



# STEP BOARD KIT #27-1505 INSTALLATION INSTRUCTIONS

APPLICATION: 2003-UP TOYOTA 4-RUNNER

**AUTOMOTIVE PRODUCTS, INC.**

**CAUTION:  
BEFORE BEGINNING  
THIS INSTALLATION  
PROCEDURE.  
READ THROUGH  
INSTRUCTIONS  
CAREFULLY AND  
COMPLETELY**

## HARDWARE KIT

12 5/16 X .75 SQUARE HEAD BOLTS	12 5/16" FLAT WASHERS
12 5/16" NYLOCK NUTS	12 M8 X 20 HEX HEAD BOLTS
4 MIDDLE/REAR BRACKETS	2 FRONT BRACKETS

- STEP 1. Remove the contents from box and check for any damage. Verify all parts against the parts list. Read and understand instructions completely before beginning installation.
- STEP 2. Determine the two front mount brackets, as these will be installed first. SEE FIGURE 1.
- STEP 3. Locate the three factory mount hole locations on the underside of vehicle rocker panel. Attach front brackets to the first set of mount holes closest to the front of vehicle. Use two M8 bolts. Leave loose. SEE FIGURES 2 AND 4.
- STEP 4. Attach remaining brackets to the middle and rear set of mounting holes. Use two M8 bolts for each bracket, Leave loose. SEE FIGURES 3 AND 4.

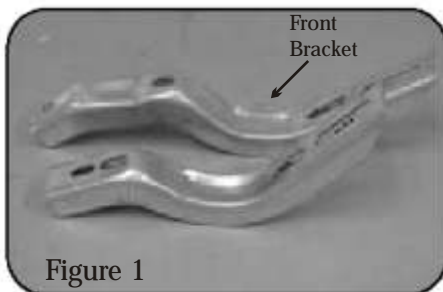


Figure 1

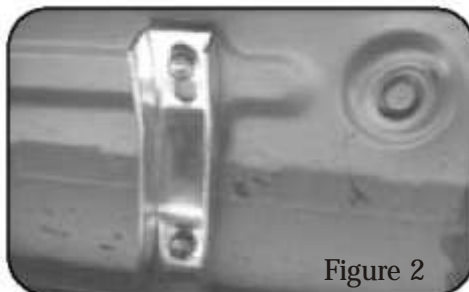


Figure 2

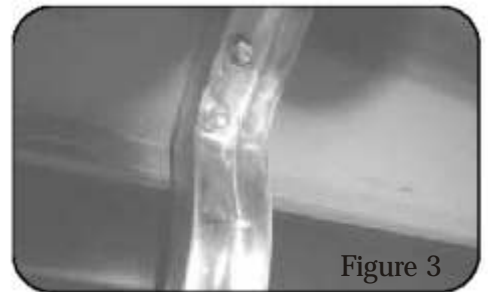


Figure 3

- STEP 5. Now apply six 5/16" square head bolts to board in the appropriate slots of the aluminum and position the running board onto brackets. SEE FIGURE 4.
- STEP 6. Use six 5/16" nylock nuts and flat washers to secure board to brackets. Make sure to adjust and center the board to vehicle. SEE FIGURE 5.
- STEP 7. Now that the board is in place, tighten all remaining bracket bolts. Repeat the same steps to the other side of the vehicle to complete installation.



Figure 4

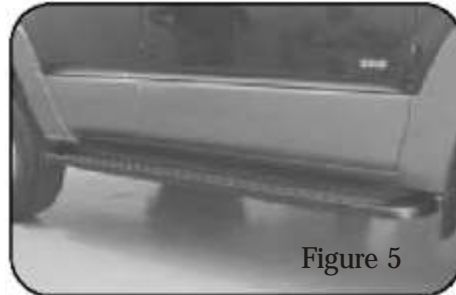


Figure 5

## INSTALLING THE LIGHTS & WIRING HARNESS TO YOUR STEP BOARDS (FOR LIGHTED VERSION)

- STEP 8. A three piece wiring harness is included with the Lighted Step Board. The harness includes four (4) light sockets and three plugs. Carefully plan a wire route from the right side Step Board to the left. Then choose a pass-through point (floor board to inner cab) for the wire harness. NOTE: WESTIN RECOMMENDS YOU USE A PROFESSIONAL TO INSTALL THE WIRING HARNESS. SEE STEPS 10-14.
- STEP 9. Attach wire harness and lights. Be sure rubber seals are in place before installation. The rubber grommet around the red and blue wires going into rear sockets should be completely inserted and recessed about 1/4" NOTE: To ensure the longevity of your lights, remove the bulb and place a small amount of white grease into the sockets and replace the bulb. Place a small amount of RTV Silicone where the wires go into the socket. This keeps the sockets dry and adds to longevity. Screw lights into each end of the board and run conduit in center slot of aluminum base board. This will hold harness in place.
- STEP 10. GENERAL TIPS FOR WIRING HARNESS INSTALLATION. NOTE: The light wiring harness installation requires splicing into vehicles electrical system.
- STEP 11. After choosing a pass-through point for cab harness(STEP 8.), follow this sequence: Route long lead harness to short lead harness and plug connectors securely. NOTE:1 Avoid areas of excess heat, vibration, pinch or rotation when securing harness to vehicle.
- STEP 12. Plug open-ended connection into unused connection. Either connector on short lead board harness will work. Route open ended wire harness through truck cab. Find the closest position to door light switch lead wire. Seal pass-through holes with silicone or permanent sealer.
- STEP 13. Connect positive and negative lead wires to vehicle sources (dome light or courtesy light under dash). Use vehicle door switch for ground lead source and appropriate positive lead for supply. NOTE: Always use a fused positive (+) power source. NOTE: For lighted boards, the best place to find the hot lead to the dome light is the driver side windshield pillar.
- STEP 14. Test circuit for proper function and connection before tape sealing all exposed wires.

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Finish protection - Westin products have a high quality finish that must be cared for like any other exposed finish on the vehicle. Protect the finish with a non-abrasive automotive wax (pure carnauba, for example) on a regular basis. The use of cleaner wax or any compound which contains an abrasive is detrimental, as the compounds scratch the finish and open it to corrosion.

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