

## DAWN ENTERPRISES INC.

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## INSTALLATION INSTRUCTIONS

PART NUMBER: 4RUN  
FOR: 2003 + Toyota 4Runner  
EFFECTIVE: 09.09.05

### INSTALLATION PACKAGE INCLUDES:

- A) 2 – 1 ½" Long Mounting Screws for Center Fastening Holes
- B) 2 – ½" Short Mounting Screws for Top Fastening Holes
- C) 4 – Lock Washers
- D) 4 – Flat Washers - Small
- E) 2 – Electrical Connectors
- F) 1 – 1" Black Hole Plug
- G) 4 – Hole Locators – 2 longer paper for Center Fastening Hole, 2 black plastic for Top Fastening Hole
- H) Template
- I) Adhesive Pads (*for unpainted Sportwing®*)
- J) Instruction Sheet

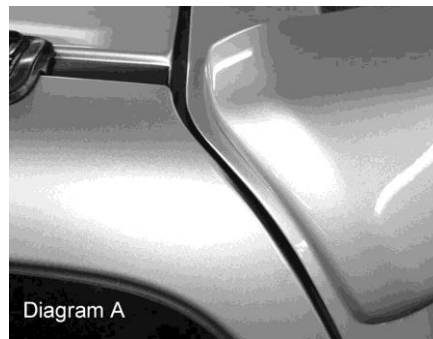
### EXTRA TOOLS NEEDED:

- 1. 5/32" x 6" Long Drill Bit
- 2. 1" Hole Saw

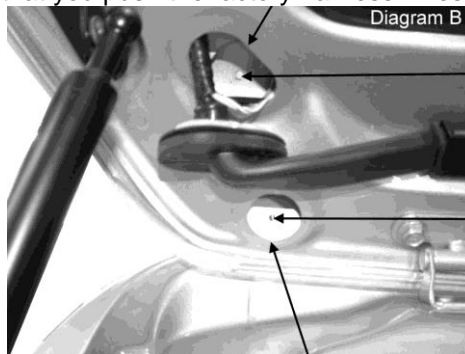
### PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION

1. Wear proper eye protection when installing Sportwing®.
2. **See Diagram A on back of sheet as to where to position mounting feet** (*NOTE: for this installation, a second person is needed*). Center the Sportwing® left to right on the vehicle and position Sportwing® for installation. Using a grease pencil, outline both mounting feet.
3. Open hatch. **See Diagram B on back of sheet.** Remove the two round plastic plugs, one on the drivers' side and the other on the passenger side. These cut out holes in the secondary panel are where your screws will fasten the top of the Sportwing® later on in the installation. Next, on the drivers' side, just above where you removed the round plug, there is a rubber oval plug that is plugged into the secondary panel. Remove this plug from the secondary panel, this will give you access to your center fastening hole and access to wires to hook up the Sportwing® brake light wires later in the installation.
4. Set the Sportwing® on soft surface and place hole locators, provided, to align with threaded sleeves of mounting feet. **See Diagram C on back of sheet.** Using longer paper hole locator for center mounting sleeve, place the punched out hole in hole locator directly in alignment with the threaded sleeve of mounting foot. Use a small piece of scotch tape to hold in place. Next, use the black plastic hole locator for the front (top) mounting hole, place the plastic stud back onto the outline marks, making sure that the hole locators stay in place. Tape all four hole locators onto the hatch of vehicle so that when you carefully lift Sportwing® off vehicle, the hole locators will stay in place. Set the Sportwing® aside. Slightly open hatch and using a 1/8" or similar drill bit, drill a 1/8" pilot hole through the center of each hole locator into the top panel of hatch. Remove hole locators from vehicle. Notice on drivers' side, you will see both fastening holes on the top panel of hatch through the cut out plug holes. On the passenger side, you will see the top hole in the hatch through the factory cut out hole, but you will need to make an access hole in the secondary panel for the center fastening hole. Using a 5/32" XL extra long drill bit, drill through the top panel of 1/8" pilot hole that you made in the hole locator through the top panel and then continue drilling through the second panel which is located just below the top panel. Open hatch and continue to drill at the same angle through the third panel making sure that the drill does not hit the rain channel of hatch (*NOTE: before drilling completely through the third panel, make sure the drill bit exits in the approximate area of the drivers' side center fastening hole, see Diagram D on back of sheet*). Next, using a 1" hole saw, open this 5/32" pilot hole in third panel to 1". After opening third panel, insert hole saw into 1" hole and cut 1" hole in secondary (*middle*) panel. This will give you access to the top panel for fastening later on in the installation. A hole cap has been provided upon finishing.
5. Close hatch. Place the template, provided, inside the drivers' side outline that you made in Step #2. Drilling through the top panel only, drill a 3/8" hole on the designated spot of template for wire harness.
6. Next, you will need to open up the four fastening holes that you made in Step #4 in the top panel of hatch and open them to 3/8" (*NOTE: we suggest using a uni-bit for a cleaner cut*).

7. Holding onto the Sportwing<sup>®</sup>, place the Sportwing<sup>®</sup> back onto the outline marks made in Step #2 while feeding harness wires of the Sportwing<sup>®</sup> through the harness hole made in Step #3 (**NOTE: make sure wires are not crimped against edge of harness hole**). Starting on the passenger side, using shorter 1/2" mounting screws, provided, fasten the front mounting screws with lock washer and flat washer into the threaded sleeve of mounting foot. Finger tighten only. Repeat on drivers' side. Next, using long 1 1/2" screws, lock washers and flat washers, provided, fasten center mounting area. Tighten all screws evenly until tight. **DO NOT OVER TIGHTEN.**
8. **CONNECTING SPORTWING<sup>®</sup> BRAKE LIGHT:**  
Notice when you removed the larger black plug on the drivers side secondary panel, there will be a green wire with yellow stripe and white wire with black stripe. Fish the Sportwing<sup>®</sup> brake light wires through the secondary panel and using an electrical connector, provided, connect the red (*hot*) Sportwing<sup>®</sup> wire to the green wire with yellow stripe. Next, connect the black Sportwing<sup>®</sup> wire to the white wire with black stripe. Check your connections by stepping on the brake pedal.
8. Replace all plugs. Clean up all metal shavings and you are done. If you have any questions, problems or if you would like information about other quality Sportwing products, please call the TOLL FREE number at the top of this sheet. Thank you for choosing Dawn Enterprises, Inc.

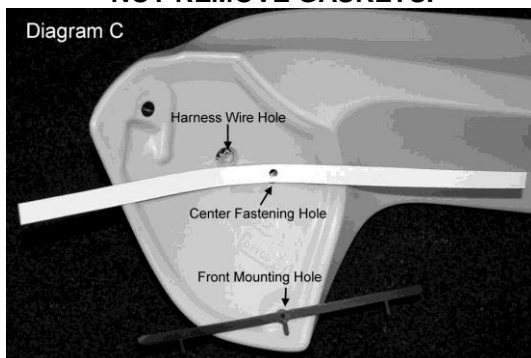


**DRIVERS' SIDE:** Remove plug for access to top panel. **IMPORTANT:** When drilling for drivers' side center fastening hole, make sure when drilling, that you push the factory harness wires to the side so you do not drill into them.



Remove plug. Replace upon finishing.

**IMPORTANT:** Hole locators are shown with out black rubber gaskets installed. When installing Sportwing<sup>®</sup>, place hole locators over the black rubber gaskets. **DO NOT REMOVE GASKETS.**



1" hole made in secondary panel of passenger side for fastening center mounting screw later in the installation.

