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# QUALITY ACTION

## CAMPAIGN BULLETIN Radiator Fan Dealer Inventory

Reference: PM700

Date: October 13, 2017

Attention: Dealer Principal, Sales, Service & Parts Managers

Affected Models/Years:	Affected Population:	Dealer Inventory:	SERVICE COMM Activation date:	Stop Sale In Effect
MY2017 Sentra	NA	159	October 13, 2017	<b>NO</b>

**\*\*\*\*\*Dealer Announcement\*\*\*\*\***

Nissan is conducting a quality action to inspect the date code on the cooling fan blade and, if necessary, replace the cooling fan shroud and motor assembly on **159** specific 2017 Sentra vehicles.

Affected vehicles are **not** subject to stop sale and are either currently in dealer inventory or assigned and in transit to the dealer. Nissan requests dealers to inspect and, if necessary, remedy the affected vehicles prior to sale to help ensure customer satisfaction.

**\*\*\*\*\*What Dealers Should Do\*\*\*\*\***

1. Verify if vehicles currently in new dealer inventory are affected by this quality action using Service Comm or DBS National Service History – Open Campaign **I.D. PM700**
  - **New vehicles in dealer inventory can also be identified using DBS (Sales-> Vehicle Inventory, and filter by Open Campaign).**
    - Refer to NPSB 15-460 for additional information
  - **Please continue to check newly arriving inventory for campaign applicability.**
2. Use the attached procedure to inspect the vehicle and, if necessary, repair.
3. The service department should submit the applicable warranty claim for the action(s) performed so it can be closed on Service Comm and release the vehicle.

**\*\*\*\*\* Dealer Responsibility \*\*\*\*\***

It is the dealer’s responsibility to check Service Comm or DBS National Service History - Open Campaign using the appropriate campaign I.D for the inspection status on each affected vehicle currently in new vehicle inventory. Nissan requests dealers to perform this repair on new vehicles in inventory prior to being retailed to help ensure customer satisfaction.

**NISSAN NORTH AMERICA, INC.**  
Aftersales DIVISION



## PM700 – SENTRA (B17) COOLING FAN BLADE

### SERVICE PROCEDURE:

1. Drive vehicle into the shop and pull up to an available lift. Prepare vehicle to raise but do not lift at this time.
2. Turn the ignition OFF and remove the key from the inside of the vehicle.
3. Open the hood and support with the prop rod.
4. Locate the engine cooling fan blade date code (Refer to Figures 1 & 2).
  - Inspect the backside (engine side) of the fan blades (Refer to Figure 2).
  - Rotate the fan blades by hand until the fan blade date code is located.
  - Use of a shop light or flashlight may help to locate the fan blade date.
  - The fan blade date code could be marked in blue, yellow or white china marker.

