



HYUNDAI

NEW THINKING.
NEW POSSIBILITIES.

Technical Service Bulletin

GROUP

Campaign

NUMBER

13-01-051

DATE

December 2013

MODEL(S)

2013 Veloster (FS)

SUBJECT: VELOSTER SPEAKER (SERVICE CAMPAIGN TR7)

*** IMPORTANT**

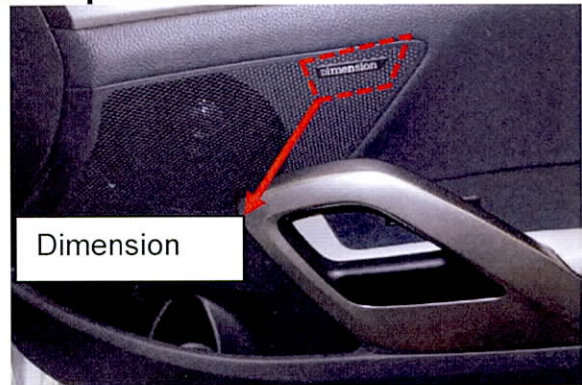
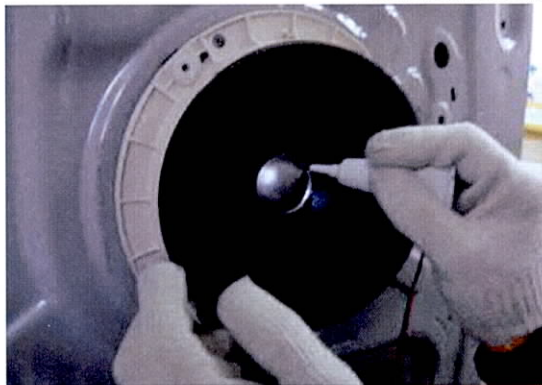
***** Dealer Stock and Retail Vehicles *****

Dealers must perform this Campaign on all affected vehicles prior to customer retail delivery 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.

DESCRIPTION: This bulletin describes the procedure of inspecting all speaker center caps in the Veloster that may become separated or have already become separated from a speaker.

Dimension System Speakers



Applicable Vehicle	Applicable Production Date Range
Veloster	August 6,2012 – November 14,2012
This TSB only applies to Velosters with Dimension Systems.	

WARRANTY INFORMATION:

OP CODE	OPERATION	OP TIME
30C065R0	3 DOOR SPEAKER + 1 REAR LH QUARTER SPEAKER	1.5 M/H

NOTE: Submit claim using the Campaign Claim Entry Screen.


NOTE: Sublet amount of \$2 will be included in each claim.

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

PARTS INFORMATION:

A kit has been sent to each dealer to be used for the speaker repair.

Additional kit can be ordered through the PDC.

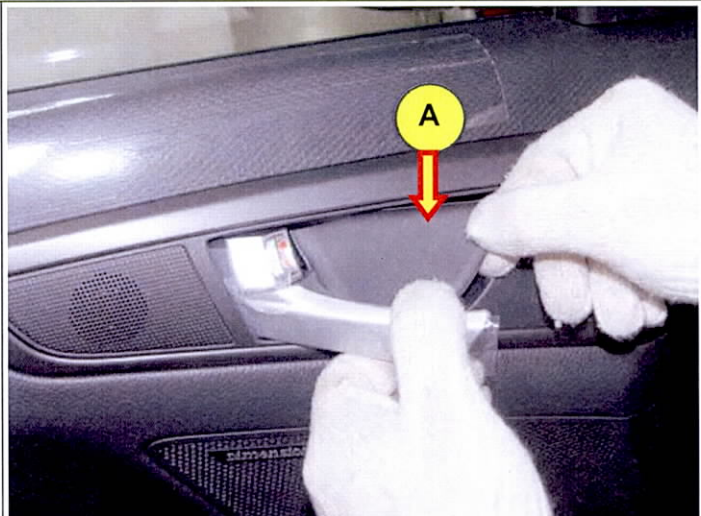
Part Description	PART TYPE	P/N	REMARK
SPEAKER REWORK KIT		96330-FS00X	<p>Henkel bond DS112</p> <p>One bond is to be used for one vehicle, five bonds are provided in each kit.</p> <p>The bond has a shelf life of one year, check expiration date before use.</p> <p>MATERIAL SAFETY DATA SHEET can be found on page (15) of this TSB.</p>

Notice

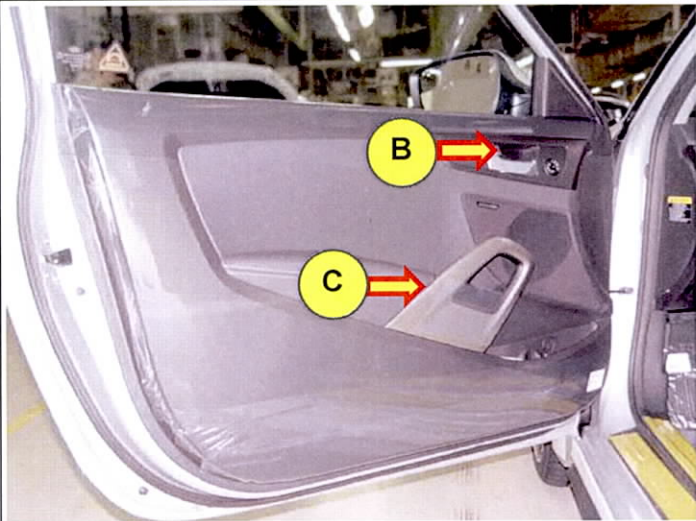
After completing all procedures for a vehicle do not turn up the audio volume greater than 50% of the max volume within 10 minutes. The bond requires at least 90 minutes to fully cure.

Procedure: Removing the front driver or passenger door trim.

