



GROUP <b>Service Campaign</b>	MODEL <b>Multiple Models (see below)</b>
NUMBER <b>SC141</b>	DATE <b>December 2016</b>

## VOLUNTARY SERVICE CAMPAIGN

**SUBJECT:** APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

To improve customer satisfaction, Kia is launching this service campaign to apply additional anti-corrosion material to the underbody components of certain 2011-2014MY Sorento, 2011-2014MY Optima and Optima Hybrid, 2011-2014MY Sportage, and 2010-2013MY Forte and Forte Koup vehicles originally sold or currently registered in one of the 28 states where heavy amounts of road salt are used. The 28 states where heavy amounts of road salt are used are: AK, CT, DC, DE, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, ND, NE, NH, NJ, NY, OH, PA, RI, SD, UT, VT, WI and WV. 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**

**\* 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.

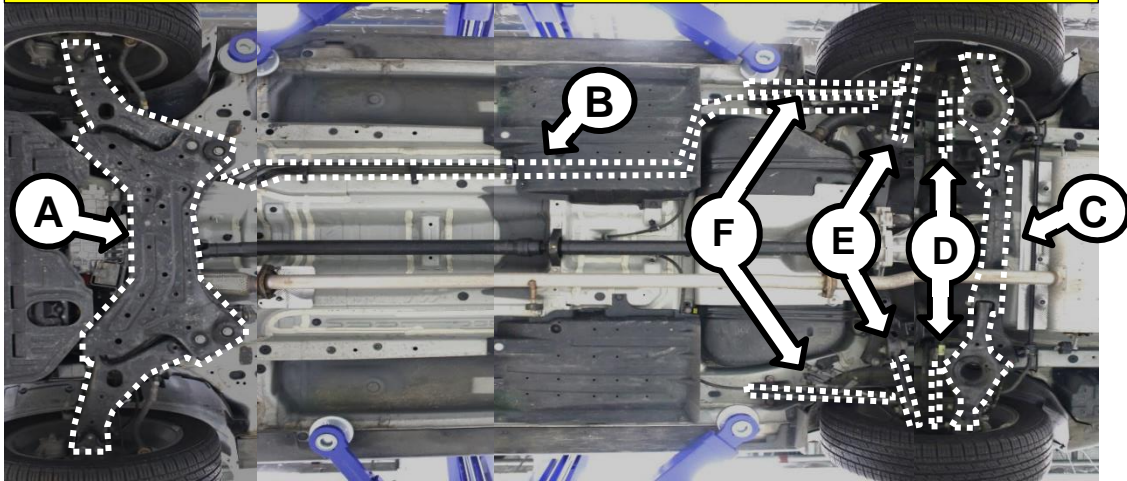
**\* NOTICE**

The procedure illustrated below is broken down into Cleaning, Cavity Wax Application and Undercoat Application for the Sub Frame / Front Lower Arm (A), Fuel / Brake Tube Protector (B), Rear Member Arm / Rear Lower Arms (C), Rear Upper Arms (D), Assist Arms (E), Trailing Arms (F) sections of each applicable vehicle. Images shown in the procedure are for reference only purposes and will vary by model.

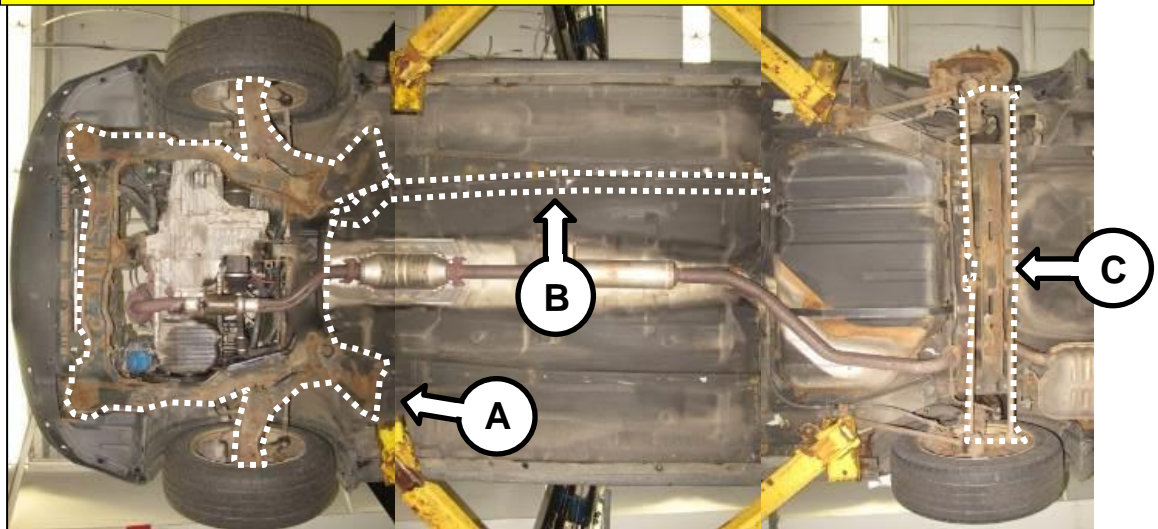
SUBJECT:

# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

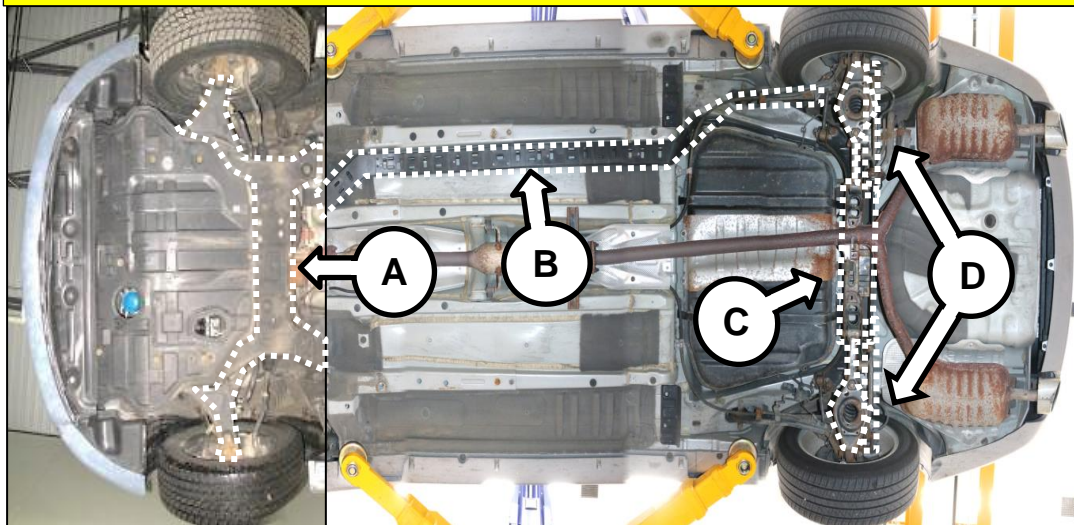
Sportage (SL) Underbody



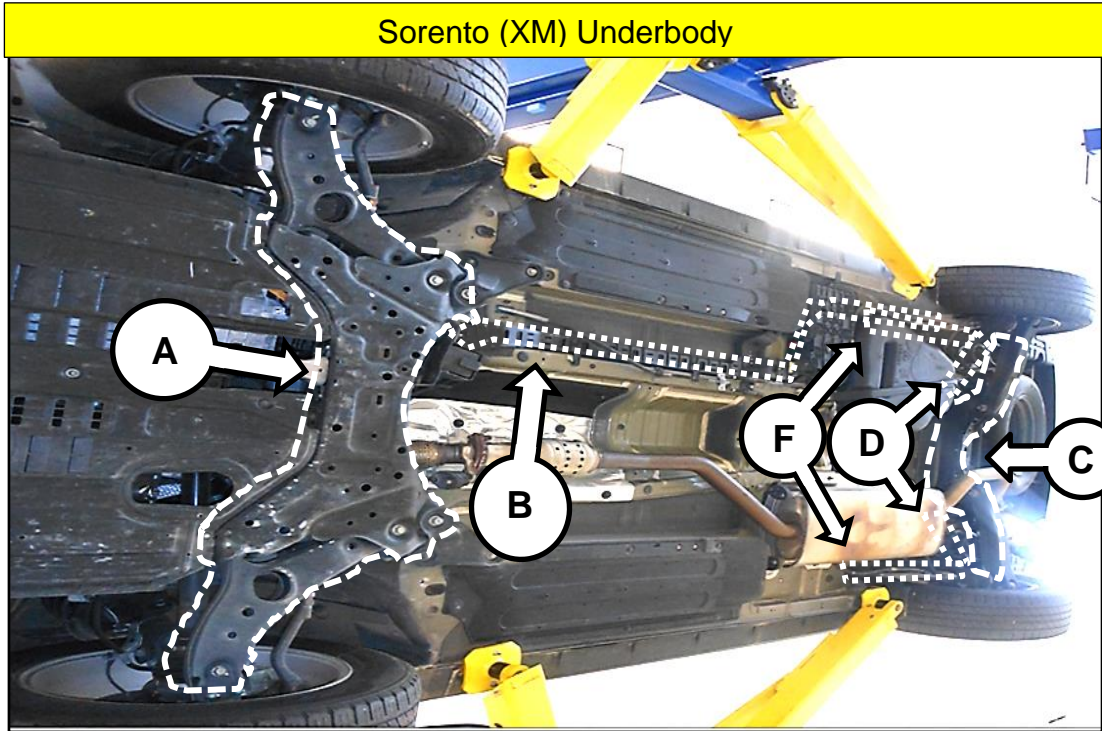
Forte / Forte Koup (TD) Underbody



Optima (QF / TF / TFE) Underbody







**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.

**Cleaning Procedure**

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

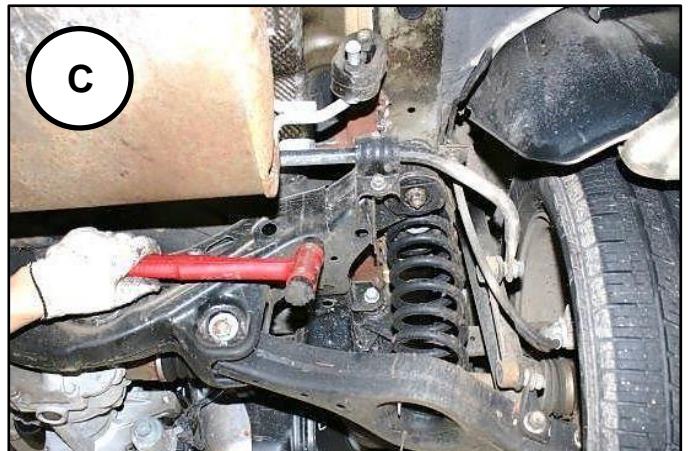


SUBJECT:

## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

2. Remove any rust scales or contaminants from the following components by hammering with a small hammer, and removing any surface rust with a wire brush:

- Sub Frame/Front Lower Arms (A)
- Rear Member Arm/Rear Lower Arms (C)
- Rear Upper Arms (D)
- Assist Arms (E)
- Trailing Arms (F)



### \* NOTICE

Images are examples only, and may not exactly match the vehicle you are inspecting.



SUBJECT:

# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

## \* NOTICE

It is not necessary to strike components with sufficient force as to cause dimpling or damage.

## \* NOTICE

Take special care not to strike parking brake cable, brake lines, or wiring harnesses during this step.



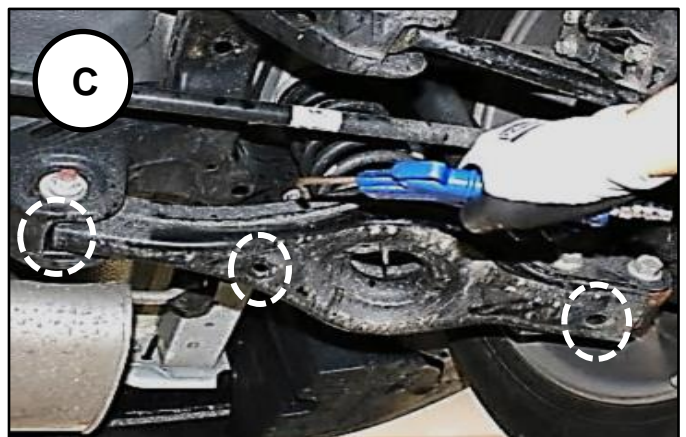
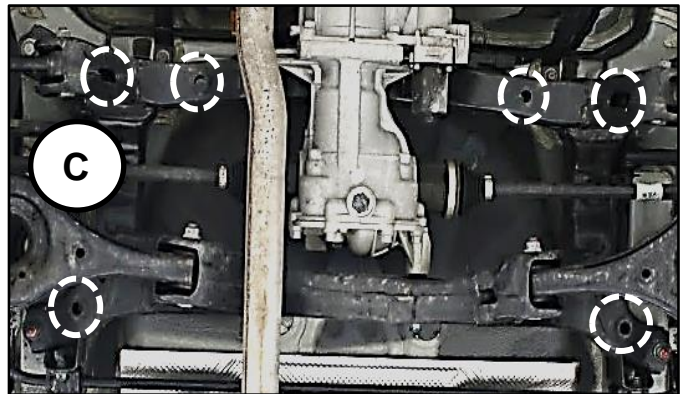
## SUBJECT:

## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

3. After hammering and wire brushing is complete, you will need to use a blow gun to introduce compressed air into the service holes of chassis components to remove any additional rust scales or contaminants.



4. Make sure that when using compressed air to remove rust scale and contaminants, to rotate the air nozzle inside the service holes to completely remove debris that may be lodged in cavities.

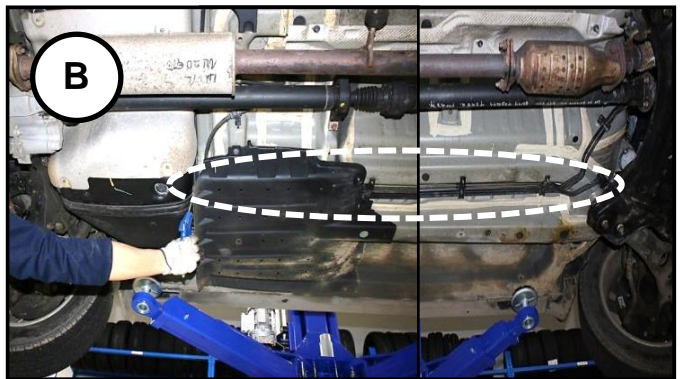




SUBJECT:

# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

- 5. Be sure to remove debris that may be collected between the Fuel/Brake Tubes and the body with compressed air. (B)



- 6. Make certain that all surface contaminants are removed with compressed air from the Trailing Arms, and Assist Arms.





SUBJECT:

**APPLICATION OF ADDITIONAL ANTI-CORROSION  
MATERIAL (SC141)****Cavity Wax Application****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 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>.

SUBJECT:

# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

1. The cavity wax is applied using the Kia Wax Injection Gun (06700 10100). The nozzle should be inserted into the service holes in the specified components, and rotated so that there is even coating inside.

Click [here](#) to see tutorial on wax application.



## WARNING

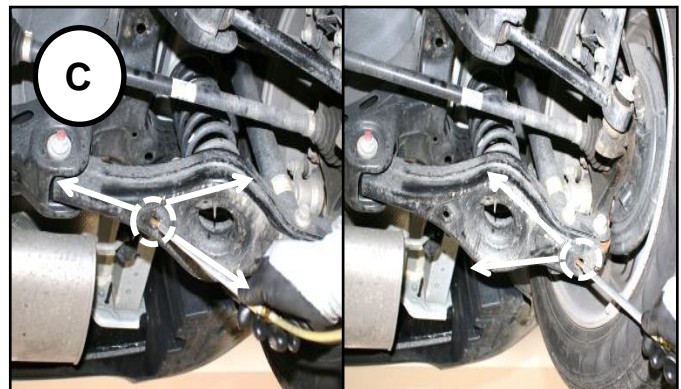
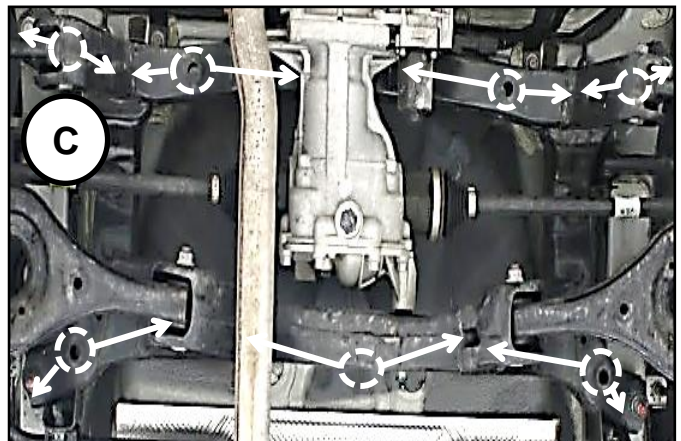
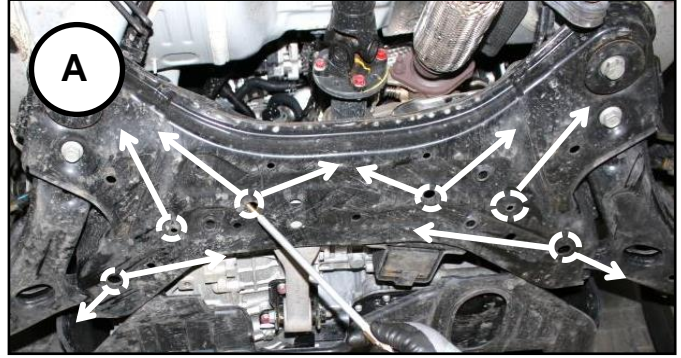
Cavity wax is extremely flammable! To avoid possible injury, do **NOT** smoke, and avoid any open flames during application.

