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|---|--------------------------------|
| <b>Subject:</b><br><br><b>HOOD VIBRATION WHILE DRIVING AT HIGHWAY SPEED</b> | <b>Bulletin No:</b> 09-029/12  |
|   | <b>Last Issued:</b> 07/27/2012 |

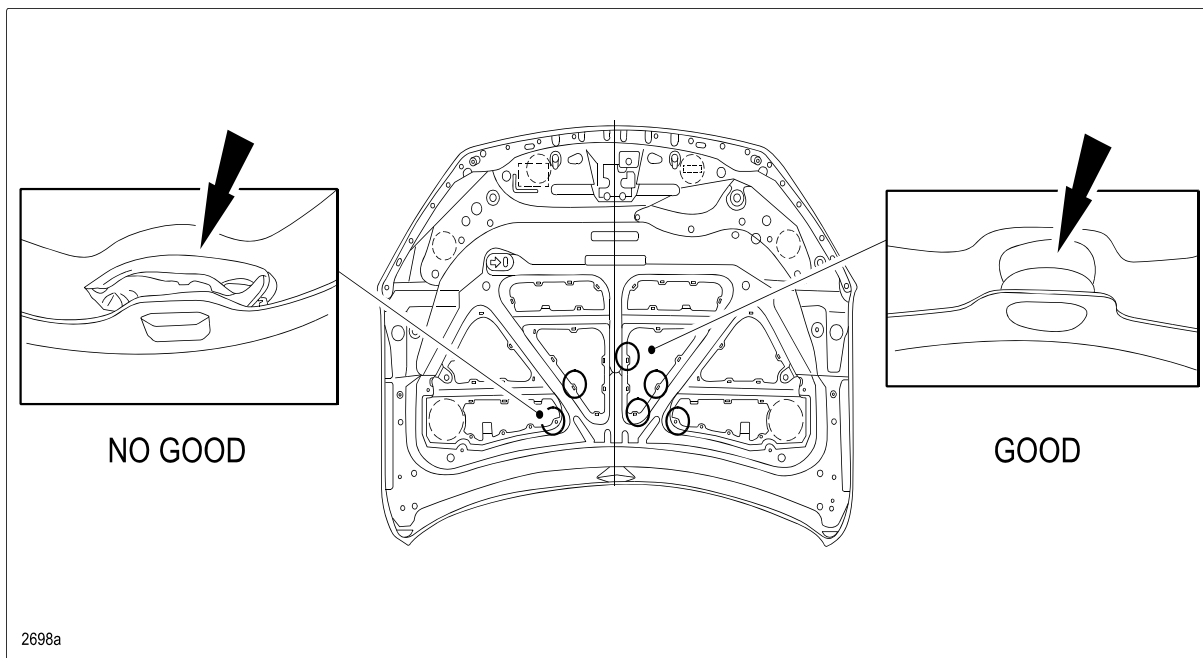
## APPLICABLE MODEL(S)/VINS

2013 CX-5 vehicles with VINs lower than JM3KE\*\*\*\*\*120257 (produced before April 18, 2012)

## DESCRIPTION

Some vehicles may exhibit a condition where the hood vibrates when driving at speeds of 110 Km/h (68 mph) or more.

The amount of sealant used to fill in the space between the inner frame and outer panel at the bottom area of the hood is insufficient. If the sealant detaches (as shown below on the left), it may cause the hood to vibrate. The amount of sealant has been increased during vehicle production to eliminate the concern.



Customers having this concern should have their vehicle repaired using the following repair procedure.

## REPAIR PROCEDURE

Additional dampening material will be applied between the hood's inner frame and outer panel and the hood height will be adjusted to apply additional tension.

