

**Part Number: PT29A-74110-XX**

**Kit Contents**

| Item # | Quantity Reqd. | Description              |
|--------|----------------|--------------------------|
| 1      | 1              | Painted Spoiler Assembly |
| 2      | 1              | Hardware Bag             |
|        |                |                          |

**Hardware Bag Contents**

| Item # | Quantity Reqd. | Description     |
|--------|----------------|-----------------|
| 1      | 2              | M6 Bolt         |
| 2      | 2              | M6 Well Nut     |
| 3      | 1              | Cover, LH       |
| 4      | 1              | Cover, RH       |
| 5      | 2              | Plastic Grommet |

**Additional Items Required For Installation**

| Item # | Quantity Reqd. | Description                        |
|--------|----------------|------------------------------------|
| 1      | 1              | DIO Install Kit<br>P/N PT29A-74111 |

**Conflicts**

|      |
|------|
| None |
|------|

**Recommended Tools**

| <b>Personal &amp; Vehicle Protection</b> | <b>Notes</b>  |
|--|---|
| Safety Glasses                           |   |
| Vehicle Protection                       | Blankets & Masking Tape                               |
|  |   |
| <b>Special Tools</b>                     | <b>Notes</b>  |
| Non Intrusive IR Temperature Probe/Gun   |   |
|  |   |
| <b>Installation Tools</b>                | <b>Notes</b>  |
| Drill Motor                              | 1/2"  |
| Twist Drill Bit                          | 1/8", 1/4", 3/8", 15/32", 31/64"                      |
|  |   |
| Drill Stops                              | 1/8", 1/4", 3/8", 15/32", 31/64"                      |
| Hex Nut Driver                           | 10 mm   |
| Deep Well Socket                         | 10 mm   |
| Socket Extension                         | 3"  |
| Ratchet                                  |   |
| Torque Wrench                            | 0-100 lbf-in  |
| Fastener Removal Tool                    |   |
| Nylon Removal Tool                       | e.g. Panel Pry Tool #1<br>Toyota SST # 00002-06001-01 |
| Shop Vacuum                              |   |
| Hole Deburring Tool                      |   |
| Magnet With Flex Shaft                   |   |
|  |   |
| Small Parts Bin                          |   |
| Heat Gun                                 |   |

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

|  |  |
|--|--|
|  |  |
|--|--|

| <b>Special Chemicals</b> | <b>Notes</b>              |
|--------------------------|---------------------------|
| Sealant                  | 3M Ultra-Pro Body Sealant |
| Cleaner                  | 3M Prep Solvent-70        |
|                          |                           |

**General Applicability**

|                     |
|---------------------|
| All Scion iQ Models |
|---------------------|

**Recommended Sequence of Application**

| Item # | Accessory |
|--------|-----------|
| 1      | None      |
| 2      |           |
| 3      |           |

\*Mandatory

**Vehicle Service Parts** (may be required for reassembly)

| Item # | Quantity Reqd. | Description                              |
|--------|----------------|--|
| 1      |                | Fastener<br>P/N 90467-07042-CO           |
| 2      |                | White Panel Fastener,<br>P/N 67771-89104 |
|        |                |  |

**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.

 **REVISION MARK:** This mark highlights a change in installation with respect to previous issue.

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.



Fig. 1-1

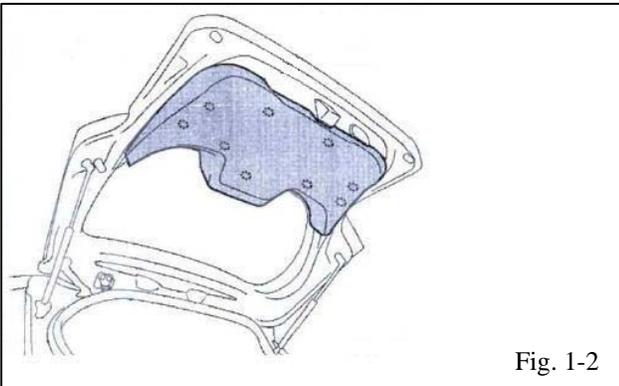


Fig. 1-2

### 1. Trim Panel Removal.

- Open the Lift Gate.
- Fold the rear seats forward and place blankets inside the cargo area and the lift gate opening. (Fig. 1-1)

