This kit is for use on all 1996 to 2004 trailers with ABS and aluminum top assemblies (except Taos & Tucson)

NOTE: Not for use on models with the AlumiTite top.

CAUTION: Use Instruction Sheet 1968A585 included in this kit for 2005 to current models.

Crossbar Load Capacity: The maximum weight capacity of the roof rack is 75 pounds evenly distributed per crossbar or 150 pounds evenly distributed over multiple crossbars.

CAUTION: When outfitting a camper top for cargo carrying, the trailer’s GVWR and tire load range rating must be considered in addition to the weight of an air conditioner, if applicable, and other vehicle cargo such as take along water and general camping provisions. The camper’s GVWR and tire load range rating are not to be exceeded. All roof top cargo with the exception of an air conditioner, if applicable, must be removed prior to raising the camper top or the top assembly and lift system warranty will be voided.

IMPORTANT NOTICE

These instructions are for the use of qualified individuals specifically trained and experienced in the installation of this type equipment and related system components. Installation and service personnel are required by some states to be licensed. Persons not qualified shall not attempt to install this equipment nor interpret these instructions.

Recommended distance between crossbars for each application is as follows:

- Cargo Basket – 12” – 41”
  (Must be installed toward front of roof)

- Frame Mount Bike Carrier – 16” – 44”
  (Must be installed toward front of roof)

- Boat Mounting Brackets – Maximum distance permitted by roof or boat.

- Fork Mount Bike Carrier – 36” – 44”
  (Must be installed toward front of roof)

IMPORTANT: Dimensions provided are manufacturer’s (Yakima) recommendations and are measured from center of crossbar to center of crossbar. Measurements can be varied within the dimensions provided to accommodate air conditioner equipped trailers. Ensure the roof racks will not interfere with the future installation of an air conditioner and roof brace in the event that the customer may choose to install this equipment at a later date. A minimum of 10% - 15% of the total trailer weight must be maintained on the hitch.
**ALUMINUM TOP INSTALLATION INSTRUCTIONS**

1. Set-up trailer in normal open display manner.

2. Locate the screen door storage bracket mounted directly above the access door on the interior curbside panel of the top assembly.

3. Using the snap button hole on the screen door storage bracket as the starting point, measure 20” along the interior curbside cove towards the rear of trailer and 16” – 18” towards the front of the trailer. Place a pencil mark on the painted surface of the metal cove at each of these measured points. See Figure 2.

4. Duplicate the two curbside pencil marks made in Step 3 onto the roadside metal cove by measuring from the interior metal front cove to each pencil mark and transferring exact measurements to the roadside metal cove and marking. Reference Figure 1, dimensions A and B. Recheck all dimensions and confirm pencil marks to be in identical locations on both sides of the top assembly.

**IMPORTANT:** 16” minimum allowable spread between crossbars for installation of bike racks or basket case, maximum spread 44” (center of bar to center of bar).

**For 2005 to current models, follow Steps 5 through 12.**

5. From each of the pencil marks made in Steps 3 and 4, center mounting plates (4767-442) over these marks. Place them securely against the ceiling and valance track as in Figure 6.

6. Recheck locations of each mounting plate to ensure that the curbside and roadside locations align with each other prior to drilling.

7. Using a pencil and the mounting plates as templates, mark the bolt locations on the ceiling.

8. Using a 9/32” drill bit, drill completely up through the top assembly at each bolt location marked in Step 7. **DO NOT ANGLE HOLES WHEN DRILLING OR REAM OUT HOLES.** See Figure 6.

9. Assemble each roof rack riser with one strip of tacky tape to cover the bottom surface of the riser contacting exterior portion of top assembly and two 1 ½” carriage bolts per riser. See Figure 6.

10. Remove the adhesive backing from the tacky tape on the risers and place the risers on the roof with the carriage bolts inserted in the holes drilled in Step 8. See Figure 6.

11. From inside the trailer, secure each riser assembly by placing one lock washer and one acorn nut onto each carriage bolt. Partially tighten with 7/16” wrench.

12. Using the Tek screws (4733F4136), attach the opposite end of each mounting plate to the side cove. See Figure 6.

**For 2004 models, follow Steps 13 through 21**

13. From each of the pencil marks made in Steps 3 and 4, establish two center points for drilling fastening holes through the interior aluminum cove for attachment of the offset mounting plates. Each center point measuring 1 ½” in front of and behind the pencil mark and 5/16” in from the top edge of the cove molding as illustrated in Figure 3.
14. Recheck locations of each offset mounting plate to ensure that the curbside and roadside locations align with each other prior to drilling.

15. Using a center punch and hammer, indent each of the 8 center points marked in Step 13.

16. Using a drill and 3/16” drill bit, drill through the indented center points on the metal cove. **DO NOT DRILL THROUGH THE ENTIRE TOP, ONLY THE METAL COVE AND PANELING.**

17. Fasten each offset mounting plate to the interior metal cove using two rivets supplied. See Figure 4. If any rivets retaining the interior metal cove interfere with fastening the offset plate flush along the cove, drill off the interfering rivet heads.

18. Using the two remaining holes in the offset mounting plates installed above as templates, drill completely up through the top assembly using 9/32” drill bit. **DO NOT ANGLE HOLES WHEN DRILLING OR REAM OUT HOLES.** Repeat step for remaining three offset mounting plates. See Figure 3.

19. Assemble one roof rack riser, one strip of tacky tape to cover bottom surface of riser contacting exterior portion of top assembly and two 1 1/2” carriage bolts together. See Figure 5.

20. Remove the adhesive backing from the tacky tape on the risers and place the risers on the roof with the carriage bolts inserted in the holes drilled in Step 18. See Figure 5.

