



GROUP  
**Service Campaign**

MODEL  
**Multiple Models  
(see below)**

NUMBER  
**SC122**

DATE  
**July 2015**

## VOLUNTARY SERVICE CAMPAIGN

**SUBJECT:** APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

To improve customer satisfaction, Kia is launching this bulletin to apply additional anti-corrosion protection to various vehicle underbody components of some 2010~2013MY Soul (AM), 2004~2009MY Spectra (LD), 2006~2010MY Optima (MG), 2006~2011MY Rio (JB) and 2007~2010MY Rondo (UN) vehicles. The affected vehicles were originally retailed or are currently registered in states where road salt is heavily used. The states are: CT, DC, DE, IA, IL, IN, MA, MD, ME, MI, MN, MO, NH, NJ, NY, OH, PA, RI, VT, WI, WV KS, KY, NE, ND, SD, UT, and AK. Kia believes that such additional protection can be helpful, especially in very high mileage situations. Please remind all customers of the instructions in their Owner's Manual, as shown below, to regularly have the underbody of their vehicles washed when road salt is being used in their area.

### ***"Underbody maintenance"***

*"Corrosive materials used for ice and snow removal and dust control may collect on the underbody. If these materials are not removed, accelerated rusting can occur on underbody parts such as the fuel lines, frame, floor pan and exhaust system, even though they have been treated with rust protection. Thoroughly flush the vehicle underbody and wheel openings with lukewarm or cold water once a month, after off-road driving and at the end of each winter. Pay special attention to these areas because it is difficult to see all the mud and dirt. It will do more harm than good to wet down the road grime without removing it. The lower edges of doors, rocker panels, and frame members have drain holes that should not be allowed to clog with dirt; trapped water in these areas can cause rusting."*

### **\* NOTICE**

**To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service > Warranty Coverage >Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.**

**File Under: <Service Campaign>**

**Circulate To:**  General Manager  Service Manager  Parts Manager

Service Advisor(s)  Technician(s)  Body Shop Manager  Fleet Repair

# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

## ★ NOTICE

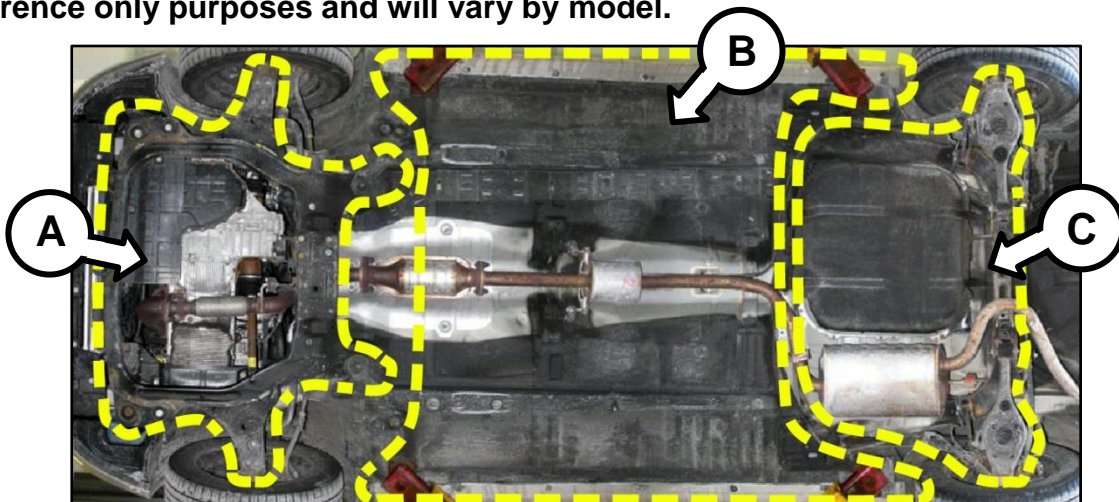
### IMPORTANT For Dealers and Customers Not Immediately affected By This Campaign.

This campaign is primarily being conducted regarding owners whose vehicles in the affected VIN range are owned and maintained in states where significant amounts of road salt are applied. However, the objective of this campaign is to improve customer satisfaction by applying additional anti-corrosion protection, regardless of their current location. As a result, additional customer vehicles not currently listed may need to be inspected and/or repaired as a result of this campaign. Possible situations and dealer responses include:

- (1) A customer who has not received an Owner Notification under this campaign and now resides in a salt belt state. Advise KMA and promptly conduct the campaign repair.
- (2) During normal maintenance or repairs for a vehicle located outside of the salt belt states, the dealer identifies that a vehicle has corrosion damage which appears to warrant a campaign repair. Contact the District Parts and Service Manager for approval before conducting the campaign repair.
- (3) A customer currently living outside a salt belt state alleges a potential corrosion condition or simply requests a repair or an inspection. Promptly conduct an inspection at no charge to the customer. If the dealer identifies that the vehicle has corrosion damage which appears to warrant a campaign repair, contact the District Parts and Service Manager for approval before conducting the campaign repair.

## ★ NOTICE

The procedure illustrated below is broken down into Cleaning, Cavity Wax Application and Undercoat Application for the front (A), center (B) and rear (C) sections of each applicable vehicle. Images shown in the procedure are for reference only purposes and will vary by model.



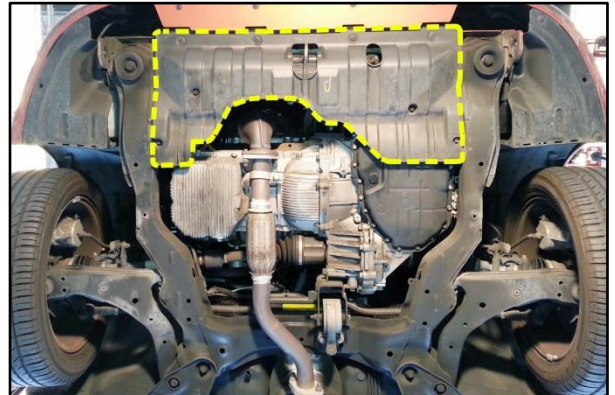
SUBJECT:

APPLICATION OF ADDITIONAL ANTI-CORROSION  
MATERIAL (SC122)**WARNING**

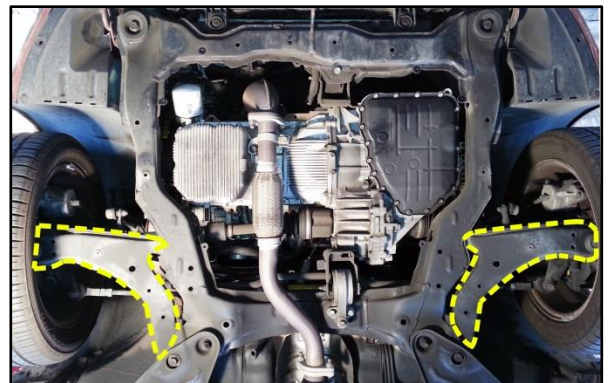
To prevent possible injury, make sure to wear eye and ear protection while performing the procedures described within. In addition, a dust mask should be worn to prevent inhaling any airborne rust particles or chemical vapors.

**Cleaning Procedure: Front Section of Vehicle**

1. On vehicles equipped with a splash shield, remove the splash shield prior to starting the procedure.



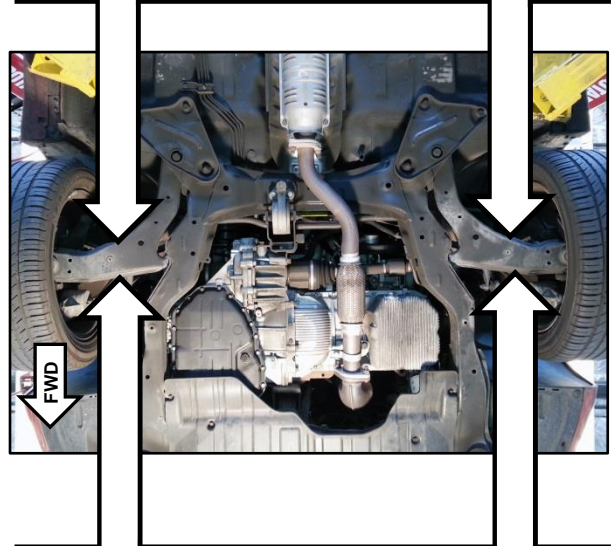
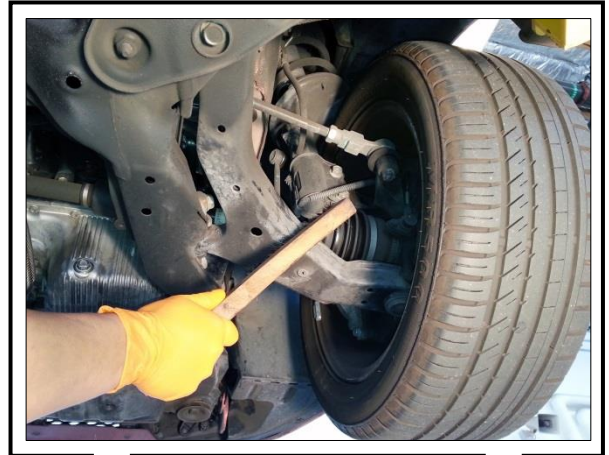
2. Start the cleaning procedure on the front lower control arms.



