



**HYUNDAI**

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NEW POSSIBILITIES.

## Technical Service Bulletin

GROUP

**CAMPAIGN**

NUMBER

**17-01-013**

DATE

**FEBRUARY 2017**

MODEL(S)

**Tucson (JM)**

**SUBJECT:**

### FRONT AND REAR UNDER BODY CORROSION PREVENTION TREATMENT SERVICE CAMPAIGN TT2

*This bulletin supersedes TSB 14-01-018 to specify a new cavity wax applicator and to specify cavity wax application directions and duration.*

#### **\* IMPORTANT**

#### **\*\*\* RETAIL VEHICLES ONLY \*\*\***

Dealers must perform this Service Campaign 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:** In some areas, a vehicle's underbody may exhibit corrosion due to road salt usage. As a precautionary measure, cavity wax coating is applied to the internal surfaces of underbody components, and an undercoating spray is applied to the bottom exterior surfaces of specified underbody components. This bulletin describes the procedure to perform this preventative service on certain Tucson (JM) vehicles.



#### **APPLICABLE VEHICLES:**

**VERIFY THAT THE VEHICLE IS IDENTIFIED AS AFFECTED BY THE SERVICE CAMPAIGN VIA WEBDCS.**

1. **Model:** 2005 – 2009 MY Tucson (JM)
2. **Production Date Range:** From AUG. 10, 2004 to OCT. 10, 2009
3. **Areas:** Connecticut, Delaware, Illinois, Indiana, Iowa, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, West Virginia, Wisconsin, and the District of Columbia

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

**\* IMPORTANT**




There are circumstances under which vehicles not currently registered or have never been registered in a “salt belt” state may be eligible for this Campaign. These circumstances include:

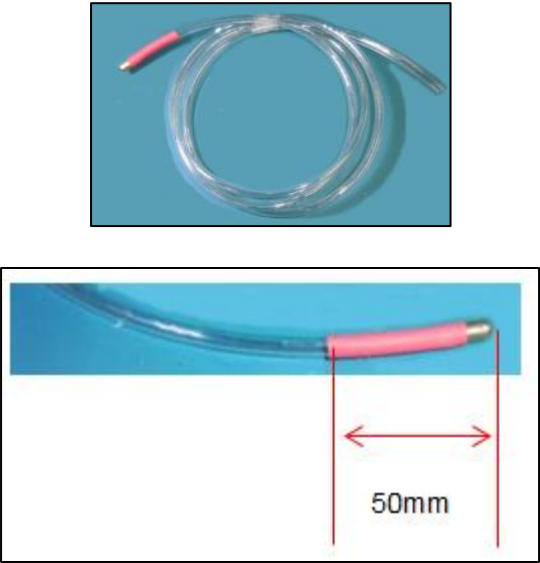


Vehicles that have relocated into a “salt belt” area and/or vehicles registered in a “non-salt belt” state and driven in a “salt belt” area. If it is determined that an owner of a vehicle within the affected VIN production date range relocates or has operated their vehicle in a “salt belt” area, the dealer should perform the campaign procedure. The dealer should perform this procedure at no cost to the customer, and the Hyundai Warranty PA Center must be contacted prior to repair and submission of the Warranty Claim.

**\* NOTE**




If the owner of a vehicle within the affected VIN production date range requests an undercarriage inspection of their vehicle, the inspection should be performed at no charge to the customer.



**Parts Information:**

Part Name	Image / Part Number	Remark
Cavity Wax		Use about half a can per vehicle.
	00232-19034	
Undercoat Spray		Use about 2 cans per vehicle.
	00232-19035	
Wax Spray Gun		Regulate air pressure to 70 psi.  <b><i>If wax output is slow</i></b> , prime the gun by blocking the nozzle with a rag, and spraying the gun until the flow of wax increases.
	00232-19036	

