

**Part Number: PT907-12190-XX,  
PT907-12191**

**Kit Contents**

Item #	Quantity Reqd.	Description
1	1	Hood Protective Film
2	1	Front Fender Protective Film (DS,PS)
3	1	Hood Extension Protective Film
4	1	Mirror Back Protective Film (DS,PS)
5	1	Door Cup Protective Film (4Pcs.)
6		Front Bumper Protective Film (5Pcs.)
7	1	Care Card

**Hardware Bag Contents**

Item #	Quantity Reqd.	Description
1		
2		

**Additional Items Required For Installation**

Item #	Quantity Reqd.	Description
1		

**Conflicts**

None
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**Recommended Tools**

<b>Personal &amp; Vehicle Protection</b>	<b>Notes</b>
<b>Special Tools</b>	<b>Notes</b>
Squeegee	4" 3M™ Orange Applicator #71607
<b>Installation Tools</b>	<b>Notes</b>
Spray Bottles	
Pump Sprayer	
Towel	Wypall® L40 All-Purpose Wipers
"T" Shirt Material	Supplied by CTC Supplies
Dropper	Measures ml
Heat Gun	
<b>Special Chemicals</b>	<b>Notes</b>
Wetting Agent	Johnson's® Baby Shampoo(5 ml to 64oz. of water)

**General Applicability**

MY19 Corolla Hatchback and newer vehicles
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**Recommended Sequence of Application**

Item #	Accessory
1	Hood Protective Film
2	Front Fender Protective Film (DS,PS)
3	Hood Extension Protective Film
4	Mirror Back Protective Film (DS,PS)
5	Door Cup Protective Film (4Pcs.)
6	Front Bumper Protective Film (5Pcs.)
7	Care Card

\*Mandatory

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

Item #	Quantity Reqd.	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.

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

 **SAFETY TORQUE:** This mark indicates that torque is related to safety.

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. Prepare for the Installation.**



(a) To ensure the best results during an installation you must set-up an installation area that is safe and clean. The following items should be considered when selecting an area for installation:

(1) Installation should be performed in an ambient temperature from 45° Fahrenheit to 95° Fahrenheit. Adjust wetting solution according to the ambient temperature. The following is stated for the 64 oz. wetting agent:

(a) 45 ° F - 65 ° F = 4 ml Baby Shampoo

(b) 65 ° F - 75 ° F = 5 ml Baby Shampoo

(c) 75 ° F - 85 ° F = 6 - 7 ml Baby Shampoo

(d) 85 ° F - 95 ° F = 7 - 8 ml Baby Shampoo

(2) Avoid installing in direct sunlight or extreme heat environment.

(3) Avoid installing material when vehicle surface is over 95° Fahrenheit.

(4) Do not attempt to apply film during windy conditions.

(5) Keep installation area free of dust, grease, or other small particles that can become airborne, i.e. wax dust, paint overspray, etc.

(6) Installation area must be well lit.

## 2. Prepare the Vehicle Surface.

-  (a) Before beginning any installation, the installer should perform the following steps to prepare the vehicle's surface:
- (1) Remove vehicle wrap-guard material from application areas.
  - (2) Wash / clean application surface thoroughly
  - (3) Remove any contaminations such as grease, oil, wax, dirt, bug residue, or road tar with approved VDC cleaner, followed by approved VDC window cleaner.
  - (4) Inspect painted surfaces for existing damage or for fresh, loose, and/or scratched paint. It is recommended that any existing damage be repaired before installation.
  - (5) Clean the vehicle using baby shampoo solution and a towel.
  - (6) Spray the vehicle with baby shampoo solution generously and remove with California® Water Blade.

## 3. Remove the Film Material from the Liner.

- (a) Check pattern accuracy with the vehicle. Make sure all necessary pieces are present.
-  (b) Before handling the film, make sure that hands are clean. Then proceed to spray hands with the wetting agent to prevent transfer of fingerprints to the material. Keep hands wet throughout the install procedure.
- (c) Remove material from liner. Continue to spray material with the wetting agent to prevent the adhesive side from sticking to itself. Keep hands wet.