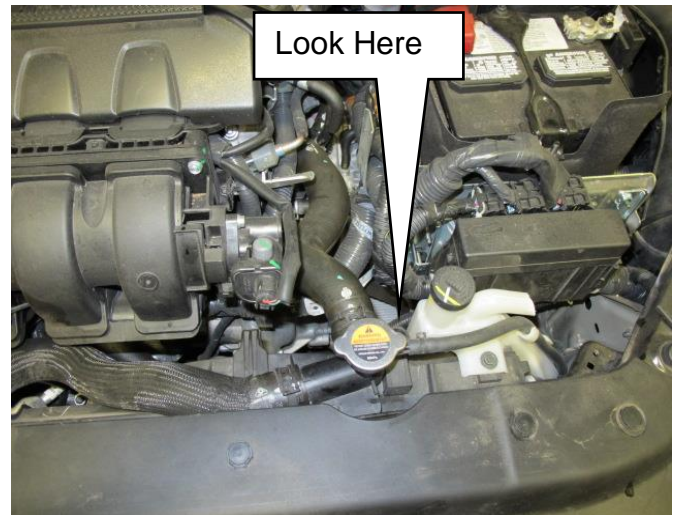


Figure 1

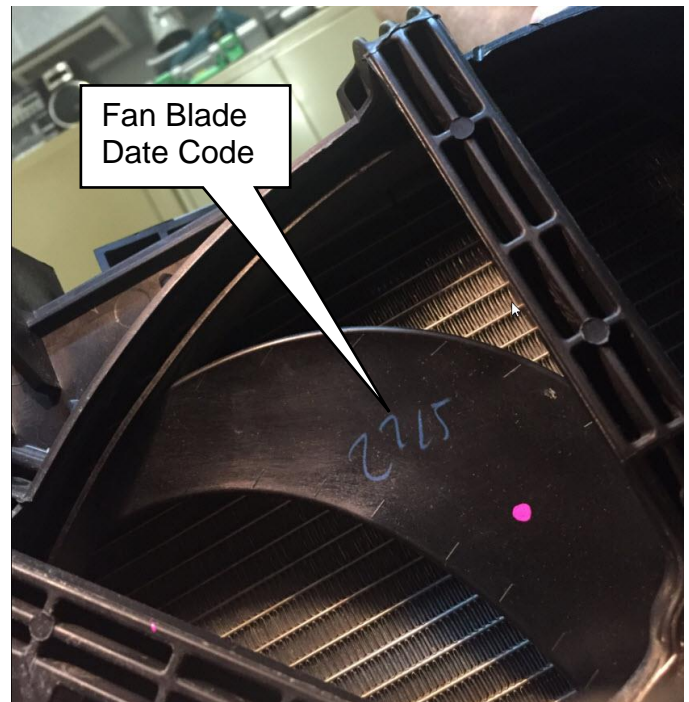


Figure 2

5. Write down the cooling fan blade date code.

- Fan blade date code will be in (Day/Month) format:  
EXAMPLE: 24/5 = May 24<sup>th</sup>

6. Is the fan blade date code "**22/5**" (**May 22<sup>nd</sup>**)? (Refer to Figure 3)

- If **NO**, submit a warranty claim using op code PM7000 (see Claims Information). The repair is complete.
- If **YES**, or if **UNREADABLE** then proceed to Step 7 to replace the engine cooling fan shroud and motor assembly.

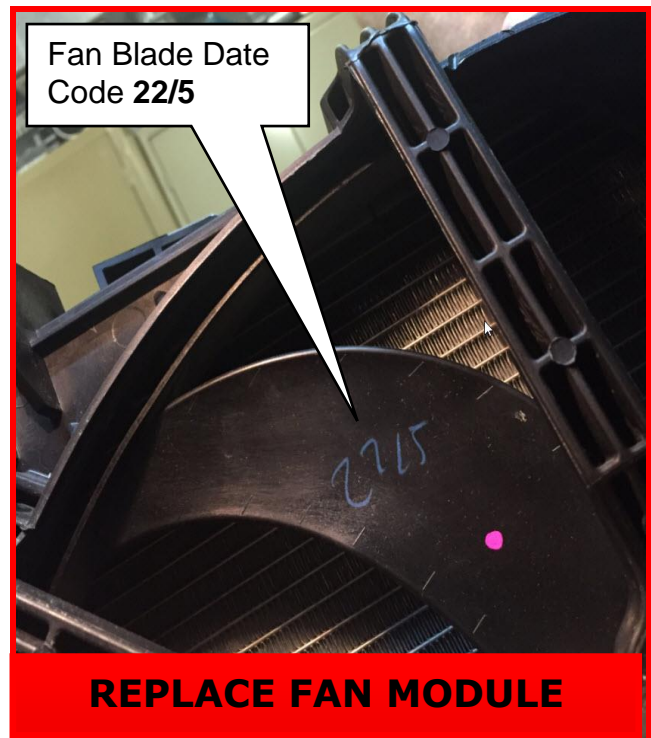


Figure 3

## Engine Cooling Fan Replacement:

7. Make sure vehicle engine is cool and remove radiator cap (Refer to Figure 4).

### WARNING:

Do not remove the radiator cap when the engine is hot. Serious burns could occur from high pressure engine coolant escaping from the radiator. Wrap a thick cloth around the cap. Slowly turn it a quarter turn to allow built-up pressure to escape. Carefully remove the cap by turning it all the way.



Figure 4

8. Disconnect the negative battery cable.
9. Using a suitable lift, raise the vehicle to gain access to the underside of the vehicle.
10. Remove front undercover to gain access to the lower radiator area (Refer to Figure 5).
  - Remove (4) 10 mm bolts.
  - Remove (4) retainer clips.

