

MODIFICATION INSTRUCTION

Mi No. 731-2759 (11281)	Date March 2012	9-2X
Distr. US, Canada		

Rust-proofing or replacement of transverse links

Product Safety Campaign 150 31 (11281)

Cars in stock must be rectified before delivery.

A personal communication must be sent to the owners of cars already delivered requesting them to get in touch with the nearest Saab garage as soon as possible to have the fault rectified.

Cars Affected

Saab 9-2X MY 2005 - 2006 within the following VIN range:

MY2005: JF4GG****5*050001 - JF4GG****5*058514

MY2006: JF4GG****6*050001 - JF4GG****6*051833

Note

Within the above Vehicle Identification Number range only vehicles which were originally sold or are currently registered in the 20 salt belt states plus D.C. and all provinces in Canada will be involved in the recall. The involved areas are:

MA, MD, MI, NH, NY, PA, VT, WI, CT, DE, IA, IL, IN, ME, MN, MO, NJ, OH, RI WV plus D.C. and all provinces in Canada.

Background:

The hanger bracket is exposed to salty and humid environments for a long period of time under road conditions containing snow melting agents.

Under the circumstances, corrosion will develop on the hanger bracket and the corrosion will become worse simultaneously by corrosion and clogging of the drain hole area, which will lead to progress of erosion and thickness reduction of hanger bracket from inside.

If the vehicle is driven after the front lower control arm deforms due to rust, the front lower control arm can break, resulting in loss of control of the vehicle and a possible collision.

Parts Required

FOR U.S. DEALERS:

Parts required to perform the inspection procedure in this bulletin will be preshipped to involved dealers. Details of the preshipments are below.

- **Punch Tester Tool - Part Number 0200526** - Preshipped to involved dealers from the Saab Warehouse Center beginning March 30, 2012. Dealers will only be charged for the cost to ship the tool.
- **3300 HSDR Pressure Pot Kit (Spray Applicator Gun) - Part Number 8001094** - Preshipped to involved dealers from Daubert Chemical beginning March 30, 2012. Shipped at no-charge.

Each kit Contains

- (2) Metal Pressure Bottles
 - (1) Spray Applicator Gun with Quick Coupler
 - (1) 360 Degree Flexible Spray Wand
 - (1) 90 Degree Handle Wand
 - (1) Pressure Pot Cap
 - (1) Air Regulator
- **SIA Rust Proofing Kit - Part Number 1798060** - Preshipped to involved dealers from Daubert Chemical beginning March 30, 2012. Shipped at no-charge

Each kit Contains (each kit will service 30 vehicles)

- (6) 29 Ounce Bottles of NOX-RUST X-210 (Penetrant) - each bottle will service 5 vehicles
- (6) 29 Ounce Bottles of NOX-RUST 7703-B (Wax) - each bottle will service 5 vehicles.

Replacement parts for the 3300 HSDR Pressure Pot Kit (Spray Applicator Gun) and additional SIA Rust Proofing Kits can be obtained online at www.daubertchemical.com. Click on the tab titled, "Store"; and then the tab titled, "Account". The username is "saabdealer", the password is "recall92x". Click on the tab titled, "Products", and then select "Saab Recall" in the Category section. Dealers will be charged for these items.

FOR CANADIAN DEALERS:

Parts required to perform the inspection procedure in this bulletin will be preshipped to all Saab servicing dealers. Details of the preshipments are below.

- **Punch Tester Tool - Part Number 0200526** - Preshipped to all Saab servicing dealers from the Saab Warehouse Center beginning March 30, 2012. Dealers will only be charged for the cost to ship the tool.
- **3300 HSDR Pressure Pot Kit (Spray Applicator Gun) - Part Number 8001094** - Preshipped to all Saab servicing dealers from GM of Canada beginning March 30, 2012.

Each kit Contains

- (2) Metal Pressure Bottles
- (1) Spray Applicator Gun with Quick Coupler
- (1) 360 Degree Flexible Spray Wand
- (1) 90 Degree Handle Wand
- (1) Pressure Pot Cap
- (1) Air Regulator

Replacement parts for the 3300 HSDR Pressure Pot Kit (Spray Applicator Gun) can be obtained online at www.daubertchemical.com. Click on the tab titled, "Store"; and then the tab titled, "Account". The username is "saabdealer", the password is "recall92x". Click on the tab titled, "Products", and then select "Saab Recall" in the Category section. Dealers will be charged for these items.

- **Saab 9-2X Rust Proofing Kit (Part Number 9-2X)** - Preshipped to involved dealers from Corrosion Control Coatings, LTD (800-934-7771) beginning March 30, 2012. Shipped at no-charge. An order form for additional SIA Rust Proofing Kits is attached to this bulletin. .

