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|  HYUNDAI NEW THINKING. NEW POSSIBILITIES. Technical Service Bulletin | GROUP RECALL | NUMBER 13-01-005-1 |
| | DATE JANUARY 2013 | MODEL(S) VELOSTER (FS) |
| SUBJECT: PANORAMIC SUNROOF GLASS ASSEMBLY INSPECTION AND REPLACEMENT (RECALL 108) | | |

This document supersedes TSB 13-01-005 to add a phrase at the top of pages 2 and 4.

Description: This bulletin describes the procedure to inspect and replace the panoramic sunroof glass assembly.

*** IMPORTANT**

***** Dealer Stock and Retail Vehicles *****

As required by federal law, dealers must not deliver new vehicles for sale or for lease to customers until all open recalls have been performed. Dealers must also perform all open recalls on used vehicles, demo and rental vehicles prior to placing them into customer use and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the service department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.



Applicable Vehicles:

VELOSTER (FS) with panoramic sunroof
Applicable vehicle production range:
From Nov. 01, 2011 through Apr. 17, 2012

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*** IMPORTANT**

VEHICLE SUNROOF GLASS MUST BE DRY, CLEAN AND AT A ROOM TEMPERATURE RANGE OF 65°F TO 75°F (18°C - 24°C) BEFORE CONDUCTING INSPECTION PROCEDURE.

Required Parts:

| PART NAME | PART NUMBER | QTY |
|----------------------------------|--|-----|
| Panoramic Sunroof Glass Assembly | <p>81630-2V500QQH</p>  | 1 |





Tools & Equipment Required:

*** IMPORTANT**

Dealer must use the inspection tools provided by Hyundai for the Panoramic Sunroof Glass Assembly Inspection.

| | | |
|---|---|---|
| <p>Steel Ball 00305 FSBAL</p> |  | <p>-2 EA -Included in Kit : 00305 FSKIT</p> |
| <p>PVC pipe 00305 FSPVC</p> |  | <p>-2 EA -Included in Kit: 00305 FSKIT</p> |
| <p>Exterior Template 00305 FSEXT TEMPL</p> |  | <p>-2 EA -Included in Kit: 00305 FSKIT</p> |

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| | | |
|--|--|---|
| <p>Interior Template 00305 FSINT TEMPL</p> |  | <p>- 3 EA - Included in Kit: 00305 FSKIT</p> |
| <p>Masking Tape</p> |  | <p>-Not included in Kit</p> |
| <p>Safety Glasses & MPACT Mechanix Gloves or Equivalent</p> |  | <p>-Not included in Kit</p> |
| <p>Shop vacuum</p> |  | <p>-Not included in Kit</p> |

Warranty Information:

| OP CODE | OPERATION | OP TIME |
|-----------|--|---------|
| 20C125R0 | Panoramic sunroof glass assembly inspection. | 0.2 M/H |
| 20C125R1* | Panoramic sunroof glass inspection and replacement | 0.4 M/H |

NOTE: Submit claim on Campaign Entry Screen.

***Sublet amount will include reimbursement for removal/cleaning of glass particles.**

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**Service Procedure:
Panoramic Sunroof Glass Inspection Procedure:**

1.

*** NOTE**

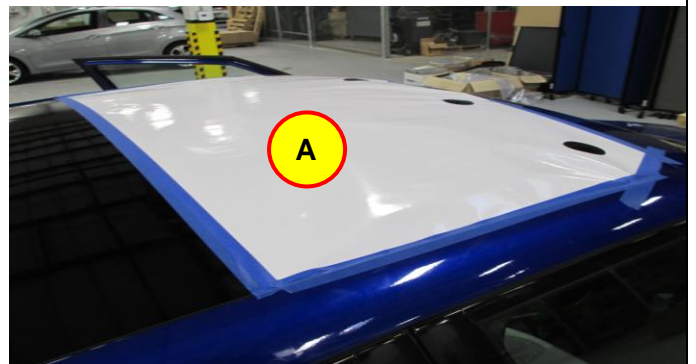
Verify that the vehicle has an open Recall 108 in WEBDCS.

Enter vehicle and open sunroof shade until completely open. Do not open sunroof.