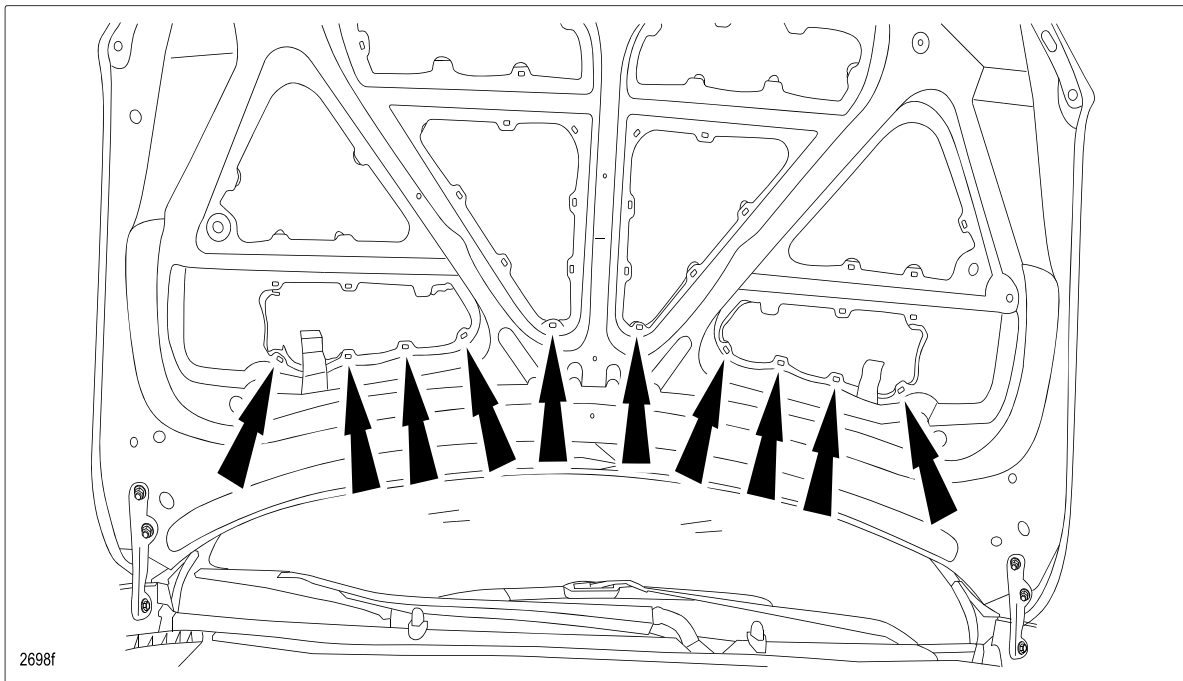
### NOTE:

- This repair should be performed by a qualified technician or body shop.
- DO NOT use any other products for this repair, such as panel bonding glue, which is too strong for this type of repair.

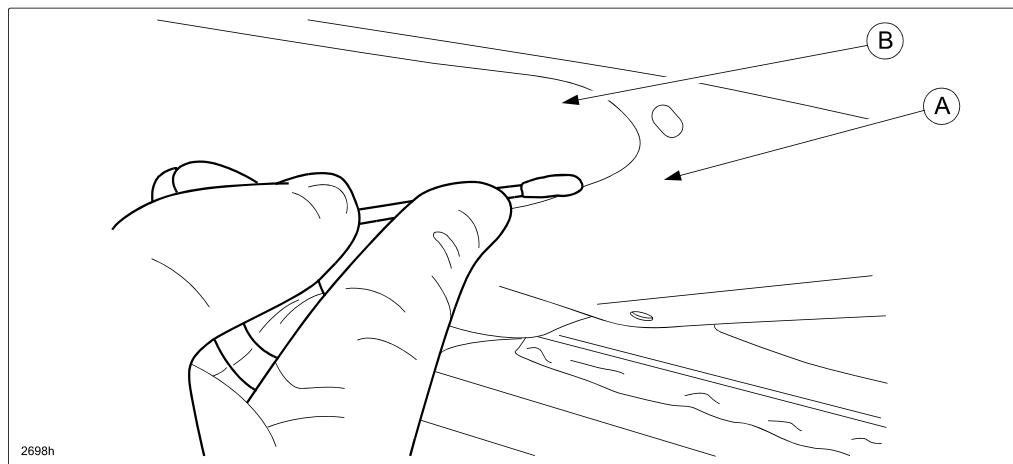
1. Verify the customer concern.
2. Open the hood and secure it with the support rod.
3. Remove the hood insulator according to the MS3 online instructions or the Workshop Manual (section 09-10 HOOD DISASSEMBLY/ASSEMBLY).
4. Confirm the ten (10) original sealant spots at the bottom area of the hood.