<p>“Inside” Nozzle</p>		<p>This is a newly developed nozzle that has an improved wax application spray pattern.</p>  <p>The pink tubing is to signal the user to stop spraying when pulling the nozzle out.</p>
<p>“Outside” Nozzle</p>		<p><u>This nozzle must be used for this service procedure.</u></p> <p>This nozzle is supplied with the wax gun.</p>

**Tools & Equipment Required:**

Tool Name	Image	Remark
<p>Air Nozzle</p>		
<p>Goggles</p>		<p><b>NOTICE</b></p> <p>Wear protective goggles and respiratory protection when performing the procedures in this bulletin.</p> <p>This procedure should be performed in a well-ventilated area.</p>
<p>Mask</p>		

16 oz Hammer		
Wire Brush		
Plastic bags		Trash bags large enough to cover wheel/tire assemblies.

**Warranty Information:**

Model	Op. Code	Operation	Op. Time	Causal Part	Nature	Cause
JM	40C010R0	APPLYING CAVITY WAX & BLACK UNDER COAT TO THE UNDERBODY	0.7 M/H	62605-0Z510	A12	ZZ2

**NOTE 1: Submit Claim on Campaign Claim Entry Screen.**

**NOTE 2: Each labor operation will reimburse applicable undercoating and cavity wax in sublet.**

**NOTE 3: If a part is found in need of replacement while performing this TSB and the affected part is still under warranty, please submit a separate claim using the same Repair Order.**

**If the affected part is out of warranty, submit a Prior Approval Request for goodwill consideration prior to performing the work.**

**⚠ CAUTION**

**Wear protective goggles and respiratory protection when performing the procedures in this bulletin. The vehicle should be in a well-ventilated area.**

**Service Procedure Notes:**

1. When applying the cavity wax, the floor might become contaminated. It is recommended to put a plastic vinyl sheet on the floor before applying wax.



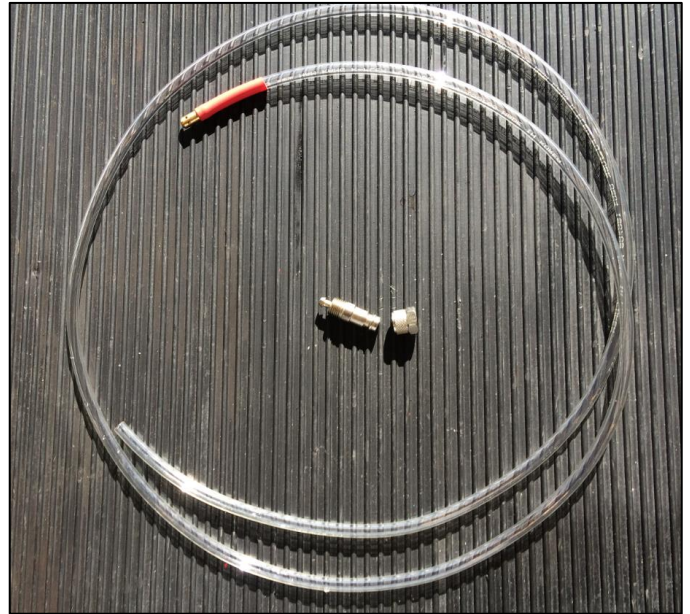
**Wax gun preparation:**

- 2a. Remove the compression fitting from the nozzle assembly that originally comes with the wax gun by unscrewing the nut, then removing the fitting from the tube.





- 2b. Attach the compression fitting to the tubing on the new nozzle assembly.



2c. Fill wax gun reservoir with cavity wax.

Prime the wax gun by spraying into a trash bag (or similar) until a light mist is visibly coming out of the nozzle.