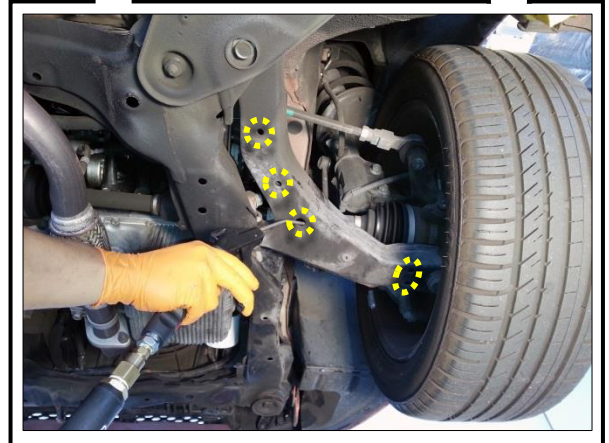
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3. Use a metal bristle brush to clean and remove any rust scales or contaminants from all surfaces of each front lower control arm.



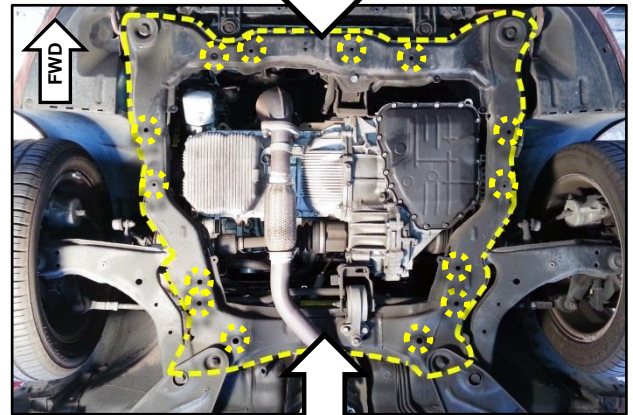
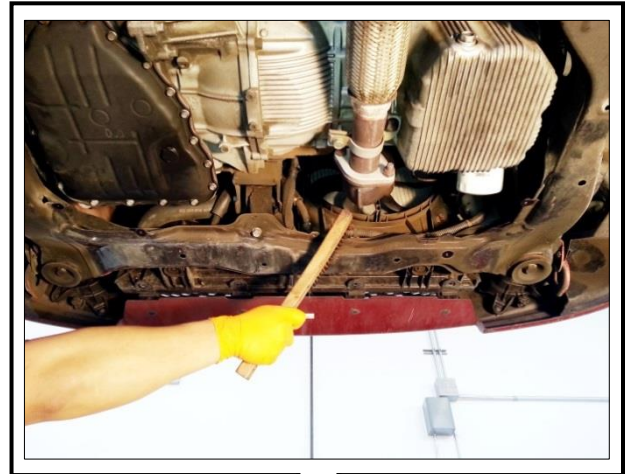
4. Remove any debris from the inside of each front lower control arm using an air gun. **NOTE: make sure to insert the air gun in multiple holes and rotate it in all directions to completely remove any foreign material or rust flakes.**



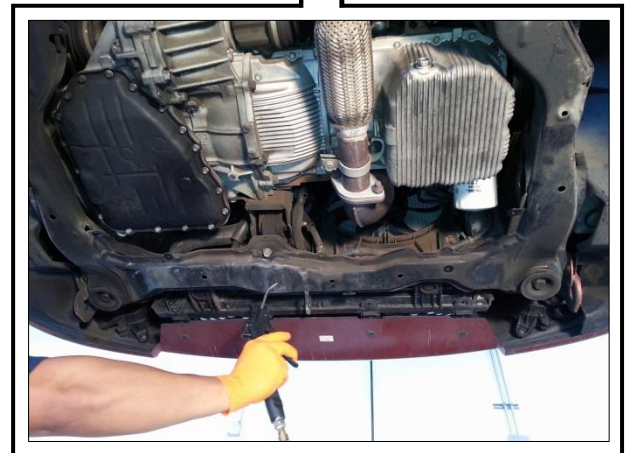
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5. Use a metal bristle brush to clean and remove any rust scales or contaminants from all surfaces of the subframe.

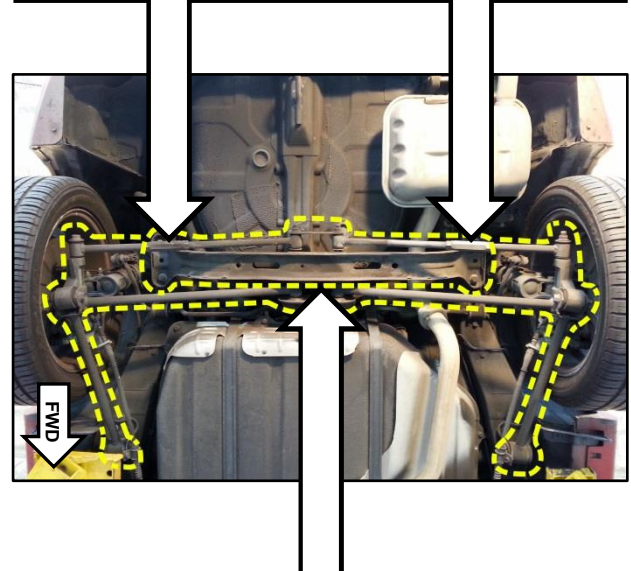
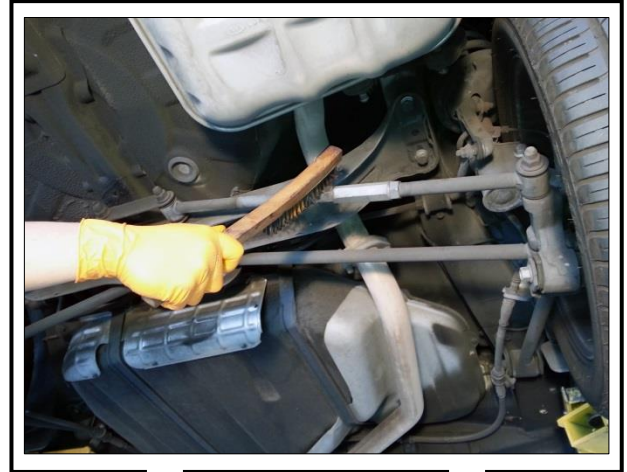


6. Remove any debris from the inside of the subframe using an air gun. **NOTE: Make sure to insert the air gun in multiple holes and rotate it in all directions to remove any foreign material or rust flakes.**

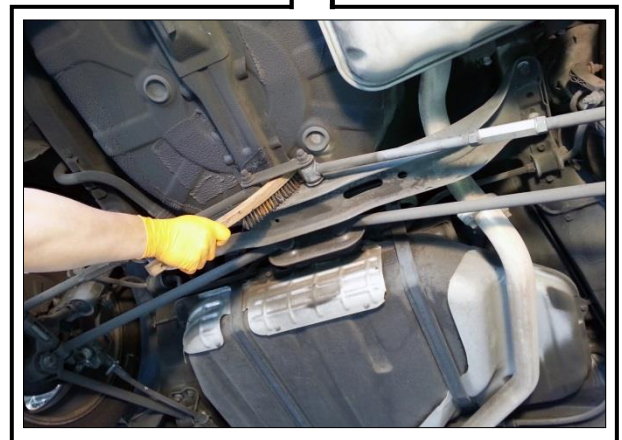


**Cleaning Procedure: Rear Section of Vehicle**

1. On Spectra (LD) vehicles, use a metal bristle brush to clean and remove any rust scales or contaminants from all surfaces of the rear lower control arms and trailing arms.



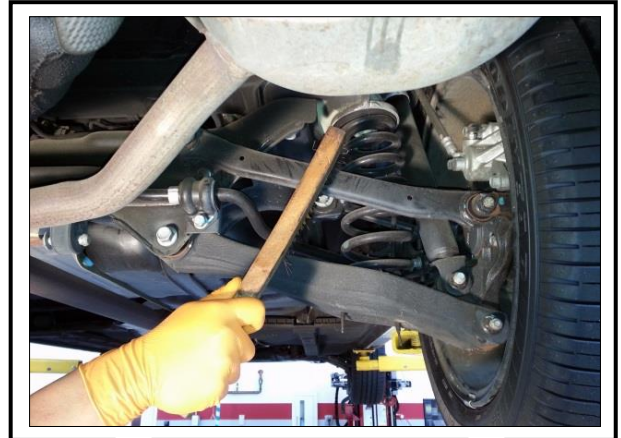
2. Use a metal bristle brush to clean and remove any rust scales or contaminants from all surfaces of the rear cross member.