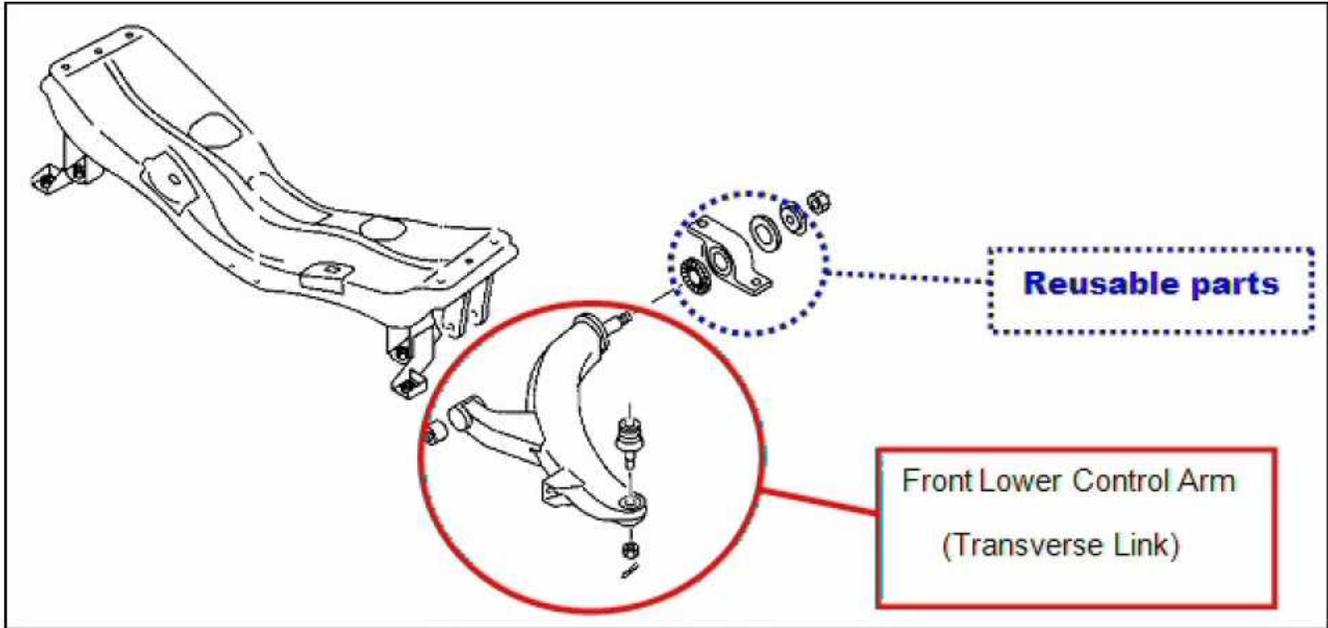
Each kit Contains (each kit will service 30 vehicles)

- (6) 29 Ounce Bottles of NOX-RUST X-210 (Penetrant) - each bottle will service 5 vehicles
 - (6) 29 Ounce Bottles of NOX-RUST 7703-B (Wax) - each bottle will service 5 vehicles.
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FOR ALL DEALERS:

If the inspection determines that replacement of the control arms is required, place an order for the Front Suspension Transverse Link Kit by completing an Additional Information Form and faxing it to the Saab Parts Warehouse at 610-366-6886. There should be a very low demand for Front Suspension Transverse Link kits. Do not order these kits unless vehicle has been inspected.

