

October 8, 2010

VIA EMAIL & OVERNIGHT MAIL

SAFETY RECALL SERVICE INSTRUCTIONS

Dear Authorized Installer:

Attached are the service instructions for safety recall 10E-038 regarding the repair of certain Hollandia 600/700 ("H600/700") and Hollandia TVS 900 ("H900") series aftermarket sunroofs. Please note that the solutions for the H600/700 series and the H900 series are different, as highlighted below and described more fully in the attached service instructions. Service parts availability may determine which repair procedure is required.

H600/700

1. Use of stock service glass panels to replace detached glass panels.

Please check whether the H600/700 units you have in stock have two brackets affixed to the side of the sunroof glass.

- a. Any H600/700 units you have in stock that have two brackets can be used to as replacement sunroof glass,
- b. For H600/700 service glass panels on stock that do not have two brackets affixed to the sunroof glass, you have to apply the glass panel glue kit repair before using these panels as the replacement parts (see attached instructions).
- c. The glass panels that are on complete modules with serial numbers higher than 6396298 could be also used as replacement parts.

In all of the above cases the vehicle owner does not have to come back for any further repair or glass replacement.

2. Interim solution for the H600/700.

This interim solution must be used only if replacement glass panels are not available, in which case you will need to repair the existing glass panels by gluing two additional plastic brackets to the side bracket (see the attached instructions).

If you implemented the interim solution, you need to inform the vehicle owner that the glass panel has to be replaced with the new glass panels.

3. Permanent solution for the H600/700.

The complete replacement of the glass panels with the new generation of PU glued glass panels is also a permanent service repair (see attached instructions). These units are currently in production and will be available in a few weeks. This new generation of glass panels is glued with a 3 mm, one component polyurethane. There is no need to add the brackets described above (i.e., the glass panel glue kit repair) to this new generation of PU glued glass panels.

H 900

1. Interim solution for the H900.

This interim solution shall be used only if the replacement glass panels are not available. A transparent 3M Protective Film should be used to repair the front and rear glass panels (see attached instructions).

2. Permanent solution for the H900.

The complete replacement of the glass panels with the new generation of glass panels is the permanent solution (see attached instructions). Based upon the current schedule, shipment of new replacement sunroof panels will be available in early December.

* * * *

If you have any questions about parts availability or technical questions about repair procedures, please call Mike Bacon at 810-593-6052.

Thank you for your attention and cooperation in this matter.

Sincerely,



Rolf Haag
President & CEO

Enclosures:

- *Hollandia 600/700 Service Instructions: Replacement glass panel and drain channel*
- *Hollandia 600/700 Service Instructions: Glass Panel Glue Kit*
- *Hollandia 900 Service Instructions: Replacement glass panels*
- *Hollandia 900 Service Instructions: Application of 3M Protective Film*

cc: Brooks Mayberry, Katzkin Leather Interiors, Inc.
National Highway Traffic Safety Administration

**Sunroofs
Techos Solares
Toits Ouvrants
Schiebedächer
Zonnedaken**

**Hollandia 600
Hollandia 700**

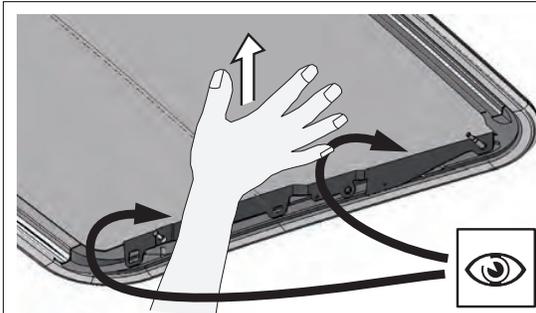
**Service Instructions
Instrucciones de mantenimiento
Instructions d'entretien
Service-Anleitung
Service-instructies**

**Glass panel glue kit
Kit de adhesivo para panel de
cristal
Kit de collage pour panneau de
verre
Glasscheibenklebe-Kit
Lijmpakket voor glaspanelen**

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Check connection between metal brackets and glass panel



Dismount LH & RH interior mechanism covers as described in paragraph 2. "Dismounting LH & RH interior mechanism covers (Hollandia 700 Series only)".

Be seated inside the vehicle.

Make sure that sunroof is in closed position.

Place one open hand against the LH side of the glass panel and press firmly upwards.
Check if the glass panel moves compared to the LH metal bracket.

YES => replace glass panel

NO => check RH side too

Place one open hand against the RH side of the glass panel and press firmly upwards.
Check if the glass panel moves compared to the RH metal bracket.

YES => replace glass panel

NO => apply corner brackets and adhesive to glass panel and metal brackets as described in this instruction.

Introduction:

This kit contains enough material for up to 10 sunroofs.

To ensure correct and safe use of this glue kit, read and follow all instructions in these instructions.

DO NOT use the primer and the adhesive more than 72 hours after opening the containers, but dispose it in a proper way.

Extra glass panel glue kits, primer and adhesive can be ordered at Webasto.

Contents:

- 1 pc container 125 ml Betaclean cleaner
- 1 pc container 100 ml Betaprime glass primer
- 1 pc container 300 ml Betamate Polyurethane adhesive
- 20 pcs cleaning pads
- 20 pcs corner brackets
- 1 pc nozzle for adhesive container
- 10 pcs application brushes for primer
- 20 pcs latex gloves
- 20 pcs cards

Additional materials required:

- Covers for vehicle interior (seats, dashboard, steering wheel, center console)
- Sealant gun
- Hobby knife
- Awl
- Vernier caliper
- Ballpoint

Note:

There's no need to remove the glass panel from the vehicle. The procedure described here is faster. Besides that, removal of the glass panel requires adjustment of the panel. Wrong adjustment can lead to e.g. wind noises.

Important:

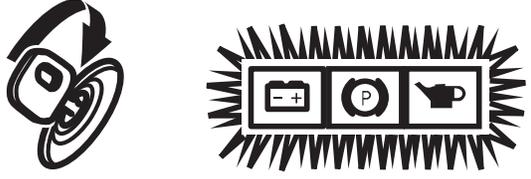
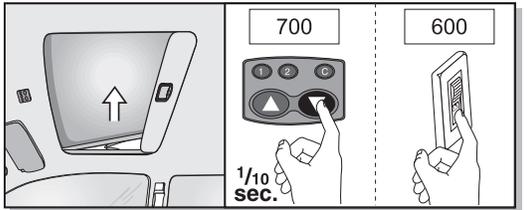
Once someone has opened the containers, the primer and adhesive must be used within 72 hours. After these 72 hours, the primer and adhesive **MUST NOT** be used anymore.

So, write down the actual date and time on the container's labels when you open these containers.

