

## UPGRADE BAR SYSTEM

To be used with existing SporTrek Side Rails Only

**WARNING:** External [roof racks](#) do not increase the GVWR of the vehicle. Maximum load for this rack is 180 lbs. evenly distributed on crossbar assemblies. Keep in mind that torque applied to any straps, cords, etc. between the load and the vehicle body effectively add "load weight" to crossbars and the roof. Large or flat items such as plywood or watercraft can trap air and create wind lift. Secure the ends of such objects directly to the vehicle bumpers or tie downs. Bulky or tall loads can create tremendous horizontal wind resistance from headwinds and crosswinds. Extreme caution should be used when transporting such loads, taking into consideration road conditions, vehicle speed, crosswinds, load securing methods, etc. Large, bulky, tall or flat objects should be properly secured to both crossbars and other attachment points on the vehicle body. Check rack adjustment points and load securement frequently. PERRYCRAFT, Inc. does not assume responsibility for style or size of rack installed, improper rack installation, exceeding rack load limit, load securement methods, vehicle roof strength, wind lift or any other factors beyond its control. All fasteners, knobs, and load securements should be checked frequently and tightened as necessary.

**IMPORTANT NOTE:** The enclosed Warranty/Consumer Information card must be fully completed by installation center and reviewed with the consumer (end-user), and given to the consumer. In the event of a potential warranty issue, failure by the consumer to provide Mfg. with a copy of the completed document will void warranty coverage.

**CONTENTS:** 2-Crossbars, 4-Stanchion assemblies, 1-Hardware Pack (4-Crossbar End Caps, 4-Stanchion/Track Clamp Brackets, 4-Adjustment Knobs, 4-3/16" Drive Rivets, 4-Stanchion Plugs, 4-1/4"-20 x 7/8" Socket-head Cap Screws, 4-1/4" Flat Washers, 4-1/4"-20 Nylock Nuts, 1-3/16" Allen wrench, 1-Instruction Sheet, and 1-Warranty/Consumer Information card).

**TOOLS REQUIRED:** Tape Measure, Hand Drill, 3/16" Drill Bit, Flat-head Screwdriver, Hammer, 7/16" Wrench or Adjustable Wrench, Non-permanent Marker, and Metal-cutting Saw (if option 2 is chosen).

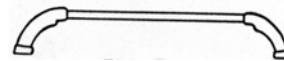
**NOTE:** Original SporTrek or TracMate crossbar/stanchion assemblies may be removed and stored if desired.

**This "Pass-Thru/Stanchion-Fit" upgrade kit provides the choice of two configurations of the stanchions and crossbars at the time of installation:**

**OPTION 1.** Extend the crossbars through the stanchions:



**OPTION 2.** Cut the crossbars to the appropriate length to provide exact fit between the stanchions:



**IMPORTANT:** Completely review the instructions for chosen option before proceeding with installation!!!

### OPTION 1 - Pass-Thru Crossbars:

1. Install stanchion plugs into two stanchions using 1/4"-20 x 7/8" cap screws, 1/4" flat washers and nylock nuts as shown in Fig. 1.
2. Slide one "plugged" stanchion on to one end of each crossbar, butting end of bars firmly against stanchion plugs. Slide remaining two "open" stanchions on to opposite ends of bars positioning both stanchions relative to width of existing tracks.
3. Insert stanchion/track clamp brackets into tracks as shown in Fig. 2.
4. Slide stanchion foot brackets into the stanchion/track clamp brackets, aligning bracket ends.
5. Install adjustment knobs into threaded holes in stanchion/track clamp brackets.
6. Adjust crossbar position by rotating adjustment knobs 1-2 turns counter-clockwise, and slide one crossbar assembly to front, the other to rear. Rotate knobs clockwise firmly to securely lock stanchions in place.

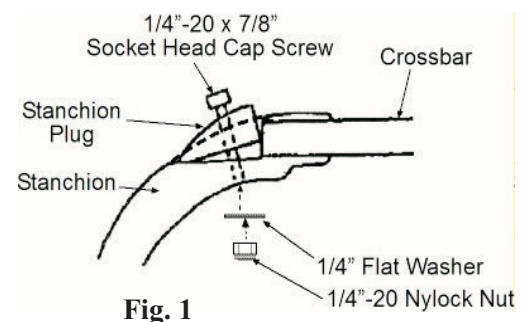


Fig. 1

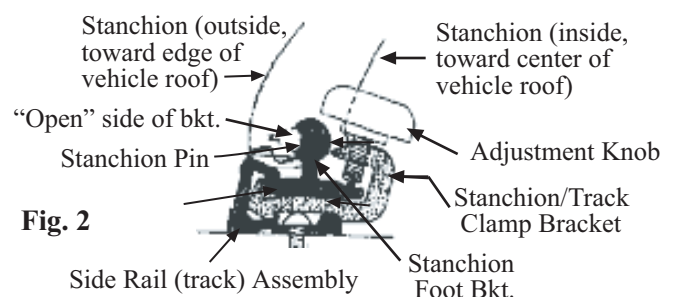
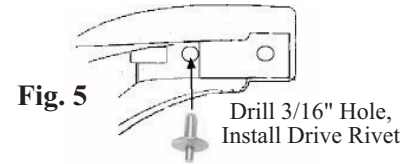
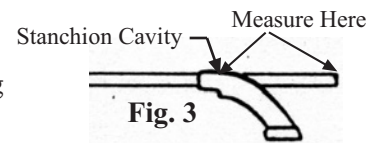