Spare part numbers of replacement part kits



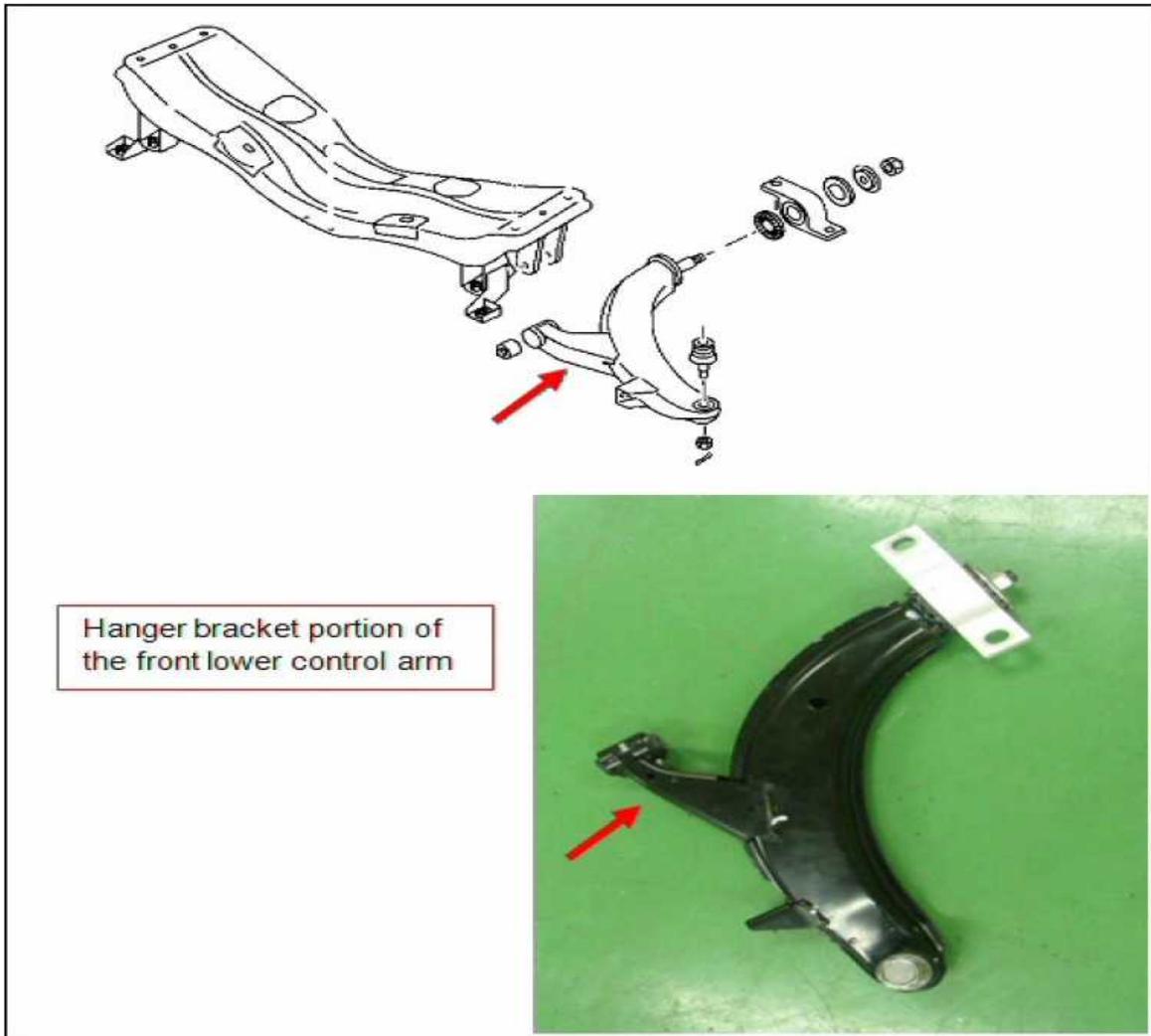
Description	Saab Part #
Front Suspension Transverse Link Kit	0200527
Each Kit Contains: 1-RH ARM SUB ASSY 1-LH ARM SUB ASSY 2-SELF LOCK NUT 2-SELF LOCK NUT 2-SELF LOCK NUT	

Necessary Tools and Supplies

- Respirator (NIOSH-Approved for organic vapor and mist)
 - Protective Gloves (Impervious - Viton, PVOH, etc)
 - Safety Glasses
 - Punch tester (pre-shipped to dealers)
 - Paper Clips
 - Measuring cup
 - Rags
 - Cotton Swabs
 - Oil Pan or Container
 - Flexible Magnet
 - Spray Gun with Attachments (pre-shipped to dealers)
 - Nox-Rust® 7703B Corrosion Preventive Wax
 - Nox-Rust® X-210 Corrosion Preventive Oil
 - Vehicle Lift
 - Compressor, hose and air nozzle
 - Air Impact Gun and Torque Stick
 - Small thin flexible ruler (mm)
 - Marker pen (to mark spray gun stop screw)
 - Tire marker pen or white touch-up paint (to mark control arms)
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Inspection Procedure

Front Lower Control Arm (Transverse Link)



The inspection will require checking for **rust perforation** of the right and left hanger bracket portion of the front lower control arms.

Appearance check and punch test is required on both sides. If either side fails the appearance check or punch test, both control arms will need to be replaced.