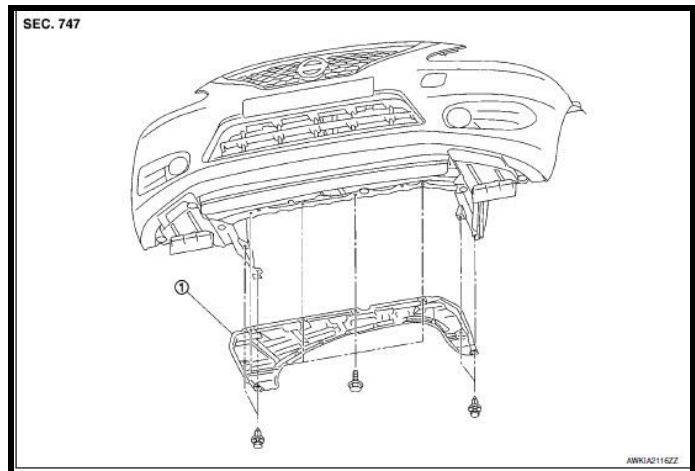


Figure 5

11. Partially drain the coolant from the radiator into a suitable clean drain pan (Refer to Figure 6).

**NOTE:** It may be helpful to attach a short piece of hose to the radiator drain plug to assist with directing the coolant into a drain pan.

### IMPORTANT:

Do not discard the engine coolant as it will be reinstalled upon reassembly.

### CAUTION:

- Perform this step when the engine is cold.
- Do not spill engine coolant on the drive belt.

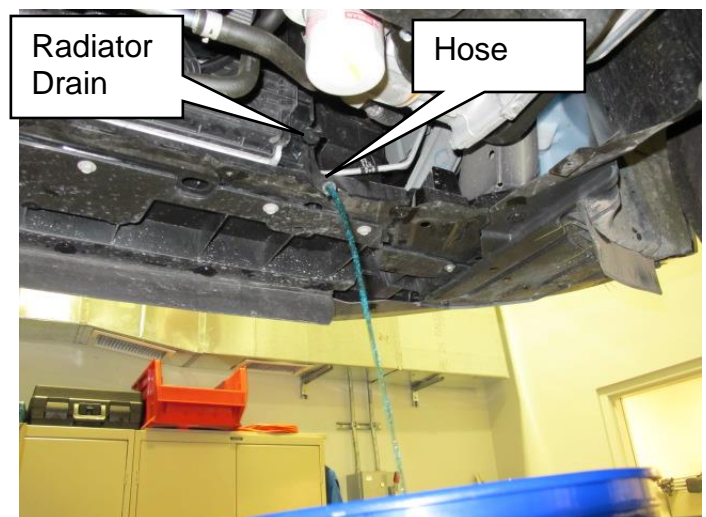


Figure 6



12. Disconnect the lower radiator hose retainer from the fan shroud and motor assembly (Refer to Figure 7).

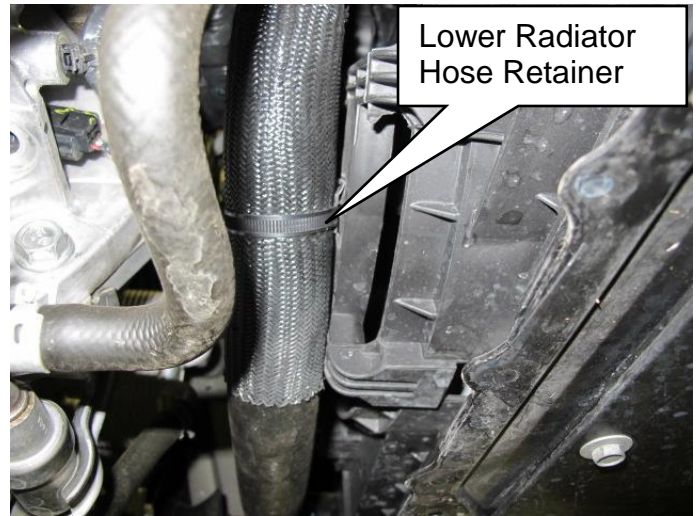


Figure 7

13. Lower the vehicle back to the floor.

14. Remove the radiator core support cover (Refer to Figure 8).

- Remove (12) retainer clips.



Figure 8

15. Remove the left and right grill supports (Refer to Figure 9).

- Remove (1) retaining clip per grill support (total of 2 clips).
- Remove (2) screws per grill support (total of 4 screws).
- Gently unclip the grill supports from the grill.