SUBJECT:

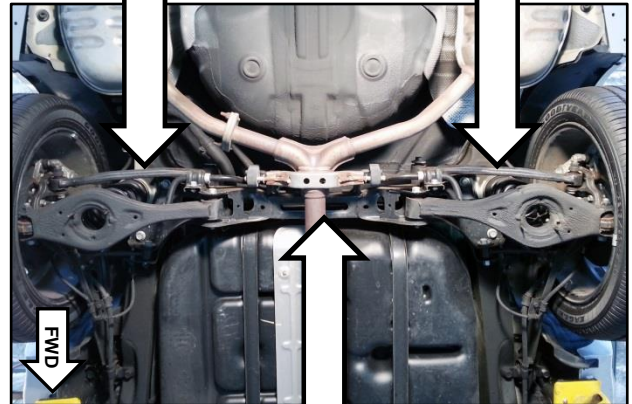
## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

3. On Optima (MG) and Rondo (UN) vehicles, use a metal bristle brush to clean and remove any rust scales or contaminants from all surfaces of the rear upper and lower control arms.

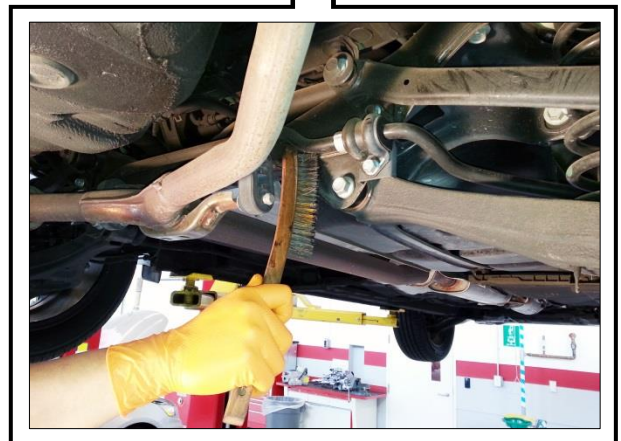


**\* NOTICE**

On Rondo (UN) vehicles, refer to WebDCS to ensure that Service Campaign SC093 has been previously performed on the vehicle. If not complete, perform that campaign at the same time.



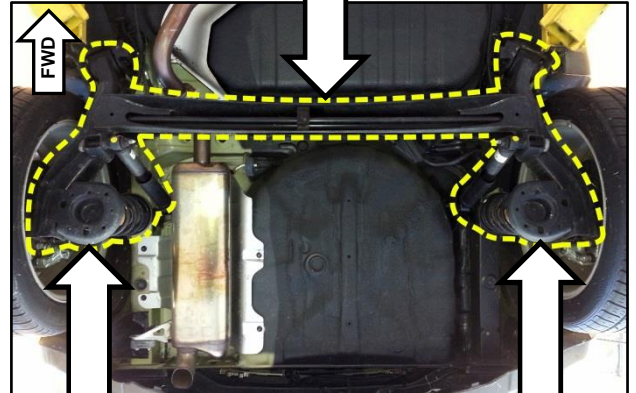
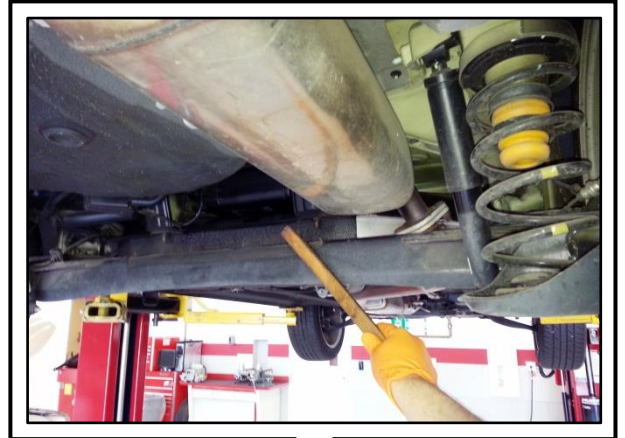
4. Use a metal bristle brush to clean and remove any rust scales or contaminants from all surfaces of the rear cross member.



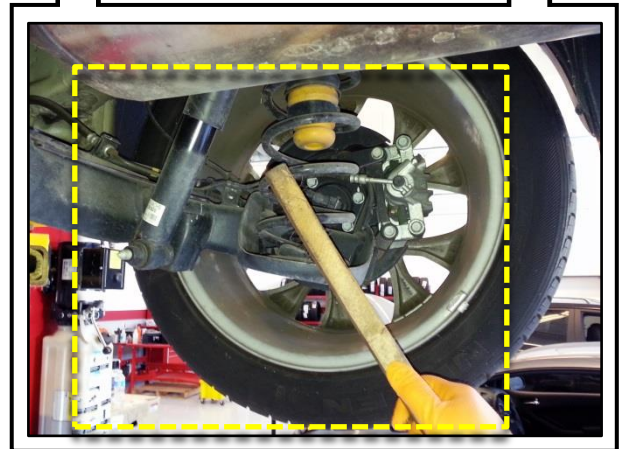
SUBJECT:

# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

5. On Soul (AM) and Rio (JB) vehicles, use a metal bristle brush to clean and remove any rust scales or contaminants from the torsion beam assembly, as shown.



6. Use a metal bristle brush to clean and remove any rust scales or contaminants from the spring perches, brake line mounts and shock mounts, as shown.

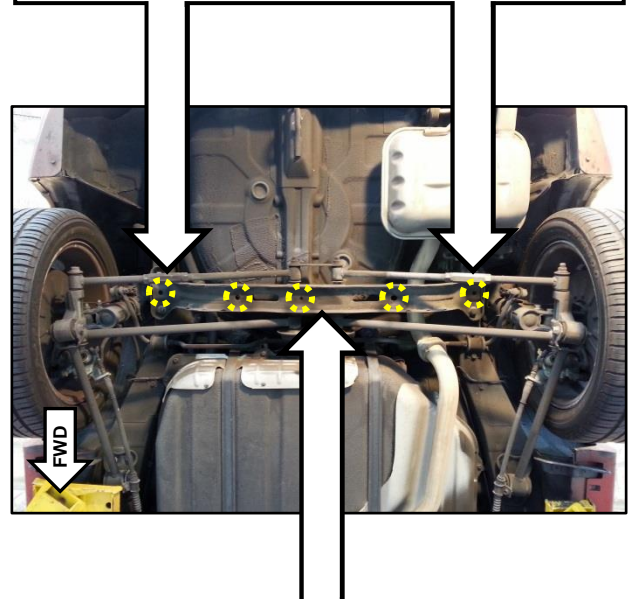
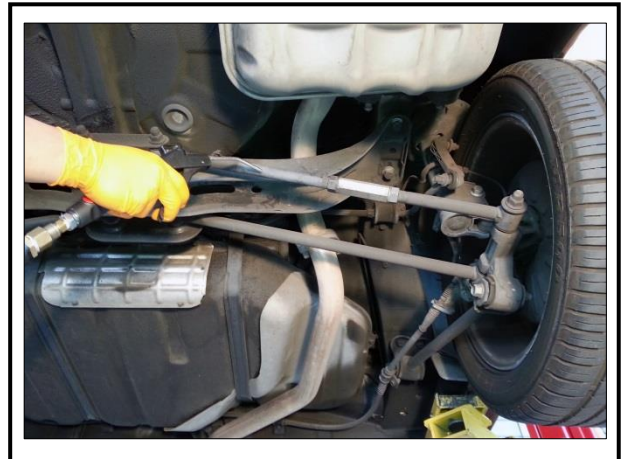




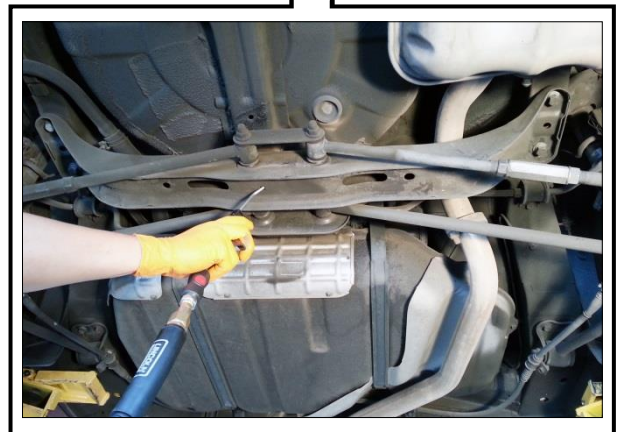
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7. Remove any remaining contaminants from the rear control arms and trailing arms using an air gun.