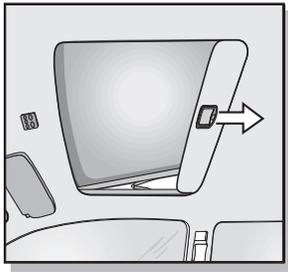
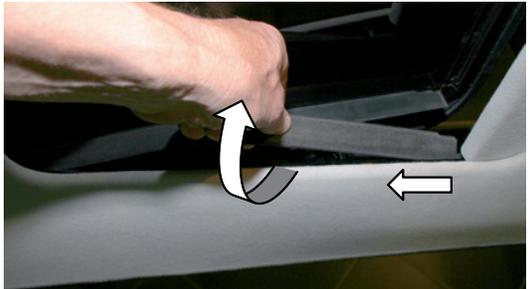


1. Preparation

	<p>Check contents glass panel glue kit:</p> <ul style="list-style-type: none"> (1) Gloves (2) Cleaning pads (3) Adhesive (4) Primer (5) Cleaner (6) Nozzle (7) Cards (8) Brushes (9) Corner brackets
	<p>Keep tools and required materials close-at-hand for quick access.</p>
<p style="text-align: center;">≥ 1 hour</p>	<p>Preheat Betamate Polyurethane adhesive for 1 hour at $35 \pm 5 \text{ }^\circ\text{C}$ / $95 \pm 9 \text{ }^\circ\text{F}$.</p>

	<p>Protect vehicle interior with covers.</p>
	<p>Turn ignition key to "RUN" position. DO NOT switch off vehicle ignition until job is completely finished.</p>
	<p>Put sunroof in max. tilt position.</p>

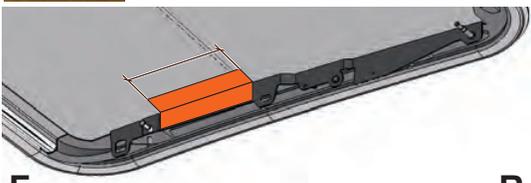
2. Dismounting LH & RH interior mechanism covers (Hollandia 700 Series only)

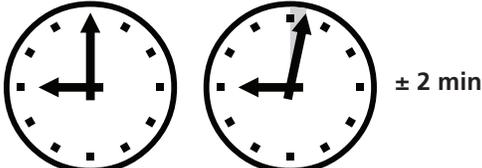
	<p>Slide sunshade in max. rear position.</p>
	<p>Hold lower part of interior mechanism cover in the middle and pull/bend up and inwards to remove back side of cover from sunroof.</p>

	<p>Move lower part of cover to upper part and slide both parts together to the back to disengage covers from pins on glass panel.</p> <p>Remove cover to the inside of the roof aperture.</p> <p>Repeat this for the other cover.</p>
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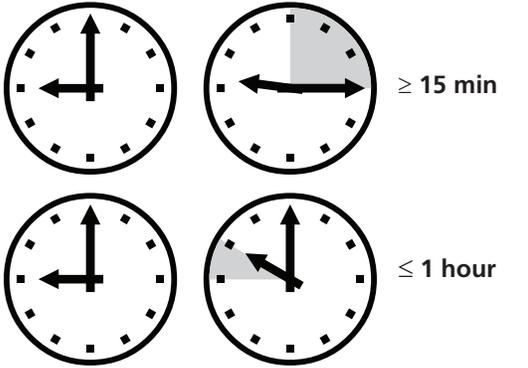
3. Cleaning, applying primer, corner brackets and adhesive

	<p>Wear gloves during cleaning, application primer, corner brackets and adhesive.</p>
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 	<p>Use Betaclean cleaner and 3 cleaning pads to clean contact surfaces (see illustration).</p> <p>First pad ("wipe on"):</p> <ul style="list-style-type: none"> – Wet pad with cleaner – Wipe contact surfaces of glass panel and metal brackets at one side of sunroof – Turn pad around – Repeat at other side of sunroof <p>Second pad ("wipe off"):</p> <ul style="list-style-type: none"> – Wipe contact surfaces of glass panel and metal brackets at <u>one side</u> of sunroof with dry pad. <p>Important: just one stroke, e.g.: front to back.</p> <p>Third pad ("wipe off"):</p> <ul style="list-style-type: none"> – Wipe contact surfaces of glass panel and metal brackets at <u>other side</u> of sunroof with dry pad. <p>Important: just one stroke, e.g.: front to back.</p> <p>F = front R = rear</p>
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	<p>Let cleaner evaporate.</p> <p>Visual check after approx. 2 min.</p>
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	<p>Shake Betaprime glass primer, then open container.</p> <p>Note: write date and time of opening on container!</p>
	<p>Use brush to apply primer on glass panel (both sides of sunroof).</p> <p>Place card against metal brackets as protection. DO NOT apply primer on metal brackets.</p> <p>F = front R = rear</p>
	<p>Important: wait at <u>least 15 minutes</u> but <u>not longer than 1 hour</u> to let the primer dry.</p>

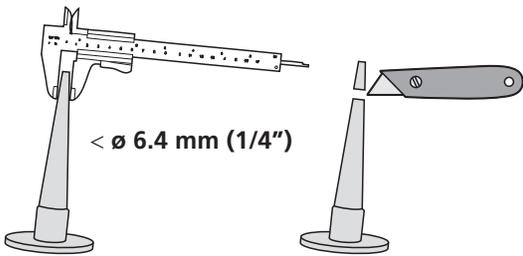




Meanwhile, use awl or nozzle to pierce top of adhesive container.



Note: write date and time of opening on container!



Cut top of nozzle, but make sure it still goes through holes $\varnothing 6.4 \text{ mm (1/4"}$) in corner bracket.

Place nozzle on container.



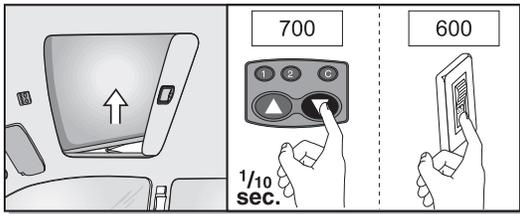
Remove bottom of container adhesive (e.g. with hobby knife).

Place container adhesive in sealant gun.

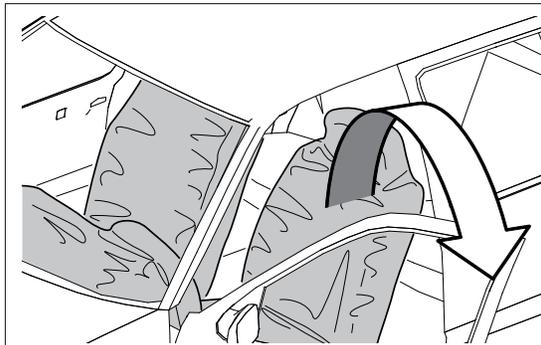
	<p>Place corner bracket against glass panel and metal bracket.</p> <p>Push against corner bracket while 1 finger closes 1 hole \varnothing 6.4 mm (1/4").</p> <p>F = front R = rear</p>
	<p>Place sealant gun with nozzle in 2nd hole \varnothing 6.4 mm (1/4").</p> <p>Apply adhesive until it starts to come out at side of corner bracket.</p> <p>Repeat at other hole of same corner bracket until adhesive starts to come out at other side.</p> <p>Repeat with 2nd corner bracket at other side of sunroof.</p> <p>F = front R = rear</p>
	<p>Close nozzle to avoid that adhesive dries out and nozzle gets blocked up.</p> <p>Take off gloves.</p>



4. Re-installing LH & RH interior mechanism covers (Hollandia 700 Series only)

	<p>Make sure that sunroof is in max. tilt position.</p>
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5. Check



Remove covers from seats, dashboard, etc.



Inspect sunroof for proper finish and functioning (see Operating Instructions).

