



HYUNDAI

NEW THINKING.
NEW POSSIBILITIES.

Technical Service Bulletin

GROUP

CAMPAIGN

NUMBER

16-01-045

DATE

NOVEMBER 2016

MODEL(S)

TUCSON (LM)

SUBJECT:

TUCSON (LM) UNDERBODY CORROSION PREVENTATIVE SERVICE
(SERVICE CAMPAIGN 945)

★ 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 (LM) vehicles.



Applicable Vehicles:

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

- 1. Model:** 2010 - 2012MY Tucson (LM), All-Wheel Drive only
- 2. Production Date Range:** From October 20, 2009 – June 12, 2012
- 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:

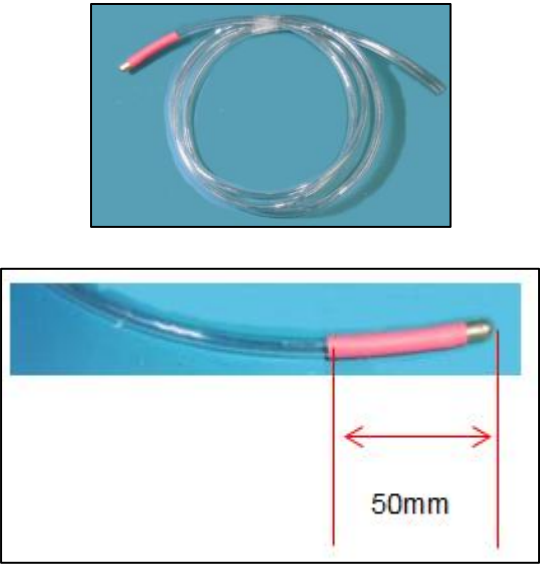


Vehicles that have relocated into a “salt belt” area and/or vehicles registered in a “non-salt belt” state and driven in a “salt belt” area. If it is determined that an owner of a vehicle within the affected VIN production date range relocates or has operated their vehicle in a “salt belt” area, the 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 1 can per vehicle. |
| | 00232-19035 | |
| Wax Spray Gun |  | Regulate air pressure to 70 psi. <i>If wax output is slow</i> , 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>09624-2H101-QQH</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><u>This nozzle must be used for this service procedure.</u></p> |
| <p>“Outside” Nozzle</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>NOTICE</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 |
|-------|----------|---|----------|
| LM | 60C007R0 | APPLYING CAVITY WAX & BLACK UNDER COAT TO THE UNDERBODY | 0.7 M/H |

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 Service Campaign 945 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.**

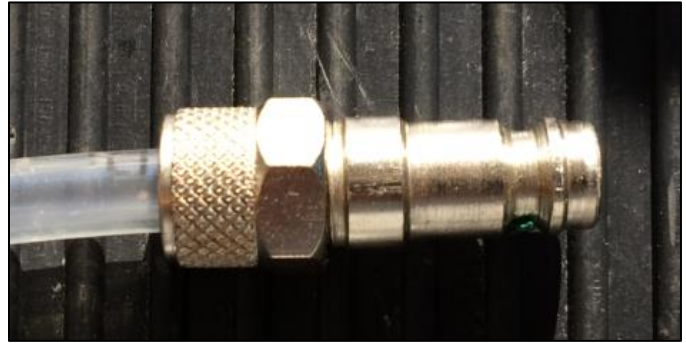
Service Procedure Notes:

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.



2. 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.



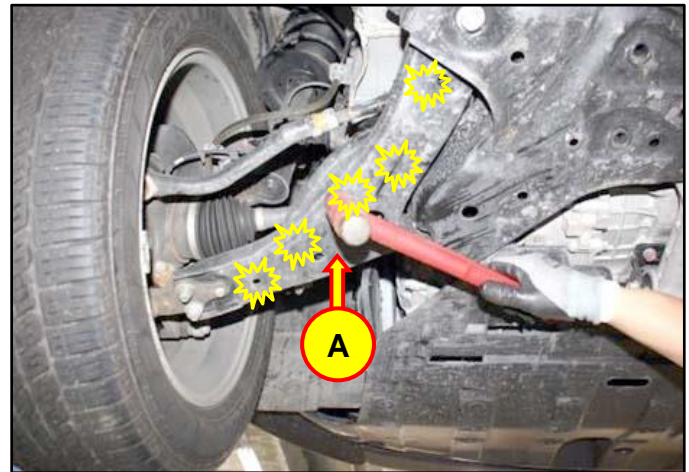
Service Procedure #1: Hammering and Air Blowing to Remove Debris