- Remove the trim panel across the inside of the lift gate window. (Fig. 1-2)

Note: Make sure all nine fasteners clips remain in the trim panel

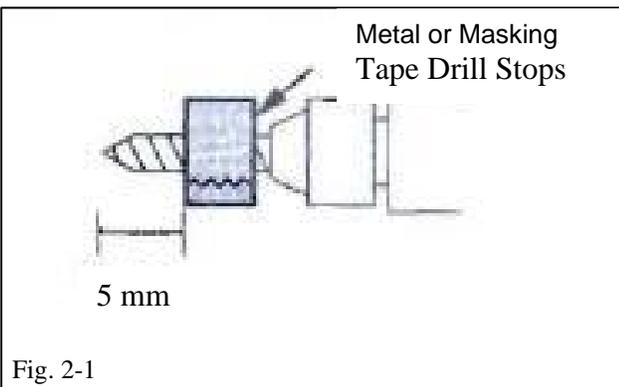
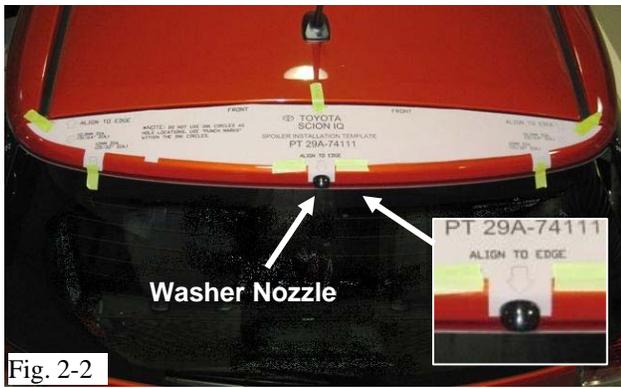


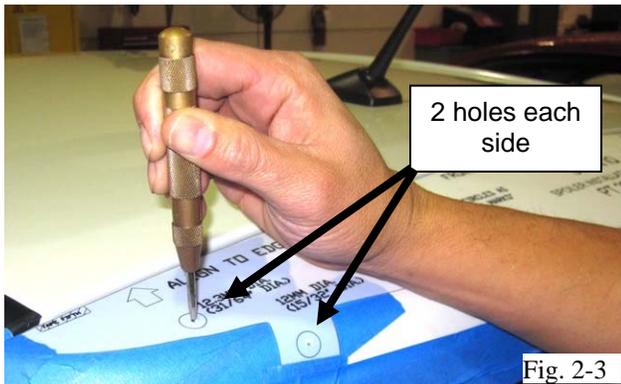
Fig. 2-1

### 2. Hole Drilling

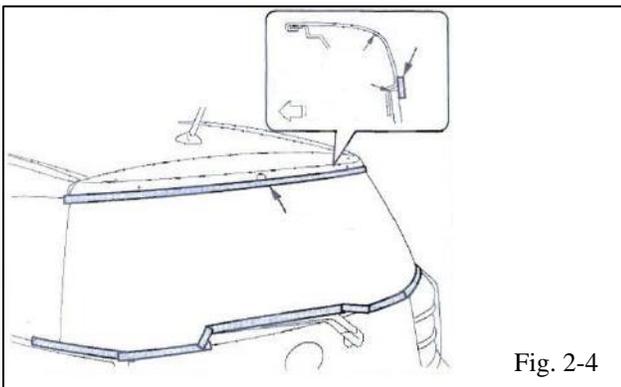
-  (a) Eye protection must be worn during all hole drilling.
-  (b) Set all drill stops to as shown. (Fig. 2-1)