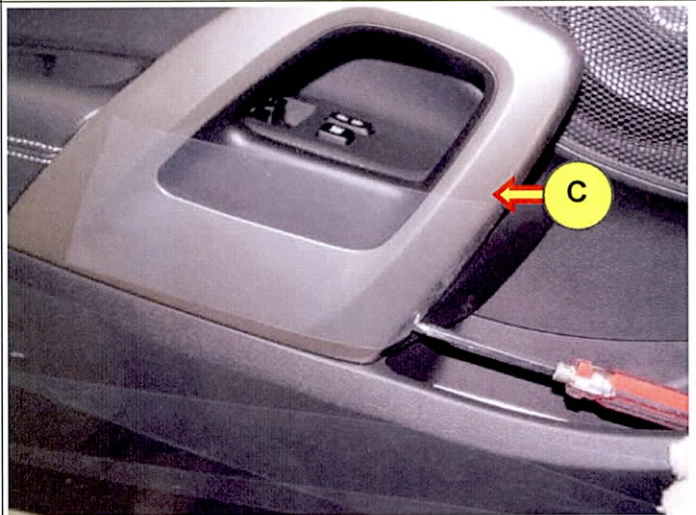
1. Pull the door release lever and remove the inside cover (A) using a flat head tool.



2. Remove the screw behind the door release lever (B) and then remove the door handle trim cover (C).



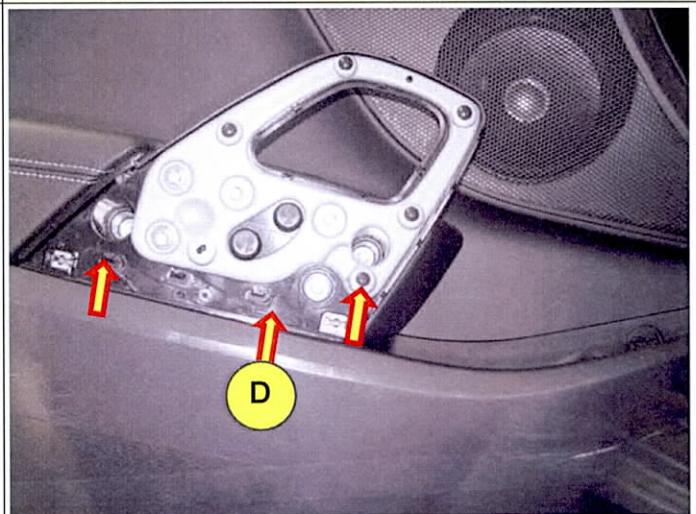
3. Carefully remove the door handle outer cover (C).



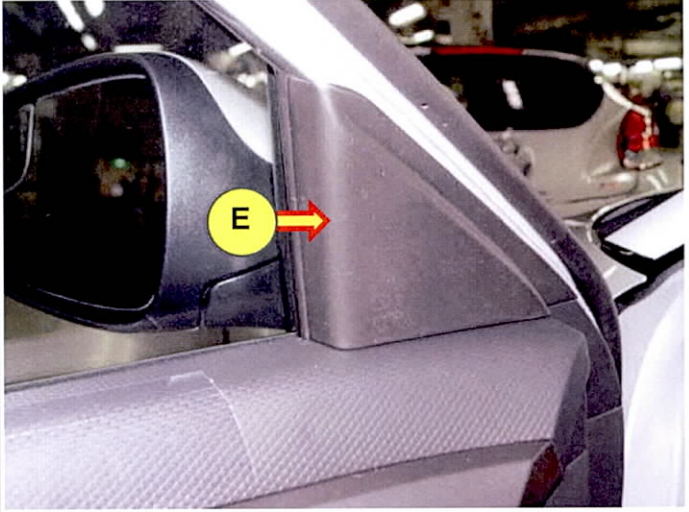
4. Remove the door trim mounting bolts (D).

Tightening Torque

5.7 ~ 8.6 lbf-ft (7.8 ~ 11.7Nm / 0.8 ~ 1.2 kgf.m)

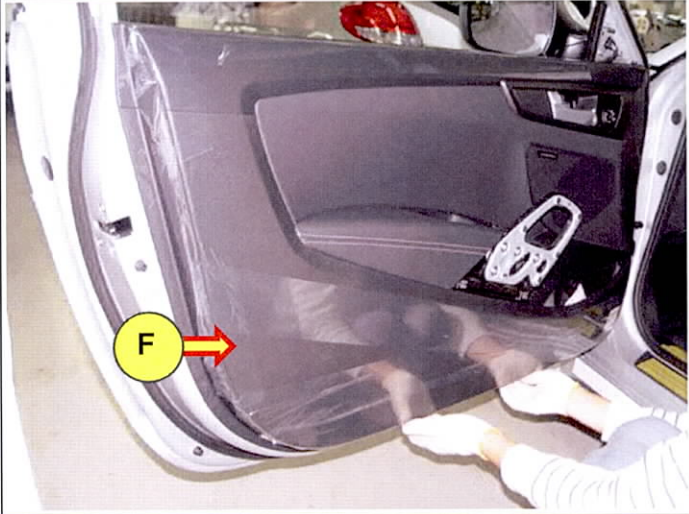


5. Remove the trim cover (E).

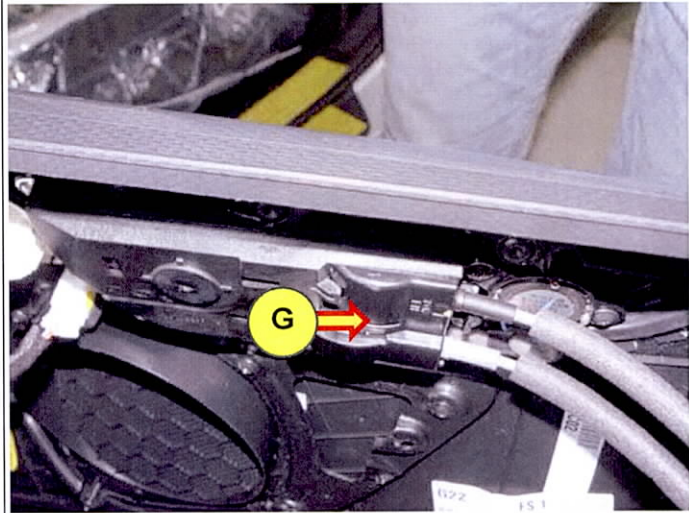


6. Using a panel remover, release the door trim clips or use hands to separate the door trim (F) from the door by pulling the door trim (F) as illustrated in the picture on the right.