**NOTICE**

**Air supply pressure must be set to 70 psi.**

**NOTICE**

**If volume of wax coming out of the nozzle slows significantly (so that a light mist is no longer visible), prime the gun again.**

**It may speed the priming process to block the nozzle with a rag while spraying the gun until the flow of wax increases.**

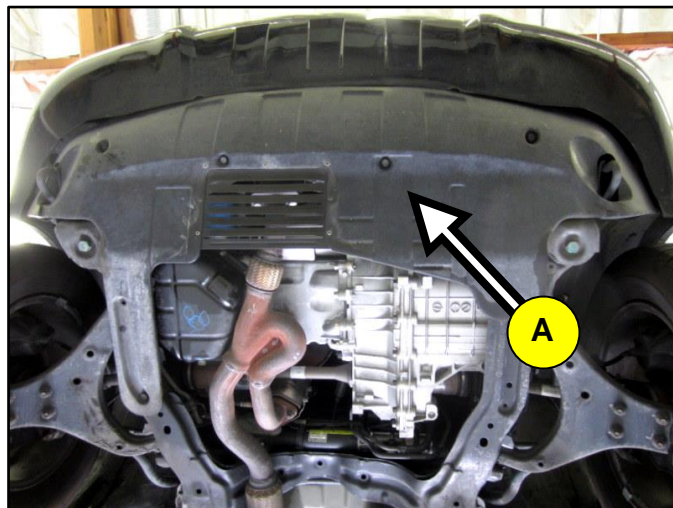


**Service Procedure #1: Hammering and Air Blowing to Remove Debris**

**⚠ CAUTION**

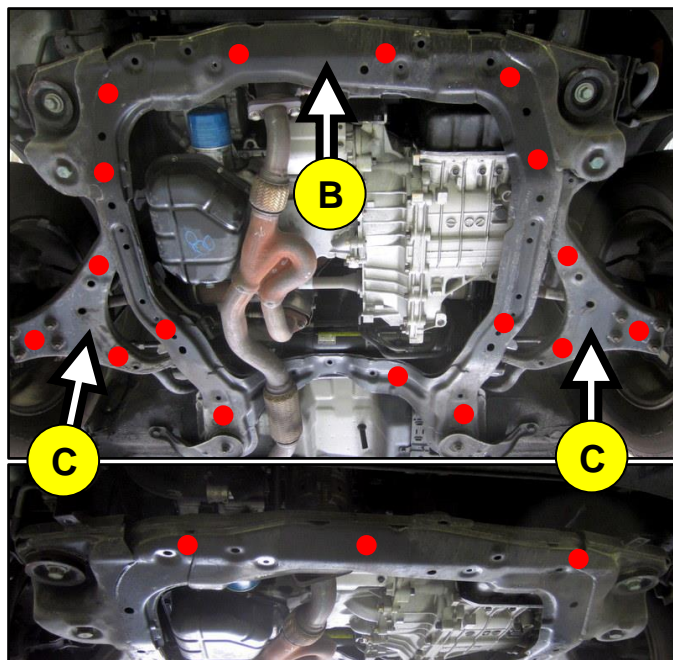
Wear protective goggles and respiratory protection when performing the procedures in this bulletin. The vehicle should be in a well-ventilated area.

1. Lift the vehicle on a hoist. Remove the engine under cover (A) referring to the workshop manual.



2. Using a 16 oz. hammer, lightly tap on and around the areas marked with a red dot, to remove loose debris and the PVC coating. Refer to the photos on the right.

Front cross member (B) and front lower arms (C).