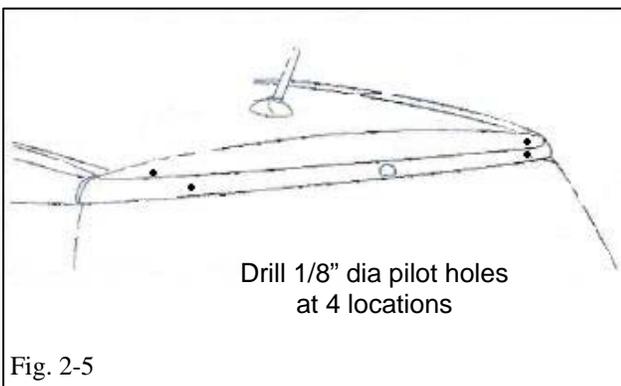
(c) Align the Mylar Template on the top surface of the lift gate and tape it in place. The forward edge of the template follows the forward top edge of the lift gate and the centering notch goes over the washer nozzle. (Fig. 2-2)



(d) Center punch four (4) as shown (Fig. 2-3) and then remove the template.

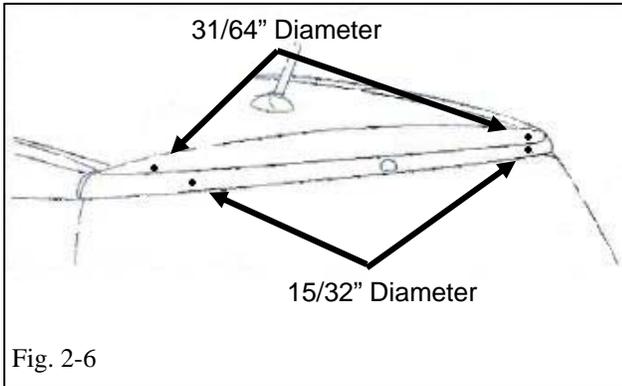


(e) Apply masking tape along the top and bottom of the liftgate glass and across the wiper blade to prevent metal chips from getting into small openings. (Fig 2-4)



(f) Drill a 1/8" pilot hole at each of the 4 center punched hole locations. (Fig. 2-5)

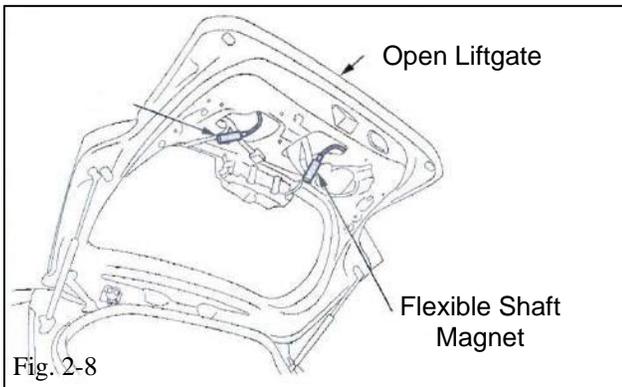
**Note:** It makes drilling the final holes easier if they are enlarged in steps, i.e., 1/8" followed by 1/4", and then 3/8" before proceeding to step 2(g).



(g) Enlarge the two (2) upper forward holes using a 31/64" dia drill bit. Enlarge the two (2) lower rear holes using a 15/32" dia drill bit (Fig 2-6).



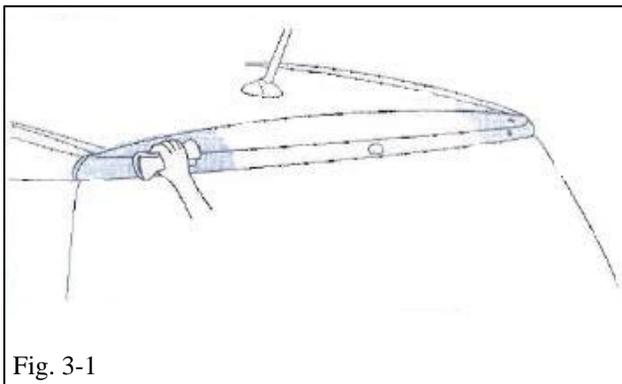
(h) Carefully deburr each of the four (4) drilled holes using a deburring tool (Fig. 2-7).