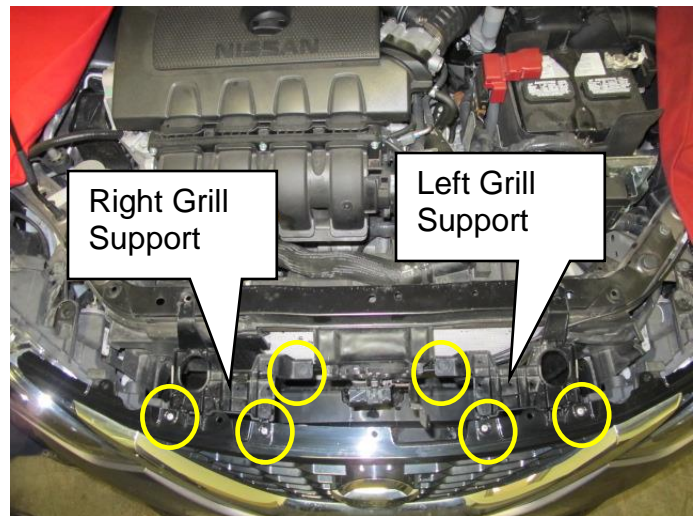


Figure 9

16. Remove the hood latch assembly from the radiator core support (Refer to Figure 10).

- Remove the (4) retaining bolts.
- Leave the hood latch cable attached.
- Bolt torque 22 N.m (2.2 kg-m, **16 ft-lb**)

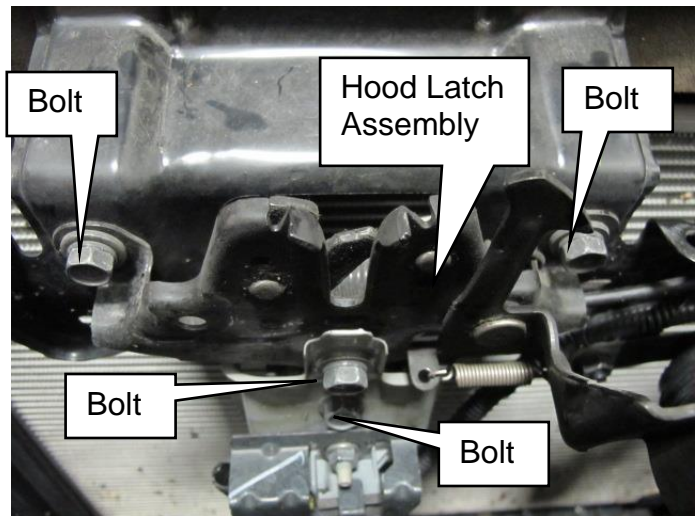


Figure 10

17. Gently position the hood latch w/cable attached to the right side as shown in Figure 11.

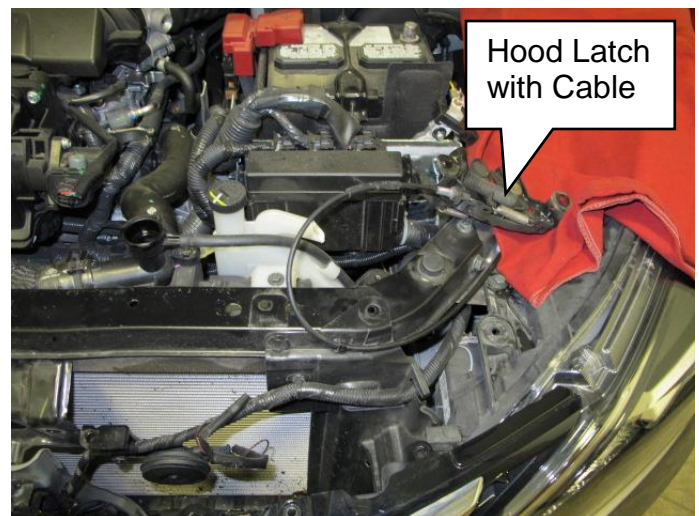


Figure 11

18. Remove the clips from the air deflectors on the front of the radiator core support and release the hood cable retainer. Refer to Figures 12.

Driver Side shown,  
Passenger side is  
similar.

