

**SIDEKICK RAMP TIE-ROD Replacement Kit**

This kit provides the parts necessary to replace the tie-rods on your Sidekick. It will be necessary to modify and reuse some of the existing parts. Please read the instructions completely before beginning any modifications.

If you are working on a ramp manufactured prior to April 2000 or a serial number lower than RW004-0091 then you will need to apply the RoadwarriorR Ramp wear band/ plate retrofit kit prior to proceeding with this kit.

Your kit should contain the following parts:

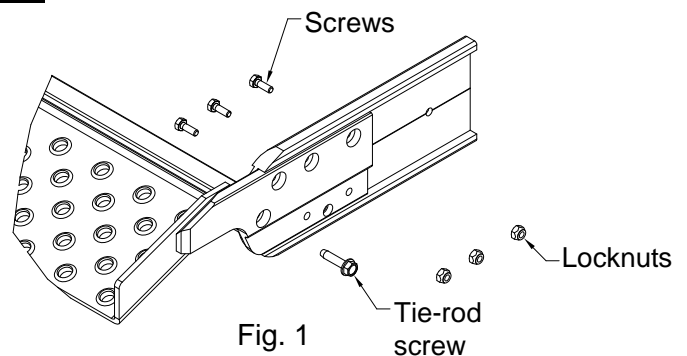
- New RoadwarriorR Tie-Rods (15 included)
- Rolok 5/16-18 x 1-21/64 HWH ZP Screws (30 included)
- 5/16 x 1 x .052 TH, ZP Fender Washer (30 included)
- New Transition Plate Assembly (if required)

In addition to the parts listed above you will need the following tools in order to replace the tie-rods on your ramp:

- Drill and 11/32" drill bit (not included)
- 2 – Torx #55 drivers (not included)
- 3/8" Socket or Wrench (not included)
- 5/8" Socket or Wrench (not included)
- 7/16" Socket (not included)
- 7/16" Open Ended Wrench (not included)
- 1/2" Socket (not included)
- Torque Wrench (not included)
- Rubber Mallet (not included)

**1. Replacing the tie-rods on the base side of the ramp:**

- While still folded, lay the ramp so that the apron end is on top.
- Use the 7/16" socket and wrench to remove the 1/4-20 screws and locknuts from the apron assembly arms. (Fig. 1) Making sure to keep the screws and locknuts for use during reassembly.



- c. Inspect the apron for unusual wear or cracks. Call R•O•M for a replacement Apron kit if either of these is present.
- d. Use the 1/2" (5/16" tie-rod screws) or 3/8" socket (1/4" tie-rod screws) to remove the tie-rod screw from the apron assembly.
- e. Slide all of the tie-rods and castings out of the base ramp rails.

Do this step if your ramp was manufactured prior to October 2001 and still have the 1/4" tie-rod screws.

Modifying the rails for 5/16" tie rod bolts:

Use an 11/32" diameter bit to drill out all of the tie-rod screw holes in each rail.

**2. Base side re-assembly:**

- a. Alternate the new tie-rods and existing castings by sliding them back into the ramp rails.
- b. Use a 1/2" socket or wrench and the new screws and washers provided to attach all of the new tie-rods.

**CAUTION: DO NOT** over-tighten the screws. Over-tightening the screws may cause them to break off within the extrusion; R•O•M recommends  $19.5 \pm 1$  ft. lbs. of torque.

- e. Use the rubber mallet to install the apron assembly to the ramp. Re-attach the apron assembly to the ramp rails using the existing 1/4-20 screws and locknuts.

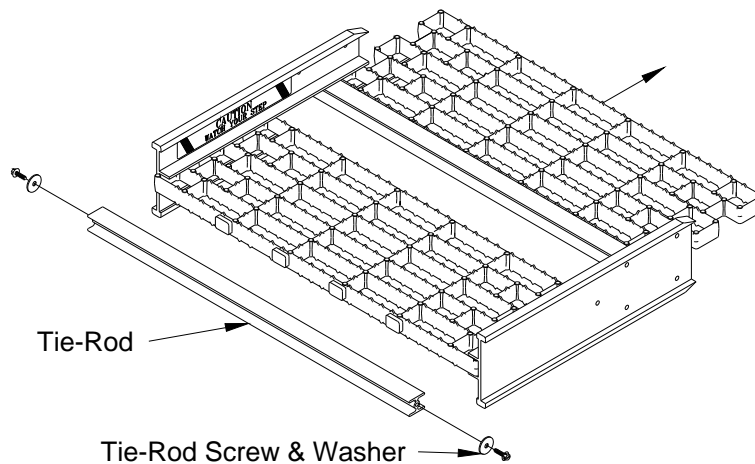


Fig. 2

### **3. Replacing the tie-rods on the extension side of the ramp:**

- a. Flip your Sidekick Ramp over so that the transition plate assembly is on top.
- b. Use the 7/16" socket and wrench to remove the 1/4-20 screws and locknuts from each side of the wear band/plate assembly. (Fig. 1-2) Keep hardware as it is required for re-assembly unless a new transition plate assembly was ordered.