21. From inside the trailer, secure each riser assembly by placing one lock washer and one acorn nut onto each carriage bolt. Partially tighten with 7/16” wrench.

**NOTE:** Do not completely tighten until crossbars have been installed. To access the riser carriage bolts from outside the trailer, it may be advantageous to remove the side tenting sections.

22. Slide the crossbars into the risers. Center the crossbars in the risers.

**CAUTION:** Do not drop the crossbars or damage to the top assembly will occur.

23. Fasten the crossbars to the risers by inserting a self-tapping Tek screw through the hole on the top of the riser and into the crossbar. After installing the Tek screw, remove it and clean any metal shavings from the crossbar and riser. Apply silicone or Loc-tite to the threads of the screw and reinsert.

24. Fully tighten all roof rack riser carriage bolts on inside of trailer top. If necessary, add additional flat washers to achieve proper tension.

25. Trim excess tacky tape from around base of riser and seal around base of riser with caulking.

26. Affix one caution decal to the curbside crossbar directly above the access door.

27. Recheck tightness of all bolts and nuts.

28. Insert two plastic end caps into end of each crossbar.

29. Install bike racks or basket case per instructions included with each accessory package.
INSTALLATION OF DOUBLE CROSSBARS FOR CANOE OR BOATS

1. Install the roof rack risers as close to the front and read radiused edges of the top assembly as allowed for each top configuration.

2. Follow crossbar installation procedure. Pencil marks established in Step 3 for locating the offset mounting plates on the interior metal side coves must be measured starting at the front/rear metal coves towards the center of the top assembly. When measuring, allow a minimum clearance distance of 2” from either the lift pocket cover or metal end coves. Maximum crossbar spacing can then be obtained on the top.

INSTALLATION OF DOUBLE CROSSBARS ON TRAILERS EQUIPPED WITH AIR CONDITIONERS

1. The crossbars should be installed in front of, or behind, (or one in front and one behind) the air conditioner depending upon the size of the top assembly and the effect of the load to be carried on the trailer hitch. Follow steps for installation of double crossbars.

NOTE: If the crossbars are “straddled”, four bike racks will not be permissible on the rack.

IMPORTANT: Trailers should maintain 10% of total trailer weight on the hitch assembly. Crossbars minimum allowable spread is 16”, maximum spread is 44” (center of bar to center of bar) for installation of a bike rack or cargo basket.

*ABS PLASTIC TOP INSTALLATION INSTRUCTIONS*

1. Open the crossbar kit and separate the contents.

2. Apply tacky tape to the bottom of all four risers. Do not remove the protective backing from the tacky tape which contacts the exterior surface of the top assembly. Use a knife to cut around each bolt mounting location on the base of the riser.

3. Slide one riser onto each end of the crossbars. Do not scratch the surface finish on the crossbars.

4. Insert one plastic end cap onto each end of the crossbars. Place crossbars aside.

5. Using a tape measure, measure from the bottom right front corner of the top (lip just above rubber top seal) up over the radius of the top assembly (approximately 14” – 14 ½”). See Figure 1. Place a light pencil mark on the raised area of the top. Make the exact same measurement and mark on the left front corner of the top assembly.

6. Carefully place one crossbar assembly on the top assembly. Align the front edge of the risers with the pencil marks made on the top in Step 5. Center both risers side to side on the raised surface of the top allowing approximately 1/8” gap along the outside of the molded rain gutter. See Figure 1.

7. Referencing the manufacturer’s recommendations, locate the second crossbar according to the accessory option being installed. Measurement is from center of crossbar to center of crossbar. DO NOT allow the crossbars to shift once measurements start.
WARNING: Maximum crossbar spacing (such as for boat configuration) should not extend beyond the molded indentation for the canopy track on the top assembly.

8. Using the base of the roof rack risers as a template, mark all eight bolt hole mounting locations on the exterior of the top assembly.

9. Raise the top assembly approximately one foot.

10. Remove or check clearance of all interior objects directly beneath the marks established in Step 8. Examples: Screen door assembly, side window panels, valances, shower curtain tracks, etc.

11. Using a drill and 9/32" drill bit, drill down through the exterior of the top assembly at each of the roof rack riser mounting locations.

CAUTION: Do not angle or ream out holes while drilling. Check for objects directly below.

12. Insert two 2 1/4" carriage bolts down through the base of each riser. Remove backing from tacky tape prior to permanent placement of the riser on top assembly. Insert carriage bolts through holes drilled in top assembly. Repeat for each crossbar assembly. See Figure 1.

13. From inside the trailer, place one mounting plate, one lock washer and one acorn nut over each bolt. Repeat step for each roof rack riser. See Figure 1.

WARNING: The mounting plate must be firmly secured against the interior top for correct installation. Additional flat washers may be added as needed to ensure proper tension.

14. Fasten the crossbars to the risers by inserting a self-tapping Tek screw through the hole on the top of the riser and into the crossbar. After installing the Tek screw, remove it and clean any metal shavings from the crossbar and riser. Apply silicone or Loc-tite to the threads of the screw and reinsert.

15. Install one crossbar support under the center of each crossbar by slightly lifting up on the center of the crossbar. It will be necessary to first clean the appropriate area on the top assembly with alcohol and then remove the protective backing from the crossbar supports prior to permanent placement.

16. Trim excess tacky tape from around base of risers and seal around base of riser with caulking.

17. Affix one caution decal to the curbside of the crossbar closest to the access door.

18. Recheck tightness of all bolts and nuts. After installation, check the tightness of all bolts and nuts on an annual or semiannual basis.

WARNING: Lift system weight rating for raising and lowering the top assembly with roof mounted accessories is 150 pounds maximum.
FIGURE 1
ABS TOPS ONLY