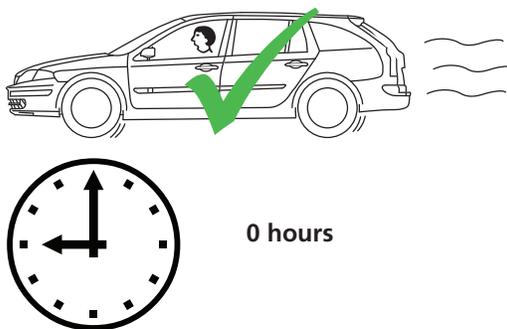


If you've lost or misplaced the Operating Instructions please contact your Webasto subsidiary to obtain a new booklet.

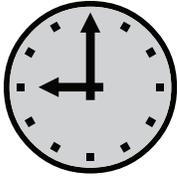
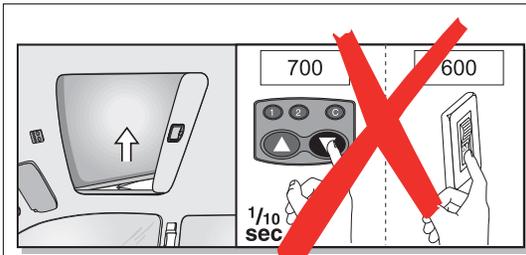
The Operating Instructions can also be found on the following technical websites:

USA <http://www.techwebasto.com>
 – Click on "Sunroof"
 – Click on "Inbuilt information"
 – Click on "Inbuilt Operation Manuals"
 – Click on "Hollandia 600 Series" or "Hollandia 700 Series"

Others <http://dealers.webasto.com>
 – Click on "Product Documentation"
 – Select Product type: "Sunroof"
 – Select Product: "Hollandia 600" or "Hollandia 700"
 – Click on the document in the language you need
 – Click "Open".



You can drive the vehicle immediately.



48 hours

Note:

DO NOT operate the sunroof within the first 48 hours.



In multilingual versions the English language is binding.

Este manual esta traducido en varios idiomas, le informamos que sólo la versión en inglés será vinculante.

Dans le cas d'une version rédigée en plusieurs langues, l'anglais est alors la langue qui fait foi.

Bei mehrsprachiger Ausführung ist Englisch verbindlich.

Bij een meertalige versie is de Engelse versie bindend.

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<http://www.techwebasto.com>

**Sunroofs
Techos Solares
Toits Ouvrants
Schiebedächer
Zonnedaken**

**Hollandia 600
Hollandia 700**

**Service Instructions
Instrucciones de mantenimiento
Instructions d'entretien
Service-Anleitung
Service-instructies**

**Replacement glass panel and
drain channel
Sustitución del panel de cristal y
del desaguadero
Remplacement du panneau de
verre et de la gouttière
Austausch des Glaspaneels und
der Abflussrinne
Vervanging glaspaneel en
regengoot**

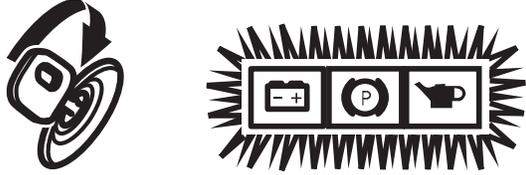
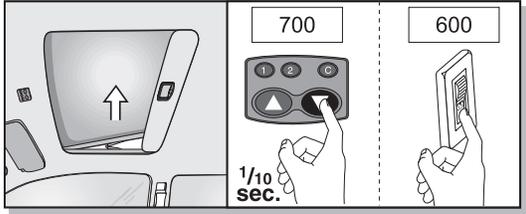
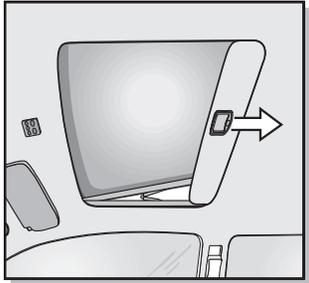
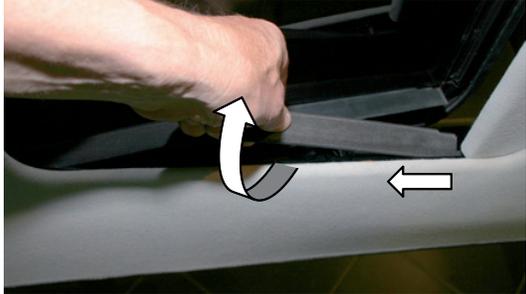
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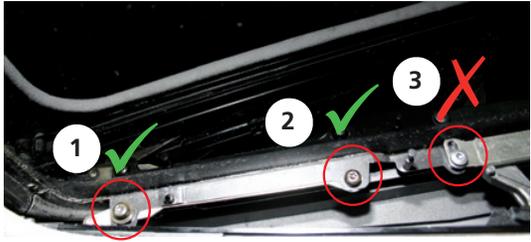
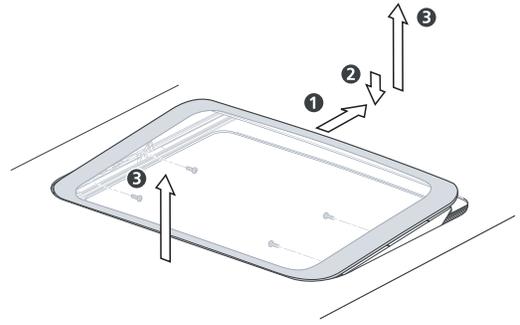
Tools required for the replacement:

- Screw driver Torx T25
- Screw driver Torx T15
- Webasto glass panel adjustment tool, (invalid) credit card or similar

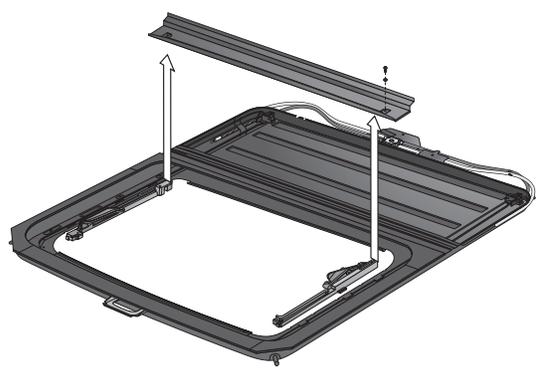
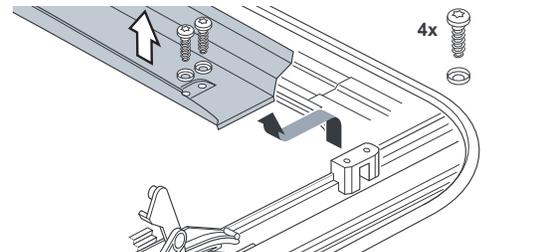
1. Dismounting LH & RH interior mechanism covers

	<p>Turn ignition key to "RUN" position. DO NOT switch off vehicle ignition until job is completely finished.</p>	600
	<p>Put sunroof in max. tilt position.</p>	600
	<p>Slide sunshade in max. rear position. (Hollandia 700 Series only).</p>	700
	<p>Hold lower part of interior mechanism cover in the middle and pull/bend up and inwards to remove back side of cover from sunroof (Hollandia 700 Series only).</p>	700
	<p>Move lower part of cover to upper part and slide both parts together to the back to disengage covers from pins on glass panel. Remove cover to the inside of the roof aperture. Repeat this for the other cover (Hollandia 700 Series only).</p>	700