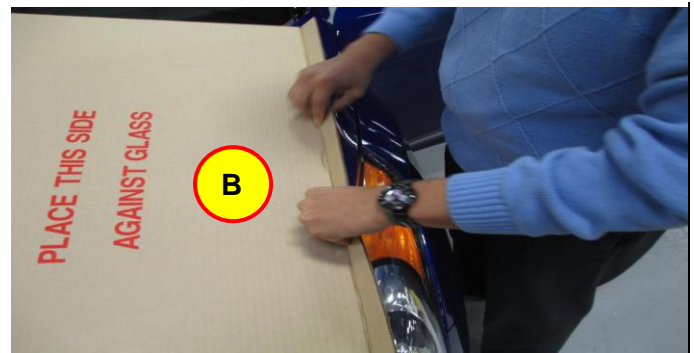


2.

Align and apply exterior template (A) on top of sunroof using the rear section of the sunroof as reference. Apply tape on all edges of template to hold the exterior template onto car. All corners **must** be taped down with no open areas.



3. On interior template (B) bend rear corner along marked crease.



4. With sunroof shade completely open, place interior template against sunroof glass. Interior template **must** be placed over sunroof track.



*** NOTE**

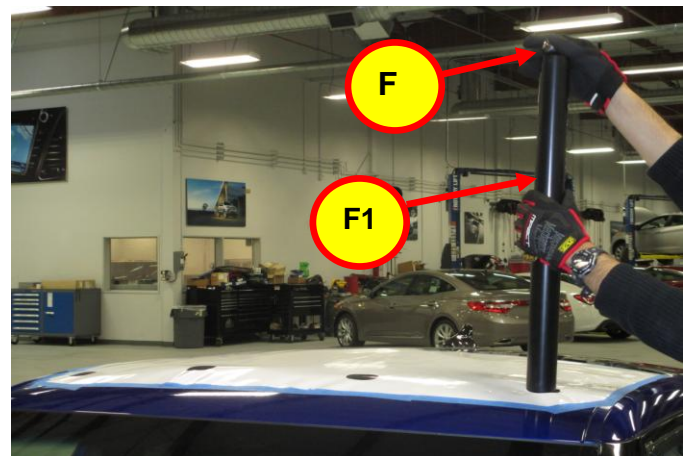
Refold rear section of interior template as in Step 3 to create a seal against roof.

5. Drop the steel ball (F) through the PVC pipe (F1) at each point (E), on the template.



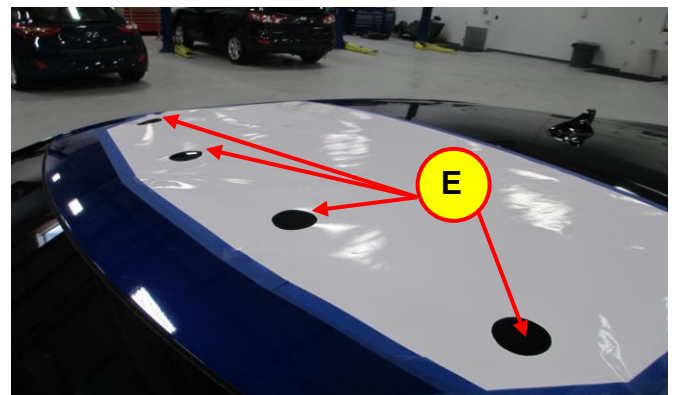
WARNING

SAFETY GLASSES & GLOVES MUST BE WORN DURING TEST.



CAUTION

When dropping the steel ball, make sure that it does **not** get out of the PVC pipe as this could damage exterior body of vehicle.



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6.

If the sunroof glass is not damaged during the inspection, no further action is required.

If the sunroof glass is damaged after the inspection, replace the sunroof glass panel with a replacement part.

NOTE: Thoroughly clean any glass particles from the vehicle.