### NOTE:

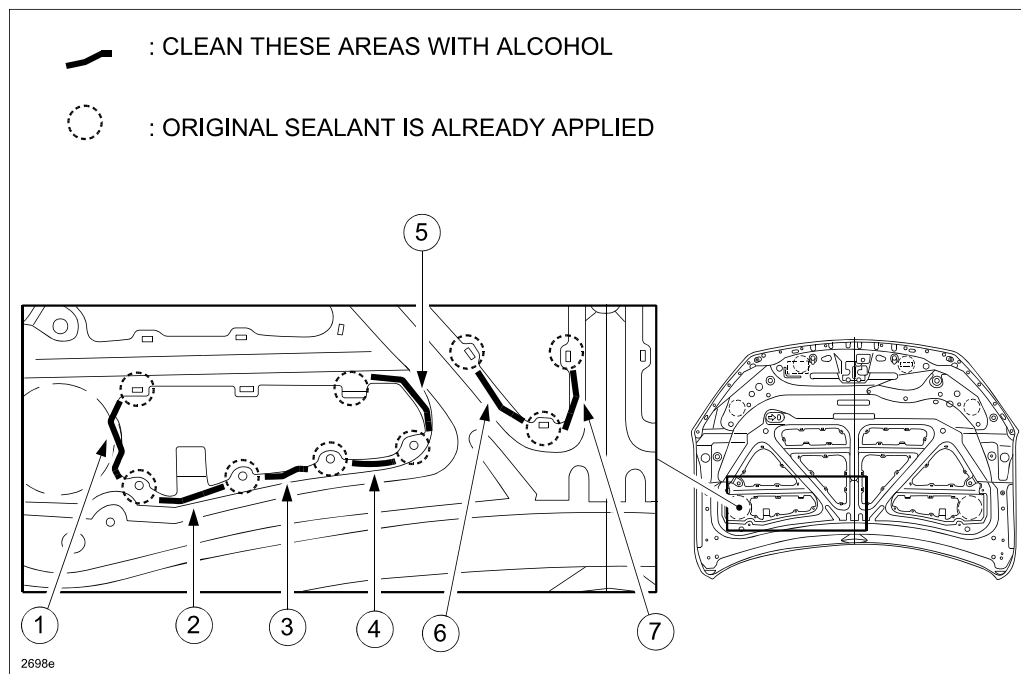
- Additional dampening material will be applied **between** these ten (10) original sealant spots.
- It is not necessary to apply dampening material to other areas of the hood. Even if the original sealant has become detached, it will have no influence on the hood vibration concern.



5. Using alcohol (of at least 50% content) and cotton swabs (or equivalent), thoroughly clean the fourteen (14) areas (shown below) between the hood's inner frame (A) and outer panel (B).

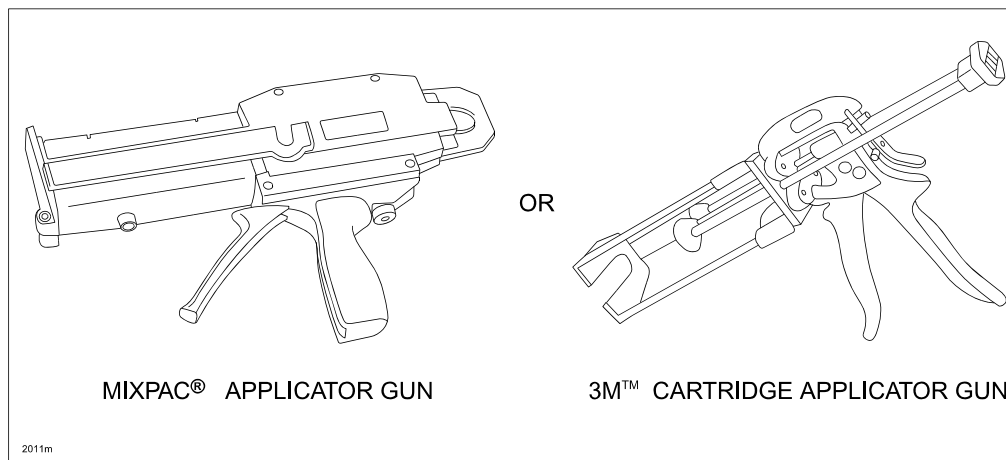
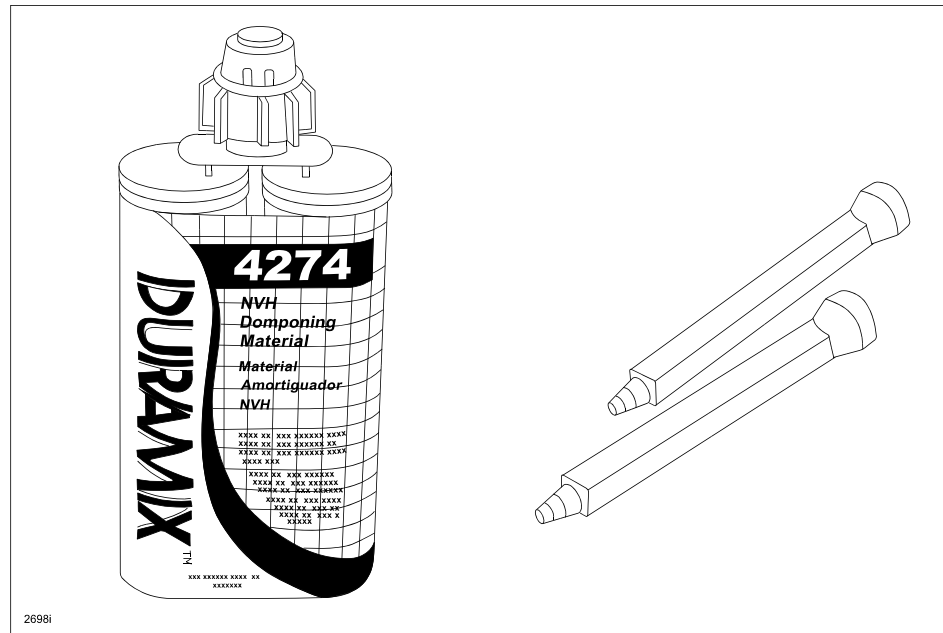