WARNING

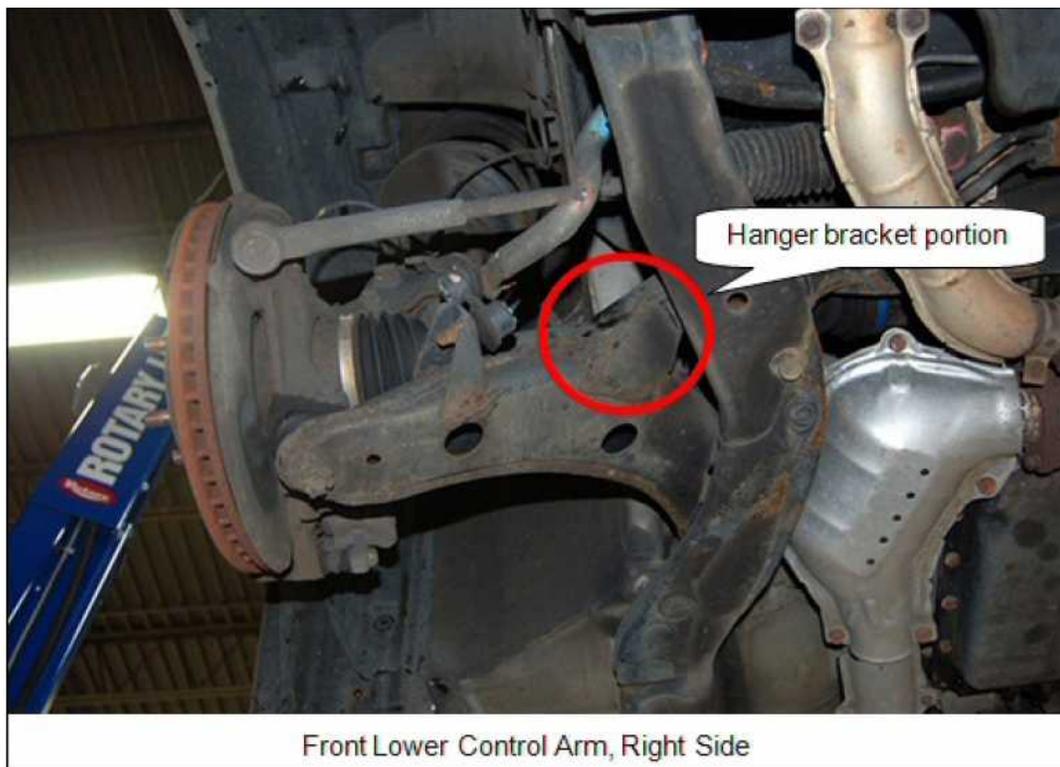
Wear proper eye protection

1. Raise vehicle on lift.

Note

Keep steering wheel unlocked

2. Remove the left and right front wheels.
3. Beginning on the right side of vehicle, visually inspect the hanger bracket portion of the control arm (top, sides and bottom) for any signs of rust perforation*.
 - If there are signs of rust perforation*, proceed with replacing both control arms.
 - If there are no signs of rust perforation*, proceed to the left side test.



4. Inspect the left side.
 - If there are signs of **rust perforation***, proceed with replacing both control arms
 - If there are no signs of rust perforation*, proceed with the punch test.

* Rusted Through

Punch Test

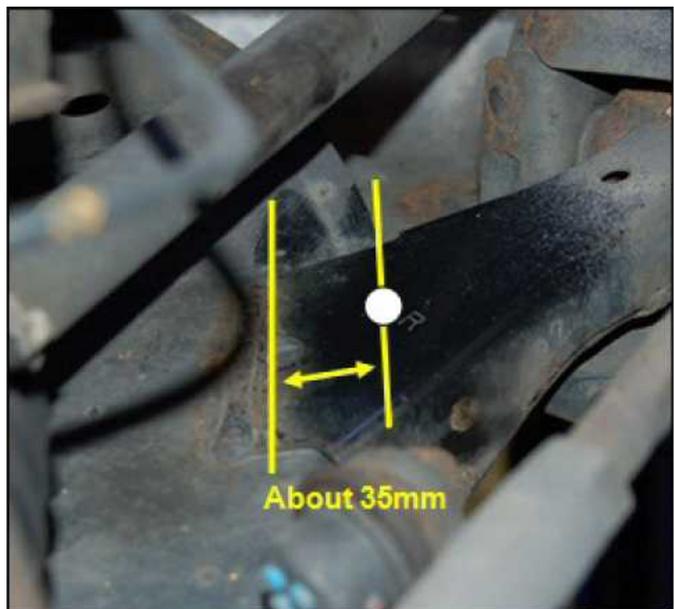
1. Starting on the right side, use a rag and remove any dirt, mud, surface rust or under coat from the top and bottom surfaces of the hanger bracket for measuring the location for punch testing.