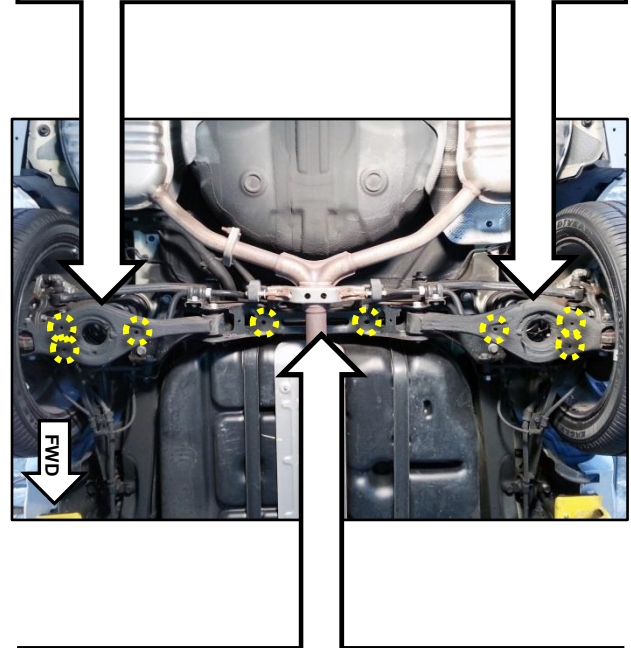
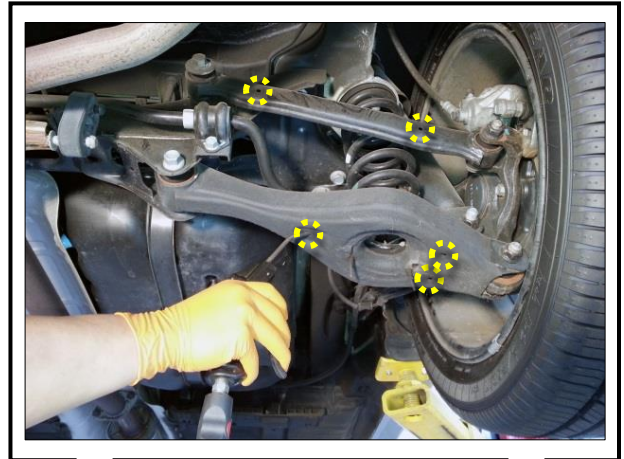
8. Remove any debris from the inside of the cross member using an air gun. **NOTE: Make sure to insert the nozzle in multiple holes and rotate it in all directions to remove any foreign material or rust flakes.**



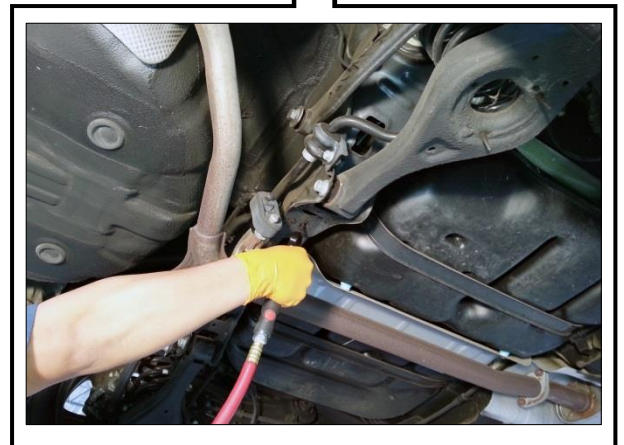
SUBJECT:

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9. On Optima (MG) and Rondo (UN) vehicles, insert the nozzle in all holes of the upper and lower rear control arms, as shown. **NOTE: make sure to rotate the nozzle in all directions to remove any foreign material or rust flakes.**



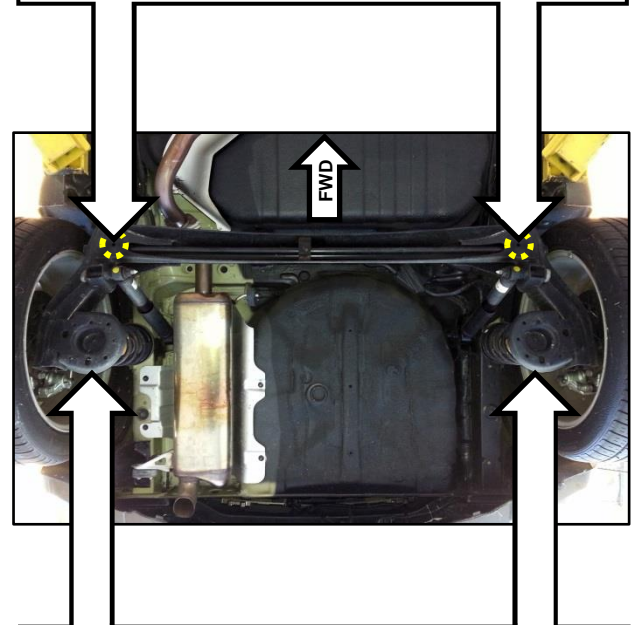
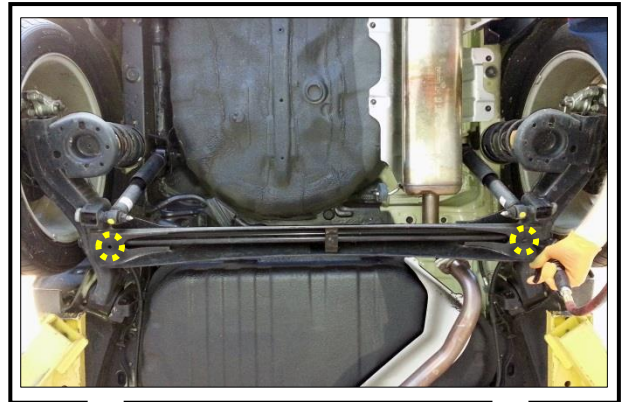
10. Remove any debris from the inside of the cross member using an air gun. **NOTE: make sure to insert the nozzle in multiple holes and rotate it in all directions to remove any foreign material or rust flakes.**



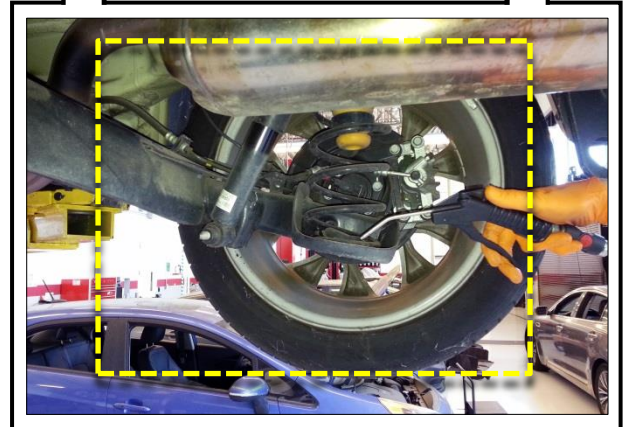
SUBJECT:

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MATERIAL (SC122)

11. On Soul (AM) and Rio (JB) vehicles, remove any debris from the inside of the torsion beam assembly using an air gun. **NOTE: make sure to insert the nozzle in multiple holes and rotate it in all directions to remove any foreign material or rust flakes.**



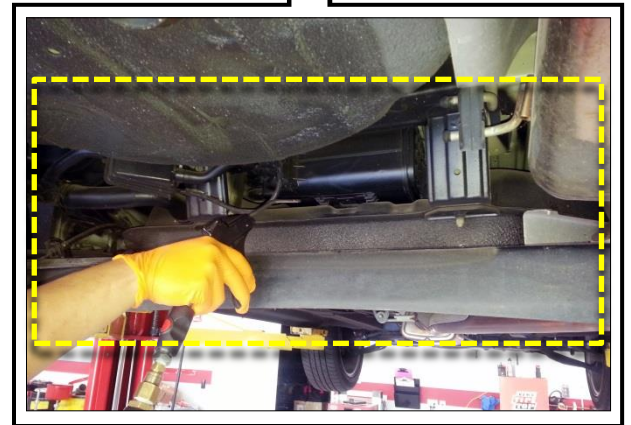
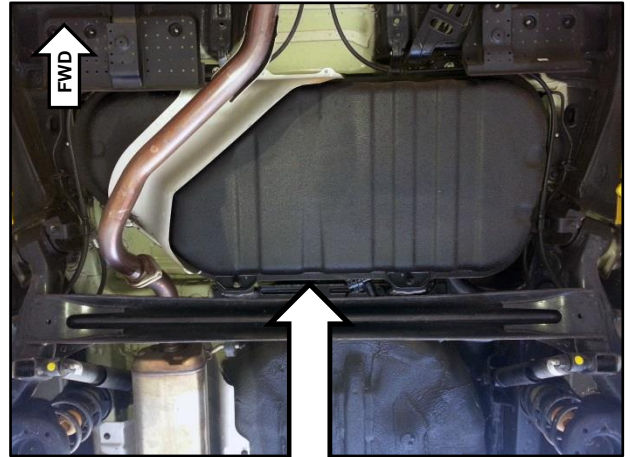
12. Use the air gun to remove any debris from the open ends of the torsion beam, spring perches, brake line mounts and shock mounts, as shown.