PANORAMIC SUNROOF GLASS REPLACEMENT PROCEDURE

1. Slide open the panoramic sunroof glass 150~200mm (6~8 in.).

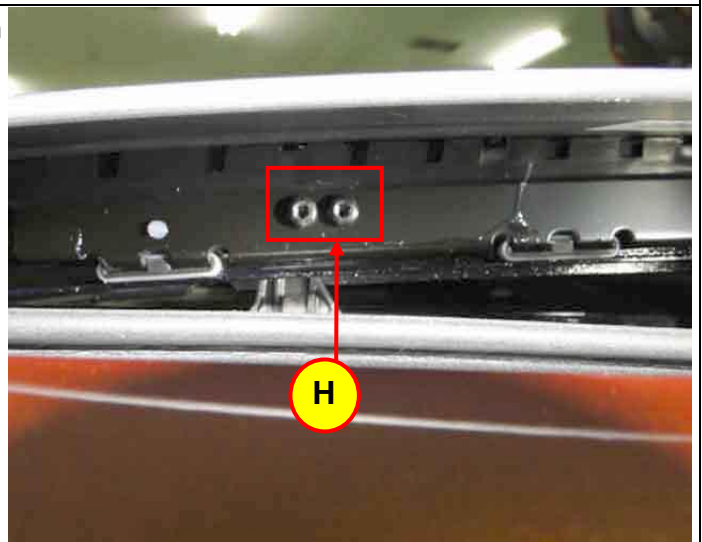


CAUTION

Be careful that the roof glass does not touch the "shark" antenna (G).



2. Remove the sunroof glass mounting bolts (H) on both sides.



- 3.** Remove the panoramic sunroof glass assembly (I).



WARNING

SAFETY GLASSES & GLOVES MUST BE WORN DURING THE REMOVAL OF THE SUNROOF GLASS ASSEMBLY.



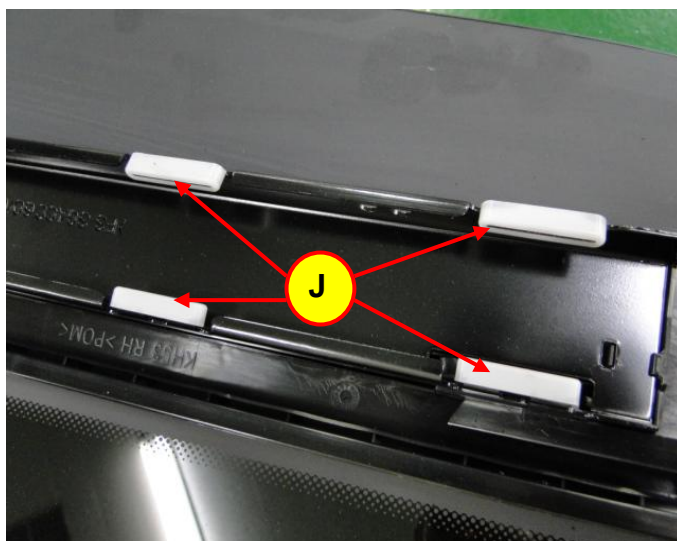
The belt (M) is fully exposed once the panoramic sunroof glass assembly (I) is removed.



- 4.** Remove the shoes (J) which are installed on **both** sides of the removed panoramic sunroof glass assembly.

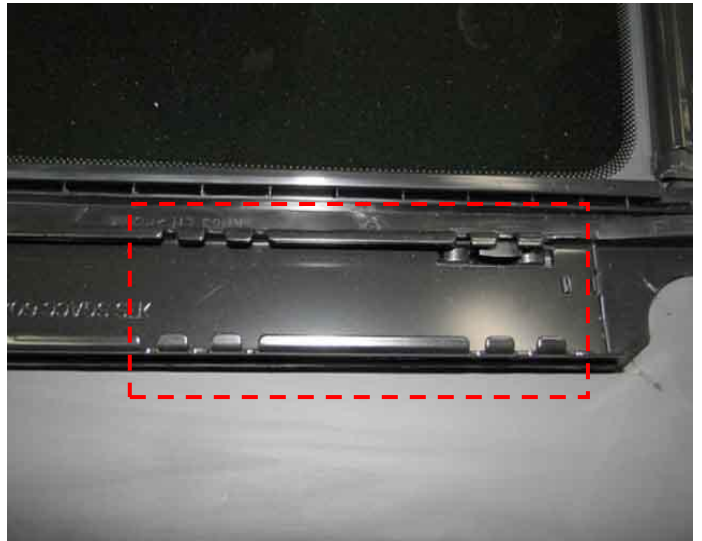
*** NOTE**

The removed shoes will be reused when installing the new panoramic sunroof glass assembly.



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Figure on right shows complete shoe removal from sunroof. Shoes from both sides must be removed.



K: Removed shoes.



- 5.** Install the removed shoes (K) onto the new panoramic sunroof glass assembly.