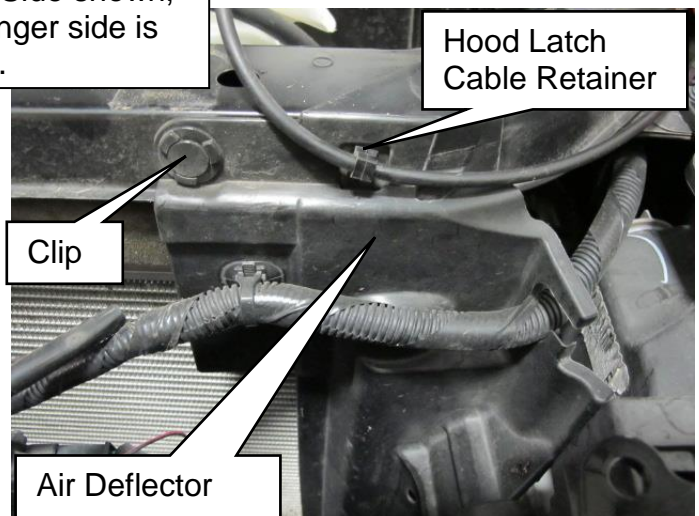


Figure 12



19. Disconnect the (2) horn connectors  
(Refer to Figure 13).

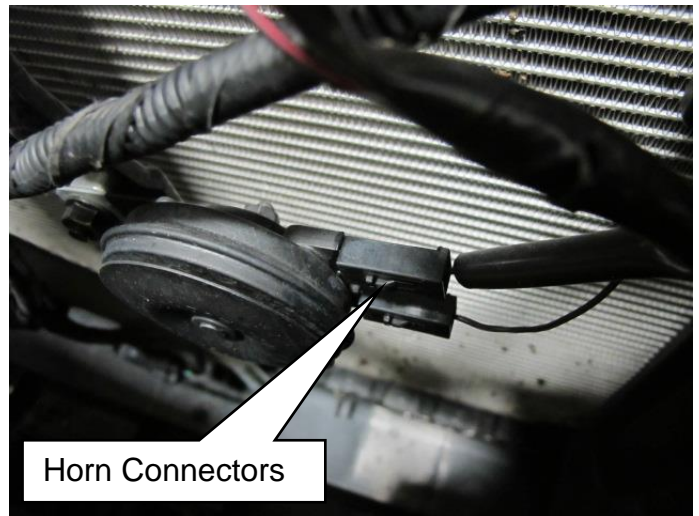


Figure 13

20. Unclip the crash zone sensor harness retainer from the front of the core support (Refer to Figure 14).

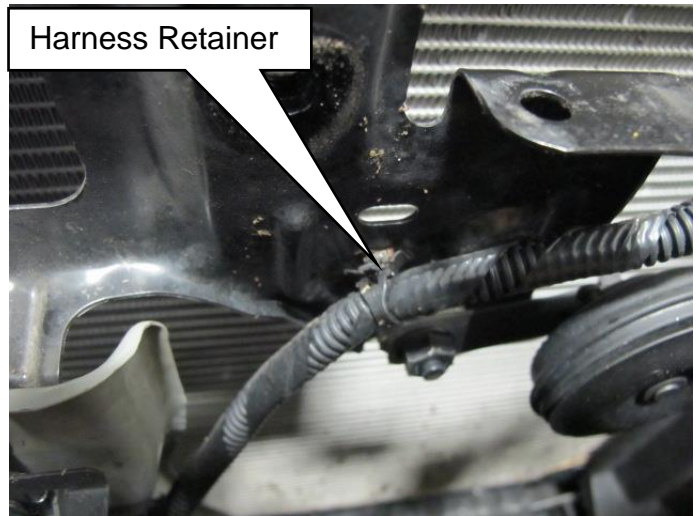


Figure 14

21. Disconnect the upper radiator hose from the radiator (Refer to Figure 15).

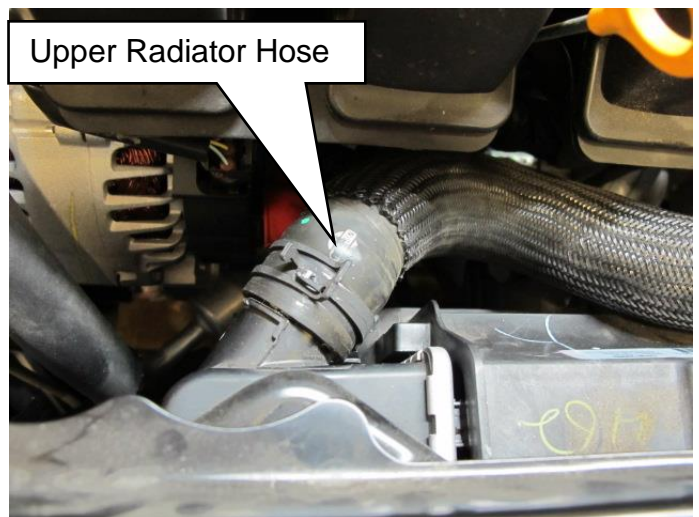


Figure 15