SUBJECT:

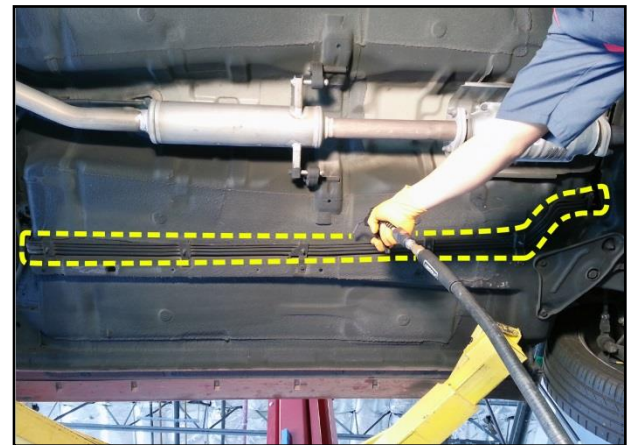
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13. On Soul (AM) vehicles, use an air gun to remove debris or foreign material from the upper surfaces (back and sides) of the fuel tank, as shown.



## Cleaning Procedure: Center Section of Vehicle

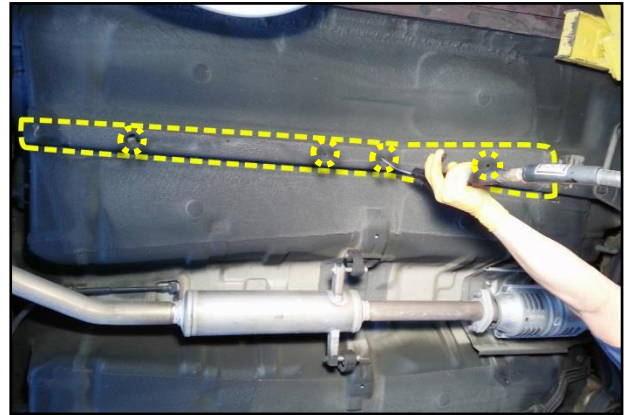
1. On all vehicles, use an air gun to remove any rust or contaminants from the surface of the fuel/brake lines, as shown.



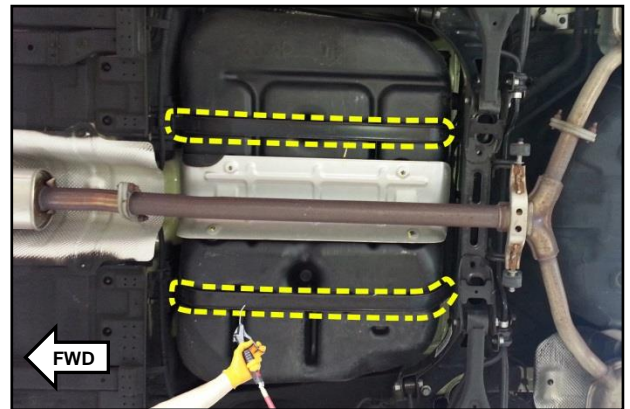
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2. On Spectra (LD) vehicles, use an air gun to remove any rust or contaminants from both chassis rails, as shown.



3. On Optima (MG) vehicles, use an air gun to remove debris or contaminants from the fuel tank straps, as shown.



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# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

## Cavity Wax Application: Front Section of Vehicle



### WARNING

To avoid possible injury, this procedure must be performed in a well-ventilated area and safety glasses must be worn at all times. In addition, do **NOT** smoke and avoid open flames while applying cavity wax and undercoating, as they are **highly flammable!**

### ★ NOTICE

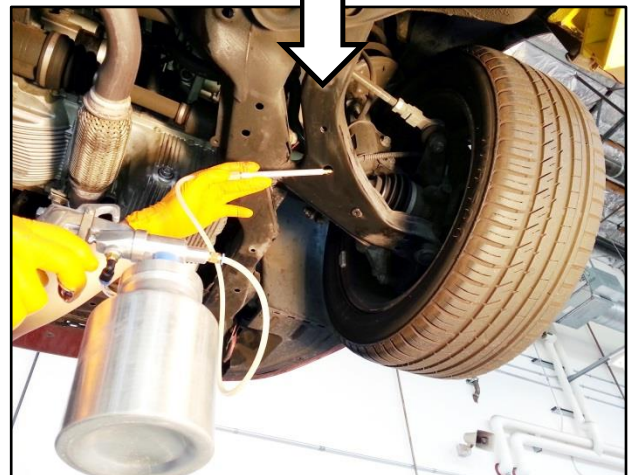
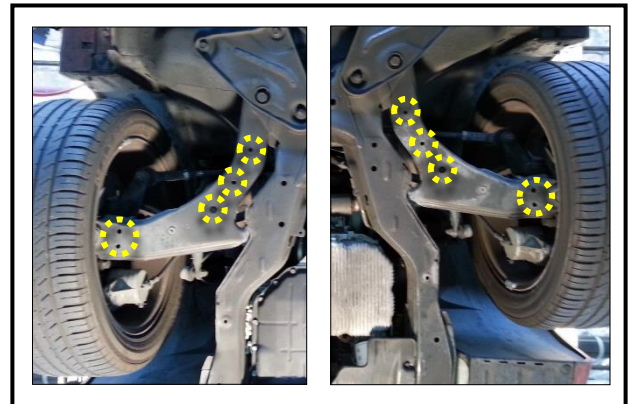
- This procedure should **ONLY** be performed in temperatures above 32° F (0° C). Ensure that all surfaces are completely dry and free of moisture before applying cavity wax or undercoating.
- Using expired product may result in a poor spray pattern and/or insufficient cavity wax application. Discard any such product (following all applicable local/state/federal regulations). An expiration date has been added to the cavity wax so that, in the future, any expired wax can be easily identified and discarded. The undercoating has a manufacturing date code printed on the bottom of the can. Undercoating should be discarded two years after the manufacturing date. In case of questions, please contact the Kia Chemical Program through <https://www.kdealer.com> or by calling (866) 854-0895.

1. On all vehicles, use the newly supplied Wax Injection Gun, with multi-angle spray nozzle, to apply cavity wax into every hole in each of the front lower control arms. **Note: make sure to vary the insertion angle of the nozzle to maximize coverage.**



### WARNING

Cavity wax is extremely flammable! To avoid possible injury, do **NOT** smoke and avoid any open flames during application.



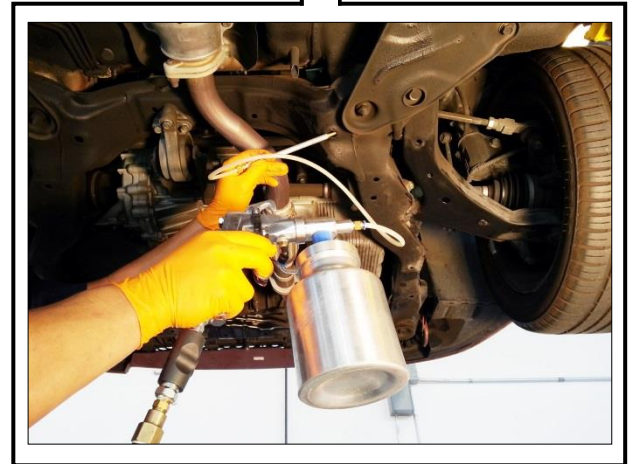
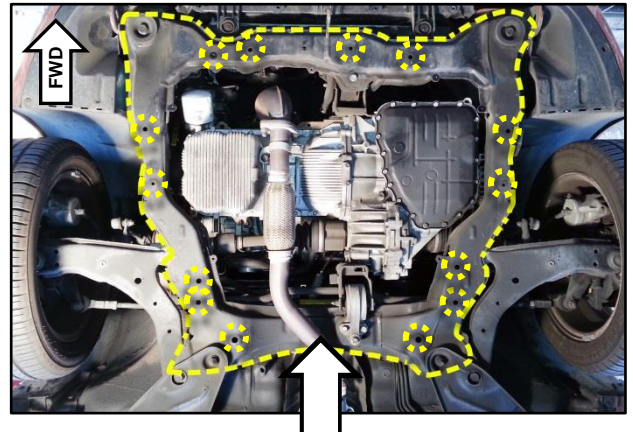
SUBJECT:

## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

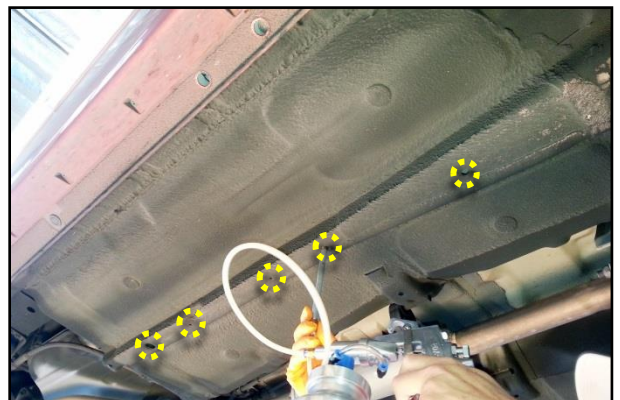
- Apply cavity wax into every hole in the sub-frame, as shown. **Note: make sure to vary the insertion angle of the nozzle to maximize coverage.**

**WARNING**

Cavity wax is extremely flammable! To avoid possible injury, do **NOT** smoke and avoid any open flames during application.