## \* NOTICE

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## \* NOTICE

Care should be taken not to remove the nozzle from service holes during application to prevent cavity wax from contaminating surrounding areas.

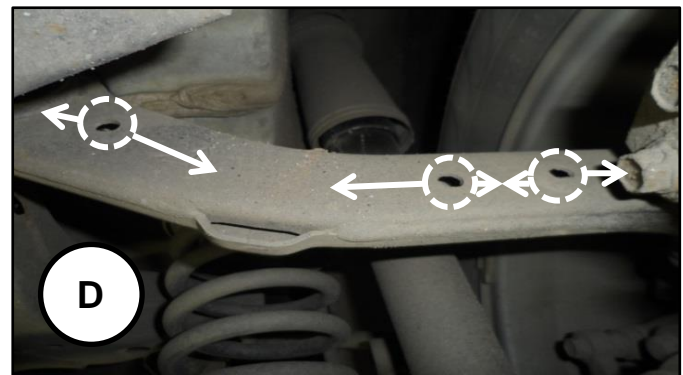




SUBJECT:

APPLICATION OF ADDITIONAL ANTI-CORROSION  
MATERIAL (SC141)**\* NOTICE**

Be certain during application that all interior surfaces of affected components are coated completely.



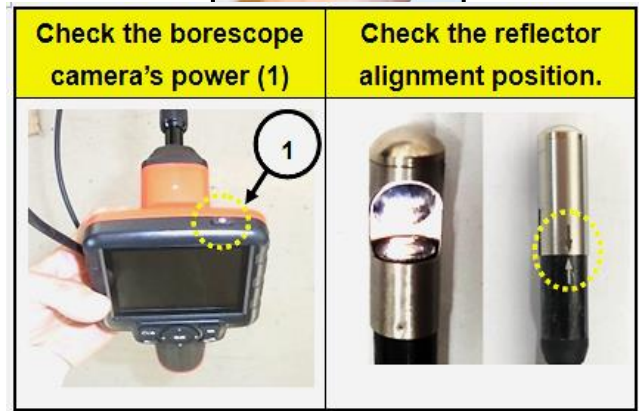
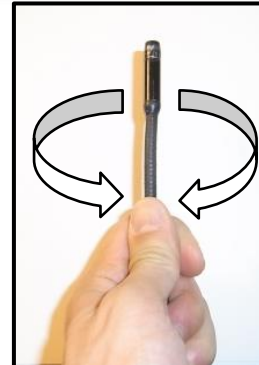
- After applying cavity wax to components, use the borescope (1K545 4D200QQK) to check for proper wax coating through the component service holes.



