

Part Number: PT921-52081-XX

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Rear Wind Deflector
1	1	Hardware bag

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	2	Nut, 10 mm
2	2	Bolt, T30 Torx
3	1	Nut Cover

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	1	DIO Install Kit P/N PT921-52081

Conflicts

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Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Blankets	
Wrist & Belt Protectors	
Masking Tape	2"
Special Tools	Notes
None	
Installation Tools	Notes
Socket	10 mm, 12 mm
Ratchet	
Panel Clip Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Center Punch	
Twist Drill Bit	3mm, 8mm, 10mm
Drill Motor	½"
Torque Wrench	0-100 lbf-in
Hex Nut Driver	10 mm
Drill Stops	
Shop Vacuum	
Hole Deburring Tool	
Magnet with Flex Shaft	
Small Parts Bin	
Extension	6"
Torx Socket	T30
Special Chemicals	Notes
Cleaner	3M™ Prep Solvent 70
Sealant	3M Ultra-Pro Body Sealant

NOTE: Part number of this accessory may not be the same as the part number shown.

General Applicability

xB 2008-

Recommended Sequence of Application

Item #	Accessory
1	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description
1		
2		

Legend



STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.



OPERATOR SAFETY: Use caution to avoid risk of injury.



CAUTION: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.



TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.

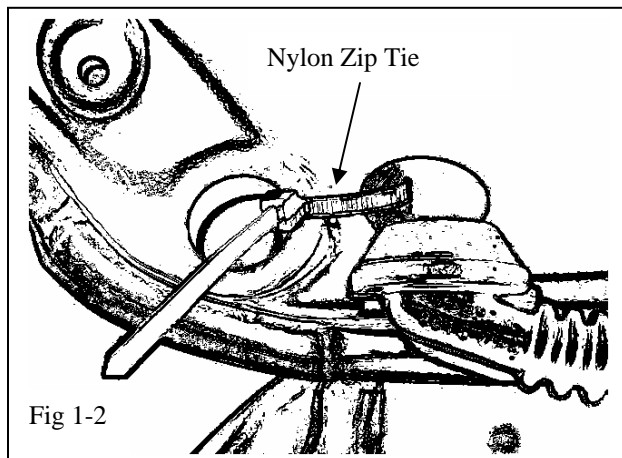
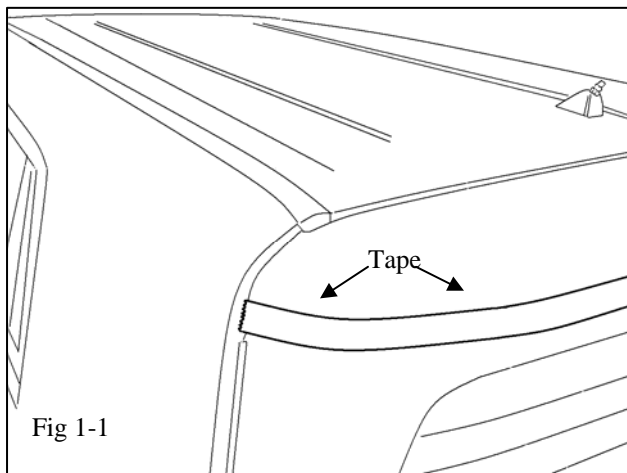
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.



1. Vehicle Preparation.

(a) Verify kit contents.



(b) Installation of the Rear Wind Deflector should not take place until the following have been met:

(1) Car wash completed.

(2) Vehicle and Parts are at least 70 degrees Fahrenheit. Use a heat strip to warm body and deflector if necessary.

(c) Use masking tape to cover the gap between the back door wind deflector mounting face and the back door glass to prevent chips from entering the gap while drilling. (Fig 1-1)

(d) Open the back door.