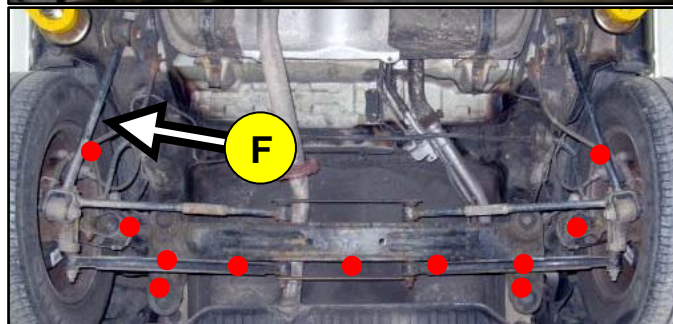
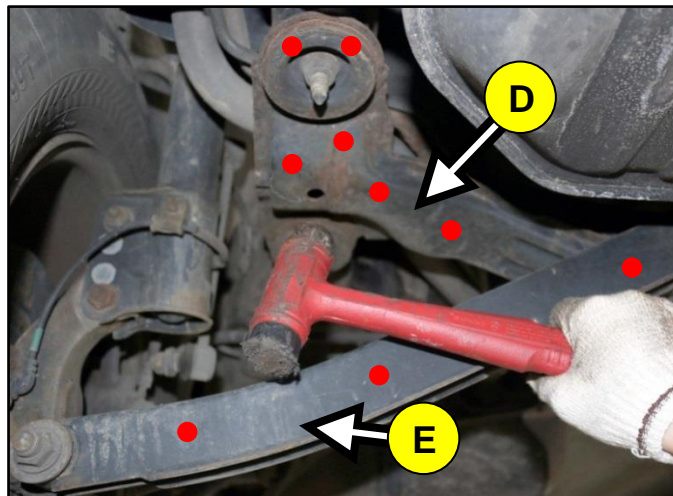




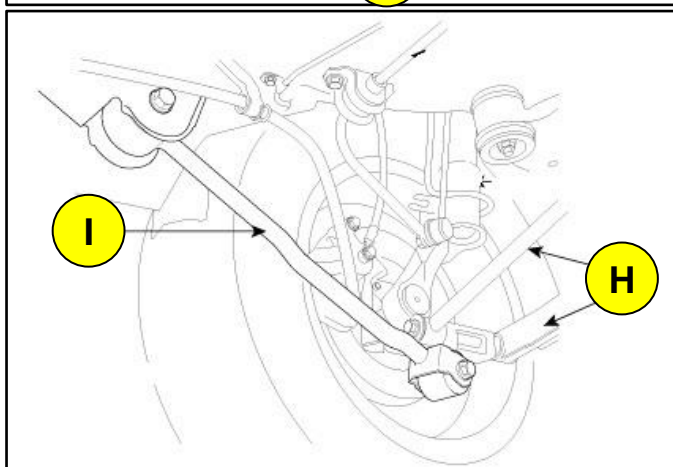
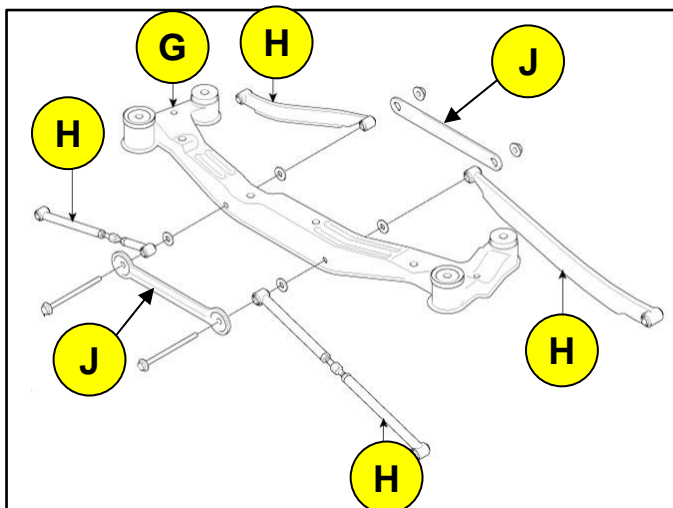
3. Rear cross member (D), left and right suspension arms (E), and left and right trailing arms (F).

