



TO: ALL TOYOTA DEALER PRINCIPALS, SERVICE MANAGERS AND PARTS MANAGERS

DATE: 2009

RE: Information Packet for LSC 90D

LSC 90D - LIMITED SERVICE CAMPAIGN FOR
2001 - 2004 MODEL YEAR TACOMAS

**MINNESOTA DEALER INFORMATION PACKET
FOR WISCONSIN DEALERS**

This bound volume contains two parts of the Minnesota Dealer Information Packet for Wisconsin Dealers—the **Getting Started Guide** and the **Guide to Federal, State and Local Requirements**. The third part—the **Technical Instructions**—has been provided separately.

Note: This Dealer Information Packet contains compliance information for Wisconsin dealers that are conducting the LSC, or having the LSC conducted, at a location in **Minnesota**. Wisconsin Dealers conducting the LSC at a location in Wisconsin should consult the Wisconsin Dealer information Packet. Please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) for more information.

To: Wisconsin Dealer Principals and Service Managers

Date: October 2009

RE: Limited Service Campaign (LSC) 90D

Enclosed, please find information required to initiate LSC 90D in your geographic area:

- **State Specific** Dealer Information Packet (*Please follow these instructions prior to starting the LSC*).
- LSC 90D Technical Instructions

In addition to the above, the **Service Manager Package** also includes the following:

- Dealership Specific VIN List
- Laminated Corrosion-Preventative Compound Operation Summary
- LSC 90D Dealership Readiness Tool Guidelines (see note on page 2 for Spray Gun order instructions)
- LSC 90D Binder Tab
- Customer Information Card, MDC #00411-09001 (200 pieces*) to leave with the vehicle following application of the Corrosion-Prevention Compound
**Additional Cards are available through the MDC*

Your Parts Manager will receive only the following:

- Technical Instructions; this includes ordering information for the Corrosion-Prevention Compound Kit (P/N 00289-00KIT-DS). Please note that these kits will take four business days for delivery.
- Dealership Specific VIN List
- LSC 90D Binder Tab

IMPORTANT: Your dealership will be contacted by an EH&S Specialist from KPA, LLC to conduct an LSC readiness survey and help guide you through facility preparations. To avoid unnecessary delays, please do the following:

- Prepare for your KPA readiness survey: review the readiness questionnaire at <http://cleandealer.com> (follow the link to LSC 90D) and conduct advance research as necessary. The Service Manager and/or dealership EH&S Coordinator should be prepared to respond to survey questions when the KPA Specialist calls.
- Read the detailed dealer package immediately: read the entire package carefully paying special note to permitting requirements and associated forms.
- Complete all required forms: DO NOT contact any agency regarding the LSC until you have done this.

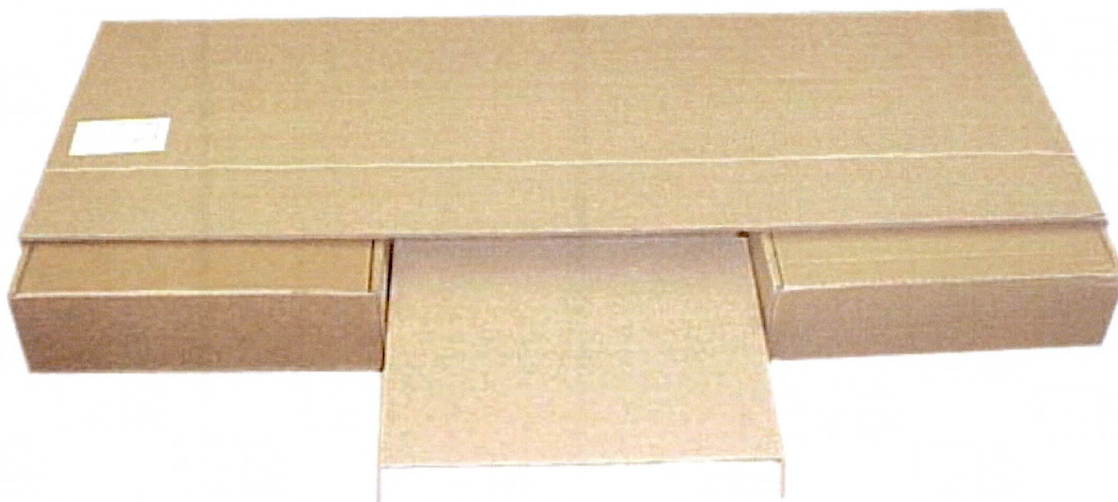
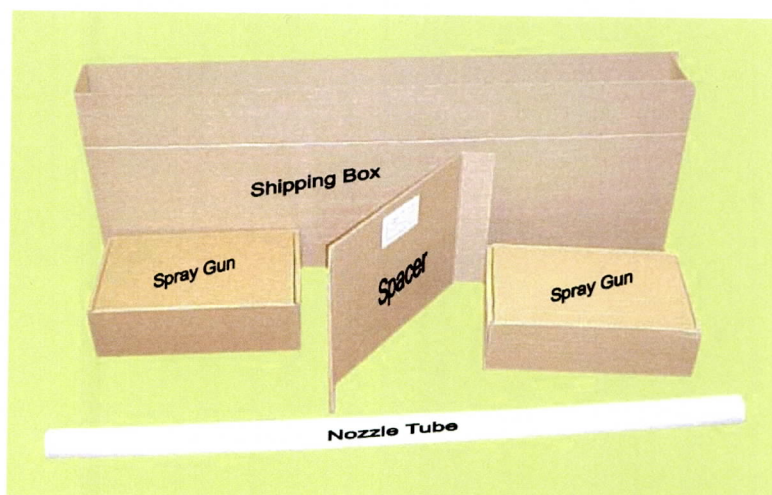
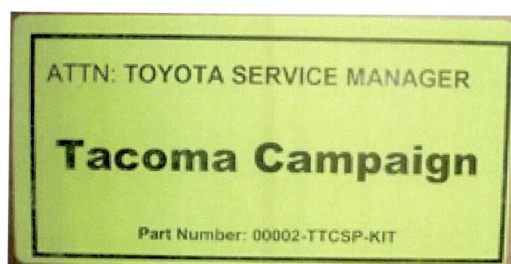
Please give the KPA EH&S Specialist the same courtesy you give your TMS Region representatives. If you have any questions, please contact your Region or the LSC EH&S hotline at (877) 572 4347.