1. Lift the vehicle on a hoist.

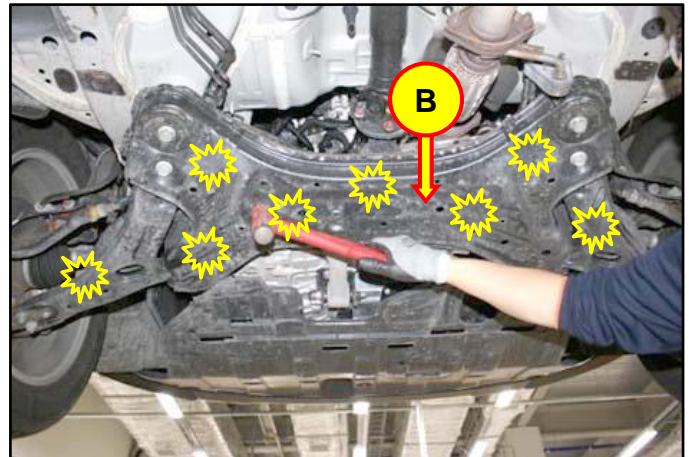


2. Lightly tap the vehicle underbody with a 16 oz. hammer to loosen debris and the PVC coating in the following locations:

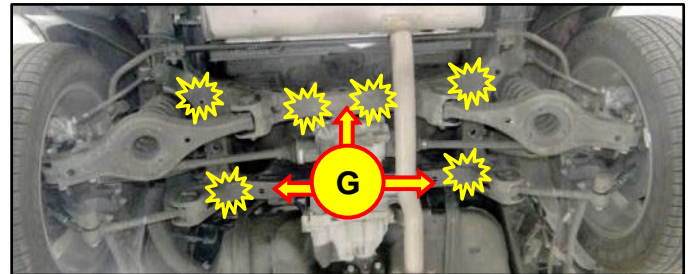
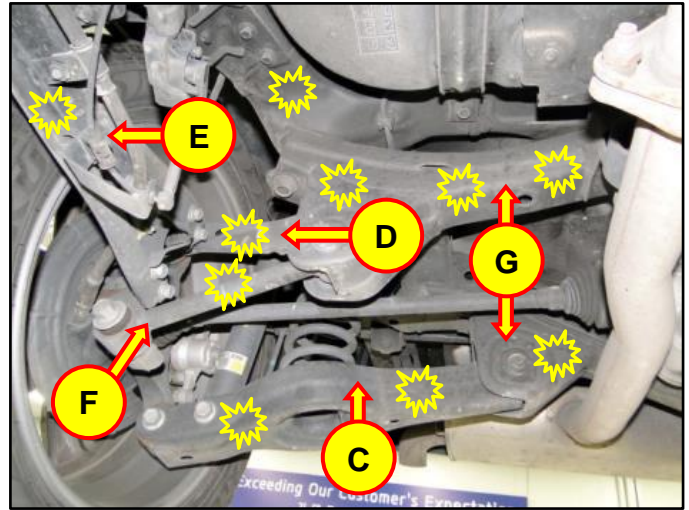
- Left/Right Front Lower Control Arm (A)



- Front Cross Member (B)