**NOTE:** There are seven (7) areas on the left side of the hood and seven (7) areas on the right side of the hood to be cleaned (left side shown below).



6. Locally obtain the following materials to perform the repair:

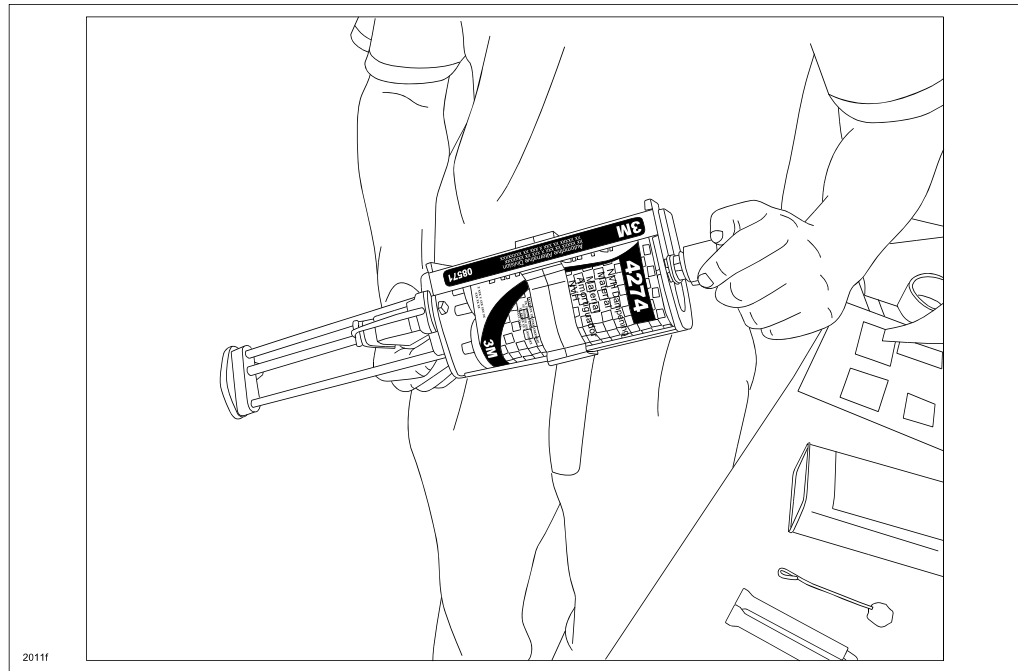
- Duramix NVH Dampening Material (04274); (includes two (2) mixing nozzles)
- Mixpac Applicator Gun (08117) OR 3M Cartridge Applicator Gun (08571)