Fig. 2

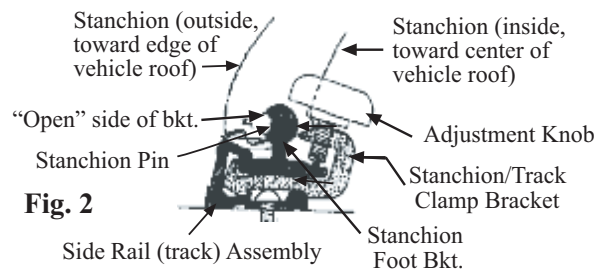
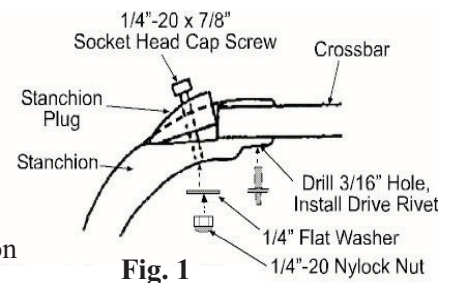
(Over)

7. Measure and note distance from end of cavity to end of crossbar (see Fig. 3) and divide by 2, **making note of the resulting dimension.**
8. Remove stanchion/crossbar assemblies from side rails by removing knobs and sliding foot brackets out of clamp brackets.
9. Remove stanchion plugs from the two "plugged" stanchions.
10. Slide crossbars thru stanchions until same length of bar (using "resulting dimension" from Step 7) is extending beyond each support. Visibly mark top of both crossbars at end of opening in stanchions (see Fig 4).
11. Insuring that all stanchions remain aligned with their respective marks on bars (per Step 10), drill 3/16" holes through bottom side of crossbars in stanchion hole as shown in Fig. 5. Insert the 3/16" drive rivets into drilled holes, and tap rivet mandrel pin firmly with hammer until flush with rivet head. Repeat for each stanchion.
12. Install crossbar end caps. Reinstall stanchion/crossbar assemblies into side rails using procedure in Steps 3-5. To adjust position of crossbars, loosen adjustment knob, slide crossbars to desired position, and re-tighten knobs.



#### OPTION 2 - Stanchion-Fit Crossbars:

1. Install stanchion plugs into two stanchions using 1/4"-20 x 7/8" cap screws, 1/4" flat washers and nylock nuts as shown in Fig. 1.
2. Slide one "plugged" stanchion on to end of each crossbar, butting end of bar firmly against stanchion plug. While insuring bar remains butted against plug, drill 3/16" hole in bottom of crossbar thru remaining hole on underside of stanchion neck. Install Drive Rivet in drilled hole as shown in Fig. 1, tapping rivet mandrel pin firmly with hammer until flush with rivet head.
3. Push one "open" stanchion onto other end of each crossbar, positioning each stanchion relative to width of existing tracks.
4. Insert stanchion/track clamp brackets into tracks as shown in Fig. 2.
5. Slide stanchion foot brackets into the stanchion/track clamp brackets, aligning bracket ends.
6. Install adjustment knobs into threaded holes in stanchion/track clamp brackets.
7. Adjust crossbar position by rotating adjustment knobs 1-2 turns counter-clockwise, and slide one crossbar assembly to front, the other to rear. Rotate knobs clockwise firmly to securely lock stanchions in place.



8. With stanchion/crossbar secured to tracks, mark end of crossbars on end extending through stanchion at end of cavity as shown in Fig. 3.
9. Remove stanchion/crossbar assemblies from side rails by removing adjustment knobs and sliding foot brackets out of clamp brackets.
10. Remove "open" stanchions from crossbars, and square cut the crossbars where marked in Step 8. Install stanchion plugs into two "open" stanchions using 1/4"-20 x 7/8" cap screws, 1/4" flat washers and nylock nuts as shown in Fig. 1 above.
11. Slide one stanchion on to end of each crossbar, butting end of bar firmly against stanchion plug. While insuring bar remains butted against plug, drill 3/16" hole in bottom of crossbar thru remaining hole on underside of stanchion neck. Install Drive Rivet in drilled hole as shown in Fig. 1, tapping rivet mandrel pin firmly with hammer until flush with rivet head.
12. Reinstall stanchion/crossbar assemblies into side rails by sliding stanchion foot brackets into stanchion/track clamp brackets and reinstalling adjustment knobs as shown in Fig. 2 above.
13. Slide crossbars to desired location and rotate knob clockwise until tight.