(i) Vacuum the surface of the trunk lid and the surrounding drilled areas and remove masking tape.

(j) Open the lift gate and use a magnet with a flexible shaft to remove any remaining metal chips and or discs from the drilling process. (Fig. 2-8)

### 3. Preparation for Spoiler Attachment

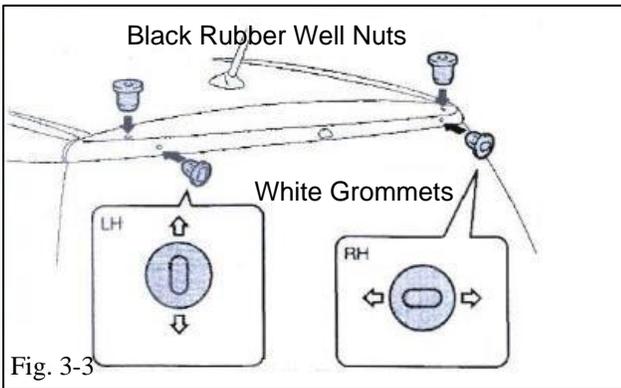


(a) The trunk lid where the spoiler attaches must be cleaned with 3M Prep Solvent-70 and a lint free cloth. (Fig. 3-1)



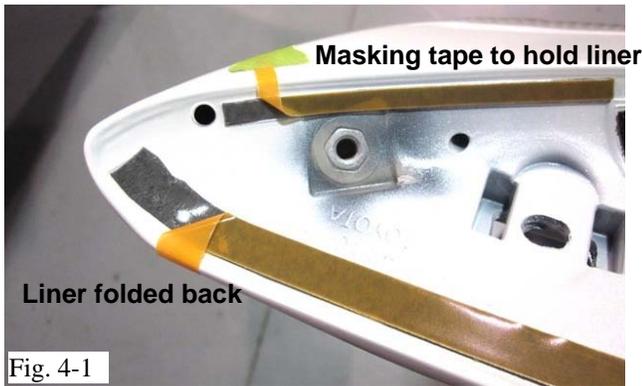
(b) After cleaning, carefully apply 3M Ultra-Pro Body Sealant to all drilled hole edges. (Fig. 3-2)

(c) The trunk and spoiler should be a minimum of 60° F for proper set-up of adhesive tape. Use a hot air blower to heat the surface if the temperature is below 60° F. The adhesive tape on the spoiler must have full contact between spoiler and trunk lid for proper sealing to trunk lid.

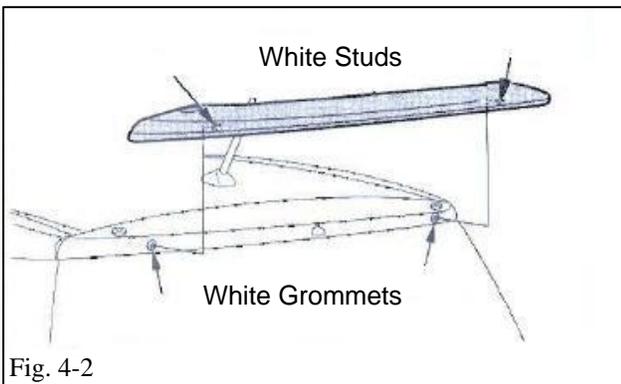


(d) Insert a M6 black rubber Well Nut into each of the upper forward 31/64" dia. holes. Snap a white plastic grommet in each of the two outer 15/32" dia. holes with the long axis oriented as shown. (Fig 3-3)

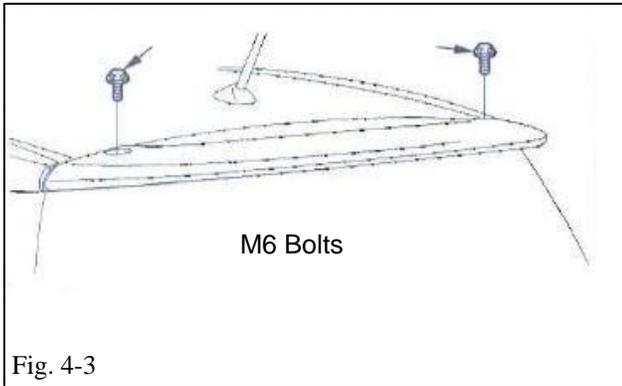
#### 4. Attaching the Spoiler to the Lift Gate.