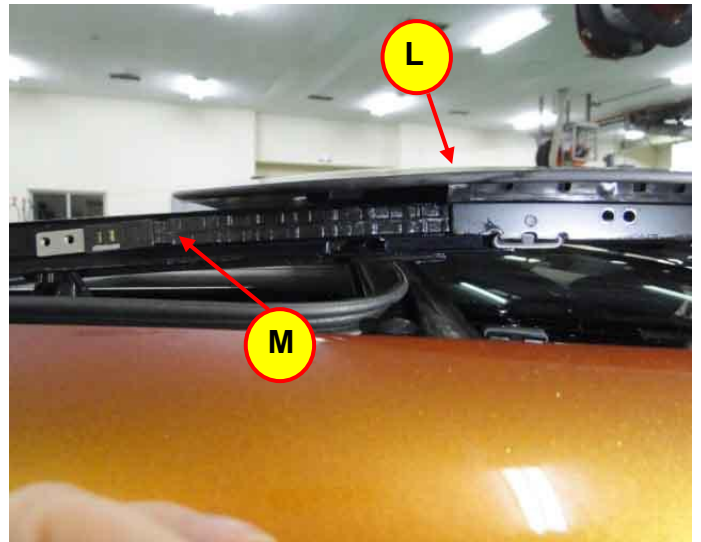


All shoes must be held in place before installation of new sunroof glass assembly.

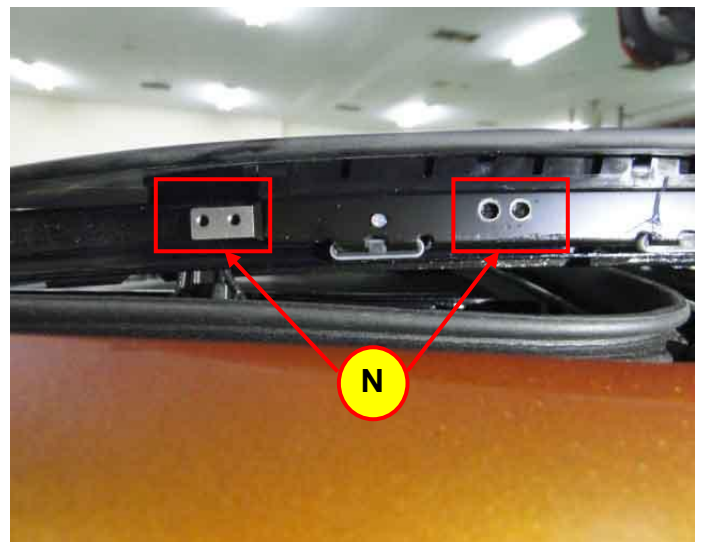


6. Install the new panoramic sunroof glass assembly (L).

1) Align the mounting holes (N) of the belt (M) with ones of the new panoramic sunroof glass (L).

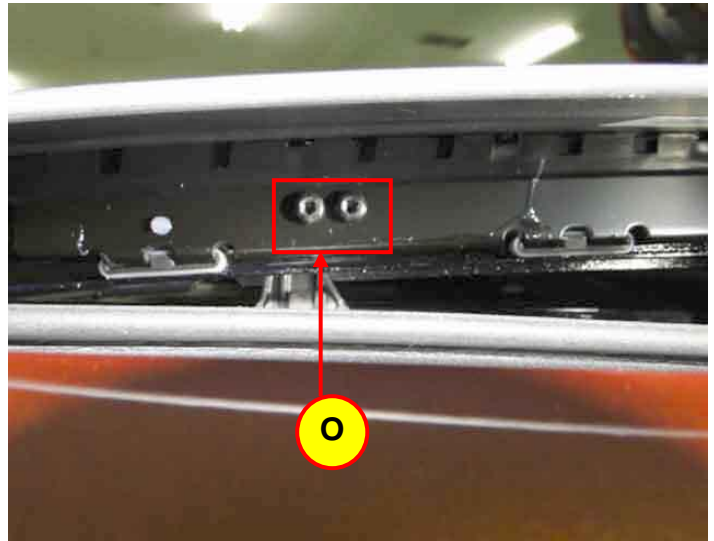


Ensure new panoramic sunroof glass is correctly aligned with mounting holes (N).



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- 7.** Install the mounting bolts (O)
Required bolt torque: 10.8-13.7nm (8.0-10.1lb-ft).



- 8.** Verify the operation of the panoramic sunroof.