**NOTICE**

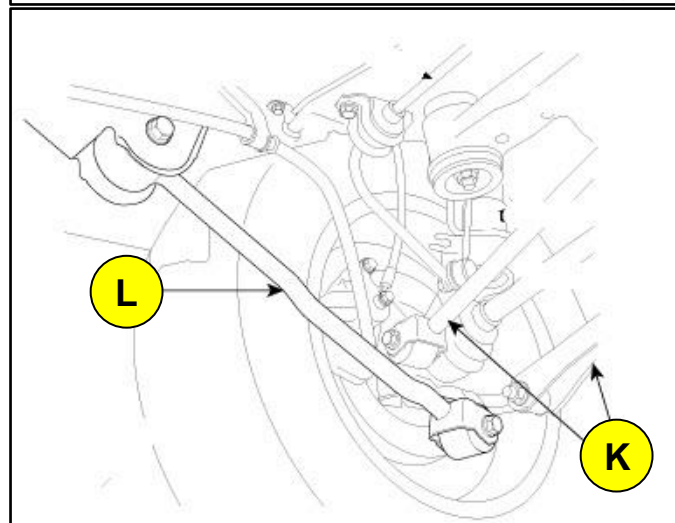
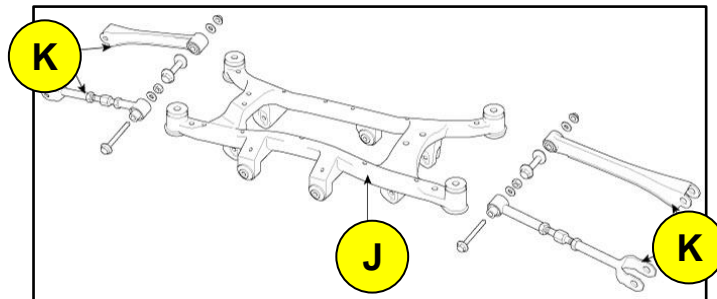
Rear components will differ between FWD and AWD. Refer to the illustrations on the following pages.



- 3a. FWD rear cross member (G), suspension arms (H), trailing arms (I), and brackets (J).



- 3b. **AWD** rear cross member (J), suspension arms (K), and rear trailing arms (L).



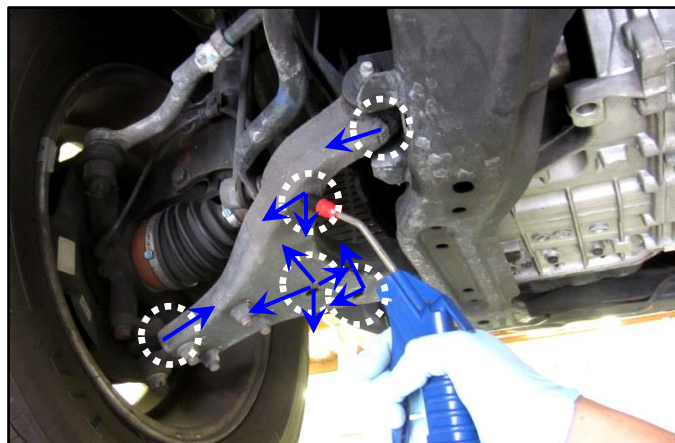
4. Use a wire brush or clean rag to remove debris from the front and rear cross members, front lower arms, rear suspension arms, rear trailing arms, brackets, and fuel tank.



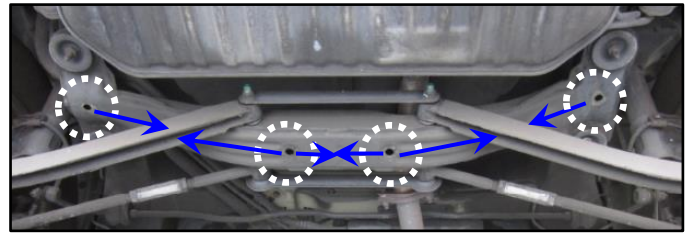
5. Remove the remaining debris in the components by inserting an air gun into the marked locations. Blow the air in multiple directions to remove as much debris as possible. Refer to the photos on the right.

Repeat this step two to three times to remove the remaining debris from inside the components.

Left and right front lower arms.