2. Measure approximately 40mm from the weld to the center of the hanger bracket and make a mark.

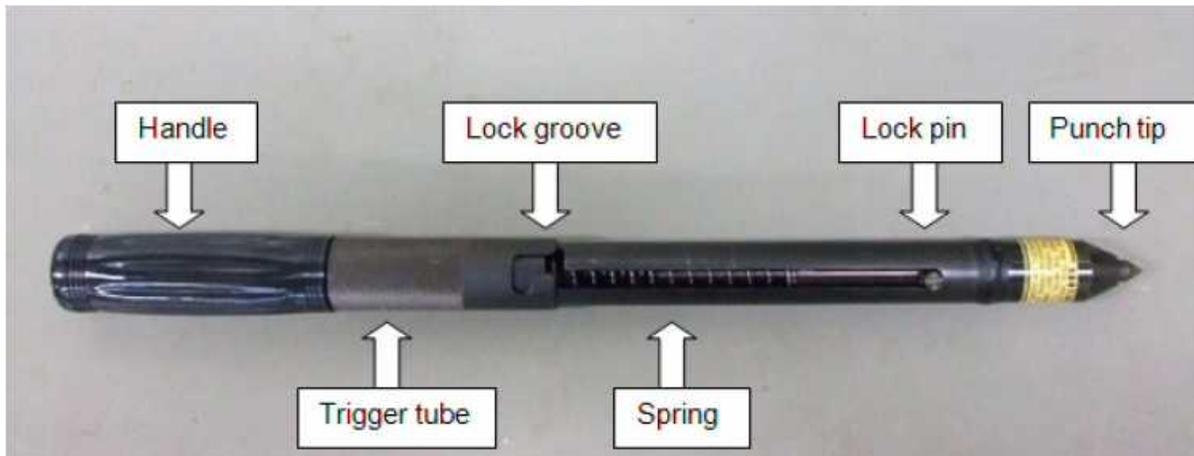


3. Next, measure the top surface. Measure approximately 35mm from the weld to the center of the hanger bracket and make a mark.



Right side, top

Prepare the Punch Tester



Important

Do not leave the lock pin of the punch tester set in the lock groove. It is not only dangerous but it will cause degradation of spring force and punching function.

Note

This tool should be used for punch test purposes only. Do not use it for other purposes.

1. Slide the trigger tube toward the punch tip and set the lock pin to the trigger tube.
2. Draw the trigger tube downward and set the lock pin to the lock groove.



3. Firmly set the tip of the punch tester vertically at the previously marked point. While pushing up, hold the handle and twist the trigger tube counterclockwise.



4. Firmly set the tip of the punch vertically at the previously marked point. While pushing down, hold the handle and twist the trigger tube counterclockwise.



5. Using a paper clip, insert it into the indentation made by the punch tester. Work the paper clip back and forth in an attempt to penetrate the metal. If the paper clip cannot be inserted, perform the procedure on the upper surface.
6. If the paper clip can be pushed through the metal, the arm is failed.
 - a. If the right side is failed, replace both control arms.
 - b. If no **rust perforation**, perform punch test on left side.
 - c. If the left side is failed, replace both control arms.
 - d. If both sides pass the visual and punch test, proceed with rust proofing.



Rust Proofing

Preparation of rust-proofing job



Be sure to wear protective goggles and mask.
Keep out the flammable during the work.

1. Insert a paper clip into the hanger bracket water drain hole and remove any rust particles and/or mud if clogged.



2. Insert a flexible magnet through the upper hole of the hanger bracket to remove any rust particles.
3. Perform the same procedure on the opposite side.



4. Wrap rags around the stabilizer link, exhaust pipe, front control bushings, ball joint, steering gear box boot and axle shaft boots. Do the same on the opposite side.



5. Position a suitable container under the control arm to catch any oil and wax during the application.



Spray Gun Preparation

This repair procedure involves cleaning and applying anti-rust material to the inside and outside of the front lower control arm (transverse links) hanger brackets.

Exposure Controls for use of Nox-Rust X-210 and 7703-B

Material Safety Data Sheets (MSDA) for these products are included in each product carton.

Respiratory Protection

NIOSH-approved respirator for organic vapor and mist to control exposure where ventilation is inadequate.

Ventilation

General and local exhaust.

Personal Protective Equipment

Protective Gloves: Impervious gloves (Viton, PVOH, etc.)