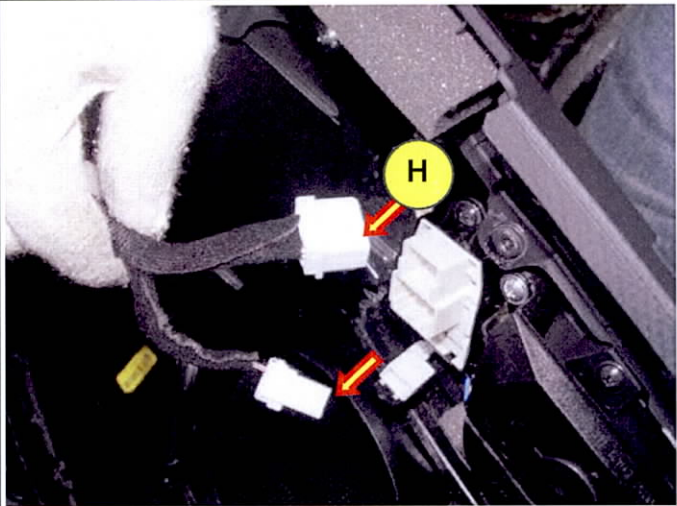
Notice If trim clips break during removal order replacements.
P/N 82315-38000 or P/N 82315-2P000



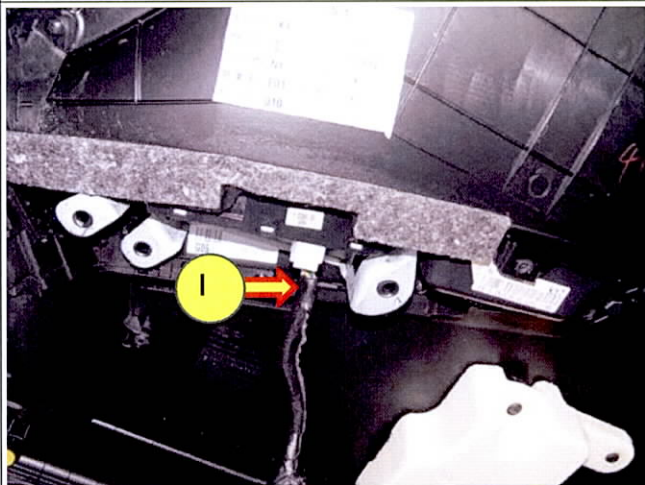
7. With the door trim removed, release the inside lever cable mechanism (G).



8. Disconnect the speaker connectors (H).



9. Disconnect the door trim window switch connector (I) and then remove the door trim.



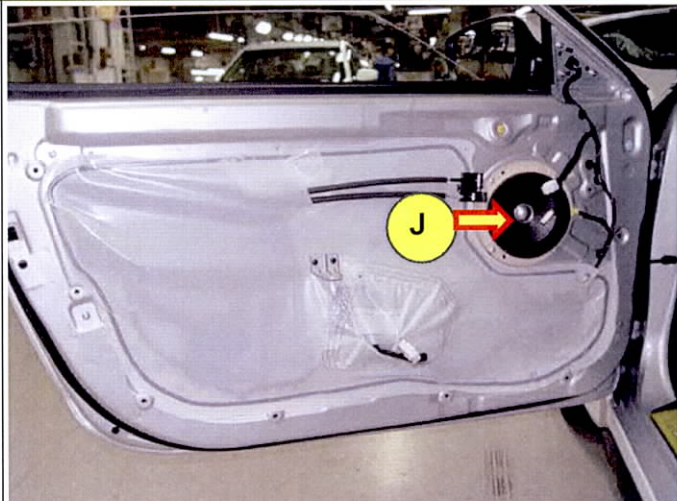
10. With the door trim removed and the speaker accessible. Inspect the center cap condition (J).

Continue to procedure (11) if the center cap has not separated from speaker.

Skip to procedure (14) if center cap has become separated.

When procedures are complete, reinstall all removed trim in reverse order of removal.

Trim removal is the same for both front doors.



Procedure: Center cap did not separate from speaker

11. The below procedures are to be completed if the center cone did not separate from the speaker surface area.



12. Apply the bond to the edge of the cap where it meets the speaker surface area as shown on the image.

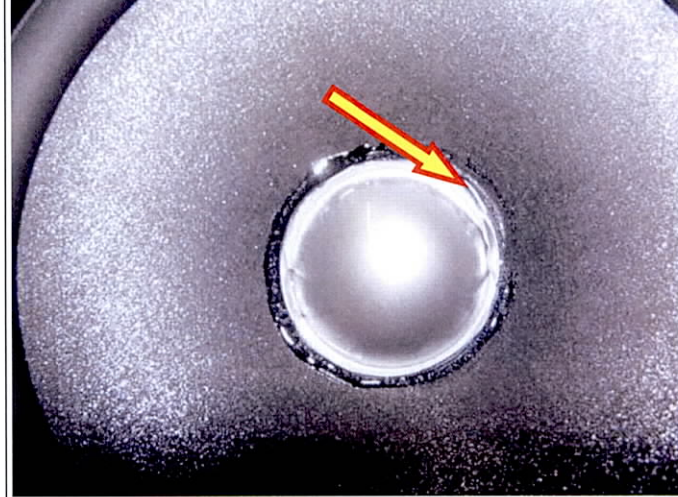
See right most image [X] for an example of how the bond must overlap the edge of the center cap.



