

## ***ROADWARRIOR RAMP TIE-ROD REPLACEMENT KIT***

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FM-7.5-129  
Rev. C  
7/21/10

This kit provides the parts necessary to replace the tie-rods on your Roadwarrior Ramp. 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 replace the RoadWarrior Ramp wear band/ plate. If you are working on a ramp after October 2001 or a serial number after RW110-0011 your ramp will have 5/16" tie-rod screws in lieu of 1/4" ones.

Your kit should contain the following parts:

- New Roadwarrior Tie-Rods (qty. varies depending on ramp length)
- Rolok 5/16-18 x 1-21/64 HWH ZP Screws (qty. varies)
- 5/16 x 1 x .052 TH, ZP Fender Washer (qty. varies)
- 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 and Wrench (not included)
- 1/2" Socket (not included)
- Torque Wrench (not included)
- Rubber Mallet (not included)

### **1. Removing the transition wear band/plate assembly:**

- a. Use the 7/16" socket and wrench to remove the 1/4-20 screws and locknuts from each wear band/plate assembly. Keep hardware as it is required for re-assembly unless a new transition plate assembly was ordered.
- b. Use a 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.

- c. Loosen the camtainer nuts slightly to help in transition plate removal. Using a soft rubber mallet remove the transition plate assembly from the end of the ramp and set it aside.

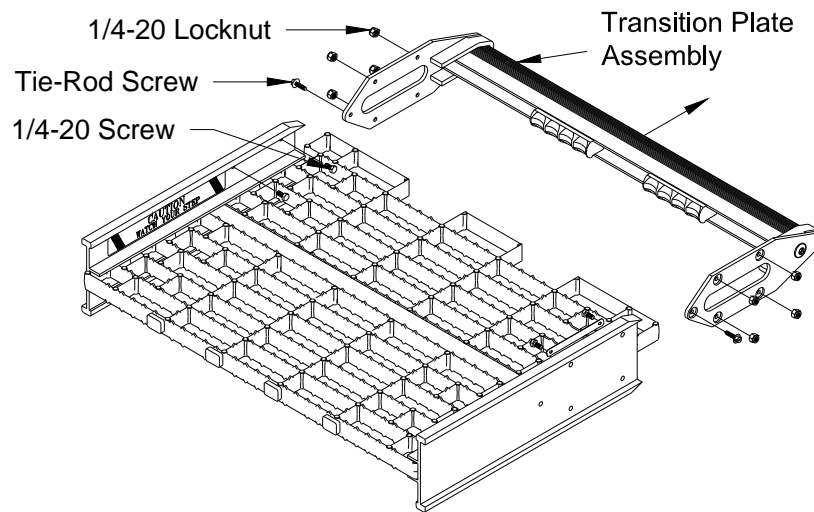


Fig. 1-1

- d. Remove all of the remaining tie-rod screws and washers on the ramp.
- e. Slide all of the tie-rods and castings out of the ramp rails.

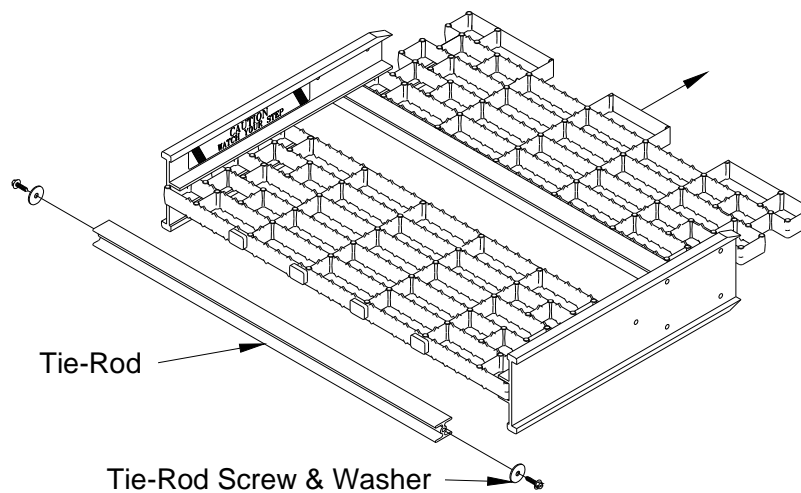


Fig. 1-2

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

### Modifying the rails for 5/16" tie-rods bolts:

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

## 2. Ramp re-assembly:

- a. Alternate the new tie-rods and existing castings by sliding them back into the ramp rails. The casting with the cut-outs will go in last.
- 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 side 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. lb. of torque.

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

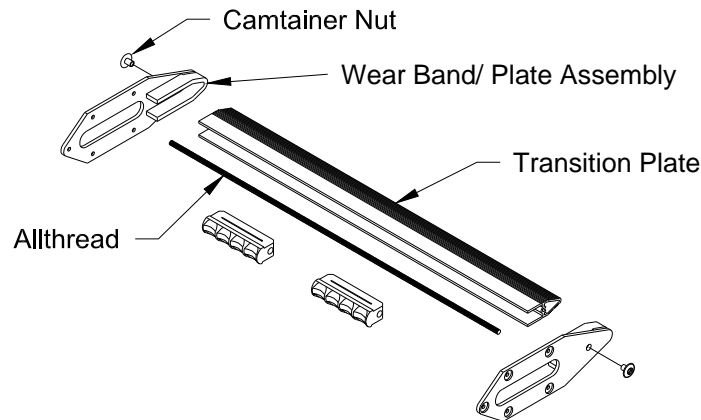


Fig. 1-3

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

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