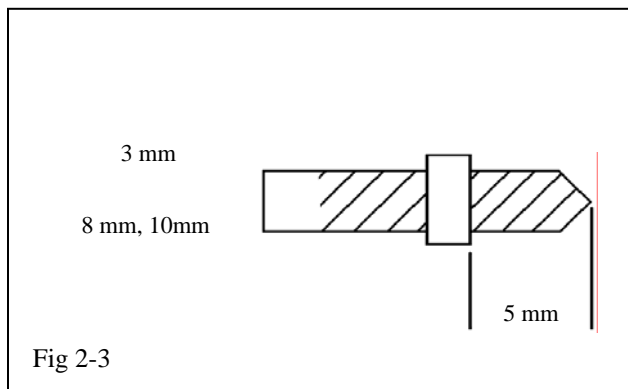
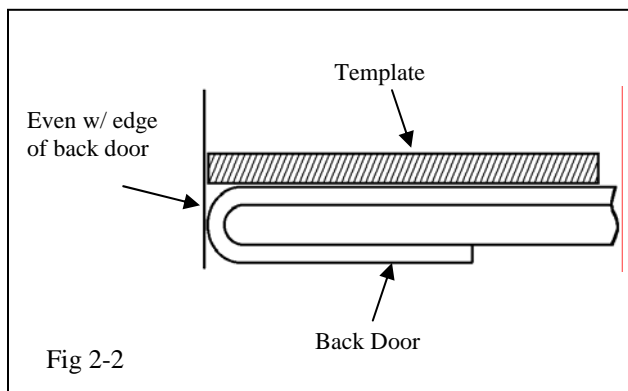
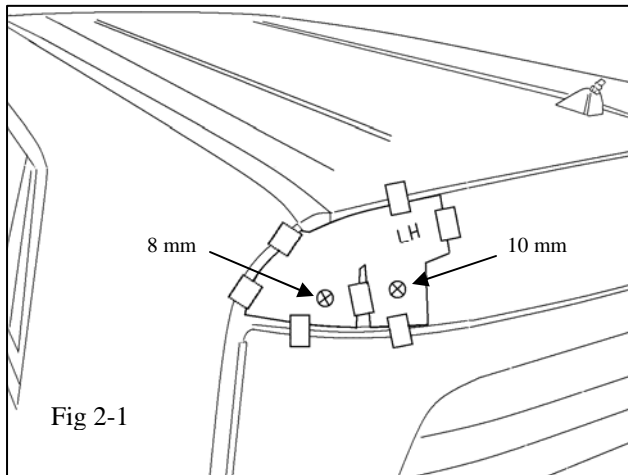
(e) Place blankets in the cargo area.

(f) On the inner LH upper corner of the back door:

(1) Remove the outer rubber grommet cover along with the plastic clip and retain for re-installation.

(2) Carefully remove the rubber wire harness tube and move the harness to one side of the hole and secure it with a nylon zip tie. (Fig 1-2)

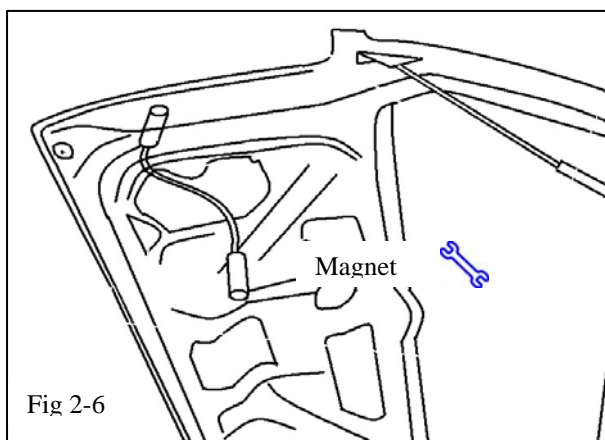
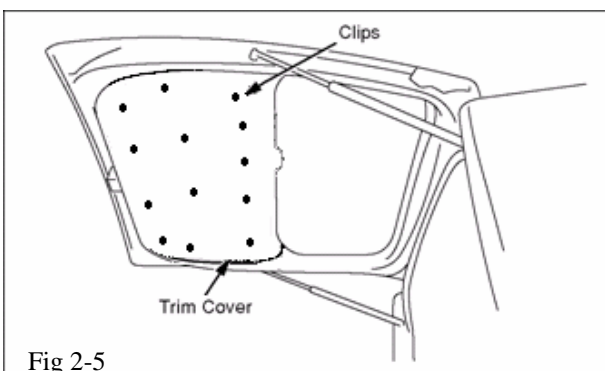
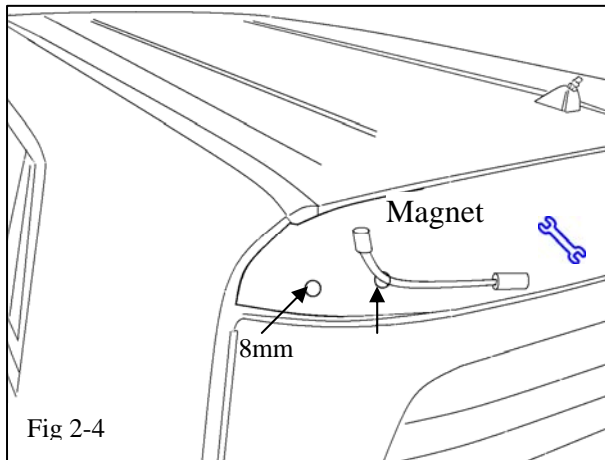
(g) On the inner RH corner of the back door:





- (1) Remove the outer rubber grommet cover along with the plastic clip and retain for re-installation.
- (2) Remove the inner rubber grommet and retain for re-installation.