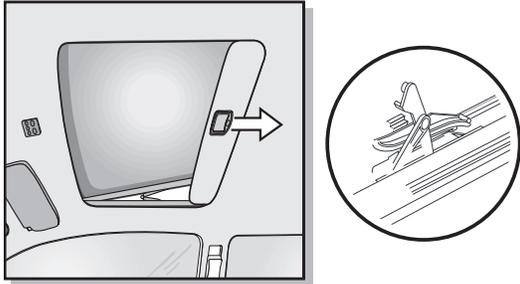
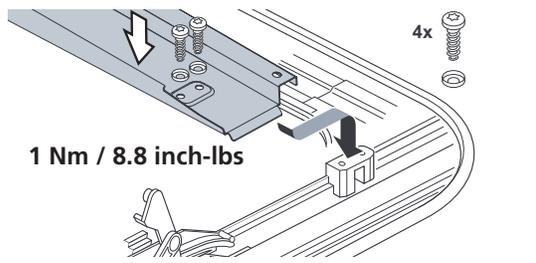
2. Dismounting glass panel

	<p>Use screw driver Torx T25 to remove front (nr. 1) and middle screw (nr. 2) at both sides.</p> <p>Note: Do not remove screws at the rear (nr. 3)!</p>	<div style="border: 1px solid black; padding: 2px; width: 40px; text-align: center;">600</div> <div style="border: 1px solid black; padding: 2px; width: 40px; text-align: center;">700</div> 
	<ol style="list-style-type: none"> 1 Hold back side of glass panel in the middle and slide it backwards (approx. 2 cm / 1"). 2 Push back side a bit downwards, so you can grab the front side with your other hand. 3 Lift the glass panel to remove it from the sun-roof. 	<div style="border: 1px solid black; padding: 2px; width: 40px; text-align: center;">600</div> <div style="border: 1px solid black; padding: 2px; width: 40px; text-align: center;">700</div>

3. Dismounting drain channel (only if Serial Number < 6 420 000)

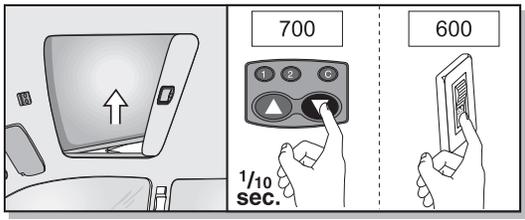
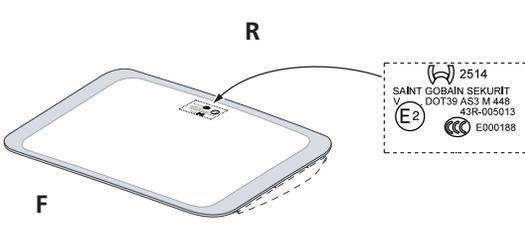
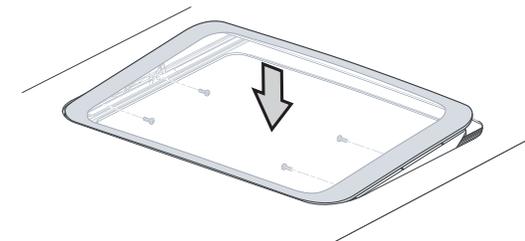
	<p>Drain channel dismounting.</p>	<div style="border: 1px solid black; padding: 2px; width: 40px; text-align: center;">600</div> <div style="border: 1px solid black; padding: 2px; width: 40px; text-align: center;">700</div>
	<p>Use screw driver Torx T15 to remove screws (4x) of drain channel.</p> <p>Careful: do not lose plastic rings!</p>	<div style="border: 1px solid black; padding: 2px; width: 40px; text-align: center;">600</div> <div style="border: 1px solid black; padding: 2px; width: 40px; text-align: center;">700</div> 

4. Installing new type drain channel (only if Serial Number < 6 420 000)

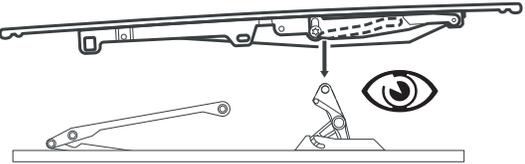
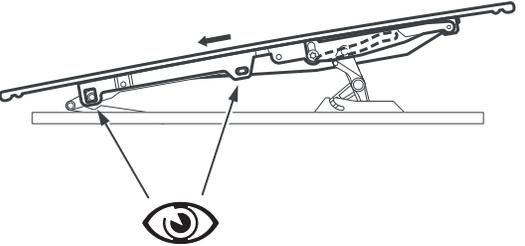
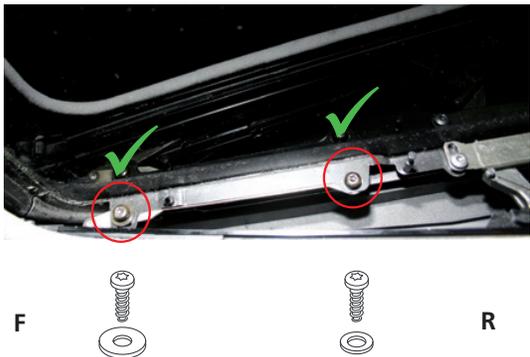
	<p>Check that sunshade in max. rear position (Hollandia 700 Series only).</p> <p>Check that mechanism is in max. tilt position.</p>	600	700
 <p>1 Nm / 8.8 inch-lbs</p>	<p>Place new type drain channel. Note: higher side at the back!</p> <p>Fix drain channel with screws (4x) and plastic rings below heads. Use screw driver Torx T15 to tighten screws. Torque: 1 Nm / 8.8 inch-lbs.</p> <p>Careful: over-tightening leads to damage of rings !</p>	600	700



5. Re-installing glass panel

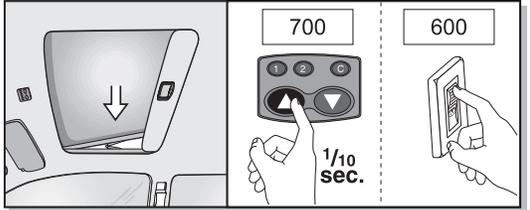
 <p>1/10 sec.</p>	<p>Check that sunroof is in max. tilt position.</p>	600	700
 <p>R</p> <p>F</p> <p>2514 SAINT GOBAIN SEKURIT V - DOT39 AS3 M 448 43R-005013 E2 E000188</p>	<p>Check what is front and back side of glass panel: writing on panel = back side.</p> <p>F = front R = rear</p>	600	700
	<p>Place glass panel (Hollandia 700 Series: front side on wind deflector).</p>	600	700