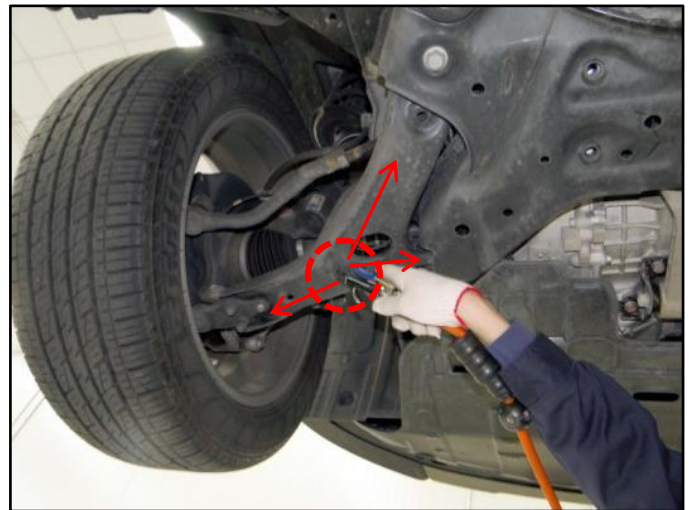


- Left/Right Rear Lower Arm (C)
- Left/Right Rear Upper Arm (D)
- Left/Right Trailing Arm (E)
- Left/Right Assist Arm (F)
- Rear Cross Member (G)

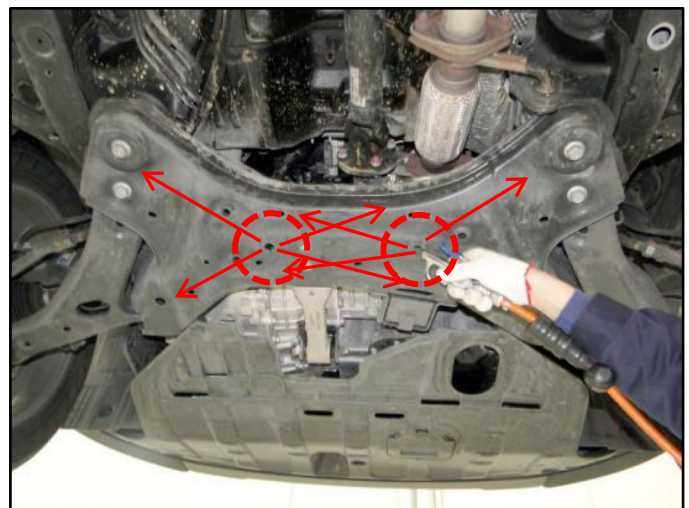


3. Remove the remaining debris by inserting an air nozzle into the locations shown, then blowing air in multiple directions.

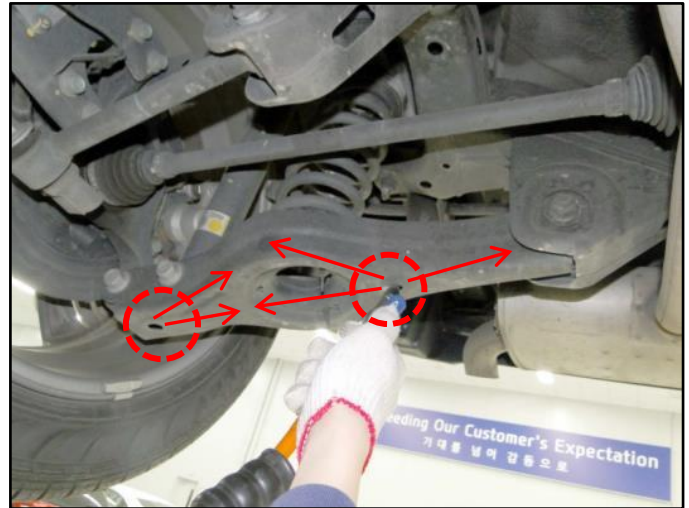
- Left/Right Front Lower Control Arm



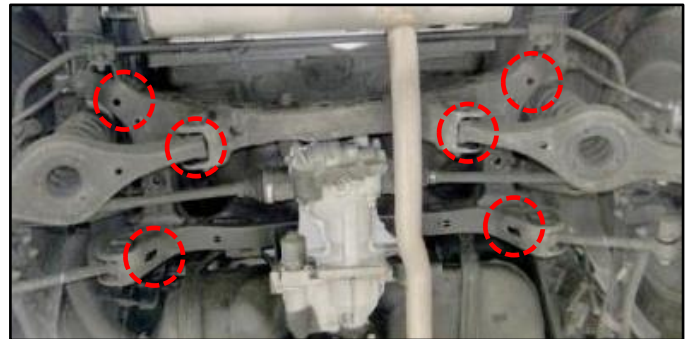
- Front Cross Member



- Left/Right Rear Lower Arm



- Insert the air nozzle into the various openings of the Rear Cross Member to blow out the debris in all directions.