13. Some of the bond will overflow onto the speaker surface or onto the center cap, this is acceptable.

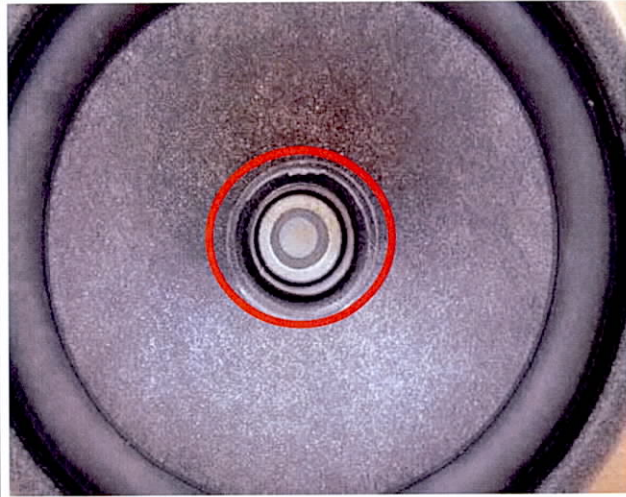
Repeat procedure (1) – procedure (10) for remaining front door.

Complete procedure (11) or procedure (14) as needed when the speaker is visible to inspect.



Procedure: Center cap has become separated from the speaker.

14. The below procedures are to be completed if the center cone has become separated from the speaker surface area.



15. Apply bond to the exact same area previously outlined by the original bond on the speaker surface.

Notice

Prevent the bond from getting inside the central speaker area. If bond is seen inside the center of the speaker, replace the speaker.



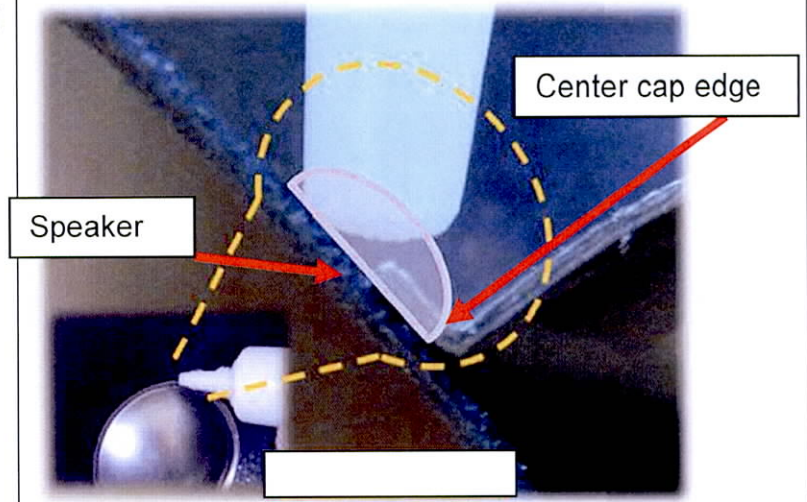
16. Using the supplied tweezers, place the center cap on the speaker.
- To increase accuracy when positioning the center cap, use the glue outlined on the speaker to help guide the placement.



17. After the center cap has been placed onto the speaker, press on the center cone for one minute.

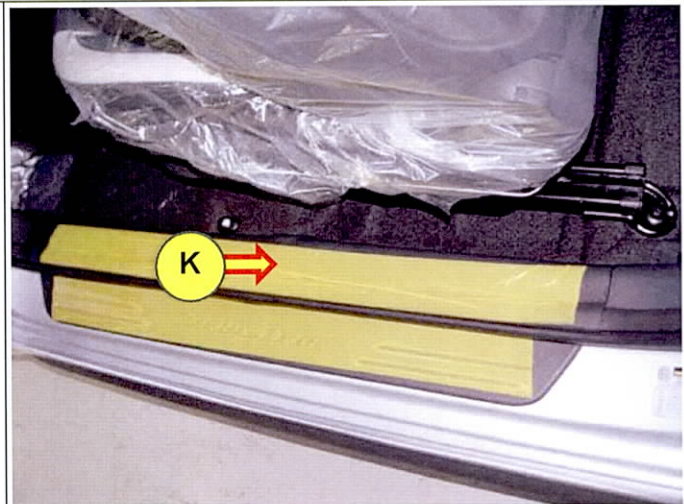


18. Ensure there is sufficient bond overlapping the edges of the center cap and the speaker.



Procedure: Removing the rear left panel trim.

19. Remove the rear left side door scuff (K).



20. Partially remove the rear left weather strip (L).



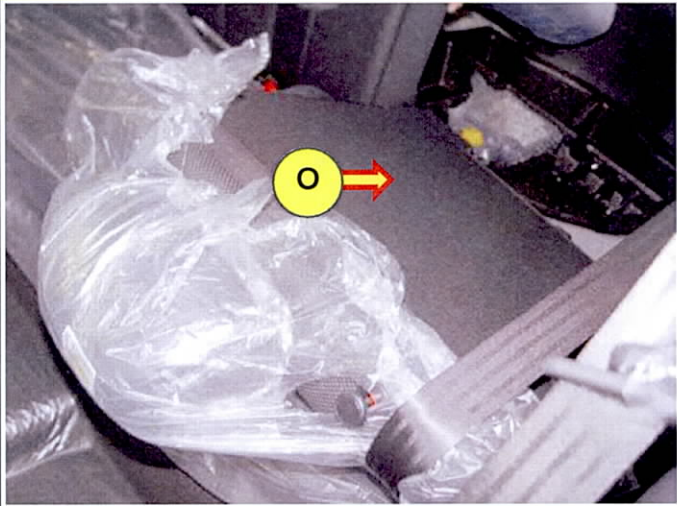
21. Remove the covering shelf trim (M).