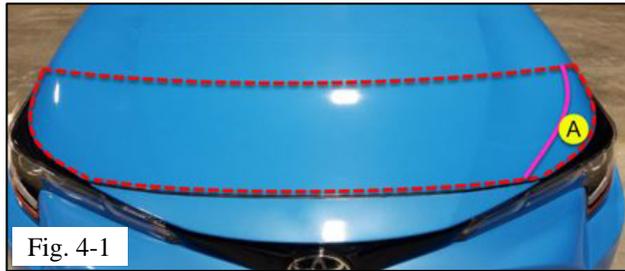


Fig. 4-1

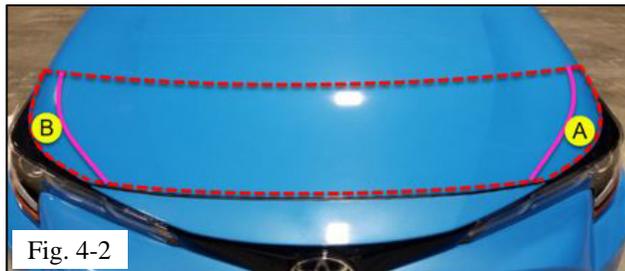


Fig. 4-2

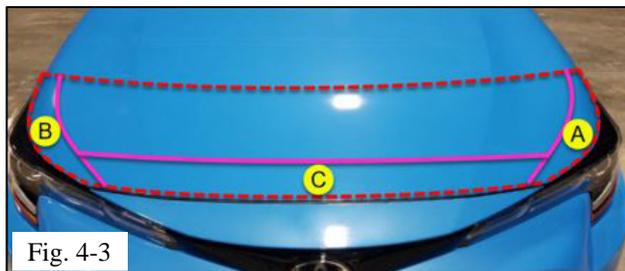


Fig. 4-3

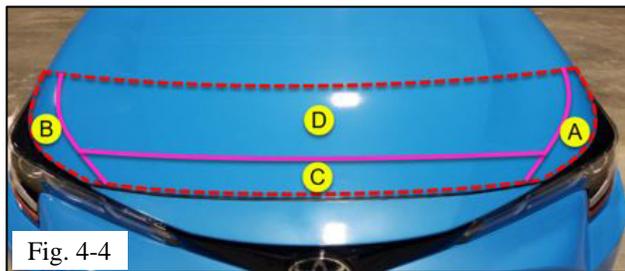


Fig. 4-4

#### 4. Hood Installation Procedure.

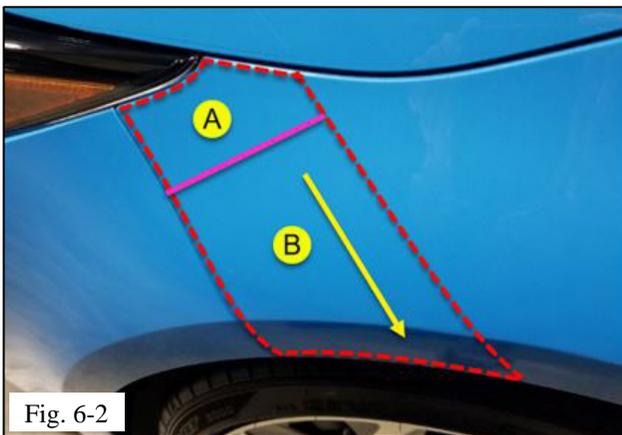
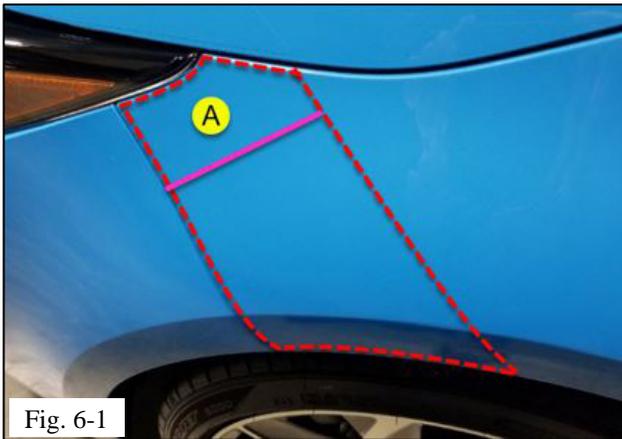
- (a) Align the lower front corner of section (a) within the proper tolerance and tack down with the squeegee. Pull the material out and away from your tack point, hold film in position for alignment and secure it by removing the solution with the squeegee (Fig. 4-1).
- (b) Apply your alcohol solution underneath the lower edge of this section. Pull the material across the hood to align the lower edge. Hold film in position with one hand and use the squeegee in the other to secure it. Continue working along the outside edge pulling the film into position and securing it with the squeegee (Fig. 4-2).
- (c) Place one hand at the lower edge near the center to move the film into position so that it is aligned properly. Use the squeegee to push the solution away from steps (a) and (b) towards the center and then out through the lower edge securing the film in place (Fig. 4-3).
- (d) Using upward and inward strokes with the squeegee remove the remaining water from beneath the material. The water will leave from beneath the material only out the top edge of the piece. Never attempt to force the water back through an area that has already been tacked to prevent distortion of the clarity. Use a triangular pattern to remove the water from the middle and make sure there is no water or air remaining beneath the film.
-  (e) Check surface for bubbles or any other defects before continuing.