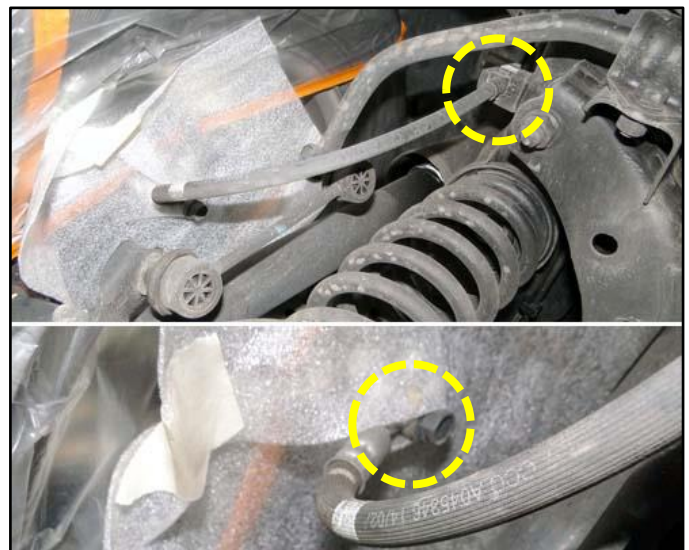


Service Procedure #2: Preparation for Cavity Wax and Undercoating Spray

1. Clean the brake banjo bolt and brake hose bracket surfaces at all 4 calipers using a wire brush.

Then wrap the brake assemblies with plastic bags to protect them from overspray. Use tape to secure the plastic bags in place.

Leave the banjo fitting and brake hose bracket area exposed, as shown.



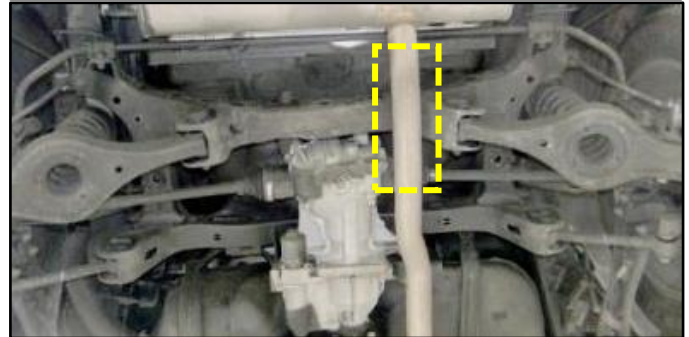
2. Wrap large plastic bags around the wheel/tire/brake assemblies to protect them from overspray. Use tape to secure the plastic bags in place.



3. Wrap the exhaust areas (dashed box) adjacent to the front and rear cross members with plastic bags to protect them from overspray. Use tape to secure the plastic bags in place.

NOTICE

The exhaust must be sufficiently cooled before it is wrapped.



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.

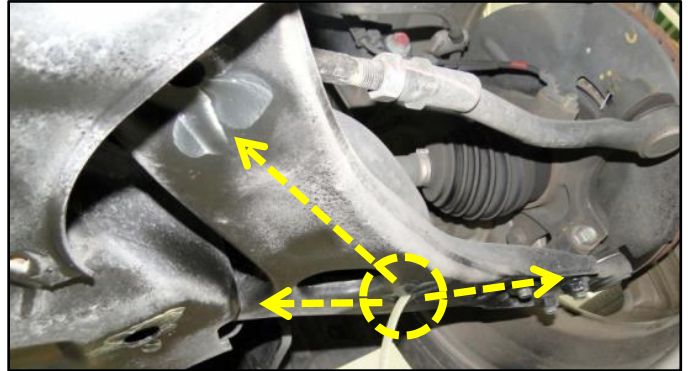
1. Apply the cavity wax at each of the locations noted in the following steps.

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 hole. 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.