22. Remove the rear covering mat (N).

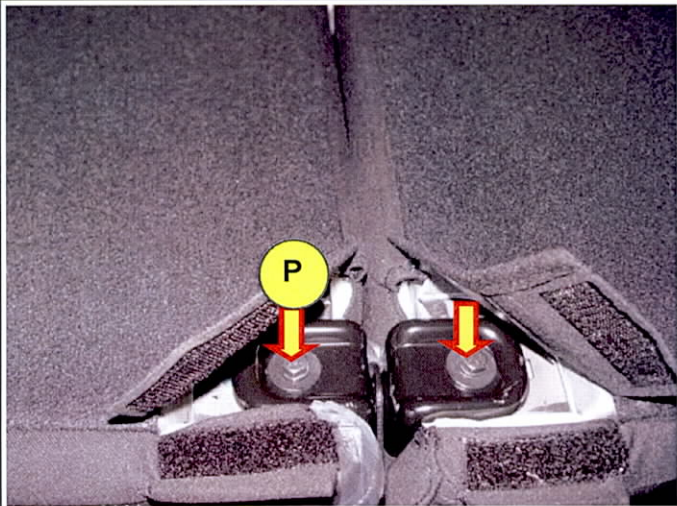


23. Fold down both rear seat backs (O).



24. Remove the rear seat back mounting bolts (P).

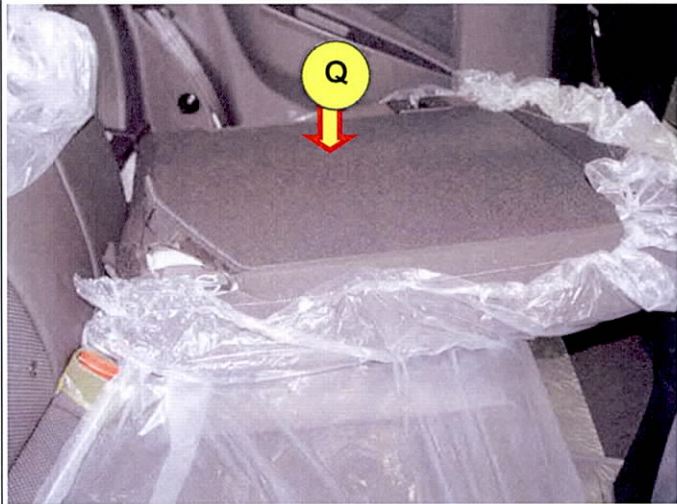
Tightening Torque
 12.2 ~ 18.8 lb.f-ft (16.6 ~ 25.4Nm /1.7 ~ 2.6 kgf.m)



25. Remove the seat back (Q).

Notice

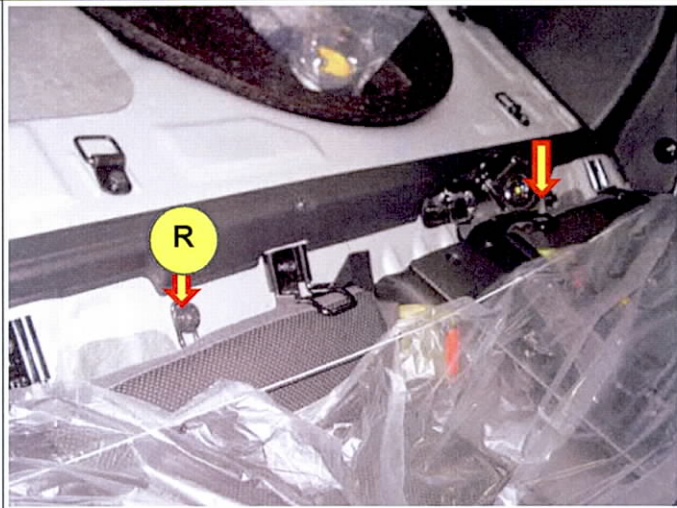
While removing the seat back be careful not to scratch the interior panels.



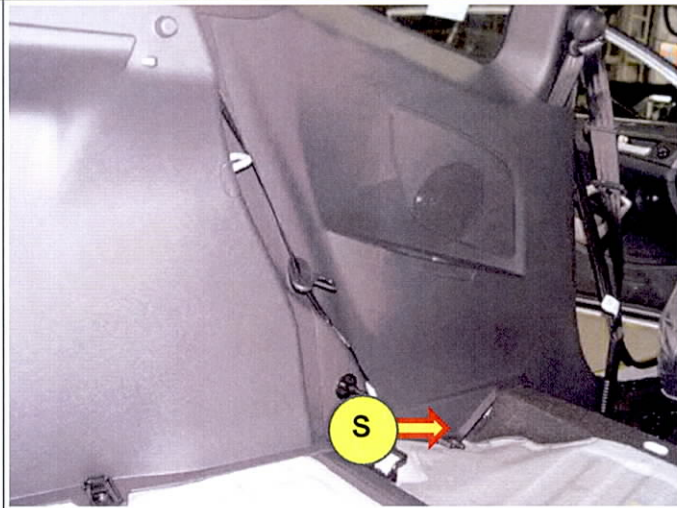
26. Remove the rear seat cushion mounting bolts (R) and then remove the cushion base.