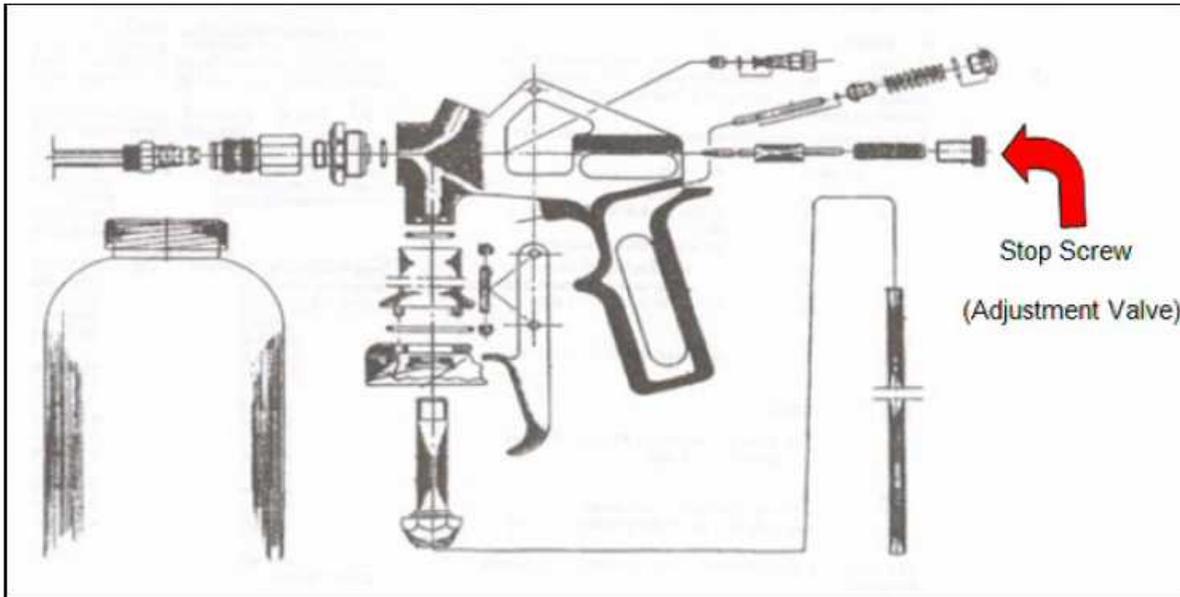
Eye Protection: Safety glasses with sideshields or chemical goggles

Other Protective Clothing or Equipment: If splashing is anticipated, wear rubber apron and boots or other protective equipment to minimize contact.

Note

Avoid prolonged skin contact.

Spray equipment operating instructions



The pressure pot is equipped with a valve to adjust the ration of product to air.

This valve will have to be adjusted in order to achieve to optimal spray pattern for each material.

Before filling the pot with Nox-Rust product, turn the stop screw clockwise to the fully closed position.

Use a marker pen or paint and make a mark at the 12:00 position. This line will be used to determine the number of turns needed for optimal spray pattern.

Settings for Nox-Rust® 7703B Corrosion Preventive Wax

When using the 360° flexible wand or 90° hook wand, turn the stop screw counterclockwise 1 turn from the fully closed position.

Set the air supply pressure to 60 psi.

Settings for Nox-Rust® X-210 Corrosion Preventive Penetrate

When using the 360° flexible wand, turn the stop screw counterclockwise 1 turn from the fully closed position. Set the air supply pressure 60 psi.

Gun Disassembly And Cleaning

6. Turn the stop screw clockwise to the fully closed position.
Blow the 360° flexible wand and 90° hook wand clear with air by pulling the spray gun trigger.
7. Disconnect the gun from the air supply.
8. Remove the spray tube using the quick disconnect.
9. Relieve the pressure from the gun by turning the paint pot to the left until all the air escapes.

***Do not use the gun trigger to relieve pressure from the pot.
This will cause the Nox-Rust product to flow into the air line
supply of the gun.***

If the gun is to be stored for more than 4 weeks, completely clean the gun with mineral spirits.

Always store the gun assembled.

Do not soak the 360° flexible wand or 90° hook wand in solvent.

Prolonged exposure to solvent will cause damage.

Spray gun nozzle adjustment

1. Close the spray gun stop screw to the fully closed position. Use a marker pen or paint and make a mark at the 12:00 position. Turn the stop screw counterclockwise one full turn.
2. Install the quick disconnect 360° flexible wand.

Amount of chemicals that will be used per vehicle

Nox-Rust X210 (anti-rust oil) 80 cc per side, 160cc per vehicle

Nox-Rust 7703-B (anti-rust wax) 46cc pre side, 92cc per vehicle

Add 160cc of Nox Rust X210 (Oil) to the spray gun pot.