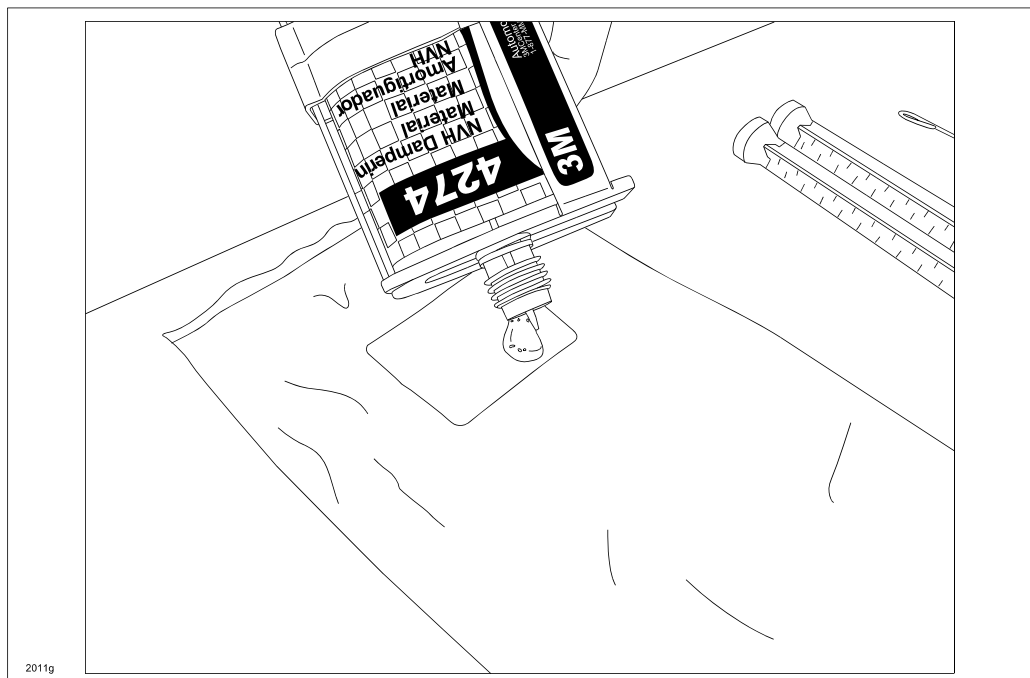
**NOTE:** Either applicator gun can be used, however, the 3M cartridge applicator gun is normally less expensive than the Mixpac applicator gun.