22. Disconnect the reservoir tank hose from the filler neck and the (2) filler neck 10 mm retaining bolts (Refer to Figure 16).

- Bolt torque 8.0 N.m (0.82 kg-m, **71 in-lb**)

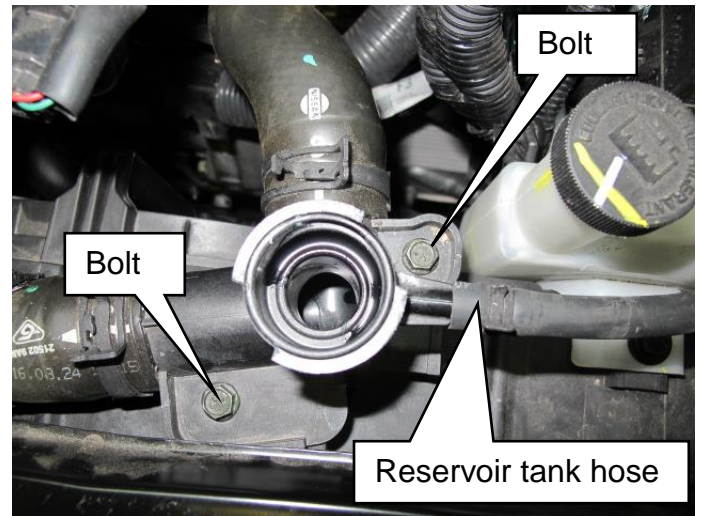


Figure 16

23. Position the upper radiator hose/filler neck assembly out-of-the way as shown in Figure 17.

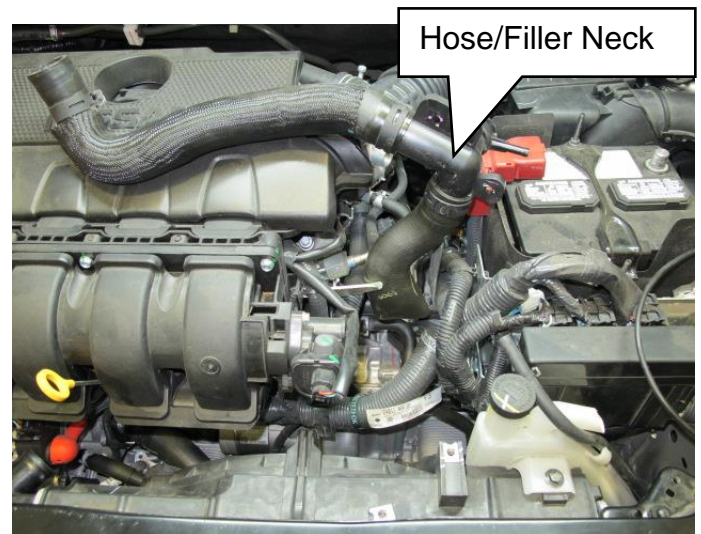


Figure 17

24. Remove reservoir tank (Refer to Figure 18).

- Remove (1) 10 mm retaining bolt.
- Pull straight up to disengage lower tab from cooling fan module.
- Bolt torque 8.0 N.m (0.82 kg-m, **71 in-lb**)