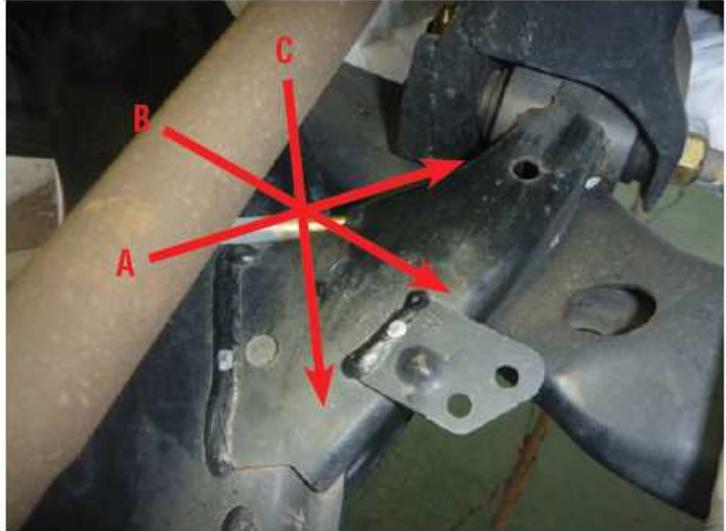
3. Attach air line to spray gun and adjust air pressure regulator to 60 PSI.

4. Test spray gun for proper operation, a rag and container should be used.



Nox-Rust X210 (anti-rust oil) application

The inside of the hanger bracket will be sprayed in 3 directions. For the first stop, oil will be used with the 360° flexible wand.



A) Insert the spray nozzle through the upper hole of the hanger bracket (insertion length: 75mm) until it contacts the front surface of the hanger bracket wall.

Pull the trigger of spray gun while holding the wand in position to confirm that oil leaks out of an opening in the hanger bracket. Pull out wand with a constant gradual speed while spraying for at least 4 seconds.



- B) Insert the spray nozzle with its tip facing down through the upper hole of hanger bracket (insertion length: 65mm) until it contacts the bottom surface of hanger bracket wall. Pull the trigger of spray gun while holding the wand in position to confirm that oil leaks out of an opening in the hanger bracket. Pull out wand with a constant gradual speed while spraying for at least 2 seconds.



- C) Insert the spray nozzle with its tip facing up through the upper hole of hanger bracket (insertion length: 72mm) until it contacts the top surface of hanger bracket wall. Pull the trigger of spray gun while holding the wand in position to confirm that oil leaks out of an opening in the hanger bracket. Pull out wand with a constant gradual speed and spray for at least 2 seconds.



Perform same procedure on opposite side of vehicle.

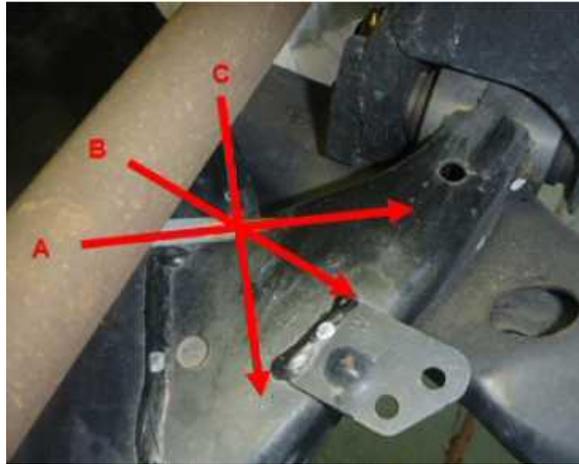
Nox-Rust 7703-B (anti-rust wax) application inside of hanger bracket

The inside of the hanger bracket will be sprayed in 3 directions. For this step, wax will be sprayed using the 360° wand.

Note

To release pressure from spray gun, slowly turn pot counterclockwise.

- Remove pot from spray gun and cap pot.
- Using the other pot supplied, add 92cc of Nox-Rust 7703-B to the spray gun pot.
- Set the air pressure regulator to 60 PSI.



- A) Insert the spray nozzle through the upper hole of the hanger bracket (insertion length: 75mm) until it contacts the front surface of hanger bracket wall. Pull the trigger of spray gun while holding the wand in position to confirm that wax leaks out of an opening in the hanger bracket. Pull out wand with a constant gradual speed and spray for at least 2 seconds.



- B) Insert the spray nozzle with its tip facing down through the upper hole of the hanger bracket (insertion length: 65mm) until it contacts the bottom surface of hanger bracket wall. Pull the trigger of spray gun while holding the wand in position to confirm that wax leaks out of an opening in the hanger bracket. Pull out wand with a constant gradual speed and spray for at least 1 second.