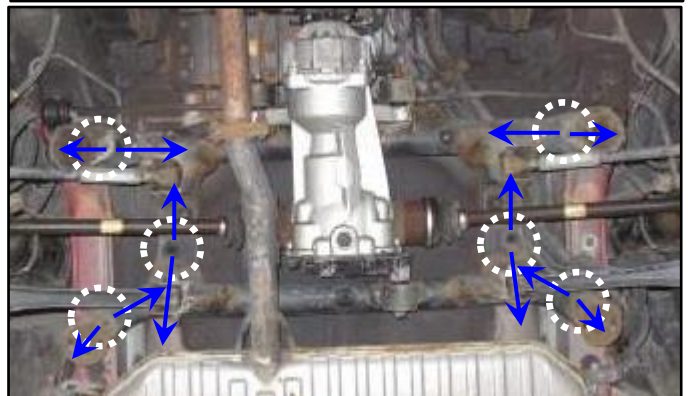
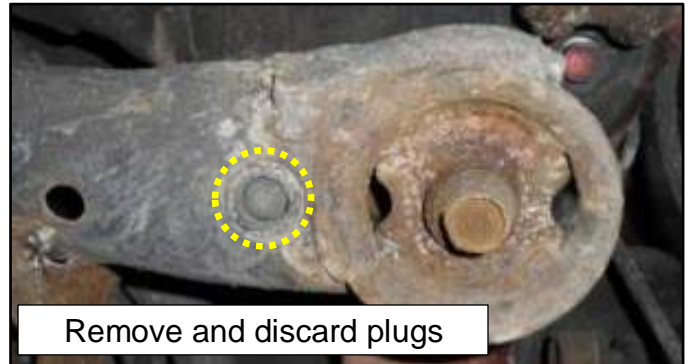
5a. **FWD** rear cross member



5b. **AWD** rear cross member

Remove and discard the plugs from the cross member. There is no need to replace the plugs.

Blow air into the marked locations.