**5. Seal all of the Edges.**

- (a) This will be necessary after each individual piece. With the “T” shirt material wrapped around the hand, apply heat with the heat gun from 6 to 8 inches away from the vehicle panel. Angle the heat gun to heat the glue side of the material as opposed to the clear coat side. First, apply heat, and then wipe the material edge down with the “T” shirt wrapped hand. The film will be very pliable so take care to not distort the film. This process should be applied to the entire outer edge of the piece to seal the piece completely.

**6. Front Fender Installation Procedure.**

- (a) Line up front fender with the upper edge and tack the material down with the squeegee so that it is secure (Fig. 6-1).



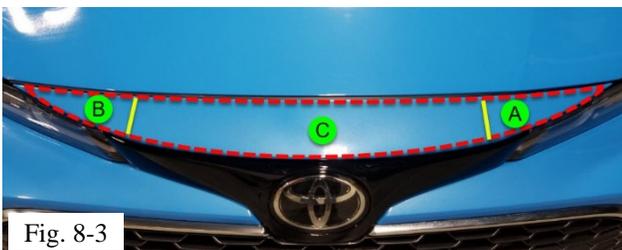
- (b) Apply downward and outward tension to relieve any fingers that occur on the fender’s edge and secure by pushing all solution down and out the lower edge near the wheel well (Fig. 6-2).
- (c) The same sequence of steps is used to apply the opposing side.
-  (d) Check surface for bubbles or any other defects before continuing.

**7. Seal all the Edges.**

- (a) This will be necessary after each individual piece. With the “T” shirt material wrapped around the hand, apply heat with the heat gun from 6 to 8 inches away from the vehicle panel. Angle the heat gun to heat the glue side of the material as opposed to the clear coat side. First, apply heat, and then wipe the material edge down with the “T” shirt wrapped hand. The film will be very pliable so take care to not distort the film. This process should be applied to the entire outer edge of the piece to seal the piece completely.

**8. Hood Extension Installation Procedure.**

- (a) Align the edges of this section within the proper tolerance and tack down with the squeegee (Fig. 8-1).
- (b) Apply alcohol solution underneath the outer edge of this section. Pull the material from right to left to align the outer edges. Hold the tension of the stretch with one hand and use the other to secure the film (Fig. 8-2).
- (c) Position the film properly and secure it by pushing all remaining solutions towards the center and out through the upper and lower edges (Fig. 8-3).
-  (d) Check surface for bubbles or any other defects before continuing.