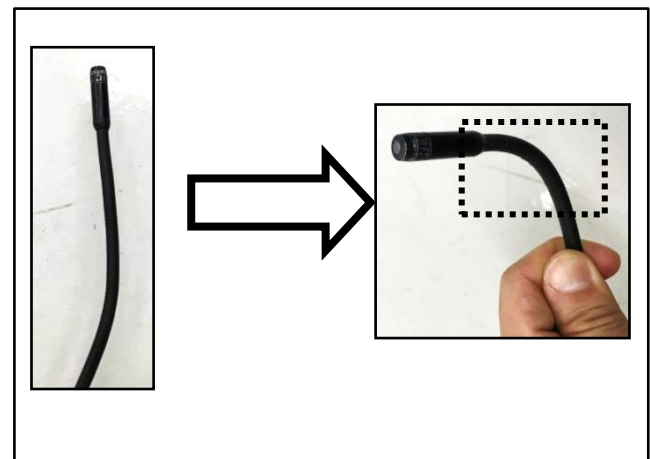
SUBJECT:

# APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

- Power up and calibrate the display orientation direction by gripping the probe and turning as required. (Apply and align the 90 degree angle adapter, as needed, for picture quality.)



- Once the camera and display are properly oriented, bend the probe just behind the camera to help maintain orientation during inspection.



**\* NOTICE**

If it is difficult to view the inside of the arm with the camera due to flexibility of the scope wand, use the 90 degree lens attachment.



SUBJECT:

## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

5. Insert the camera into hole as shown.

### ★ NOTICE

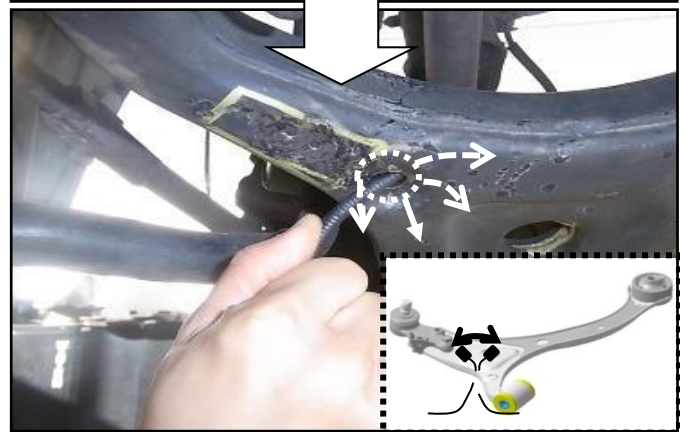
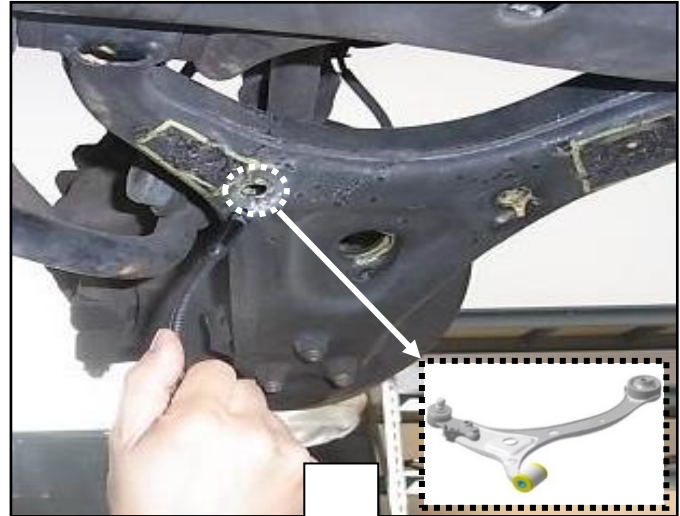
Always insure the camera lens and 90 degree adaptor are cleaned with a fresh paper towel and rubbing alcohol prior to inspection and image capturing. Poor image quality submissions to warranty may be rejected.

6. Rotate the camera in order to check all angles for proper wax application inside the inspected components, and to obtain your images that will be used for warranty claim submission.