Tightening Torque

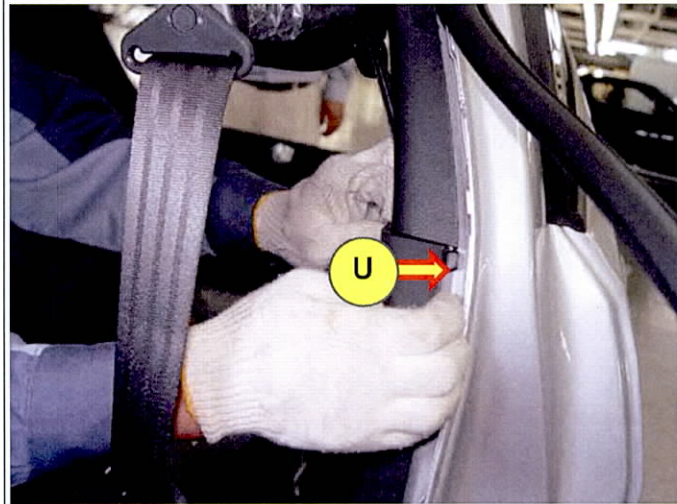
12.2 ~ 18.8 lb.f-ft (16.6 ~ 25.4Nm /1.7 ~ 2.6 kgf.m)



27. Remove the left quarter trim mounting screw (S).



28. Release the quarter trim upper clip by pulling the quarter trim (U) towards the inside of the vehicle.

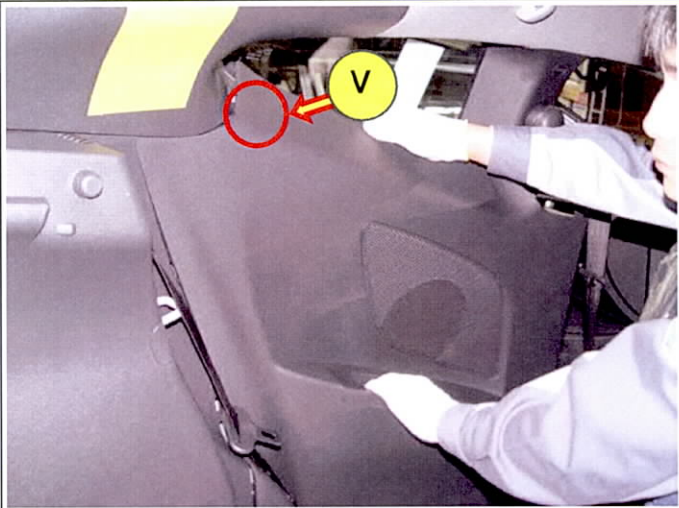


29. Release the trim clip (V) then remove the quarter panel trim.

Notice

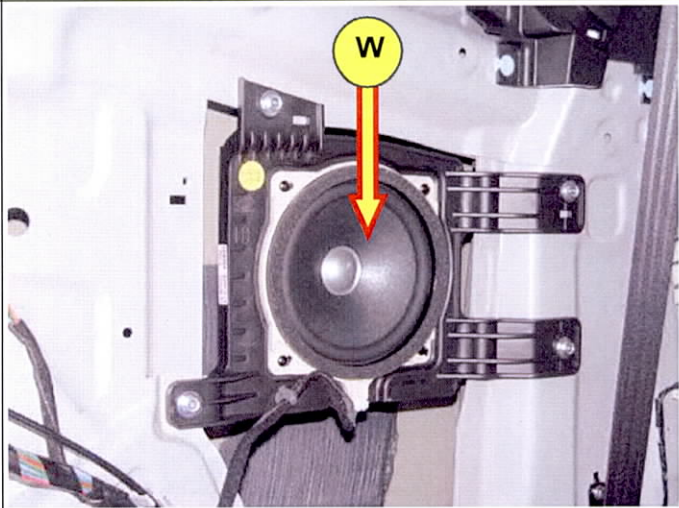
If trim clips break during removal, order replacements.

P/N 82315-38000 or P/N 82315-2P000
Either part numbers are acceptable.



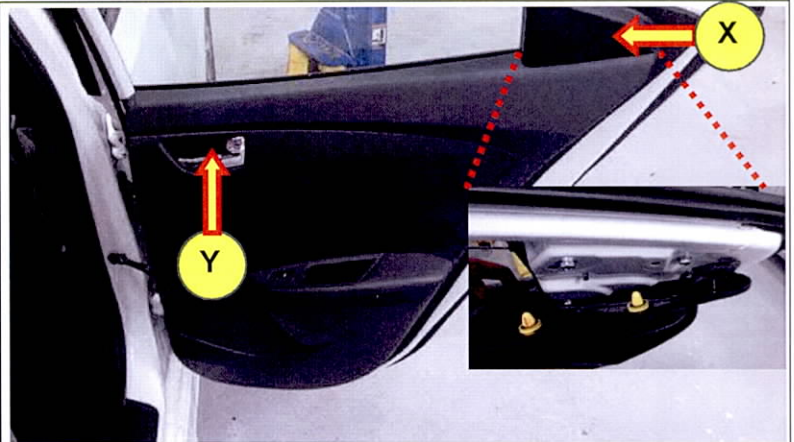
30. Inspect the speaker after it is accessible and complete procedure (11) or procedure (14) after inspection.

Reinstall all removed parts in reverse order of removal.



Procedure: Removing the rear right door panel trim.

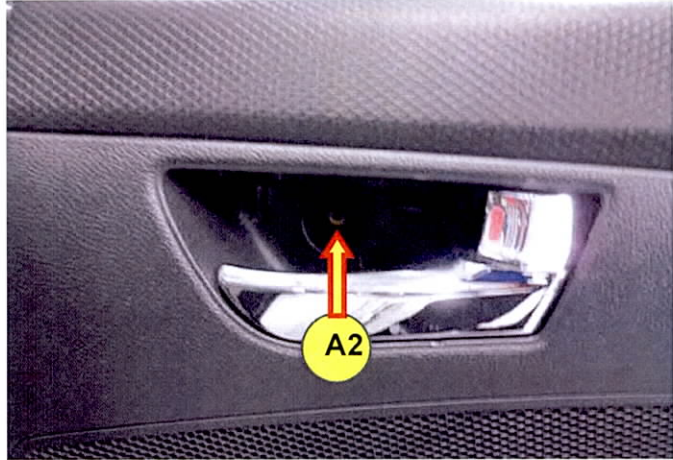
31. Using a trim removal tool remove the upper door trim cover (X) and the inner door lever release cover (Y).