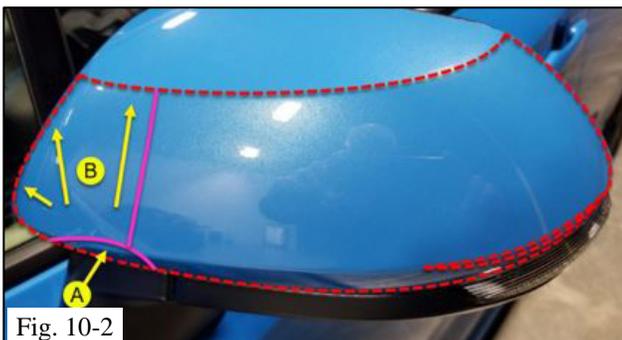


**9. Seal all the Edges.**

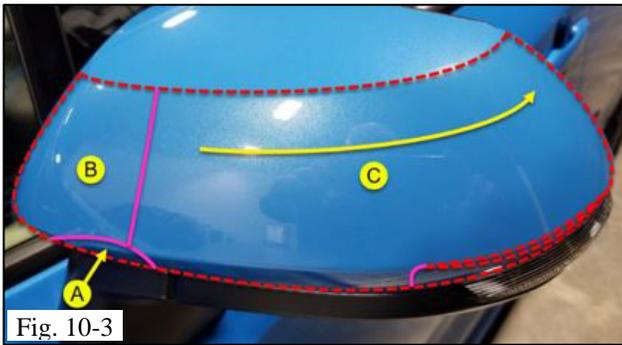
- (a) This will be necessary after each individual piece. With the “T” shirt material wrapped around the hand, apply heat with the heat gun from 6 to 8 inches away from the vehicle panel. Angle the heat gun to heat the glue side of the material as opposed to the clear coat side. First, apply heat, and then wipe the material edge down with the “T” shirt wrapped hand. The film will be very pliable so take care to not distort the film. This process should be applied to the entire outer edge of the piece to seal the piece completely.

**10. Mirror Back Installation Procedure.**

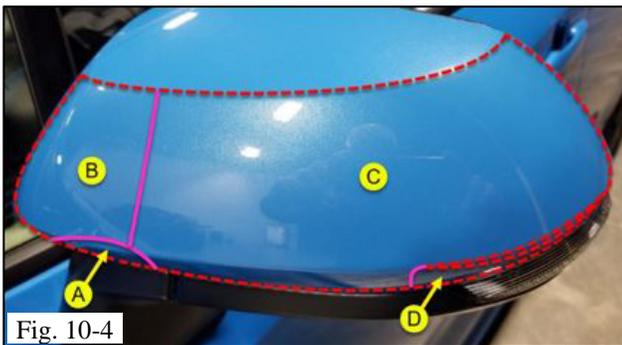
- (a) Align the lower edge. Apply a small amount of alcohol solution underneath the material and secure the film with the squeegee (Fig. 10-1).



- (b) Apply alcohol solution under the upper edge of this section. Grip the film with your fingertips and gently wrap it up and around the mirror only pulling enough to conform the film to the vehicle panel. Follow up with the squeegee to secure the film in place. Use alcohol solution as needed to help lay down any fingers that remain (Fig. 10-2).



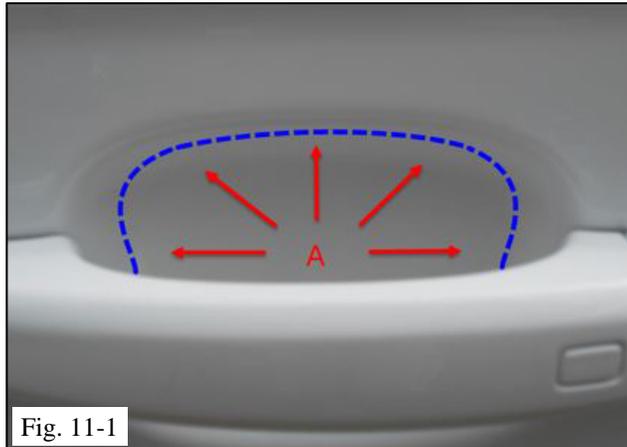
(c) Apply alcohol solution underneath the outer edge of this section. Grip the material with your fingertips and pull the film outward wrapping it around the curved surface to alleviate fingers on the upper edge. Hold the tension of the stretch with one hand and use the squeegee in the other to push the solution from the center of the piece out through the outer edge securing the film in place. Be sure the outer edge and lower seam are aligned within the proper tolerance before securing with the squeegee (Fig. 10-3).



(d) Apply your alcohol solution underneath the outer edge of this section. Pull the film outward to align the lower and outer edges. Hold the film in place and use the squeegee to secure it by removing the solution (Fig. 10-4).