**Cavity Wax Application: Center Section of Vehicle (Only for Spectra (LD))**

- On Spectra (LD) vehicles, remove five (5) rocker panel plugs on each side and apply cavity wax into every hole, as shown. **Note: make sure to vary the insertion angle of the nozzle to maximize coverage.**
- Additionally, apply cavity wax into every hole of the chassis rails, as shown. **NOTE: make sure to vary the insertion angle of the nozzle to maximize coverage.**

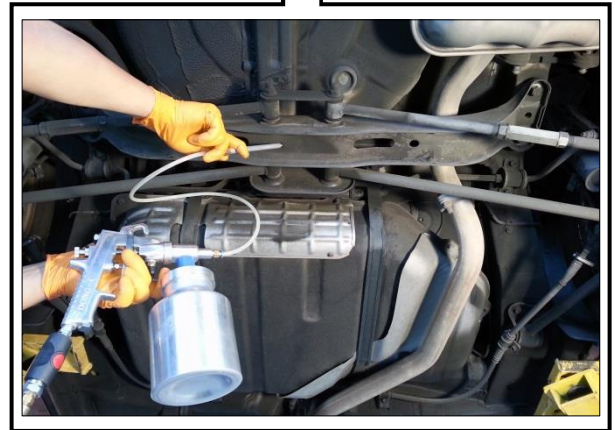
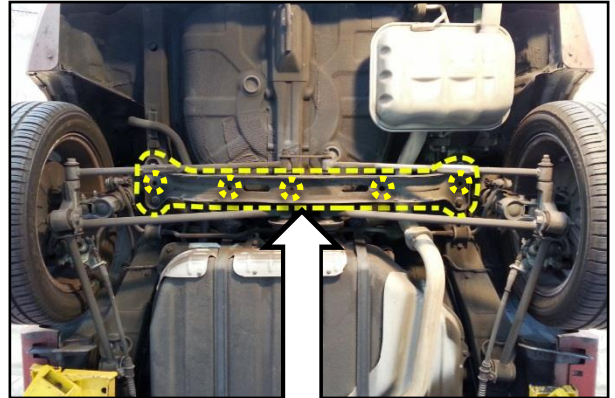


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## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

### Cavity Wax Application: Rear Section of Vehicle

1. On Spectra (LD) vehicles, apply cavity wax into every hole of the rear cross member, as shown. **Note: make sure to vary the insertion angle of the nozzle to maximize coverage.**

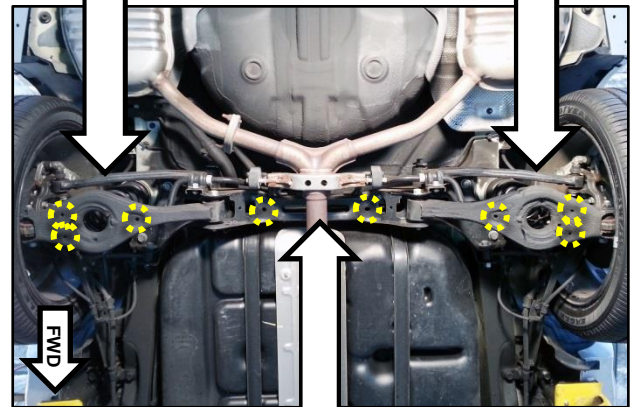
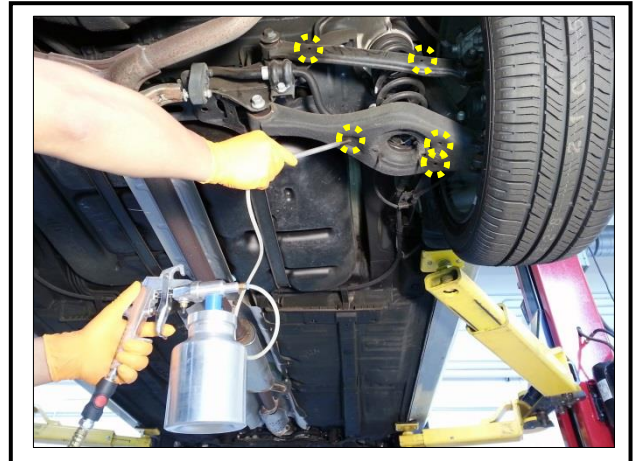




SUBJECT:

## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

2. On Optima (MG) and Rondo (UN) vehicles, apply cavity wax into every hole of the rear upper and lower control arms, as shown. **NOTE: make sure to vary the insertion angle of the nozzle to maximize coverage.**



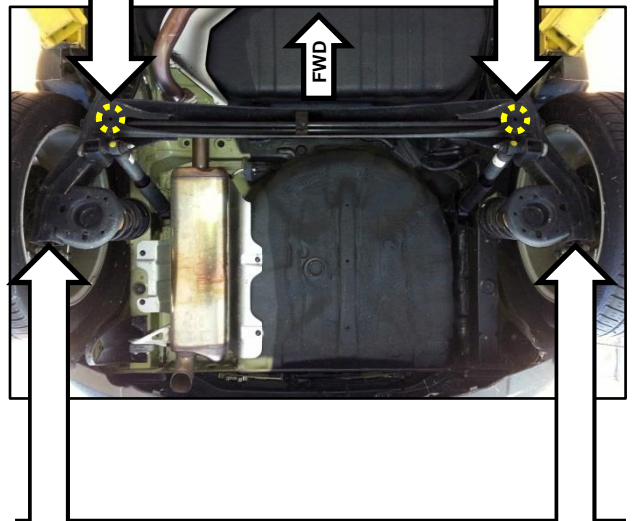
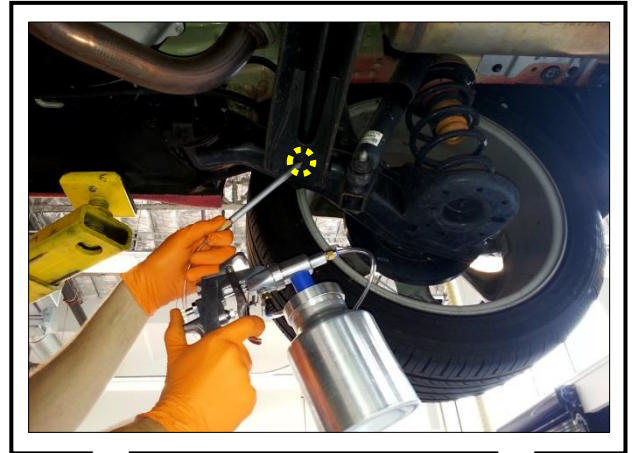
3. Apply cavity wax into every hole of the rear cross member, as shown. **NOTE: make sure to vary the insertion angle of the nozzle to maximize coverage.**



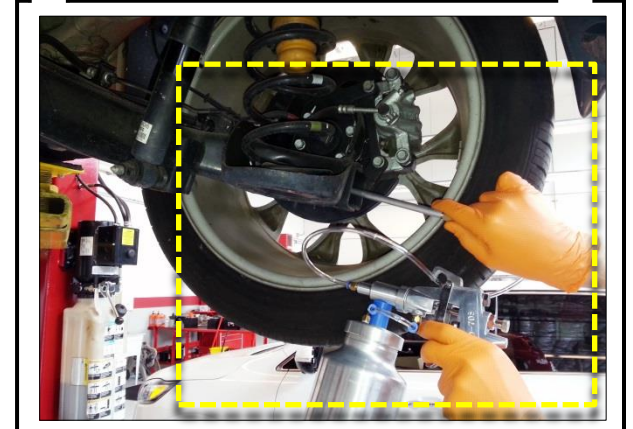
SUBJECT:

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4. On Soul (AM) and Rio (JB) vehicles, apply cavity wax into every hole of the torsion beam, as shown. **NOTE: make sure to vary the insertion angle of the nozzle to maximize coverage.**



5. Insert the nozzle into the openings at the ends of the torsion beam, as shown. **NOTE: make sure to vary the insertion angle of the nozzle to maximize coverage.**



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## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

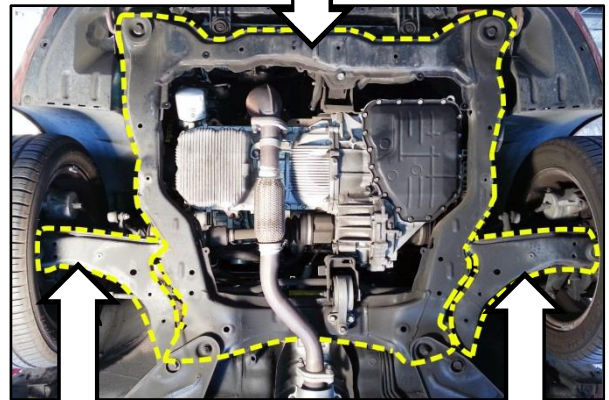
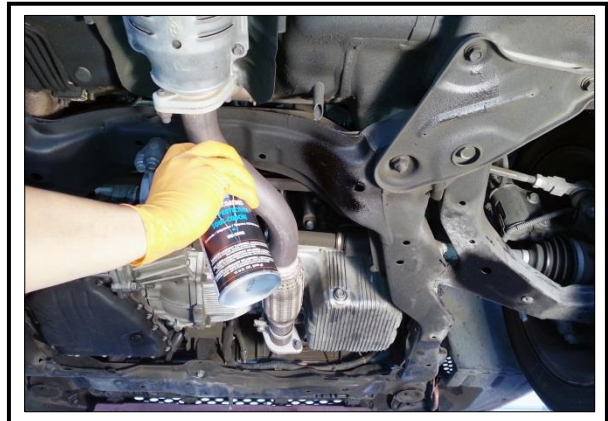
### Undercoating Application: Front Section of Vehicle

1. On all vehicles, apply undercoating onto the entire front subframe, as shown. Do NOT apply undercoating to the exhaust pipe or other unrelated parts of the vehicle.