7. Insert Duramix NVH Dampening Material (04274) into applicator gun and remove the cap and insert.

**NOTE:** Do not discard the cap or insert.

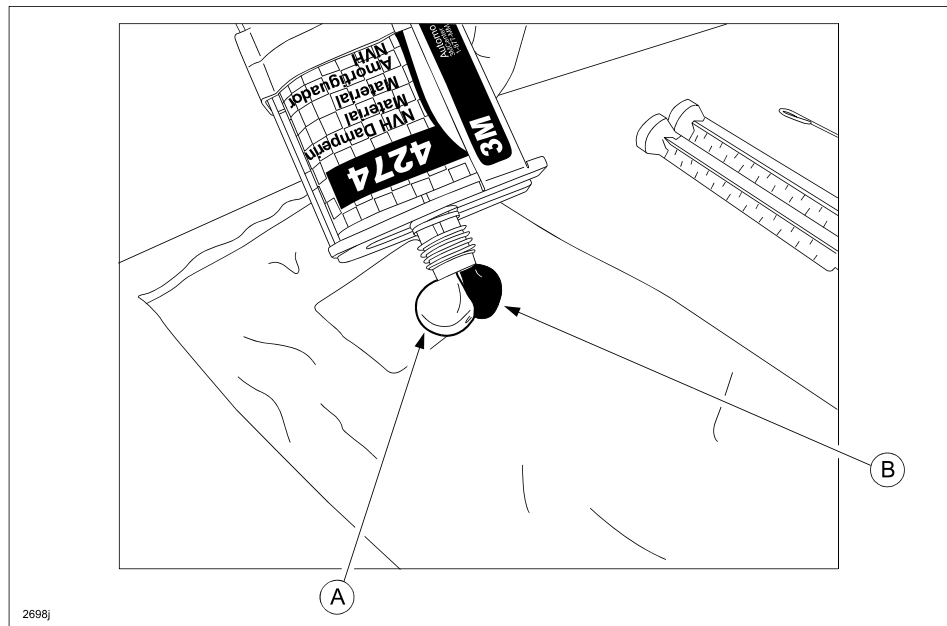


8. Begin squeezing the applicator gun trigger until clear dampening material starts to come out of one side.



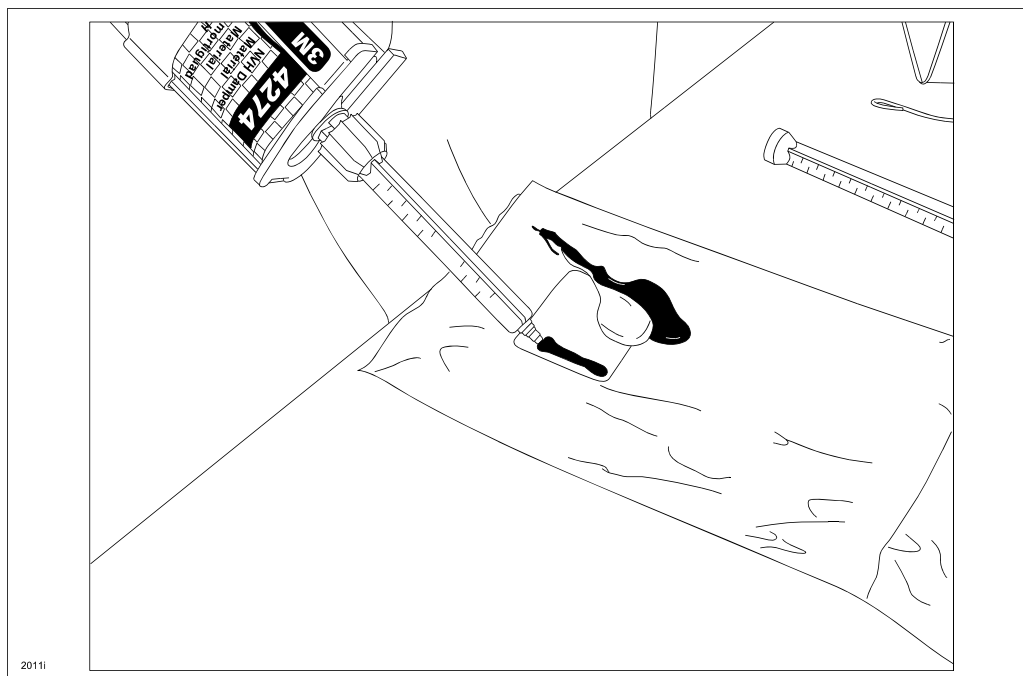
9. Continue squeezing the trigger until dampening material (A) and hardener (B) come out equally.

**NOTE:** This ensures dampening material and hardener are correctly mixed and will harden properly.



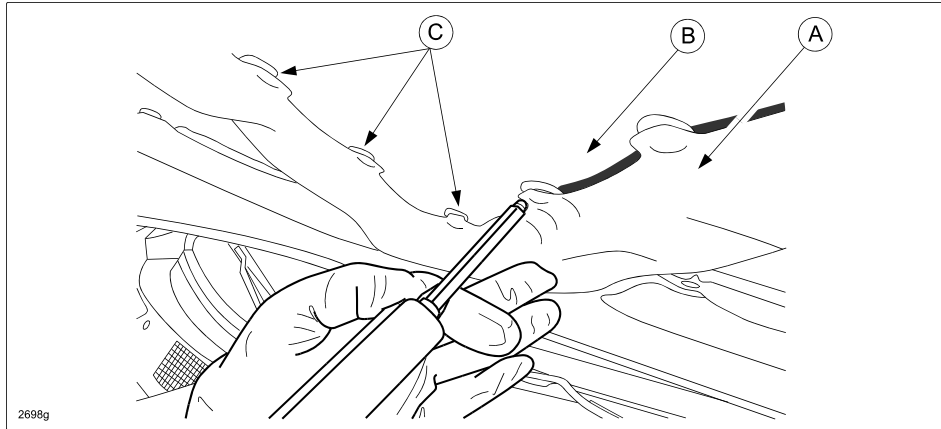
10. Insert the mixing nozzle onto the tip of the dampening material, then screw in the removed cap and tighten.