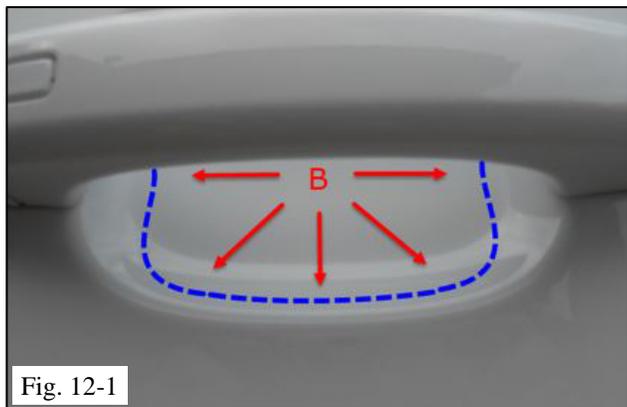
(e) The same sequence of steps will be used to apply the opposing side.

 (f) Check surface for bubbles or any other defects before continuing.



### 11. Seal all the Edges.

- (a) This will be necessary after each individual piece. With the “T” shirt material wrapped around the hand, apply heat with the heat gun from 6 to 8 inches away from the vehicle panel. Angle the heat gun to heat the glue side of the material as opposed to the clear coat side. First, apply heat, and then wipe the material edge down with the “T” shirt wrapped hand. The film will be very pliable so take care to not distort the film. This process should be applied to the entire outer edge of the piece to seal the piece completely (Fig. 11-1).



### 12. Door Cup Installation Procedure.

- (a) Apply wetting agent to part and alcohol solution to the surface of the door. Place the film in the handle opening and center it using the top and bottom lip as a guide. Use your thumbs to gently wipe the center of the piece until it is tacked. Remove the remaining solution pushing it out gradually towards the edges working away from the center (Fig. 12-1).
- (b) Continue using your thumbs to remove the solution and work the piece down starting at the center gradually moving down and out towards the outside edges.
- (c) Repeat steps (a) and (b) on all doors.
-  (d) Check surface for bubbles or any other defects before continuing. The corners or skinnier portion of your application tool may be used to remove any stubborn bubbles that have been left behind.

### 13. Seal all the Edges.

- (a) This will be necessary after each individual piece. With the “T” shirt material wrapped around the hand, apply heat with the heat gun from 6 to 8 inches away from the vehicle panel. Angle the heat gun to heat the glue side of the material as opposed to the clear coat side. First, apply heat, and then wipe the material edge down with the “T” shirt wrapped hand. The film will be very pliable so take care to not distort the film. This process should be applied to the entire outer edge of the piece to seal the piece completely.

### 14. Front Bumper Installation Procedure.

- (a) Align the lower and upper edges within the proper tolerance then secure in place by removing the solution with the squeegee (Fig. 14-1).



Fig. 14-1

- (b) Apply your alcohol solution underneath the lower and upper edges. Stretch the film over to align within the proper tolerance. Hold the tension of the stretch with one hand while using the other to tack down the film so that it is secure (Fig. 14-2).