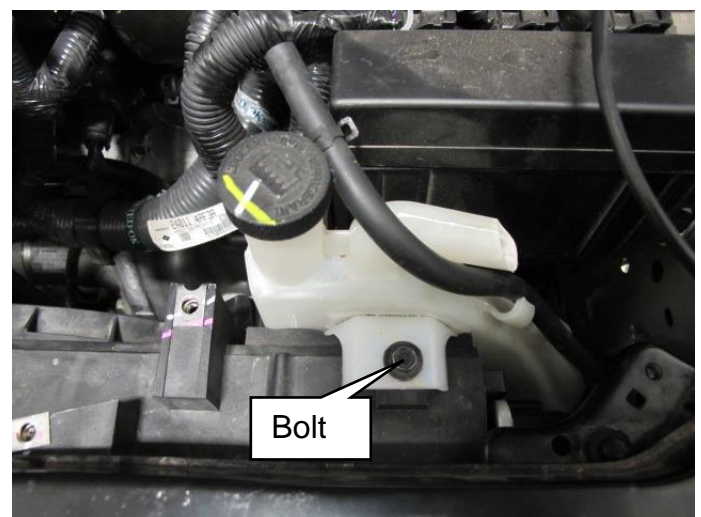


Figure 18



25. Remove the radiator core support (Refer to Figure 19).

- Remove (4) 12 mm retaining bolts.
- Carefully lift up to remove.
- Bolt Torque 24.5 N.m (2.5 kg-m, **18 ft-lb**)

**NOTE:** Use care not to damage the air deflectors during removal.

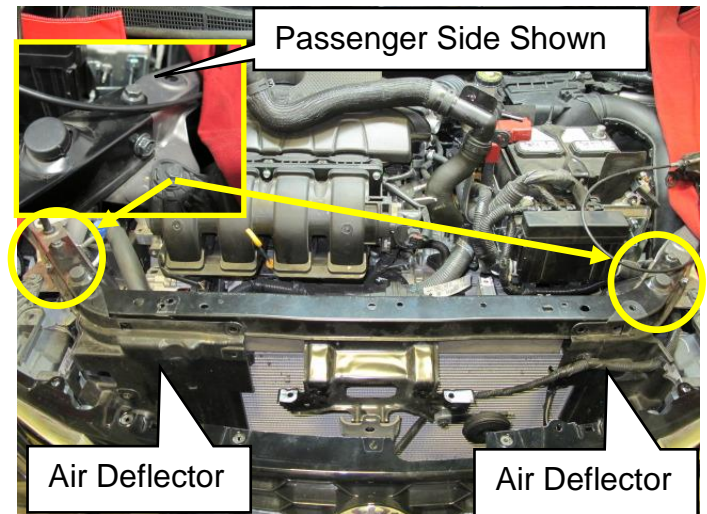


Figure 19

26. Disconnect the cooling fan motor connector and unclip the harness retainer from the fan shroud and motor assembly (Refer to Figure 20).

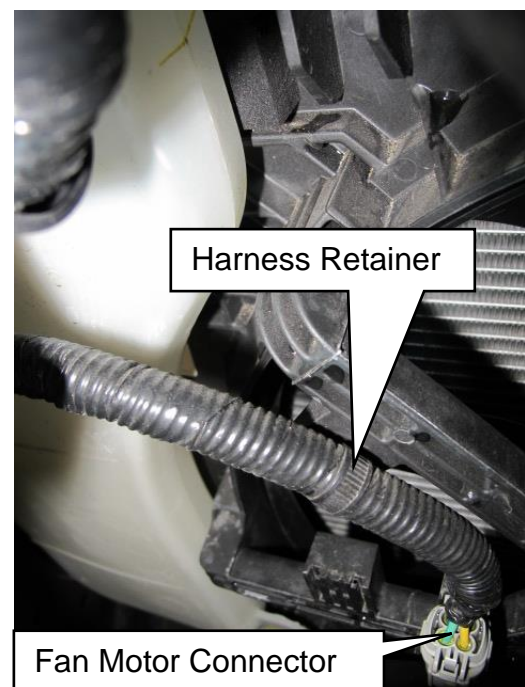


Figure 20

27. Remove the fan shroud and motor assembly (Refer to Figure 21).

- Push in (4) retaining latches (2 on each side) to release the fan shroud and motor assembly from the radiator.
- Gently pull the fan shroud and motor assembly straight up to remove it from the vehicle.