*Note: The serial plate must be replaced when transition plate assembly is re-installed.*

- c. Use the 1/2" (5/16" tie-rod screws) or 3/8" socket (1/4" tie-rod screws) to remove the tie-rod screw from the transition plate assembly.
- d. Loosen the camtainer nuts slightly to help in transition plate removal. Use the rubber mallet to help remove the transition plate assembly from the end of the ramp and set it aside.
- e. Remove all the remaining tie-rod screws and washers on the ramp.
- f. Slide all of the tie-rods and castings out of the ramp rails.

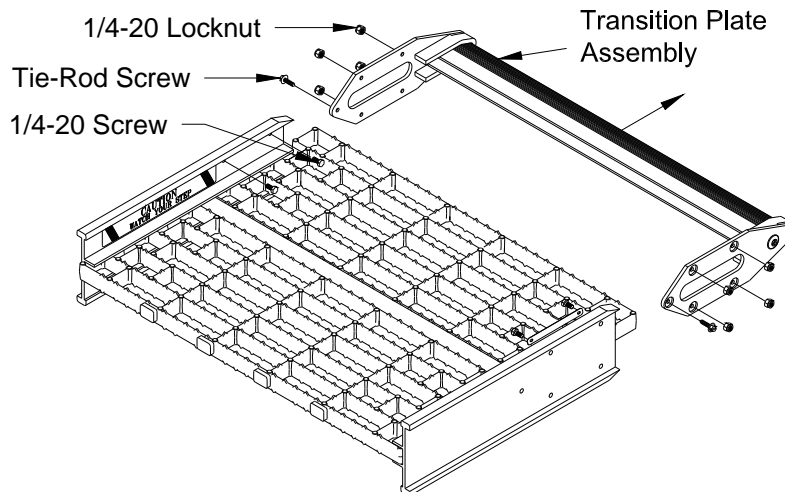


Fig. 3

Do this step if your ramp was manufactured prior to October 2001 and still have the 1/4" tie-rod screws.

Modifying the rails for 5/16" tie rod bolts:

Use an 11/32" diameter bit to drill out all of the tie-rod screw holes in each rail.

#### **4. Replacing the tie-rods on the base side of the ramp:**

- a. Alternate the new tie-rods and existing castings by sliding them back into the ramp rails. The casting with the cut-out will go in first to align with the handles.
- b. Install the transition wear/band plate assembly to the ramp rails.
- c. Using a 1/2" socket and torque wrench install the new tie-rod screws and washers provided along both sides of the rails.

**CAUTION: DO NOT** over-tighten the screws. Over-tightening the screws may cause them to break off within the extrusion; R•O•M recommends  $19.5 \pm 1$  ft. lbs. of torque.

- d. On the wear band/plate assembly install the cap screws from the inside and place the stop nuts in the counter sunk holes. Tighten securely.
- e. Tighten the camtainer bolts on the all thread with a Torx #55 driver.

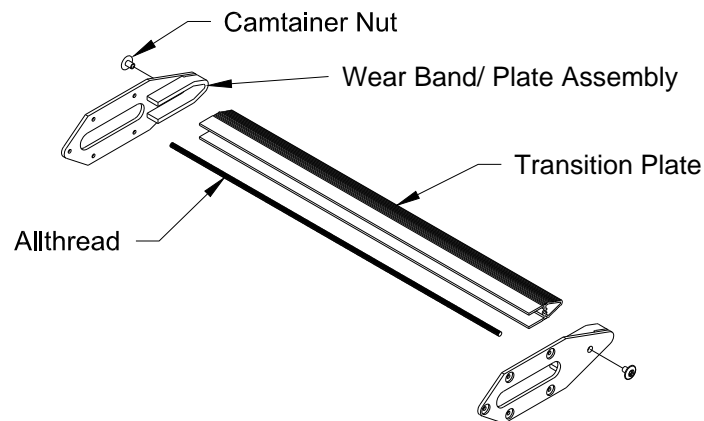


Fig. 4

This completes the installation of the new tie-rods on your Sidekick Ramp. If you have any questions contact your R•O•M representative at 1-800-827-3692.

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