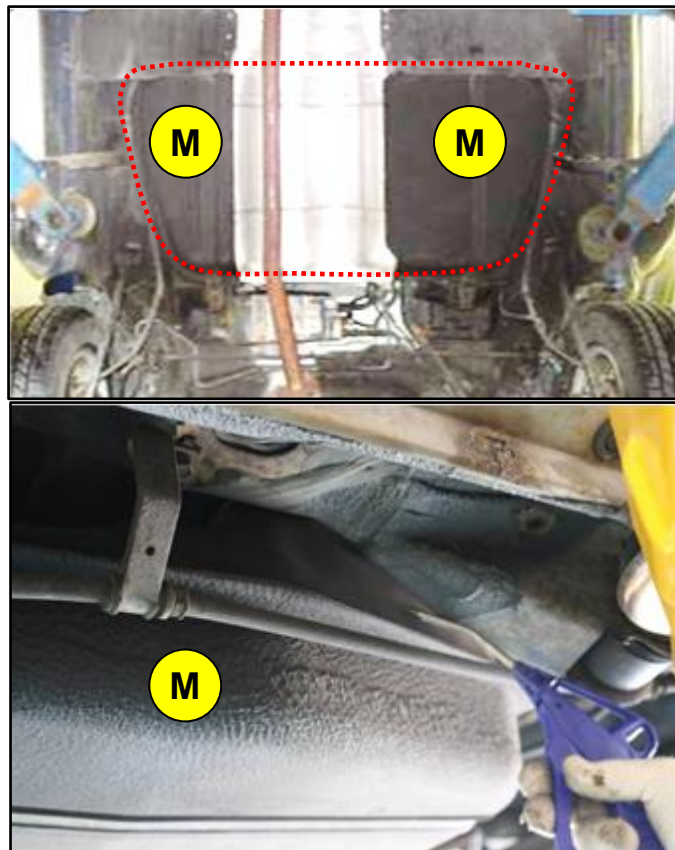


6. Exterior of left and right rear suspension left and right trailing arms, and brackets.





7. Top, bottom, and sides of the fuel tank (M).



**Service Procedure #2: Preparation for Cavity Wax and Undercoating Spray**

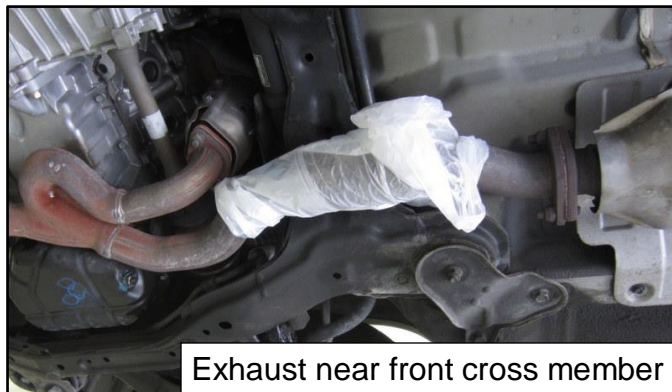
1. Wrap plastic bags around all tire/wheel/brake assemblies and exhaust tubing to protect it from overspray.

**NOTICE**

Exhaust tubing must be sufficiently cooled before it is wrapped.







Exhaust near front cross member



Exhaust near rear cross member

**Service Procedure #3: Applying the Cavity Wax**

**⚠ CAUTION**

**Wear protective goggles and respiratory protection when performing the procedures in this bulletin. The vehicle should be in a well-ventilated area.**

1. Apply the cavity wax at each of the locations noted in the following steps.

Generally for coating interior surfaces, insert the “inside” nozzle as deeply as possible at each point of entry. Spray the cavity wax while simultaneously rotating the nozzle, and slowly pulling the nozzle out. Continue this rotating/pulling motion until the pink tubing is seen coming out of the opening. The pink tubing indicates there is about 50mm of tubing left until the end of the nozzle. Stop spraying when the pink tubing is seen.

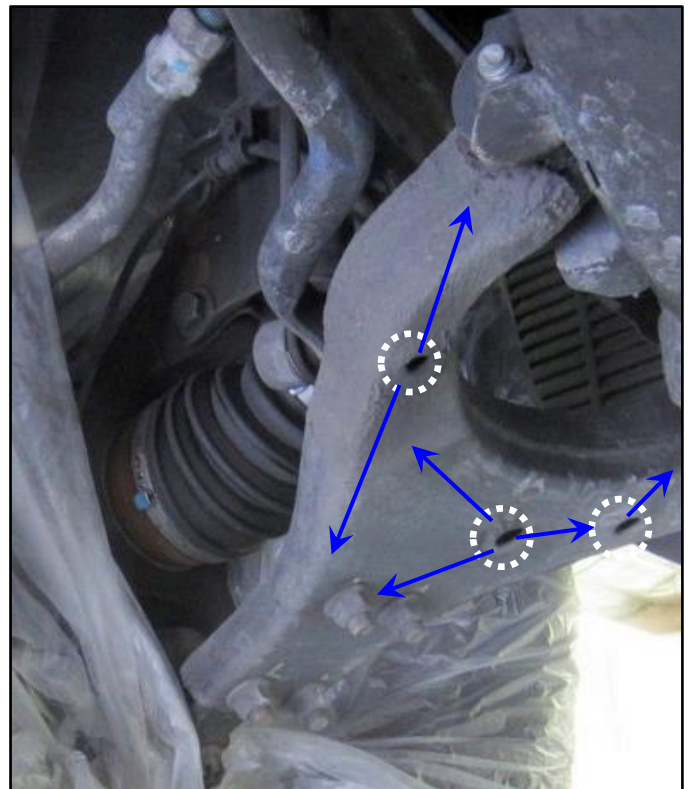
**Insert the nozzle through the marked location in multiple directions and for the prescribed duration indicated in each step. The duration is for the total time for each marked location.**

Generally for coating exterior surfaces, use the “outside” nozzle, provided with the wax gun.