#### WARNING

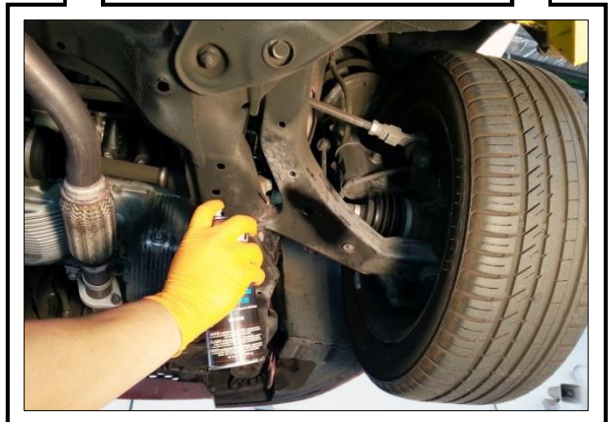
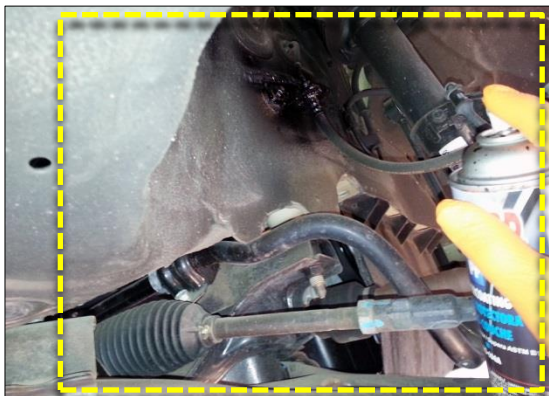
Undercoating is extremely flammable! Do NOT smoke and avoid any open flames during application, to avoid possible injury. In addition, latex gloves and a dust mask should be worn to prevent skin contact with the undercoating or inhalation of any vapors.



2. Apply undercoating onto the upper and lower surfaces of each front lower control arm. Avoid spraying unrelated parts of the vehicle.

#### \* NOTICE

Additionally, on all vehicles, apply under coating to the brake line mounting brackets, as shown below.

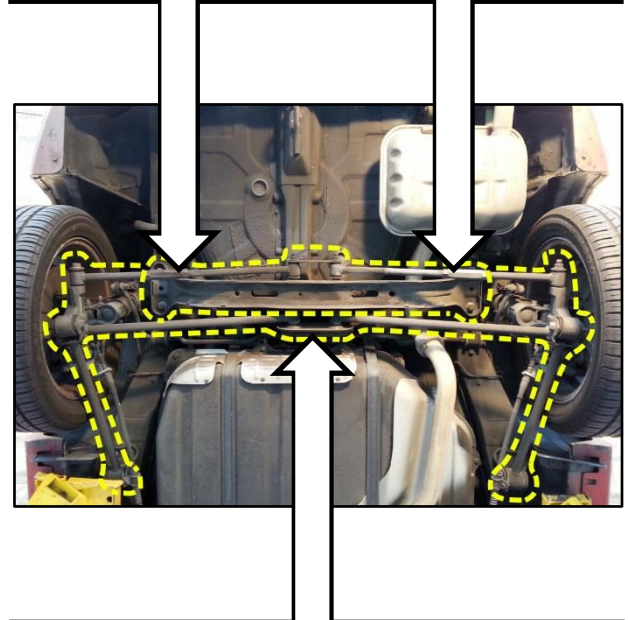
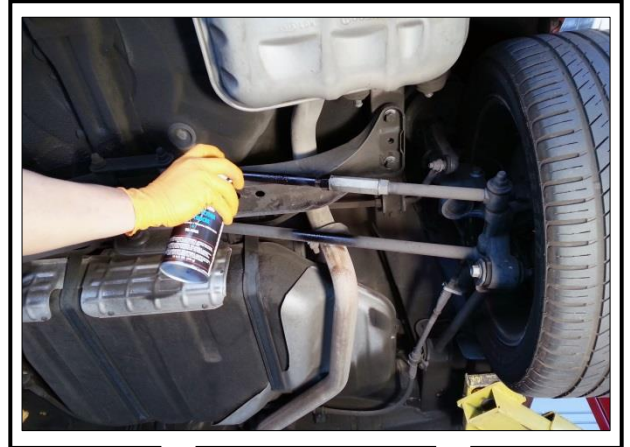


SUBJECT:

# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

## Undercoating Application: Rear Section of Vehicle

1. On Spectra (LD) vehicles, apply undercoating onto each rear lower control arm and trailing arm. Avoid spraying other unrelated parts of the vehicle.

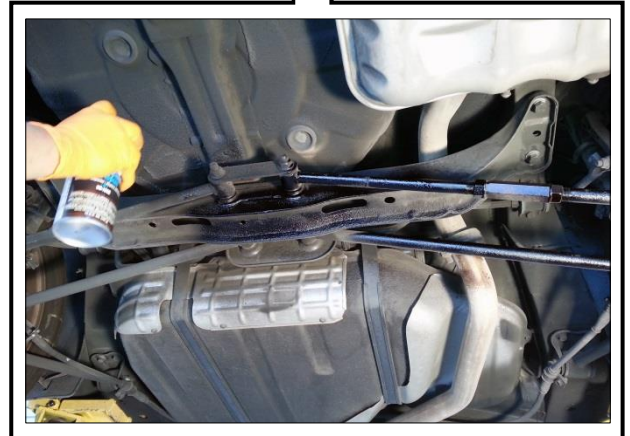


2. Apply undercoating onto the upper and lower surfaces of the cross member, as shown. Do **NOT** apply undercoating to the exhaust pipe or other unrelated parts of the vehicle.



### **WARNING**

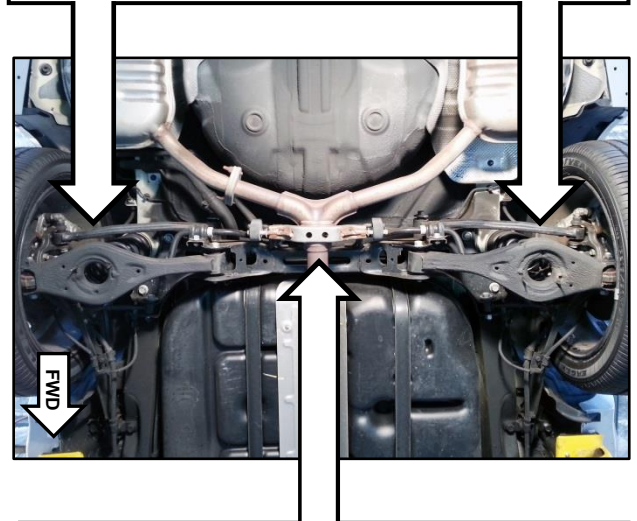
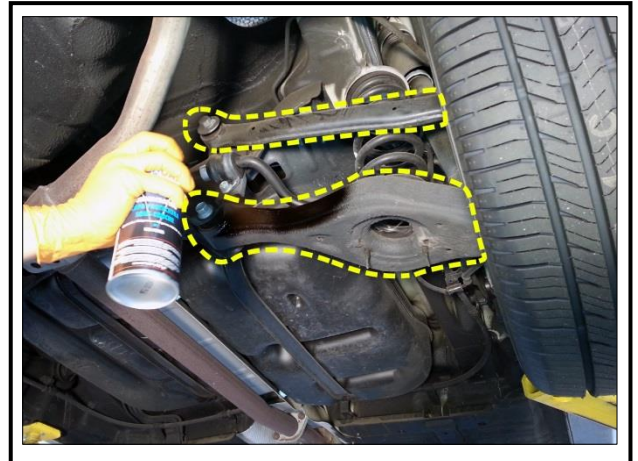
Undercoating is **extremely flammable!** Do **NOT** smoke and avoid any open flames during application to avoid possible injury. In addition, latex gloves and a dust mask should be worn to prevent skin contact with the undercoating or inhalation of any vapors.