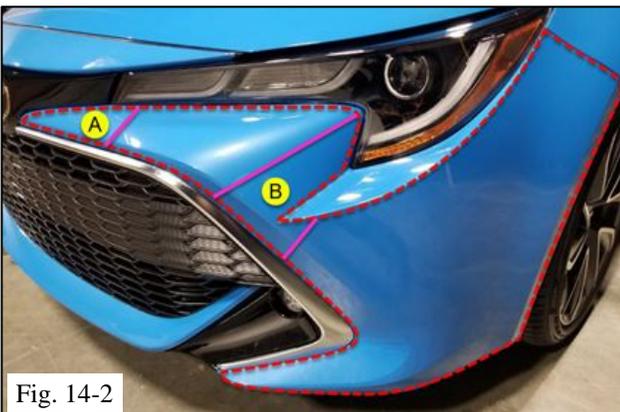
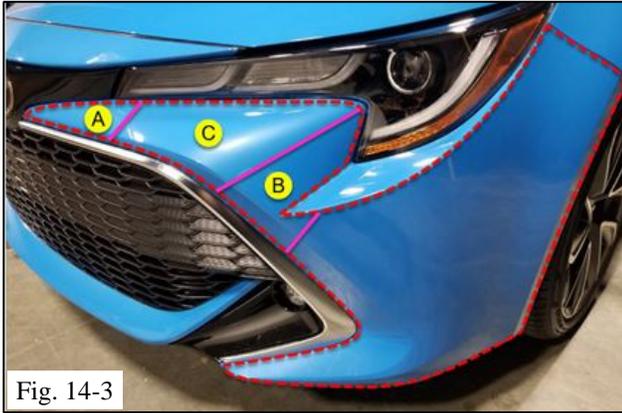
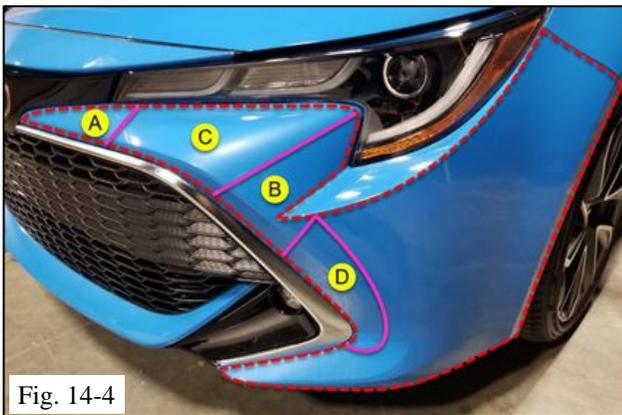


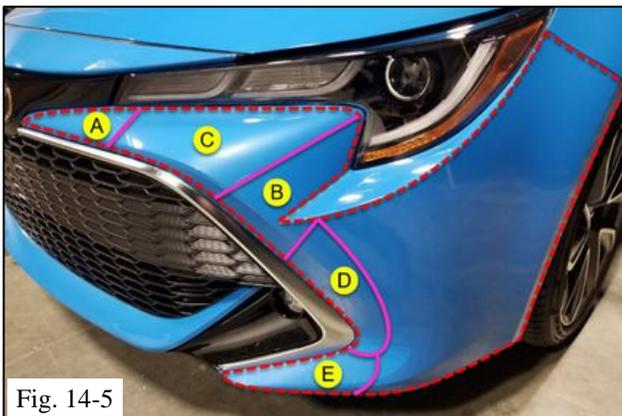
Fig. 14-2



(c) Remove the remaining solution from beneath the material pushing it out through the open edges near the head light and the grill (Fig. 14-3).



(d) Apply your alcohol solution underneath the inner edge. Pull the film into place aligning it around the grill trim. Hold in place and secure it with the squeegee (Fig. 14-4).



(e) Apply your alcohol solution underneath the inner point. Pull the film into place and wipe it down with your fingertips to secure it then remove the solution with squeegee (Fig. 14-5).

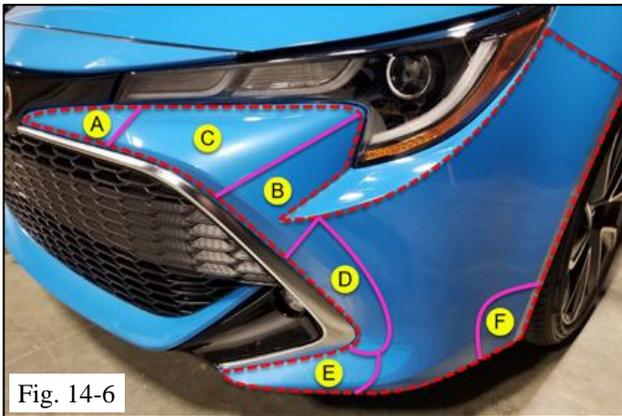


Fig. 14-6

- (f) Apply your alcohol solution underneath the outer edge. Stretch the film out to align the within the proper tolerance. Hold the tension of the stretch with one hand while using the other to tack down the material (Fig. 14-6).