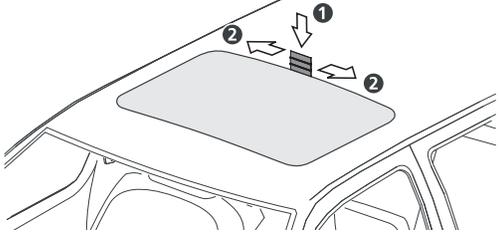
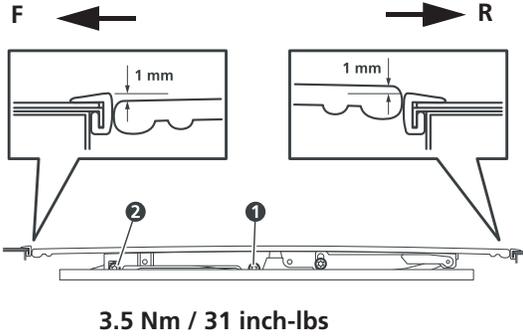
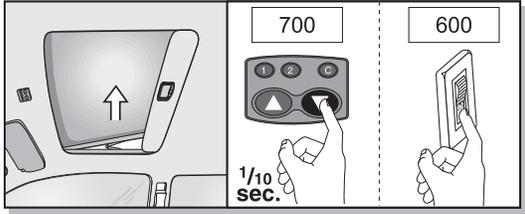


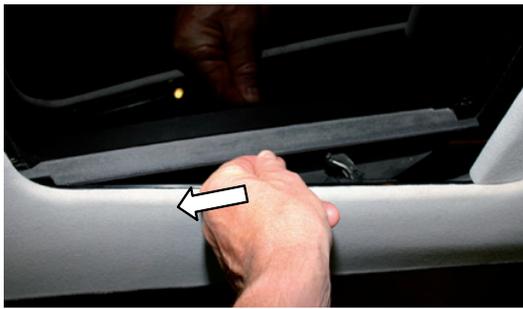
	<p>Check position glass panel inside vehicle: bosses on mechanisms slide into guides in metal strips glass panel (LH and RH side).</p>	600	700
	<p>Push glass panel forward to align holes in metal strips on glass panel with holes in the mechanism.</p>	600	700
	<p>Check position glass panel inside vehicle: metal strips glass panel on inside of mechanism (LH and RH side).</p>	600	700
 <p>F   R</p>	<p>Use screw driver Torx T25 to re-install screws (4x). Do not tighten yet!</p> <p>F = front R = rear</p> <p>Note: Screws in front: large washer Screws in middle: small washer</p>	600	700



6. Adjustment glass panel

	<p>Put sunroof in closed position.</p>	600	700
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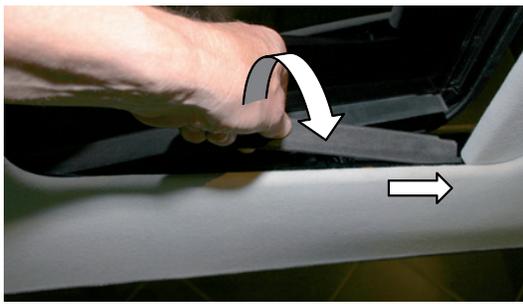
	<p>Correct fore/aft position glass panels: clearance between glass panel and trim profile must be the same everywhere.</p> <p>Put Webasto glass panel adjustment tool or (invalid) credit card between glass panel and trim profile. Check by sliding (invalid) credit card or dedicated glass panel adjustment tool between panel and trim profile. Resistance must be the same everywhere.</p> <p>Adjust glass panel position if necessary.</p>	600	700
 <p>3.5 Nm / 31 inch-lbs</p>	<p>Tighten screws "nr. 1" (middle). Torque: 3.5 Nm / 31 inch-lbs.</p> <p>Adjust position of glass panel in such a way that top of front side is approx. 1 mm / 0.04" below top of trim profile (see illustration). Tighten screws "nr. 2" (front). Torque: 3.5 Nm / 31 inch-lbs.</p> <p>Check if top of back side is approx. 1 mm / 0.04" above top of trim profile. Adjust if necessary.</p> <p>F = front R = rear</p>	600	700
<p>7. Re-installing LH & RH interior mechanism covers</p>			
	<p>Put sunroof in max. tilt position.</p>	700	
 <p>LH side</p> <p>RH side</p>	<p>Check what is cover for LH and RH side (Hollandia 700 Series only).</p> <p>F = front R = rear</p>	700	



Push the cover (upper and lower part together) of one side against the glass panel and against the mounting pins.

700

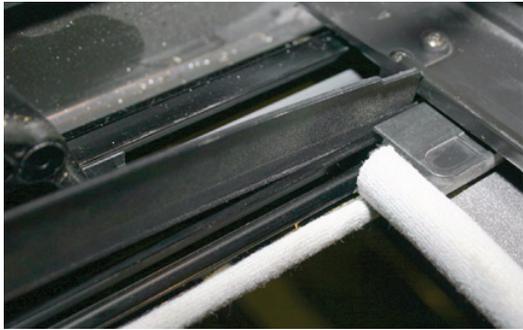
Slide the cover to the front to click the cover on the mounting pins
(Hollandia 700 Series only).



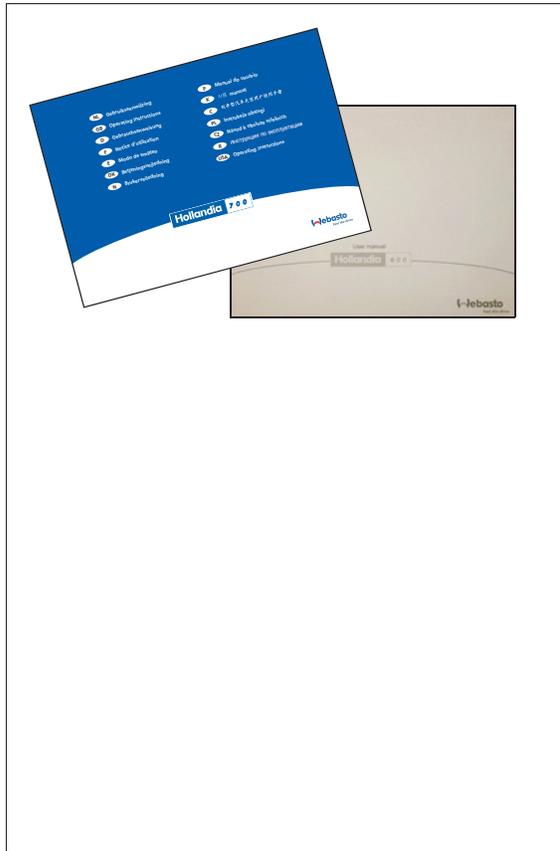
Bend the lower part of the cover in such a way that it can be put into the groove and under the drain channel.

700

Repeat this for the other cover
(Hollandia 700 Series only).



8. Check



Inspect sunroof for proper finish and functioning (see Operating Instructions).

For Hollandia 700 Series especially

- programming positions nr. 1 and 2
- and auto-close function.

If you've lost or misplaced the Operating Instructions please contact your Webasto subsidiary to obtain a new booklet.

The Operating Instructions can also be found on the following technical websites:

USA <http://www.techwebasto.com>

- Click on "Sunroof"
- Click on "Inbuilt information"
- Click on "Inbuilt Operation Manuals"
- Click on "Hollandia 600 Series" or "Hollandia 700 Series"

Others <http://dealers.webasto.com>

- Click on "Product Documentation"
- Select Product type: "Sunroof"
- Select Product: "Hollandia 600" or "Hollandia 700"
- Click on the document in the language you need
- Click "Open".