- C) Insert the spray nozzle with its tip facing up through the upper hole of the hanger bracket (insertion length: 72mm) until it contacts the top surface of hanger bracket wall. Pull the trigger of spray gun while holding the wand in position for 2 seconds; confirm that wax leaks out of an opening in the hanger bracket. Pull out wand with a constant gradual speed and spray for at least 1 second.



Perform same procedure on opposite side of vehicle.

Nox-Rust 7703-B (anti-rust wax) application outer surface of hanger bracket

1. Remove the 360° flexible wand and install the 90° hook wand.
2. Adjust air pressure regulator to 60 PSI.
3. Spray anti-rust wax to the surface of the hanger bracket only, top sides and bottom.



4. Remove rust-proofing wax from drain hole of hanger bracket using a cotton swab.



5. Perform continuously until it can be confirmed that the hole is not clogged.
6. Perform the procedure on the opposite side.



Replacement of Front Lower Control Arms

Reuse the original rear bush which is not contained in the parts kit.

Use 3 new self-lock nuts below, which are contained in the parts kit. (They are not reusable.)

- for rear bush installation
- for fixing front arm and cross member
- for fixing stabilizer link and front arm



Note

Refer to "Front Transverse Link" of Saab Service Manual for removal and reinstallation of rear bush.

Note

Install rear bush and front arm in the same angle as the original state before replacement.

Put a mark on rear bush, at which it is aligned with front arm flange. When rear bush is reinstalled to a new front arm, align the rear bush mark with the front arm flange.

Warranty Transaction Information

Submit a transaction using the table below. Saab dealers, not affiliated with General Motors must process these claims through their affiliated GM dealer per regular warranty procedures.

Labor Code	Description	Net Item (Misc Column)
V2538	Check and Anti-Corrosion Treatment of Front Arms	*
V2539	Replacement of Front Arms (including Check)	**
V2540	One Time Shipping Charge for the Punch Tool	***
V2561	Customer Reimbursement - For Canada & US CAC Use Only	****

- * The amount identified in Net Item (Misc column) should be the sum total of the actual cost of the rust proofing chemicals needed to perform the repair, not to exceed \$8.96 (USD), \$8.69 (CAD), plus the cost of labor (0.4 hours) required to perform the repair.
- ** The amount identified in Net Item (Misc column) should be the sum total of the actual shipping charges for the Front Suspension Transverse Link Kit (kit provided at no charge), the applicable markup on \$109 for the kit, and the cost of labor (1.2 hours) required to perform the repair.
- *** The amount identified in Net Item (Misc column) should be the actual cost for the punch tool and shipment. **This is a one-time charge.**
- **** The amount identified in Net Item (Misc column) should represent the dollar amount reimbursed to the customer.

Customer Reimbursement - U.S.

All customer requests for reimbursement for previous repairs for this condition will be handled by the Customer Assistance Center, not by dealers.

A reimbursement Claim Form is included with the customer letter.

Customer Reimbursement - Canada

Customer requests for reimbursement of previously paid repairs to correct the condition described in this bulletin are to be submitted to the dealer prior to or by April 30, 2013.

When a customer requests reimbursement, they must provide the following:

- Proof of ownership at time of repair.
- Original paid receipt confirming the amount of unreimbursed repair expense(s) (including Service Contract deductibles), a description of the repair, and the person or entity performing the repair.

If the work was done by someone other than a Saab dealership, the amount of reimbursement will be limited to the amount that the repair would have cost Saab to have it completed by a Saab dealership.

SAAB 9-2X RECALL COATING KIT ORDER FORM
(CANADA DEALERS ONLY)
(PART NUMBER 9-2X)

Address: 	Bill To: <u>Saab Dealership Placing Order</u>	Ship To: _____ Dealer #: _____ (Must Supply) _____ _____ _____ Contact Name: _____	
Phone: _____	Fax: _____	Phone: _____	Fax: _____
Number of 9-2X Kits Required _____		Cost per Kit <u>\$260.71 + applicable tax</u>	
Order Desk Information: 106 Colborne Street Walkerton, Ontario N0G 2V0 Phone: 1-800-934-7771 or 1-519-881-1594 Fax: 1-800-563-8078 or 1-519-881-2309 E-Mail: lpegelo@cc-coatings.com alenka.johnson@cc-coatings.com		Head Office: (Please send payment to this location) PO Box 430 Station A Scarborough, Ontario M1K 5C3 Phone: 905-889-5390 Fax: 905-889-8401	
Special Notes:			
Confirmation: (CC Use Only)	Ship Date: _____ Rec'd By: _____		