32. After removing the upper door trim cover (X) from the procedure above, remove the mounting screw (Z).



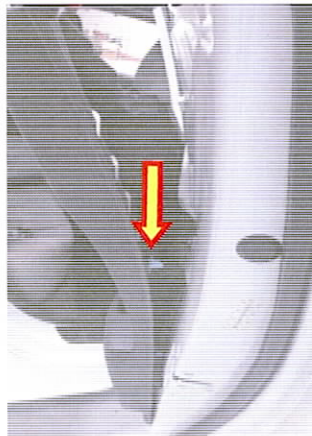
33. Remove the mounting screw (A2) from the door release lever.



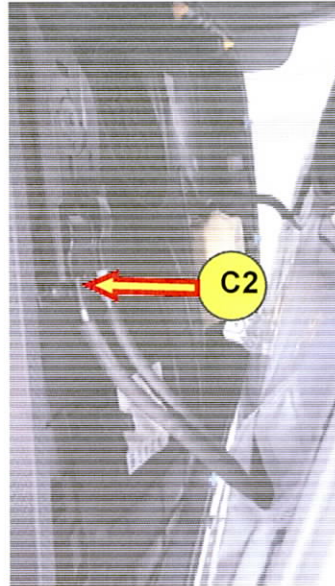
34. Remove the mounting screw inside the door handle (B2).



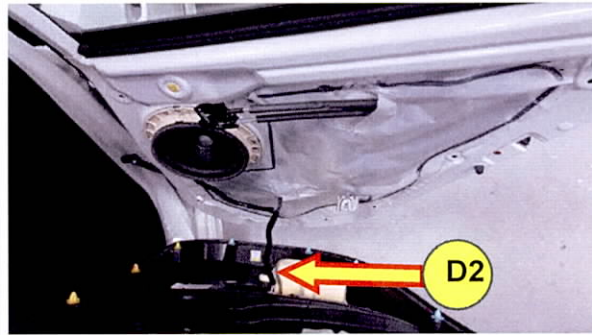
35. Use a trim removal tool to release the trim clips on the sides of the door panel first.



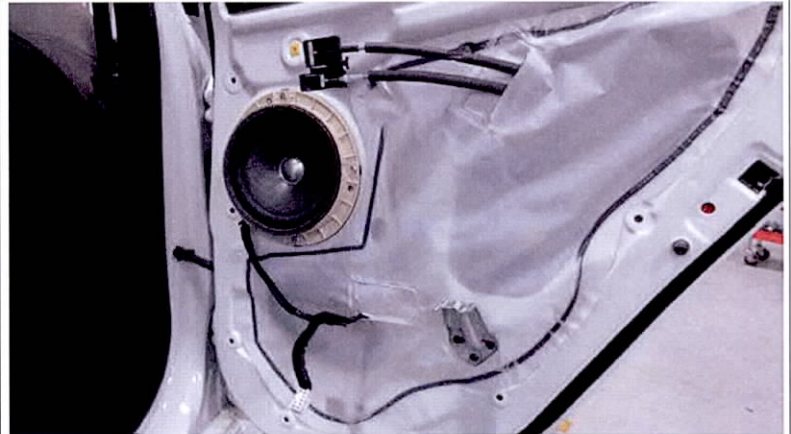
36. With the door trim detached from the door frame, press the release tab on the door lever cable (C2) to remove the door lever cable connector from the panel.



37. Disconnect the speaker and window connector (D2) from the door panel to remove the panel completely from the door frame.



38. With the door panel removed, inspect the speaker and complete procedure (11) [Center Cap Did not Separate] or procedure (14) [Center Cap has Separated from Speaker].



After completing the procedure, re-install all removed parts in reverse order of removal.

Replace any broken trim clips as needed.

Either trim clip part number is acceptable.

P/N 82315-38000 or P/N 82315-2P000

MATERIAL SAFETY DATA SHEET can be found below.



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

■ PRODUCT CODE DS-1112C
 ■ GENERAL CHEMICAL Adhesive based on Synthetic rubber.
 CHARACTERISTIC
 ■ NOXIOUSNESS CLASSIFICATION NFPA RATINGS (Health=2, Fire=3, Reactivity=0)
 ■ USE Industrial Adhesive
 ■ INFORMATION OF MANUFACTURER (SUPPLIER)
 COMPANY National Starch and Chemical Ltd.
 ADDRESS 258-6, Young-Weon-Ri, Sungnam-Myun,
 Chunan-City, Choongnam, Korea.
 PHONE 82-41-554-5563
 ISSUED BY Technical Department
 PREPARED BY J. Y. Seo
 ESTABLISHED 2000. 1. 31.
 REVISION NO 1
 REVISED 2002. 6.03.

2. COMPOSITION, INFORMATION OF COMPONENTS

COMPONENT	TRADE NAMES / SYNONYMS	CAS NO	CONTENT (%)
SBS RUBBER	-	-	20~30
PETROLEUM RESIN	-	-	10~15
TOLUENE	METHYL BENZENE	108-88-3	30~40
ETHYL ACETATE	ACETIC ACID ETHYL ESTER	141-78-6	15~25
OTIERS	-	-	Below 1

3. HAZARDS IDENTIFICATION

■ INFORMATION IN EMERGENCY Extremely flammable
 ■ EYE Irritating and may injure eye tissue if not removed promptly
 ■ SKIN CONTACT Frequent or prolonged contact may irritate and cause dermatitis.
 Repeated or prolonged contact may cause defatting of the skin,
 which may lead to skin irritation and/or dryness.

DS-1112C



- INHALATION Overexposure may be irritating to respiratory passages and cause other effects such as eye irritation or nausea. Care should be taken not to exceed the TLV.
- INGESTION Irritating to mouth, throat and stomach. May cause gastric tract disorder and/or damage. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia of pulmonary edema.

4. FIRST AID MEASURES

- INHALATION Remove to fresh air. If breathing is difficult. Give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.
- SKIN CONTACT Flush with large amounts of water ; Use soap if available. Remove grossly contaminated clothing, including shoes and launder before re-use. Discard shoes. If irritation persists, get medical attention.
- EYE CONTACT Immediately flush eyes with large amounts of water for at least 15minutes, lifting upper and lower lids. Get prompt medical attention.
- INGESTION Do not induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention.