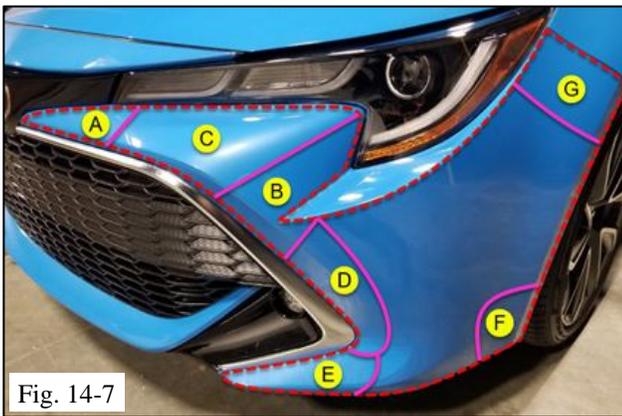


Fig. 14-7

- (g) Apply alcohol solution along the outside and upper edges. Stretch the material out and up to align the top corner near the head light as well as the lower corner near the wheel well. Hold the film in place with one hand and use the other to secure it with the squeegee (Fig. 14-7).

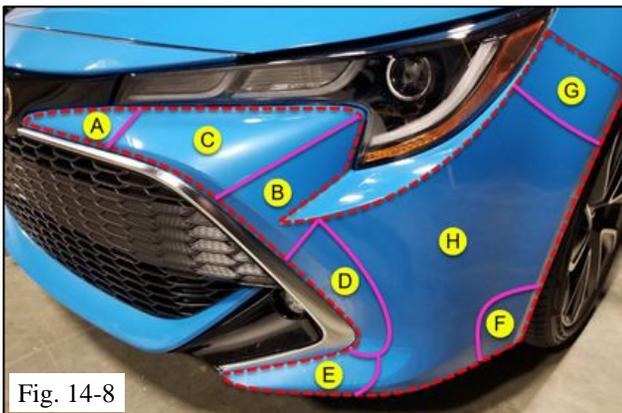


Fig. 14-8

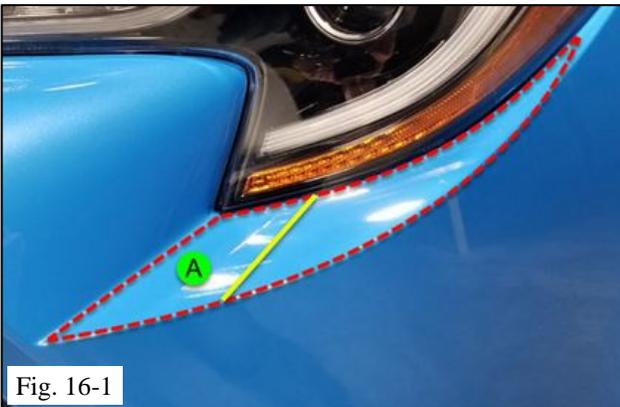
- (h) Remove the remaining solution from beneath the material pushing it out through the open edges. Never attempt to push solution back through an area that has already been secured (Fig. 14-8).
- (i) The same sequence of steps will be used to apply the opposing side.
-  (j) Check surface for bubbles or any other defects before continuing.

**15. Seal all the Edges.**

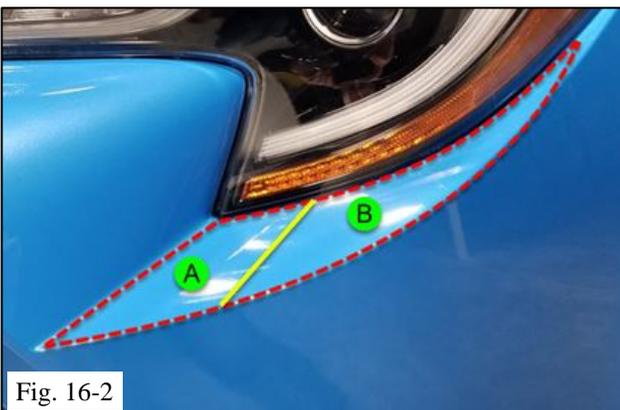
- (a) This will be necessary after each individual piece. With the “T” shirt material wrapped around the hand, apply heat with the heat gun from 6 to 8 inches away from the vehicle panel. Angle the heat gun to heat the glue side of the material as opposed to the clear coat side. First, apply heat, and then wipe the material edge down with the “T” shirt wrapped hand. The film will be very pliable so take care to not distort the film. This process should be applied to the entire outer edge of the piece to seal the piece completely.