2. Hole Drilling

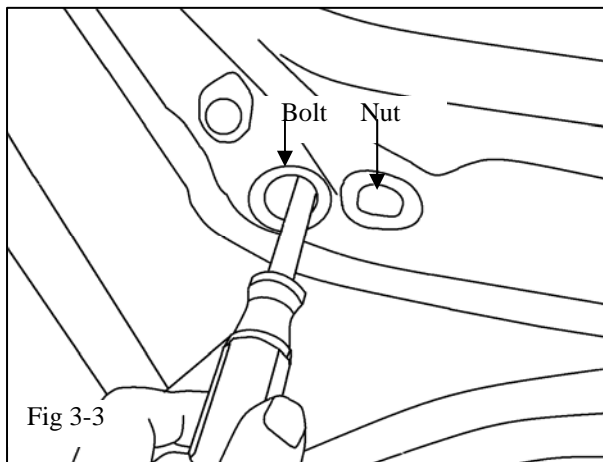
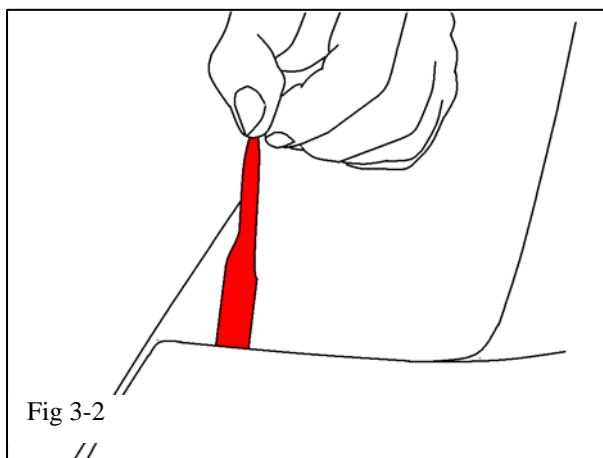
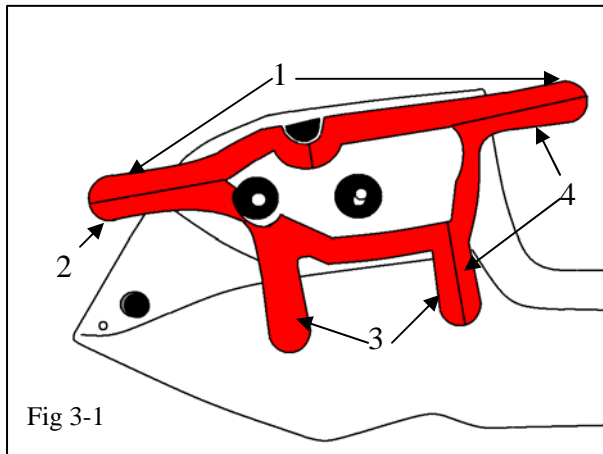
- +** (a) Eye protection must be worn during all hole drilling.
 - (b) Close the back door and place the Outer LH and RH Drill Templates onto the back door of the vehicle. (Fig. 2-1)
 - (c) Make sure the template is flat, smooth and properly aligned with the front and side edges of the back door and tape where indicated. (Fig. 2-2)
 - (d) Locate the hole locations on each template (2 holes per side).
 - (e) Using the center punch, punch the centers of the four (4) hole locations. Remove the templates.
 - (f) Apply a blanket to the outside of the back door at the same height where the masking tape covers the sheet metal/glass gap.
 - (g) Set the drill bit depths as shown. (Fig 2-3)
- CAUTION:** Be careful not to cut or damage the wire harness on the left inside of the door.
- (h) Using the 3 mm bit, drill a pilot hole at all four (4) locations.
 - (i) Using the 10 mm bit, drill the inner two (2) locations.
 - (j) Using the 8 mm bit, drill the outer two (2) locations.
 - (k) Debur all previously drilled holes.



- (l) Carefully vacuum the back door surface, masking tape, and the surrounding area of  drilling debris. Use a magnet with a flexible shaft to remove any remaining chips. (Fig 2-4)
- (m) Remove the blanket from the back door.
- (n) Open the back door and remove the nylon zip tie securing the wire harness on the LH side.
- (o) Grab the back door and with an up and down motion, vigorously shake the back door to dislodge any metal chips remaining from the drilling process. Use a magnet with a flexible shaft to remove any remaining chips.
- (p) Remove the masking tape used to cover the gap between the back glass and sheet metal.
- (q) Using a nylon pry tool, remove the inner door panel. If any clips remain in the back door, remove and reinsert back into the trim panel. (Fig 2-5)
- (r) Insert the flex magnet through the service holes to remove the metal chips. (Fig 2-6)
- (s) Close the back door.
-  (t) The back door where the rear wind deflector attaches must be cleaned with 3M™ Prep Solvent 70 and a lint free cloth.
 - (1) When cleaning with 3M™ Prep Solvent 70 follow manufactures directions. Do not allow cleaner to air dry.
- (u) After cleaning, carefully apply 3M™ Ultra-Pro Body Sealant to all drilled hole edges.