600

700



In multilingual versions the English language is binding.

Este manual esta traducido en varios idiomas, le informamos que sólo la versión en inglés será vinculante.

Dans le cas d'une version rédigée en plusieurs langues, l'anglais est alors la langue qui fait foi.

Bei mehrsprachiger Ausführung ist Englisch verbindlich.

Bij een meertalige versie is de Engelse versie bindend.

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Hollandia 900

Service Instruction: Application of 3M Protective Film

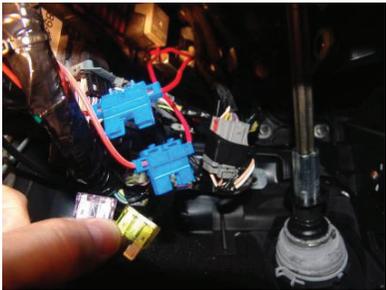
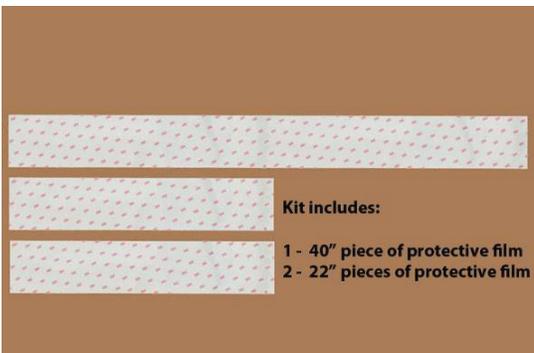
Doc. No: PI045BC
Date: September 17, 2010

This solution is intended to be an interim measure related to 10E-038 (Webasto Aftermarket Sunroof Recall) only in the event that there may be a temporary shortage of available TVS 900 replacement glass panels. This is not a permanent remedy. Please advise our customer(s) that we are making every effort to avoid the need for multiple visits to you in order to correct this problem.

IMPORTANT: This film should only be applied to fully cured paint which has not been touched-up.

Hollandia 900 Protective Film Kit Number: 5010274A

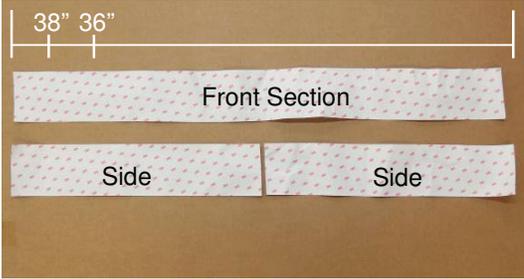
Film Installation:

1	Perform all sunroof functions (single vent, double vent, full open, full close to verify functionality)	Click here to view short video clip or go to: http://www.youtube.com/watch?v=wndYVuXSI60
2	Disable available power to the sunroof (best practice is to remove power wires from power source). NOTE: Test to verify that functionality has been disabled before continuing.	
3	Thoroughly clean painted roof surface and glass panels with Isopropyl Alcohol, window cleaner, or similar cleaner to a <i>minimum</i> distance of 4" to either side of the sunroof edge profile (trim ring). This will ensure a clean area to which you will apply the enclosed clear film, overlapping both the glass and painted roof surface.	
4	You are supplied three sections of film, one 40" (1016 mm) in length x 4" (101 mm) wide and two 22" (559 mm) in length x 4" (101 mm) wide. One section will be applied to the front edge of the sunroof; the two shorter pieces (two 22" pieces) will be applied to the sides of the sunroof. Dependent on the sunroof model the 40" section applied to the front edge of the sunroof will need to be cut down to properly match the width of the model sunroof.	 <p>Kit includes:</p> <ul style="list-style-type: none"> 1 - 40" piece of protective film 2 - 22" pieces of protective film

Hollandia 900

Service Instruction: Application of 3M Protective Film

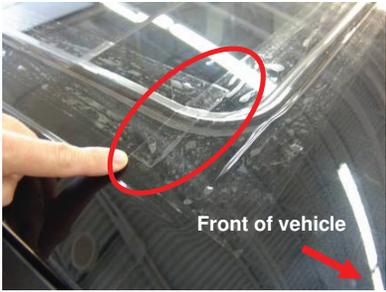
Doc. No: PI045BC
Date: September 17, 2010

	<p>Refer to the upcoming model legend to front proper film lengths.</p> <p>Sunroof Models / Cut Length legend</p> <p>930 = 36" 935 = 38" 940 = 40" (No cutting is necessary for front section)</p>	
5	<p>After cleaning glass and applicable painted roof surface and ensuring sunroof has been disabled, apply film to the each side of the sunroof. Starting at the rear, apply the film so the rear edge is approximately 1" to maximum 2" behind rear glass. This is best accomplished with two people. Lay film from rear to front, centering film on edge trim as you go. Lay film as flat as possible in order to eliminate air pockets. Repeat this process on opposite side.</p> <p>IMPORTANT: To ensure proper overlap of the film layers, the sides must be installed first so the front film section overlaps the side sections.</p>	 <p>Start film application 1-2" behind rear glass edge</p>
6	<p>Next, find the centerline at the front of the front glass. Mark centerline with a grease pencil outside the recently cleaned area. Also locate and mark the center of the top side of the film strip to be applied to the front panel.</p>	 

Hollandia 900

Service Instruction: Application of 3M Protective Film

Doc. No: PI045BC
Date: September 17, 2010

7	<p>Apply the front piece of film as flat as possible, aligning center marks to start the process.</p> <p>IMPORTANT: Make sure the front piece of film completely overlaps the two previously installed side pieces of film. Refer to adjacent photo.</p>	
8	<p>Work out as many imperfections as possible that could cause air to peel film. Do this by using your finger to work all trapped air pockets towards edges and allowing the air to properly escape.</p>	
9	<p>How to remove Scotchgard™ Paint Protection Film</p> <p>Film can be removed at any time by picking up a corner of the film and pulling the film off the vehicle surface at a 90-degree angle. If the film has been present a long time, or if the film and vehicle are cold, a heat gun or hair dryer may be used to soften the adhesive, allowing easier removal. If any adhesive remains on the vehicle after removal of the film, it can be removed by using 3M™ General Purpose Adhesive Cleaner (3M Part #08984).</p>	
10	<p>IMPORTANT: It is imperative that the Authorized Installer properly inform the end user “Vehicle Owner” that while the film “Tape” solution is installed on the vehicle the sunroof will not and cannot operate. The sunroof should remain inoperative until the film has been removed and the updated glass panel is installed.</p>	

If you have any questions, contact our technical support team at +1 800 860-7866 or via email at: info-us@webasto.com.