**CAUTION: Excessive force on the retaining latches could cause them to be damaged.**

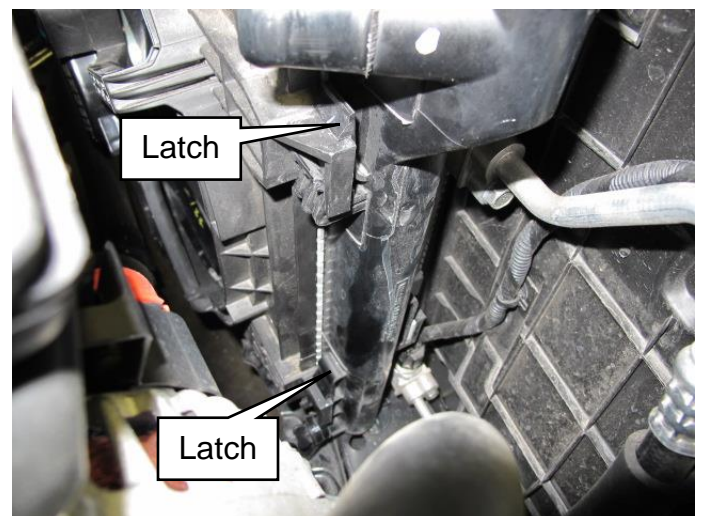


Figure 21

28. Install the NEW fan shroud and motor assembly.

- Verify all (4) locking tabs are correctly seated and latched in the radiator assembly.

29. Reassemble the vehicle in the reverse order.

**Note:** Confirm all the cooling system hoses are properly installed and the radiator drain is closed.

30. Reinstall the negative battery cable.

31. Set the vehicle heater controls to full HOT and heater ON positions. Turn the vehicle ignition ON **with the engine OFF** as necessary to activate the heater mode.

32. Fill the cooling system with coolant previously drained using Tool (A), following the manufacturing instructions included with the tool (Figure 22).

Tool number (A): KV991J0070 (J-45695-A)

Engine Coolant: 999MP-L25500P

**CAUTION:**

- Use Recommended Coolant or Equivalent
- The compressed air supply must be equipped with an air dryer.

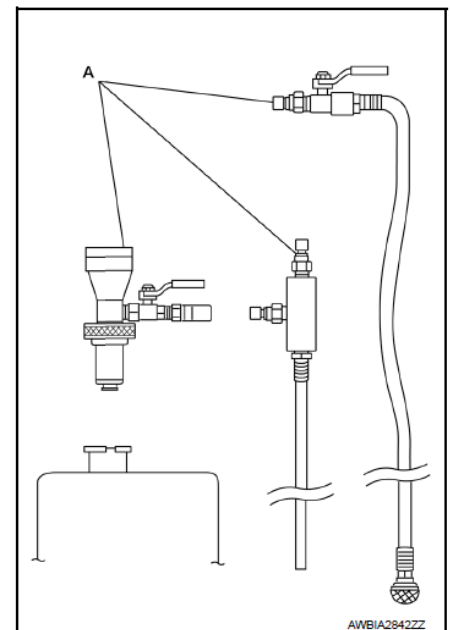


Figure 22

33. Remove the Tool (A) and top off the cooling system with engine coolant as necessary.

34. Install the radiator cap and reservoir tank cap.

35. Run the engine until it reaches normal operating temperature.

**CAUTION:**

**Do not allow the engine to exceed normal operating temperature or engine damage may occur.**

36. Stop the engine and allow it to cool.

37. Check the engine coolant level and adjust if necessary.

**Note:** Ensure coolant reservoir is filled to correct level.

38. Procedure complete; remove vehicle from lift, submit a warranty claim and release the vehicle.

**CLAIMS INFORMATION**

**Submit claim using the following claims coding:**

**Work Order Line Type: "CM" Campaign**

**Campaign: PM700**

<b>Claim Type:</b>	CM			
<b>PNC:</b>	PM700			
<b>Symptom:</b>	ZZ			
<b>Diagnosis:</b>	99			
<b>Description:</b>	<b>Op Codes</b>	<b>Flat Rate Time</b>	<b>Parts Required on claim</b>	<b>Expense Code Required</b>
Inspect Engine Cooling Fan Blade Date Code (INSPECT ONLY NO REPAIR)	PM7000	0.2 Hr	No	No
Inspect Engine Cooling Fan Blade Date Code and Replace Fan Shroud and Motor Assembly	PM7001	1.4 Hr	Yes	No



**PARTS INFORMATION:**

Description	Qty	Part #
Motor Assy-Fan & Shroud	1	21481-9AM0A

Expense Code	Description	Qty (MAX)
201/Coolant (Fluids)	Blue Long Life Antifreeze/Coolant PN999MP-L25500P:	\$9.45 (MAX)