11. Squeeze the trigger until a small amount of material comes out.



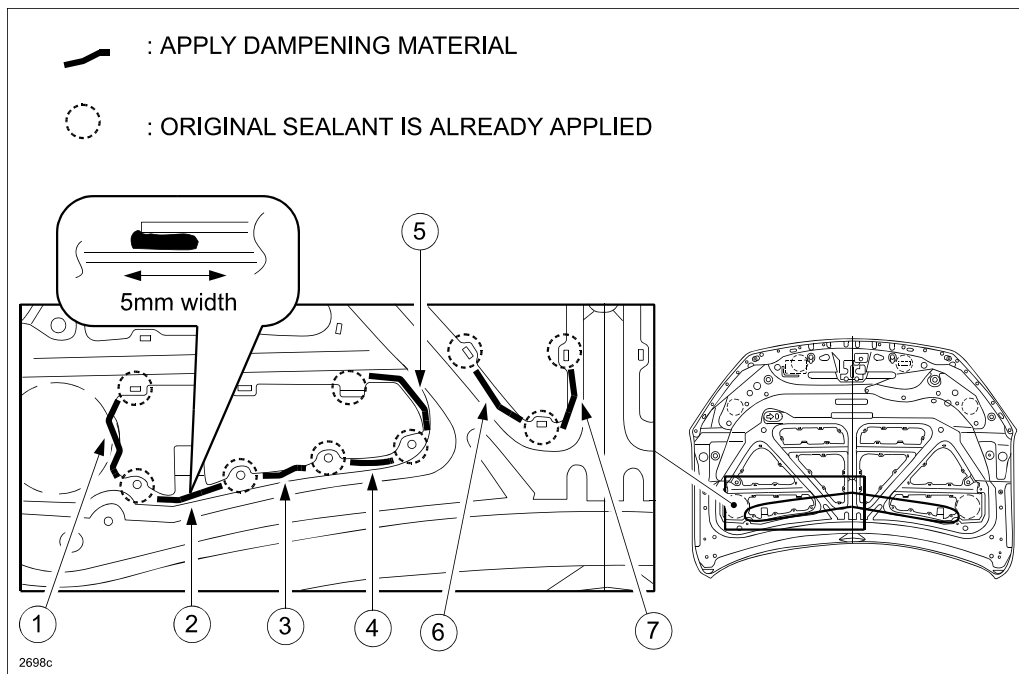
12. Apply a 5 mm wide bead of dampening material by pushing and filling it into the space between the inner frame (A) and outer panel (B) between the original sealant spots (C).

**NOTE:** It is recommended that a pair of protective rubber gloves be put on before applying the dampening material.



**NOTE:**

- Ensure the dampening material adheres to the inner frame and outer panel.
- Dampening material must be applied to a total of fourteen (14) locations, (seven (7) on the left and seven (7) on the right sides of the hood) as shown below.
- It is not necessary to apply dampening material over the original sealant spots, even if the original sealant has become detached.



