAR EXTENSION IF IT IS TOO LONG. YOU MAY USE A HACKSAW TO CUT JUST ENOUGH OF THE EXTENSION TO ALLOW IT TO FIT AND THEN TOUCH UP THE END AND THE DRILLED HOLE WITH SOME BLACK SPRAY PAINT.**



FIG. 11 – Bed Extension and Cab Extension after drilling



FIG. 12 – Bed Extension assembled with Cab Extension

5. **Attach the Round Crossbar.** After securing Extension Assemblies to the Rail Rack, adjust the width of the Round Crossbar and place the short extensions at the ends of the Crossbar into the open front end of the Cab Extensions until the holes in the top of the extension align with the holes at the front end of the Extension. Screw a 1" screw with nylon washer securely into the hole as shown in FIGs 13 and 14, below. After installing the crossbar, fix the width of the crossbar by tightening the set screw in the middle and then tightening the flange (jam) nut against the crossbar to keep the set screw from being able to vibrate loose.



FIG. 13 – Front Crossbar before insertion

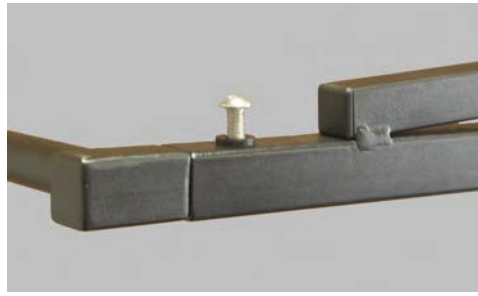


FIG. 14 – Preparing to tighten screw

- 6. Safety Check.** Ensure that all threaded parts remain firmly tightened. Check periodically to ensure safety.



FIG. 15 -- Installation Complete