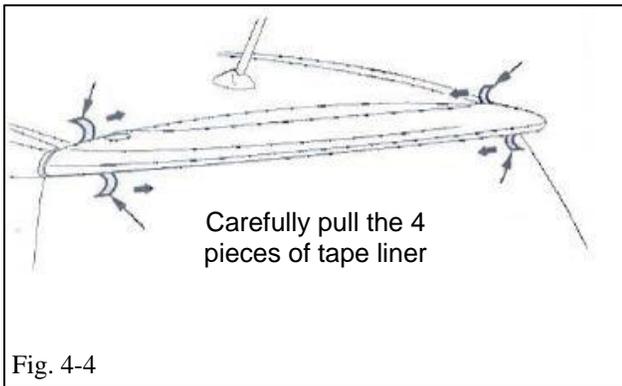
(a) Peel back a small length of the plastic liner from each of the 4 adhesive tape pads and using masking tape, adhere the ends of the liners to the outer painted surface of the spoiler. Be careful not to touch or allow any contaminants to come into contact with adhesive pads. (Fig. 4-1)



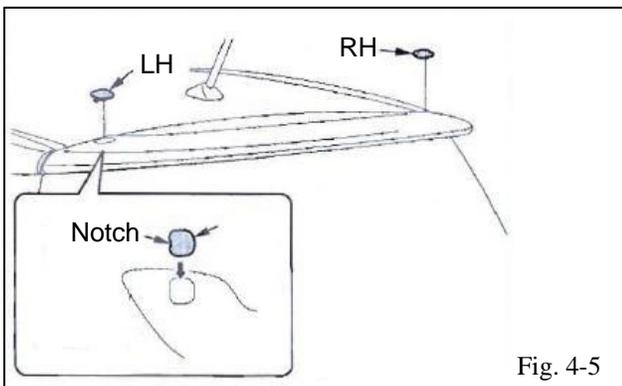
 (b) Using your finger tips, hold the spoiler over the liftgate with the white studs on the bottom of the spoiler aligned to with the white grommets. Once everything is aligned, press forward to snap the studs into the grommets. You should hear a click as each stud snaps in place. (Fig. 4-2)



- (c)  Install a M6 bolt through the openings on top of the spoiler into the rubber Well Nuts. Using a nut driver run the bolts down but do not tighten at this time (Fig. 4-3).



- (d) Carefully pull and remove the 4 pieces of tape liner. Once removed, press on the spoiler to fully adhere the tape to the liftgate (Fig. 4-4).
- (e) Hand tighten both M6 bolts using a 10mm Nut Driver until they feel snug. Torque to 20 lbf-in (2.3 Nm).



- (f)  Install the two (2) covers. These are marked LH and RH on the bottom of each cover. (Fig. 4-5). Each cover has a notch on one side that goes toward the outside.

## 5. Reassemble the Vehicle

- (a) Reinstall the trim panels removed in step 1 (c). Be sure that all the panel clips are engaged.
- (b)  Check that there are no drill shavings/chips in vehicle trunk area and rear bumper.

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

| <u>Check:</u>   | <u>Look For:</u>   |
|---|--|
| <u>Accessory Function Checks</u><br><br><input type="checkbox"/> Check for spoiler alignment.<br><br><input type="checkbox"/> Check for full tape adhesion. | Centered from side to side (+- 2 mm.)<br><br>Full adhesion with no gaps. |
| <u>Vehicle Function Checks</u><br><br><input type="checkbox"/> None Required  |  |