**16. Headlight Trim Installation Procedure.**

- (a) Align the lower and upper edges within the proper tolerance then secure in place by removing the solution with the squeegee. Be sure not to overlap the front bumper piece that has already been installed (Fig. 16-1).



- (b) Continue removing the solution pushing it out away from step (a). Use alcohol solution as needed to ensure placement is kept (Fig. 16-2).
- (c) The same sequence of steps will be used to apply the opposing side.



-  (d) Check surface for bubbles or any other defects before continuing.

**17. Seal all Edges.**

- (a) This will be necessary after each individual piece. With the “T” shirt material wrapped around the hand, apply heat with the heat gun from 6 to 8 inches away from the vehicle panel. Angle the heat gun to heat the glue side of the material as opposed to the clear coat side. First, apply heat, and then wipe the material edge down with the “T” shirt wrapped hand. The film will be very pliable so take care to not distort the film. This process should be applied to the entire outer edge of the piece to seal the piece completely.

**18. Lower Lip Installation Procedure.**

- (a) Align the edges within the proper tolerance and secure with the squeegee. Use alcohol to ensure placement is kept (Fig. 18-1).

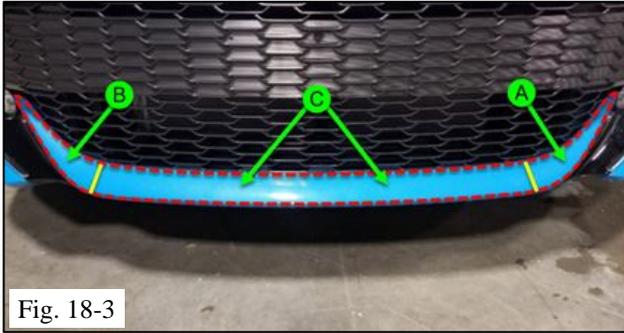


Fig. 18-1

- (b) Apply alcohol solution to the outer edge of this section. Pull the material into place with one hand and use the other to tack the material down. Be sure the film is secure before releasing the tension of the stretch (Fig. 18-2).



Fig. 18-2



- (c) Apply a small amount of alcohol solution underneath the lower edge. Hold the film in position and brush it down into place pushing all of the solution towards the center and then out through the top and bottom edges (Fig. 18-3).



- (d) Check surface for bubbles or any other defects before continuing.

### 19. Seal all the Edges.

- (a) This will be necessary after each individual piece. With the “T” shirt material wrapped around the hand, apply heat with the heat gun from 6 to 8 inches away from the vehicle panel. Angle the heat gun to heat the glue side of the material as opposed to the clear coat side. First, apply heat, and then wipe the material edge down with the “T” shirt wrapped hand. The film will be very pliable so take care to not distort the film. This process should be applied to the entire outer edge of the piece to seal the piece completely.

### 20. Post-Installation Instructions.

- (a) Clean surface of vehicle as necessary.

## **21. Material Removal Process**

- (a) Pick an edge corner of the material up. Grab enough material to allow a secure grasp with hand.
- (b) Pull material towards body at an angle (between 30° to 45°). Do not try to rip material off the surface, instead, stretch the material off the surface. By stretching the material, you will minimize the amount of adhesive left on the surface.
- (c) Clean adhesive left on the surface using a common adhesive remover.

**TOYOTA COROLLA HATCHBACK 2019 -**

**CLEAR PROTECTIVE FILM**

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

<u>Check:</u>	<u>Look For:</u>
<p><u>Accessory Function Checks</u></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Correct part number has been installed.</li><li><input type="checkbox"/> Proper equipment was used to install.</li> <li><input type="checkbox"/> Check for film quality and proper installation.</li></ul>	<p>Verify the part number on the package.</p> <p>Check for loose edges, bubbles, and or film damage.</p> <p>Check for scratches, correct edge alignment, and or debris under film.</p>
<p><u>Vehicle Function Checks</u></p> <ul style="list-style-type: none"><li><input type="checkbox"/></li></ul>	
<p><u>Vehicle Appearance Check</u></p> <ul style="list-style-type: none"><li><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.</li></ul>	<p>Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)</p>