5. FIRE FIGHTING MEASURES

- FLASH POINT 2 C
- AUTOIGNITION 458 C
- FLAMMABLE CLASS(OSHA) IB
- LOW/UPPER FLAMMABLE LIMITS 1.45% /8.48%
- EXTINGUISHING MEDIA CO₂ ; Dry chemical ; water fog ; foam
- FIRE FIGHTING PROCEDURES Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.
- HAZARDOUS DECOMPOSITION Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

6. ACCIDENTAL RELEASE MEASURES

- SPILL AND LEAK PROCEDURE Shut off ignition sources. Stop leak if you can do it without risk. For small liquid spills, take up with sand or other absorbent material. For larger spills, dike for ahead of spill for later disposal. No smoking, flames or flares in hazard area! Keep unnecessary people away.
- For safety and environmental precautions, precautions, please review entire MATERIAL SAFETY DATA SHEET, for necessary information.

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7. HANDLING AND STORAGE

- STORAGE TEMPERATURE Room temperature.
- HANDLING / STORAGEITION Store in a cool, dry area away from heat, sparks or fire.
Open drums in ventilated area. Avoid breathing vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

- VENTILATION General ; local explosion-proof exhaust ventilation.
- RESPIRATOR Avoid prolonged or repeated breathing of vapor or mists.
If exposure may of does exceed occupational exposure limits, use a NIOSH approved respirator to prevent overexposure.
- EYE PROTECTION Wear chemical goggles.
- GLOVE Impervious neoprene or rubber gloves are recommended.
- CLOTHING Standard industrial hygiene procedures should be practiced.
- EXPOSURE LIMITS

COMPONENT	TWA	
	OSHA	ACGIH
ETHYL ACETATE	400ppm	400ppm
TOLUENE	200ppm	50ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE Light yellow
- BOILING POINT 99°C
- ODOR Gasoline
- VISCOSITY 4,500 ± 250 cps/20 ± 1°C
- SOLUBILITY IN WATER Insoluble

10. STABILITY AND REACTIVITY

- STABILITY Stable
- CONDITIONS TO AVOID Avoid contact to heat, spark, flames or other sources of ignition.
- HAZARDOUS DECOMPOSITION Thermal decomposition products may include carbon oxide and unknown organic compounds.

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11. TOXICOLOGICAL INFORMATION

■ **TOLUENE**

IRRITATION DATA: 300 ppm eyes-human; 435 mg skin-rabbit mild; 500 mg skin-rabbit moderate;
 TOXICITY DATA: 49 gm/m³/4 hour(s) inhalation-rat LC50; 636 mg/kg oral-rat LD50.
 CARCINOGEN STATUS: IARC: Human Inadequate Evidence, Animal Inadequate Evidence, Group 3; ACGIH: A4
 -Not Classifiable as a Human Carcinogen.
 TARGET ORGANS: nervous system

■ **ETHYL ACETATE**

IRRITATION DATA: 400 ppm eyes-human.
 TOXICITY DATA: 200 gm/m³ inhalation-rat LC50; 5620 mg/kg oral-rat LD50.
 CARCINOGEN STATUS: ACGIH: A4 -Not Classifiable as a Human Carcinogen.
 TARGET ORGANS: central nervous system

12. ECOLOGICAL INFORMATION

■ **TOLUENE**

ECOTOXICITY DATA:
 FISH TOXICITY: 8110 ug/L 96 hour(s) LC50 (Mortality) Coho salmon, silver salmon (*Oncorhynchus kisutch*).
 INVERTEBRATE TOXICITY: 6000 ug/L 48 hour(s) EC50 (Immobilization) Water flea (*Daphnia magna*).
 ALGAL TOXICITY: 9400 ug/L 8 hour(s) EC50 (Growth) Green algae (*Selenastrum capricornutum*).
 FATE AND TRANSPORT:
 BIOCONCENTRATION: 1716 ug/L 6 hour(s) BCF (Residue) Water flea (*Daphniamagna*) 1.5 ug/L.

■ **ETHYL ACETATE**

ECOTOXICITY DATA:
 FISH TOXICITY: 1500000 ug/L 48 hour(s) LC50 (Mortality) Medaka, high-eyes (*Oryzias latipes*).
 INVERTEBRATE TOXICITY: 6000 mg/L 24 hour(s) EC100 (Abundance) Water flea (*Daphnia magna*).
 ALGAL TOXICITY: >1000000 ug/L 48 hour(s) (Population Growth) Green algae (*Scenedesmus pannonicus*).

13. DISPOSAL CONSIDERATIONS

- WASTE DISPOSAL METHODS Waste disposal should be in accordance with existing Federal, state and local environmental regulations.
- EMPTY CONTAINERS WARNINGS Empty containers may contain product residue. Follow MSDS and label warnings even after they have been emptied.

14. TRANSPORTATION INFORMATION

DOT SHIPPING NAME	UN NUMBER	DOT HAZARD CLASS	PCK GRP
Adhesives	UN 1133	3	II

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15. REGULATORY INFORMATION

- TSCA All components are on the TSCA inventory.
- EC RISK AND SAFETY PHRASES
 - R11 : Highly flammable
 - R20 : Harmful by inhalation
 - S2 : Keep out of reach of children
 - S9 : Keep container in a well-ventilated place
 - S16 : Keep away from sources of ignition. No smoking
 - S25 : Avoid contact with eyes
 - S29 : Do not empty into drains
 - S33 : Take precautionary measures against static discharge
 - S38 : In case of insufficient ventilation, wear suitable respiratory Equipment

16. OTHER INFORMATION

- SOURCES OF INFORMATION Korea Industrial Safety Corporation
U.S. MDL Information Systems, Inc.
- The information given and the recommendations made herein apply to our products alone and not combined with other product. Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made.

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