**Sunroofs
Techos Solares
Toits Ouvrants
Schiebedächer
Zonnedaken**

Hollandia 900

**Service Instructions
Instrucciones de mantenimiento
Instructions d'entretien
Service-Anleitung
Service-instructies**

**Replacement glass panels
Sustitución de paneles de cristal
Remplacement des panneaux de
verre
Austausch der Glaspaneele
Vervanging glaspanelen**

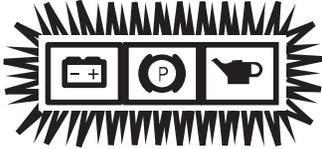
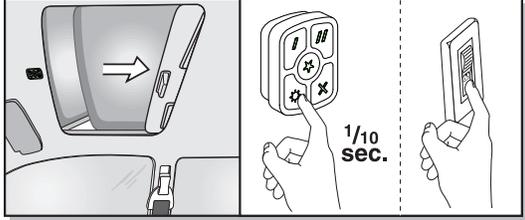
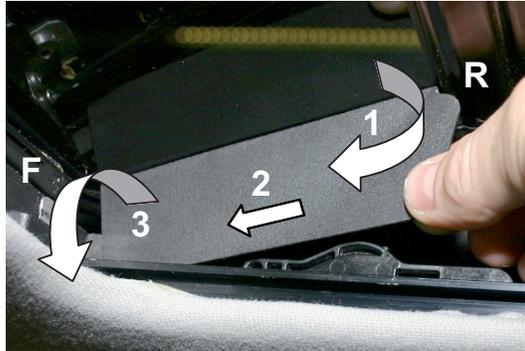
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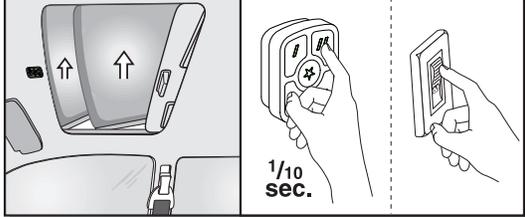
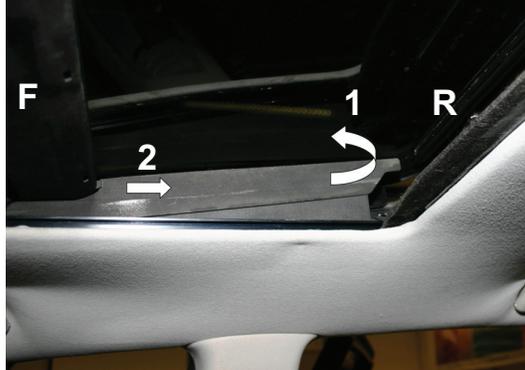
Tools required for the replacement:

- Screw driver Torx T25
- Webasto glass panel adjustment tool, (invalid) credit card or similar

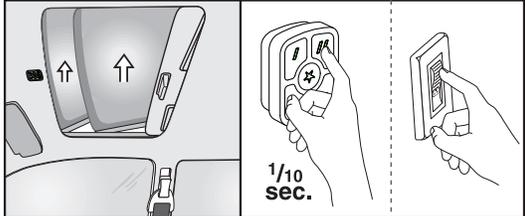
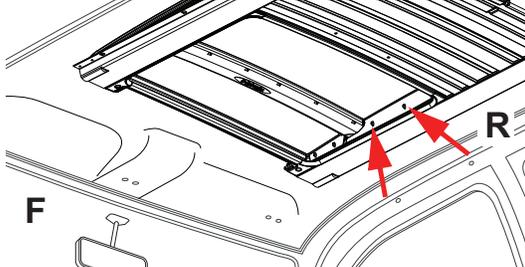
1. Dismounting front mechanism covers

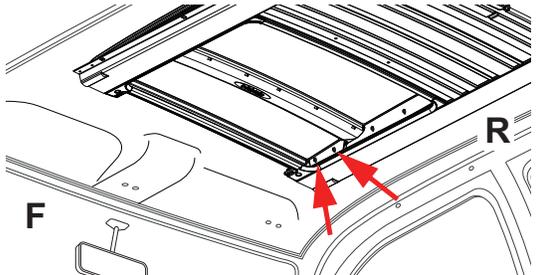
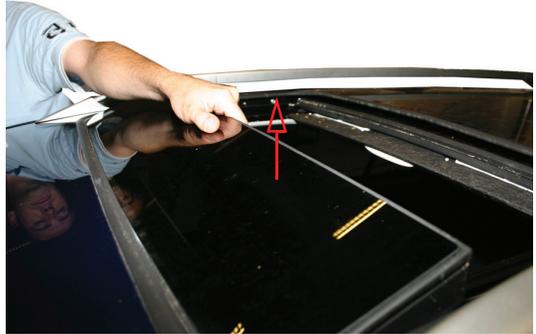
 	<p>Turn ignition key to "RUN" position. DO NOT switch off vehicle ignition until job is completely finished.</p>
	<p>Put sunroof in "max. slide open" position.</p>
	<p>Remove front mechanism covers, left and right. Upper covers first. Pull backside to remove cover from front panel, then unhook at front. F = front R = rear.</p>
	<p>Then, remove lower covers. Just pull to remove cover from mechanism. Backside first. F = front R = rear</p>

2. Dismounting rear mechanism covers

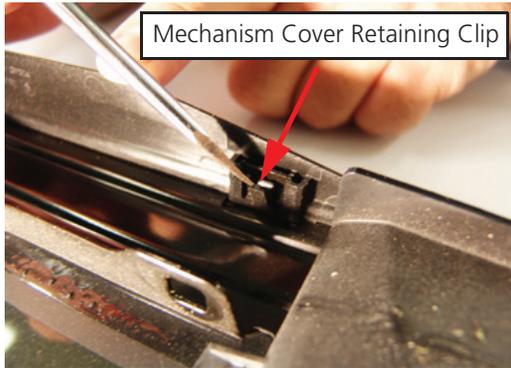
	<p>Put sunroof in "double vent" position.</p>
	<p>Remove rear mechanism covers, left and right. Upper covers first.</p> <ol style="list-style-type: none"> 1 Pull inwards to remove cover from rear panel 2 Pull backwards to remove cover from drain channel front. <p>F = front R = rear.</p>
	<p>Then, remove lower covers.</p> <ol style="list-style-type: none"> 1 Pull inwards to remove cover from mechanism 2 Pull upwards to remove cover out of track. <p>F = front R = rear</p>

3. Dismounting glass panels

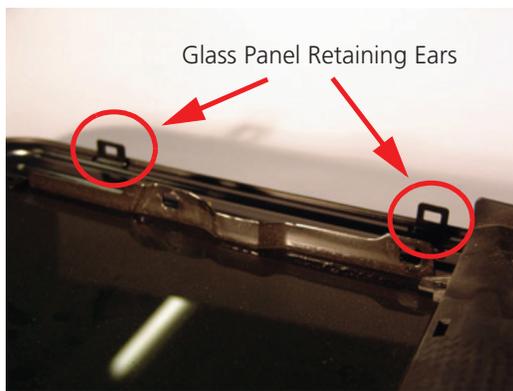
	<p>Check that sunroof is in "double vent" position.</p>
	<p>Use screw driver Torx T25 to remove fixing screws rear panel, left and right.</p> <p>F = front R = rear</p>

	<p>Remove rear panel.</p>
	<p>Use screw driver Torx T25 to remove fixing screws front panel, left and right.</p> <p>F = front R = rear</p>
	<p>Remove front panel.</p> <p>Note: When front panel is removed, do not touch front mechanisms!</p>
	<p>With both glass panels removed, locate the outer mechanism covers on each side of both the front and rear glass panels. The covers must be removed and re-installed on the new glass panels before glass panel installation.</p>