### ★ NOTICE

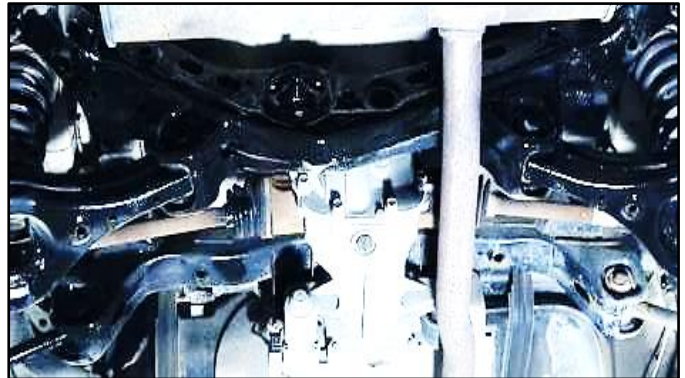
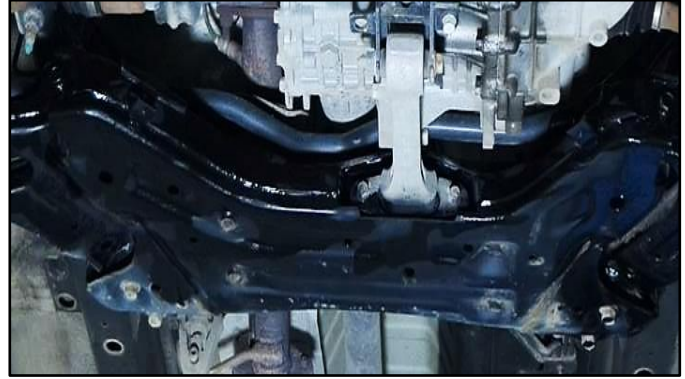
Images of wax application must be submitted per warranty bulletin 2016-20. Claim approval will be delayed if images are not submitted. Images to be submitted are as follows:

- Inside Front Lower Control Arm, LH
- Inside Front Cross Member
- Inside Rear Lower Control Arm, LH
- Inside Rear Cross Member (Unless Cross Member is open, in which case an exterior picture will suffice)



### Undercoat Application

1. Using undercoating spray, be sure to **completely coat** the Sub Frame / Front Lower Arm (A), Fuel / Brake Tube Protector (B), Rear Member Arm / Rear Lower Arms (C), Rear Upper Arms (D), Assist Arms (E), and Trailing Arms (F).



### WARNING

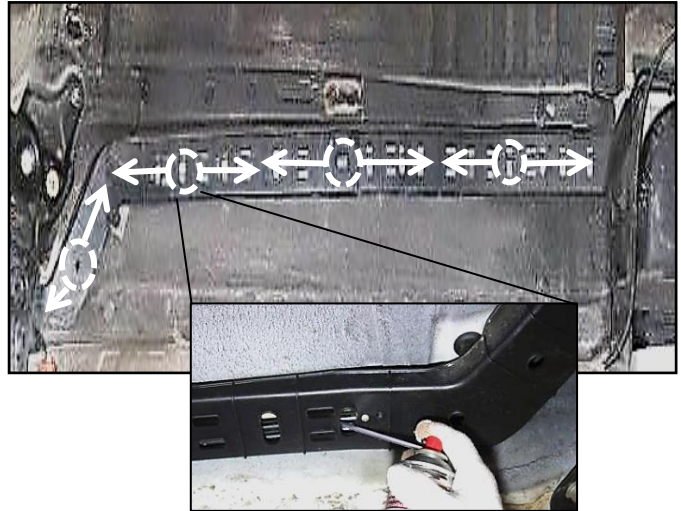
Undercoating is extremely flammable! Do **NOT** smoke and avoid any open flames during application, to avoid possible injury. In addition, latex gloves and a dust mask should be worn to prevent skin contact with the undercoating or inhalation of any debris during application.



SUBJECT:

## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

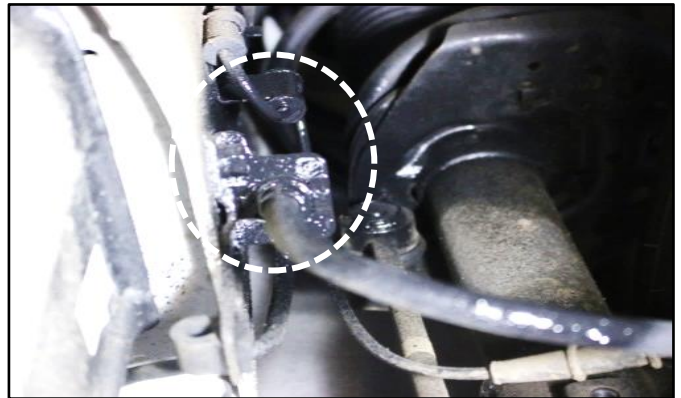
2. Make sure to spray undercoat inside the Fuel/Brake Tube Protector as well as on the outside portion.