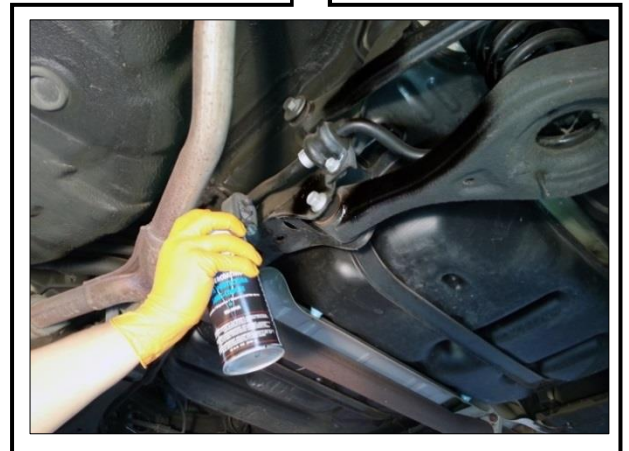
## SUBJECT:

## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

3. On Optima (MG) and Rondo (UN) vehicles, apply undercoating onto the rear upper and lower control arms, as shown. Do NOT apply undercoating to the exhaust pipe or other unrelated parts of the vehicle.



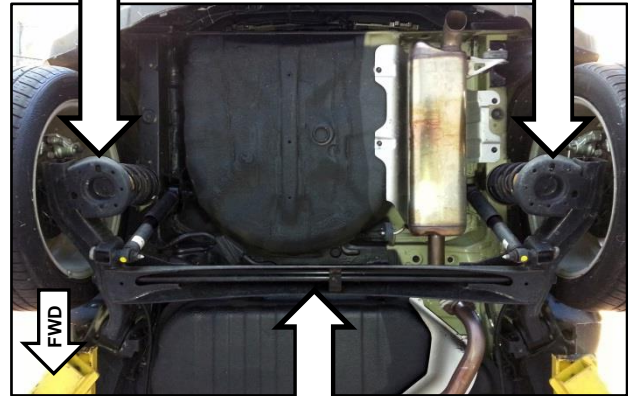
4. Apply undercoating onto the entire rear cross member, as shown. Do NOT apply undercoating to the exhaust pipe or other unrelated parts of the vehicle.



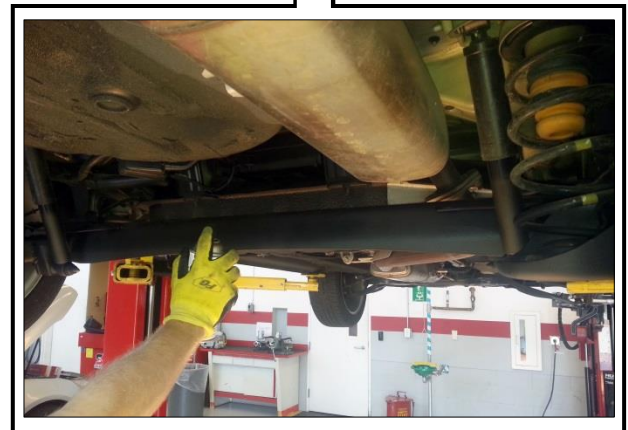
SUBJECT:

# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

5. On Soul (AM) and Rio (JB) vehicles, apply undercoating onto the ends of the torsion beam, spring perches, shock mounts and the brake line mounting brackets, as shown.



6. Apply undercoating onto the entire the torsion beam assembly, as shown. **NOTE: make sure to vary the insertion angle of the nozzle to maximize coverage.**

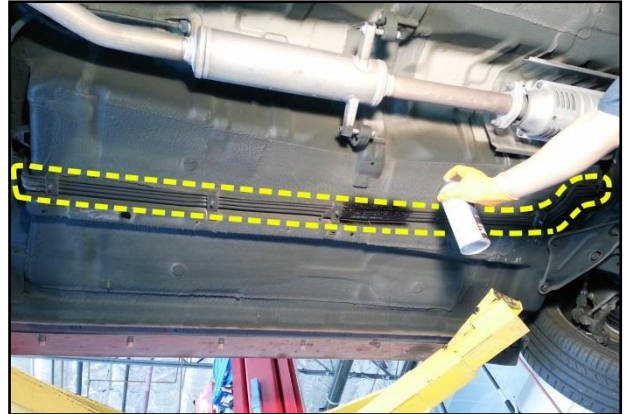


SUBJECT:

# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

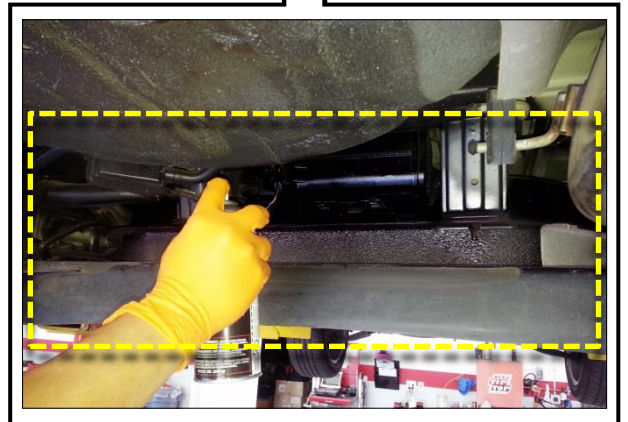
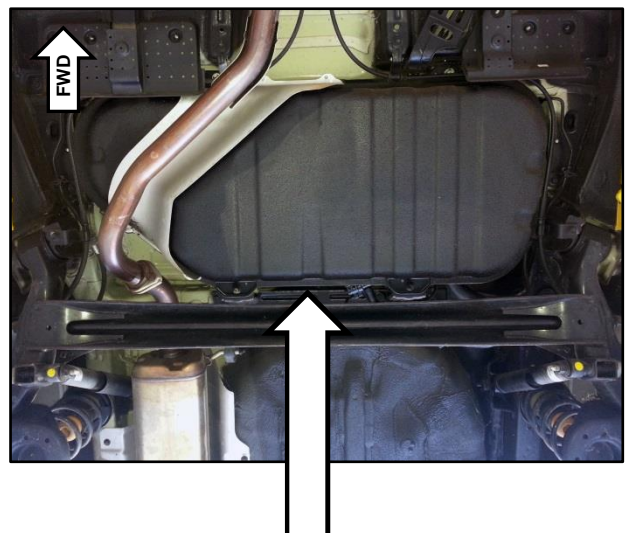
## Undercoating Application: Brake/Fuel Lines

1. On all vehicles, apply undercoating onto the entire length of the brake/fuel lines, as shown.



## Undercoating Application: Fuel Tank (Only For Soul (AM) and Optima (MG))

1. On Soul (AM) vehicles, apply undercoating onto the upper surfaces (back and sides) of the fuel tank, as shown. Do NOT apply undercoating to Evap Canister, the exhaust pipe or other unrelated parts of the vehicle.




**SUBJECT: APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)**

- 2. On Optima (MG) vehicles, apply undercoating to the fuel tank straps, as shown below.





- 3. Reinstall the splash shield and the rocker panel plugs on Spectra (LD) vehicles.
- 4. Reinstall any other components, as necessary, to finalize the procedure.

**REQUIRED TOOLS:**

Part Name	Part No.	Qty.	Figure	Comments
Kia SC122 Wax Gun	06700 10100	1		Used for applying cavity wax (order replacements through Snap-on by calling (888) 542-1011)

**REQUIRED PARTS:**

Part Name	Part No.	Qty.	Figure	Comments
Cavity Wax	UM090 CH041	1		Limit one (1) can per vehicle (Order through Kia Chemicals)
Undercoating	UM010 CH044	3		Limit three (3) cans per vehicle (Order through Kia Chemicals)



SUBJECT:

## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC122)

AFFECTED VEHICLE PRODUCTION RANGE:

Model	Production Date Range
Soul (AM)	2010~2013MY
Optima(MG)	2006~2010MY
Rio(JB)	2006~2011MY
Rondo (UN)	2007~2010MY
Spectra (LD)	2004~2009MY

WARRANTY CLAIM INFORMATION:

Claim Type	Model	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.	
R	Soul (AM)	54500 2K500	0	(SC122) Vehicle Underbody Wax & Undercoat Application	150033R0 (SC122AM)	0.5 M/H	UM090 CH041	1	
								UM010 CH044	3
	Spectra (LD)	54500 2F001			150034R0 (SC122LD)	0.6 M/H	UM090 CH041	1	
							UM010 CH044	3	
	Optima (MG)	54500 2G501			150035R0 (SC122MG)	0.7 M/H	UM090 CH041	1	
							UM010 CH044	3	
	Rio (JB)	54500 1E000			150036R0 (SC122JB)	0.5 M/H	UM090 CH041	1	
							UM010 CH044	3	
	Rondo (UN)	54500 1D100			150040R0 (SC122UN)	0.7 M/H	UM090 CH041	1	
							UM010 CH044	3	

### \* NOTICE

To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service > Warranty Coverage >Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.

### \* NOTICE

If SC093 was not previously completed and performed along with this campaign, claim separately using the warranty claim information for Campaign SC093.