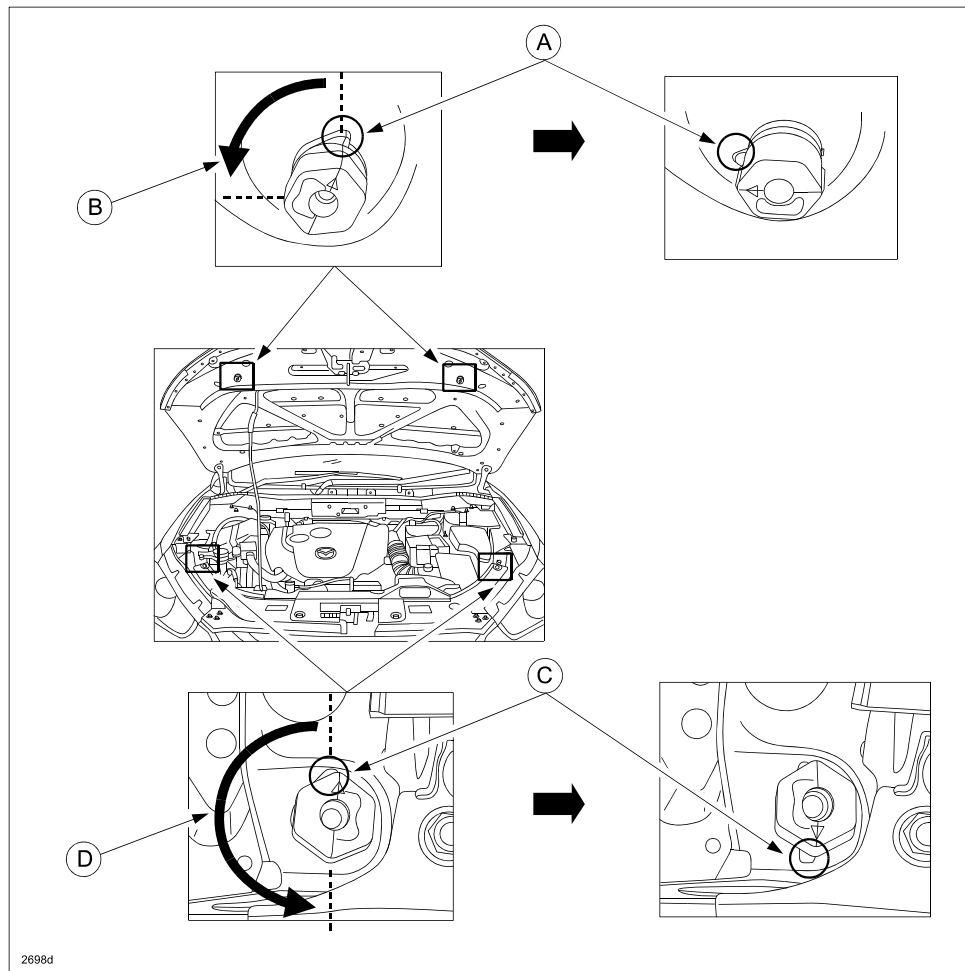
**NOTE:**

- One (1) Duramix NVH Dampening Material (04274) can repair two (2) vehicles.
- Any dampening material run-off should be removed.

13. Remove and discard the mixing nozzle.
14. Reinstall the insert and cap onto the dampening material.
15. Once the repair has been completed, leave the hood open and allow the dampening material to dry for at least six (6) hours when applied in ambient temperatures of 70 degrees F (21 degrees C).

**NOTE:**

- DO NOT press on the outer side of hood while the dampening material is drying.
  - DO NOT slam hood closed while the dampening material is drying. It could break the bond.
16. Adjust the hood height by turning the rubber stoppers on the hood (2 stoppers) and body side (2 stoppers).
    - Hood: Turn both hood side rubber stopper protrusions (A) 1/4 turn counterclockwise (B).
    - Body: Turn both body side rubber stopper protrusions (C) 1/2 turn counterclockwise (D).



17. After the dampening material has completely dried, close the hood and check the clearance between the hood and both front fenders according to the Body Shop Manual [CONSTRUCTION STANDARD VALUES].
18. Reinstall the hood insulator according to the MS3 online instructions or the Workshop Manual (section 09-10 HOOD DISASSEMBLY/ASSEMBLY).
19. Road test the vehicle to verify the hood vibration has been eliminated.



## PART(S) INFORMATION

| Part Number | Description   | Qty. | Notes   |
|-------------|---|------|---|
| 04274       | Duramix NVH Dampening Material - 6.25 fl. oz. (200 ml.) | 1    | Includes two (2) mixing nozzles                                     |
| 08571       | 3M Cartridge Applicator Gun                             | 1    | ---   |
| 08117       | MixPac Applicator Gun                                   | 1    | ---   |
| 08193       | Automix Mixing Nozzle                                   | 1    | Order replacement nozzles as necessary.<br>Includes six (6) nozzles |

- 3M General Support: (800) 524-6429
- 3M Technical Support: (877) 666-2277

## WARRANTY INFORMATION

**NOTE:**

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Mazda's New Vehicle Limited Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

|                                 |                     |
|---------------------------------|---------------------|
| Warranty Type                   | A                   |
| Symptom Code                    | 83                  |
| Damage Code                     | 97                  |
| Part Number Main Cause          | KDY3-52-31XA (Hood) |
| Quantity                        | 0                   |
| Operation Number / Labor Hours: | XXH5PXR / 0.4 Hrs.  |

**NOTE:**

- One (1) Duramix NVH Dampening Material (04274) can repair two (2) vehicles.
- The cost of the dampening material is included in the labor allowance.