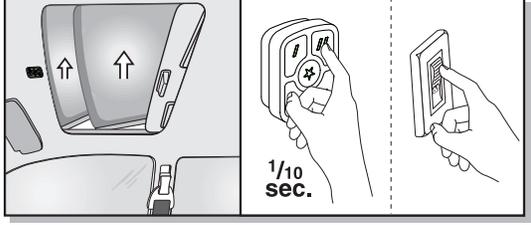
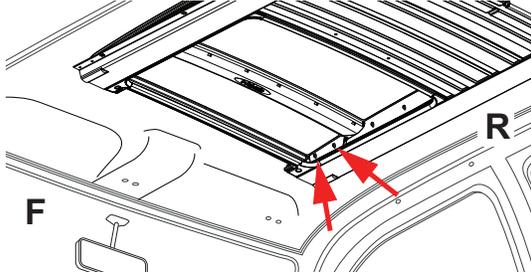
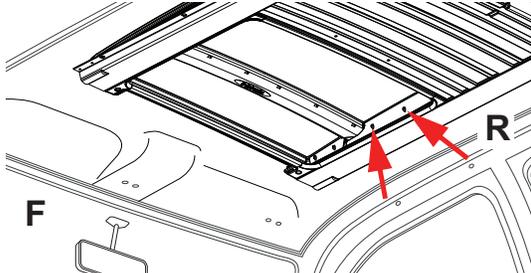


Using a flat tip screwdriver, slightly pry back on the retaining clips located on the inner side of the glass panel. Maintain upward pressure to the each cover to remove it from the glass panel retainer ears.



Once all covers have been removed from the glass panels simply align the mechanism covers to the retainer ears of the new glass panels and apply downward pressure. The covers will snap into place.

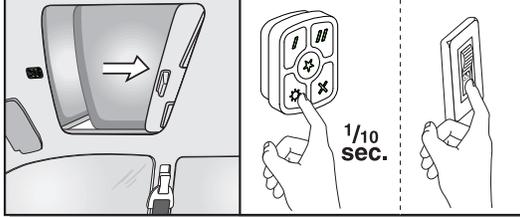
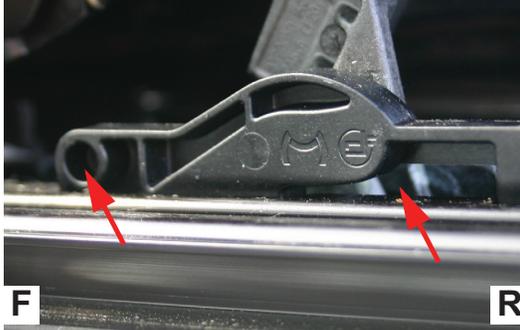
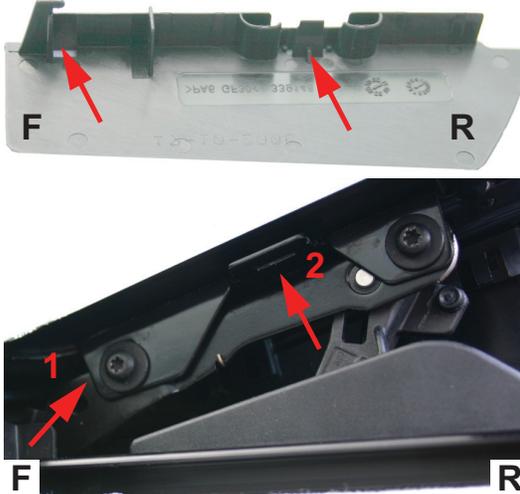
4. Re-installing glass panels

	<p>Check that sunroof is in "double vent" position.</p>
	<p>Mount front panel.</p>
	<p>Use screw driver Torx T25 to re-install screws (4x). Do not tighten yet!</p> <p>F = front R = rear</p>
	<p>Mount rear panel.</p>
	<p>Use screw driver Torx T25 to re-install screws (4x). Do not tighten yet!</p> <p>F = front R = rear</p>

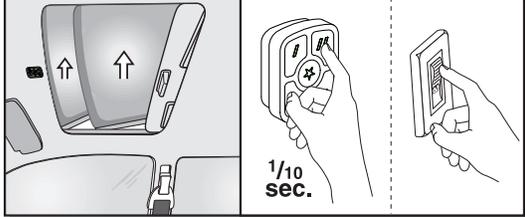
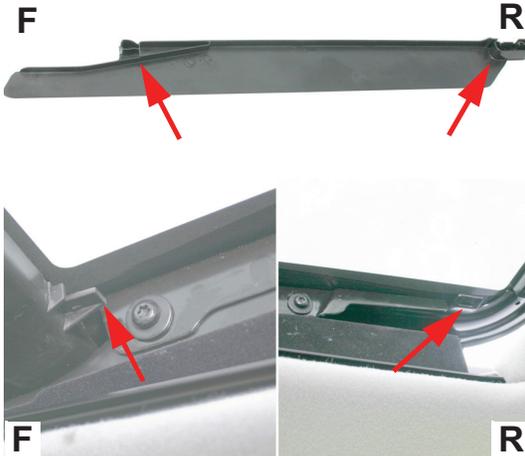
5. Adjustment glass panels

	<p>Put sunroof in closed position.</p>
	<p>Adjustment front glass panel, front side: screw nr. 1. Adjustment front glass panel, rear side: screw nr. 2. Adjustment rear glass panel, front side: screw nr. 3. Adjustment rear glass panel, rear side: screw nr. 4.</p> <ul style="list-style-type: none"> • Fore/aft adjustment: loosen 2 screws at a time; • Height adjustment: loosen 1 screw at a time. <ol style="list-style-type: none"> 1 Loosen screw(s); 2 Adjust glass panel position while checking visually outside vehicle. 3 Tighten screw(s). <p>Torque: 3.5 Nm / 31 inch-lbs.</p> <p>F = front R = rear</p>
	<p>Correct fore/aft position glass panels: clearance between both panels and between panels and trim profile must be the same everywhere.</p> <p>Check by sliding (invalid) credit card or dedicated glass panel adjustment tool between panels or between panel and trim profile. Resistance must be the same everywhere. Adjust glass panel position if necessary.</p>
	<p>Correct height position glass panels: see illustration. Dimensions refer to top of trim profile.</p> <p>Front should be slightly lower than rear.</p> <p>F = front R = rear</p>

6. Re-installing front mechanism covers

	<p>Put sunroof in "max. slide open" position.</p>
	<p>2 covers at each side of front panel. Mount lower covers first.</p> <p>F = front R = rear</p>
	<p>First, push stud at front end into round hole of mechanism, then snap rear end into mechanism.</p> <p>F = front R = rear</p>
	<p>Then, mount upper covers. Hook front end behind glass panel (see nr. 1), then snap rear end onto glass panel (see nr. 2).</p> <p>F = front R = rear</p>

7. Re-installing rear mechanism covers

	<p>Put sunroof in "double vent" position.</p>
	<p>2 covers at each side of rear panel. Mount lower covers first.</p> <p>First, push front end into track of sunroof cassette, then snap rear end into mechanism.</p> <p>F = front R = rear</p>
	<p>Then, mount upper covers.</p> <p>First, slide front end over protrusion of drain channel front, then snap rear end onto rear glass panel.</p> <p>F = front R = rear</p>

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