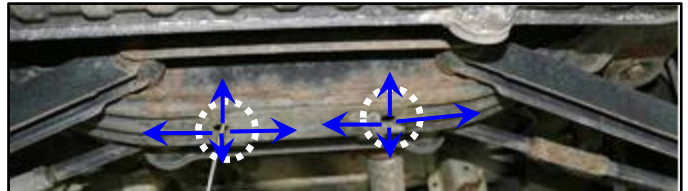
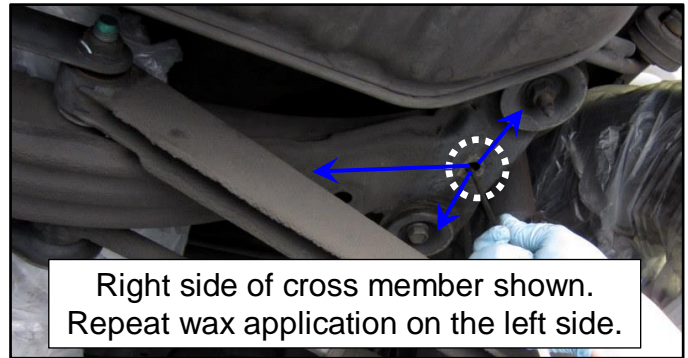
2. Refer to the photos on the right for the marked locations.

Left and right front lower arms – Interior surfaces (using “inside” nozzle)

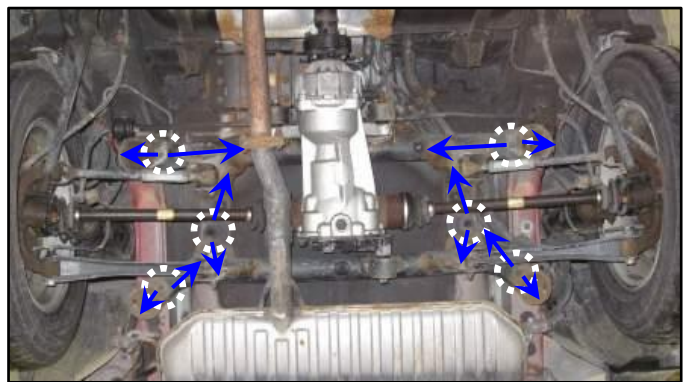
- Three (3) locations each arm
- 7 seconds each location



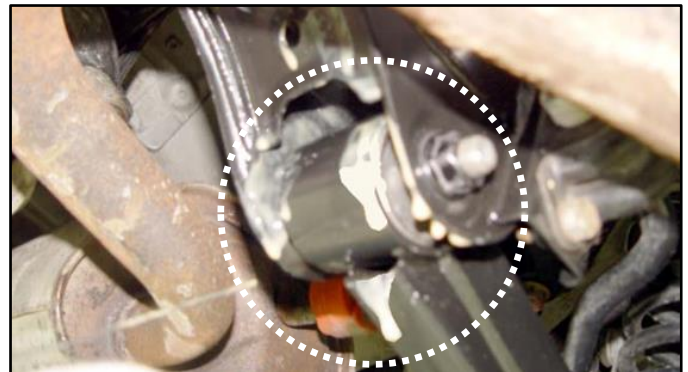
3. **FWD** rear cross member – Interior surfaces(using “inside” nozzle)
- Four (4) locations
  - 15 seconds each location



4. **AWD** rear cross member – Interior surfaces(using “inside” nozzle)
- Six (6) locations
  - 15 seconds each location



5. Wipe off the excess wax that may have flowed out.



**Service Procedure #4: Applying the Undercoating Spray**

**⚠ CAUTION**

**Wear protective goggles and respiratory protection when performing the procedures in this bulletin. The vehicle should be in a well-ventilated area.**

1. Spray the black undercoating on all exterior surfaces of the front and rear cross members, front lower arms, rear suspension components and the fuel tank. Refer to the following procedures and images.

2. Front cross member.



3. Left and right front lower arms.





4. Rear cross member, left and right rear suspension, left and right trailing arms, and brackets.



5. Fuel tank.

**NOTICE**

Spray undercoating on all exposed areas of the fuel tank, including the top half.

Avoid spraying the exhaust tube (N).



6. Remove all the plastic bags to complete the procedure.