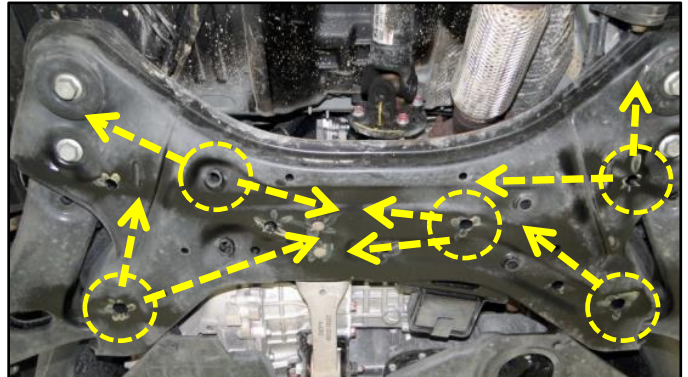
Generally for coating exterior surfaces, use the “outside” nozzle, provided with the wax gun.

1a. Insert the “inside” nozzle into the holes indicated by the dashed circles and coat the interior surfaces. Repeat by inserting the nozzle in multiple directions. Refer to the following images.

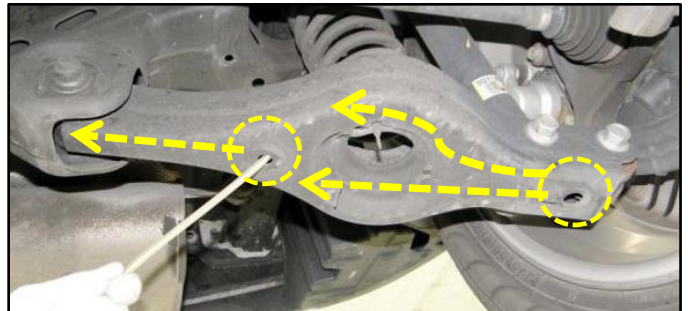
- Left/Right Front Lower Control Arm



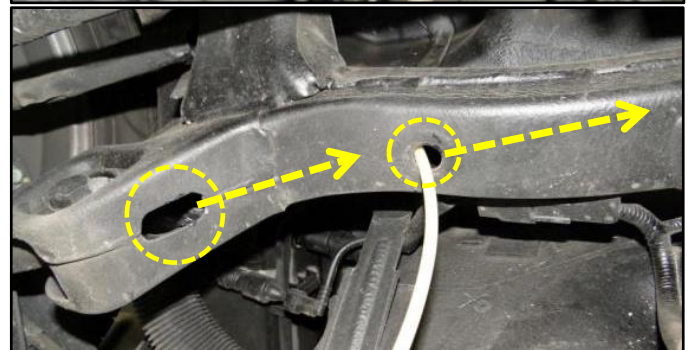
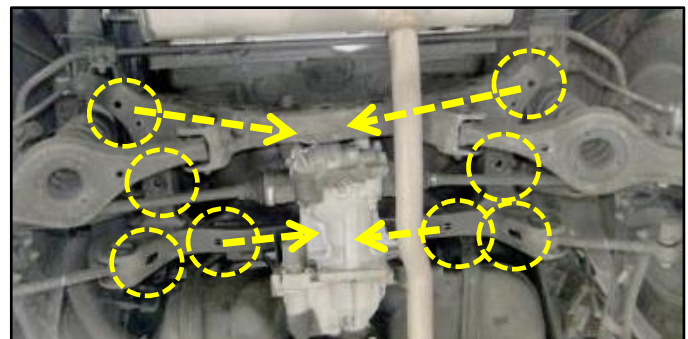
1b. - Front Cross Member



1c. - Left/Right Rear Lower Arm



1d. - Rear Cross Member. Insert the nozzle in different directions into the rear cross member through the various openings to coat the interior with cavity wax.



2. After applying the cavity wax, use an air gun to remove the remaining cavity wax in the nozzle.



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 and rear lower arms, front and rear brake hose mounting points, fuel lines, and the brake tubes. Refer to the following images.
 - 1a. - Brake Banjo Bolt and Brake Hose Brackets at all four calipers.



- 1b. - Brake Tubes and Fuel Lines



- 1c. - Left/Right Front Lower Arm



- 1d. - Front Cross Member



- 1e. - Left/Right Rear Lower Arm
- Left/Right Rear Upper Arm
- Left/Right Trailing Arm
- Left/Right Assist Arm
- Rear Cross Member



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