3. Be sure to completely coat the brake hose anchor clips on the front and rear of the vehicle.

### \* NOTICE

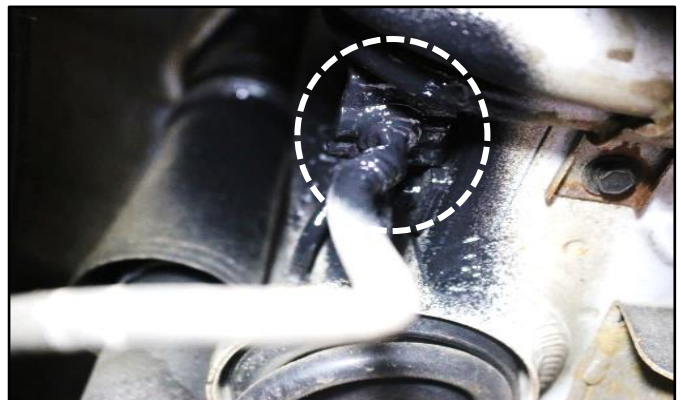
Take special care to not spray undercoating onto the brake calipers, or friction surfaces during this application.



### \* NOTICE

Images of undercoating must be submitted per warranty bulletin 2016-20. Claim approval will be delayed if images are not submitted. Images to be submitted are as follows:

\*Outside/Exterior of Front Lower Control Arm and Sub Frame after undercoating application. One combined photo showing both Control Arms and Sub Frame clearly and completely will suffice.







4. If previously removed, reinstall the splash shield to complete the procedure.





SUBJECT:

## APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)

## REQUIRED TOOLS:

Part Name	Part No.	Qty.	Figure	Comments
Kia SC141 Wax Injection Gun	06700 10100	1		Previously shipped to Dealers For replacements, contact Snap-On Business Solutions at (888) 542-1011
Kia SC141 Wax Application Hose	06700 10110	1		
Borescope Kit	1K545 4D200QQK	1		
Borescope Reflector	06700 10120	1		Included with Borescope Kit. Replacement, contact Snap-On Business Solutions at (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)

## AFFECTED VEHICLE PRODUCTION RANGE:

Model	Production Date Range
Sportage (SL)	2011~2014MY
Optima (TF)	2011~2014MY
Optima (TFE)	2011~2014MY
Optima (QF)	2012~2014MY
Forte / Forte Koup (TD)	2010~2013MY
Sorento (XM)	2011~2014MY



SUBJECT:

**APPLICATION OF ADDITIONAL ANTI-CORROSION MATERIAL (SC141)**

WARRANTY INFORMATION:  
**N CODE: N99 C CODE: C99**

Claim Type	Model	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
R	Sportage (SL)	54530 3S000	0	(SC141) Vehicle Underbody Wax & Undercoat Application (Photo attachment 'XX: Others' Required)	160131R0	0.9	UM090 CH041	1
							UM010 CH044	3
	Optima (TF)	54500 2T010			160132R0	0.9	UM090 CH041	1
							UM010 CH044	3
	Optima (TFE)	54500 4R000			160133R0	0.9	UM090 CH041	1
							UM010 CH044	3
	Optima (QF)	54500 3S200			160A41R0	0.9	UM090 CH041	1
							UM010 CH044	3
	Forte / Forte Koup (TD)	54500 1M100			160134R0	0.9	UM090 CH041	1
							UM010 CH044	3
	Sorento (XM)	54530 2B000			160A42R0	0.9	UM090 CH041	1
							UM010 CH044	3

**\* NOTICE**

All Warranty submissions for SC141 MUST be accompanied by images as outlined in warranty bulletin 2016-20. All dealers submitting this claim must use Photo Report Form WRTY146 when submitting for reimbursement.

**\* NOTICE**

All photo submissions for warranty submission must be made via document WRTY146. The Document can be found by visiting KDealer → Fixed Ops → Warranty → Warranty Forms

**KIA** Cavity Wax Under Body Photo Report

Dealer Code: \_\_\_\_\_ Dealer Name: \_\_\_\_\_ VIN: \_\_\_\_\_ Model: \_\_\_\_\_ RO#: \_\_\_\_\_ Date: \_\_\_\_\_

Photo #1 - Place cursor in the box below to paste a picture

Photo #2 - Place cursor in the box below to paste a picture

Photo #3 - Place cursor in the box below to paste a picture

Photo #4 - Place cursor in the box below to paste a picture

Photo #5

Photo #6

**\* 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.