3. Rear Wind Deflector Installation

- (a) On both the LH and RH tape pads, peel up only the pull tab portion at all four pull tab locations and lightly re-seat the pull tabs to



facilitate red backer removal. Do not remove the red backer at this time. (Fig. 3-1)

- (b) Wrap the 10 mm socket and extension with masking tape to prevent damage to the wire harness.



- (c) Align the studs in the rear wind deflector with the holes in the back door and place the rear wind deflector onto the back door.

- (d) Hold the rear wind deflector in place and carefully open the back door. Loosely install the hardware (two 10 mm nuts, and two T30 Torx bolts) enough to just secure the rear wind deflector.

- (e) Close the back door and carefully remove the two upper most pieces of red backer labeled #1. (Fig 3-1) If needed, use your fingers to lift up the edge of the rear wind deflector to aid in removing the red backer.

- (f) Place the leading edge of the rear wind deflector within 4 mm to the edge of the rear door and lightly stick in place.

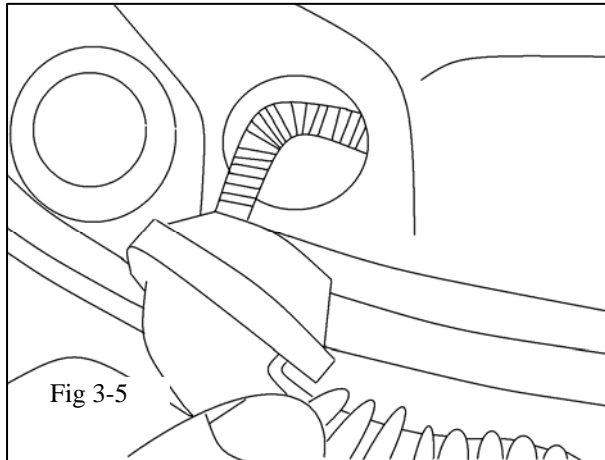
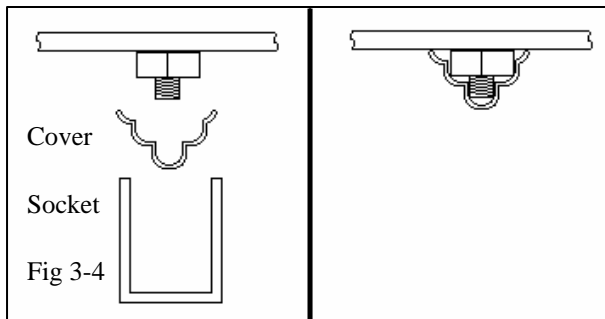
- (g) Continue carefully removing the red backers, lifting up on the rear wind deflector with your fingers, in the following sequence. (Fig 3-2)

- (1) Remove tab/red backer #2.
- (2) Remove tabs/red backer #3.
- (3) Remove tabs/red backer #4.

CAUTION: Be careful when pulling the backer from the corner pieces not to tear the backer at any of the sharp corner angles.

- (h) Apply pressure to each end of the rear wind deflector to ensure good tape adhesion.

- (i) Open the back door and torque nut and bolt to 50 lbf-in. (Fig 3-3)



- (j) Place a small amount of 3M Ultra Pro Body Sealant on the inside of the nut cover to adhere it to the nut.
- (k) Using a 12 mm socket wrapped in masking tape, install the stud cover over the stud/nut fastener on the LH side only. (Fig 3-4)
- (l) On the LH side, re-install the wire harness tube and the rubber grommet cover on the inner back door. (Fig 3-5)
- (m) On the right hand side, re-install the inner grommet and the outer rubber grommet cover.
- (n) Clean off remaining fingerprints on the rear wind deflector and the back door.

4. Final Checks

- (a) Verify that all metal chips have been vacuumed off the vehicle.
- (b) Verify there is no interference between back door and the rear wind deflector when the back door is fully open.
- (c) Re-install interior door panel.

Checklist - these points **MUST** be checked to ensure a quality installation.

Check:

Look For:

Accessory Function Checks

- ☐ Verify rear wind deflector does not interfere with antennae.

20 mm clearance between rear wind deflector and antennae.

Vehicle Function Checks

- ☐ Open door and verify rear door operation.
- ☐ Verify Rear windshield wiper, CHMSL, wiper mister, and license plate light function.

Rear door should open freely.

Each item should operate normally.