Thank you for your cooperation in this important Limited Service Campaign.

Toyota Motor Sales, U.S.A., Inc.

NOTE: A web-based LSC 90D Dealership Readiness Tool is now available for your use at <http://cleandealer.com> (follow the LSC 90D link). Special Equipment (Spray Gun) Kits will ship automatically as soon as your "Readiness Status" as reflected by your "Readiness Dashboard" shows 100% completion in all preparation areas. **Special Equipment (Spray Gun) Kits will not be shipped until your "Readiness Status" reflected by your "Readiness Dashboard" shows 100%. Please see attached instructions.**

When received, the Special Equipment (Spray Gun) Kit package will have a fluorescent (green, yellow or pink) label as seen below for easy identification.

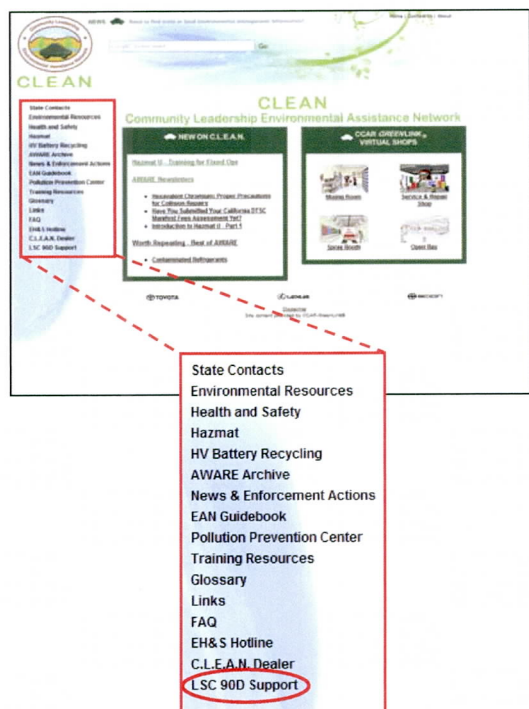




Toyota Motor Sales, U.S.A., Inc.
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(310) 468-4000

Important Information – LSC 90D Dealer Readiness Tool

A web-based LSC readiness tool is now available for your use at <http://cleandealer.com>. You cannot begin LSC services until your “Readiness Status” as reflected by your “Readiness Dashboard” shows 100% completion in all preparation areas. KPA will help you get started with this process when they call to conduct your readiness survey. It is your responsibility to complete your preparations for the LSC and update your “Readiness Dashboard”. **Special Equipment Kits (spray gun kits) will be automatically shipped when your “Readiness Status” reflected by your “Readiness Dashboard” shows 100%.**



1. GO TO THE C.L.E.A.N. DEALER WEBSITE & OPEN THE LSC 90D SUPPORT PAGE

- Enter <http://cleandealer.com> into the URL.
- Click on the “LSC 90D Support” link located on the lower left corner of the webpage.



2. LOG INTO THE LSC 90D SUPPORT WEBSITE

- Enter your Dealership Code and Zip Code.
- Click on the “Login” button.

3. READ AND ACCEPT THE TERMS AND CONDITIONS FOR USING THIS DATABASE

- Read the Terms and Conditions.
- *Accept the Terms and Conditions by clicking on the box labeled, "By ticking this box you agree to above policy".
- After marking the box, click the "Accept Terms" button.

***If you have questions or concerns about accepting these terms and conditions, please call the LSC 90D support hotline at 877-KPA4EHS (877-572-4347). In most cases the Terms and Conditions will only need to be accepted during the initial sign in.**

4. COMPLETE THE READINESS SURVEY

- Click on the "Continue to Survey" link located on the "Readiness Dashboard" page.

Note:

- Additional information can be obtained by using the links outlined below:

1	View your "Readiness Status". Special Equipment Kits (spray gun kits) will be <u>automatically</u> shipped when your "Readiness Status" shows "Complete 100%" .
2	Submit questions relating to the 90D Readiness Survey. These questions are reviewed and answered by LSC 90D Specialists. You can generally expect a response within one business day.
3	Review posted documents. Some of these documents may include: <ul style="list-style-type: none"> The Dealer Information Packet Model Fire Official Letter MSDS for both the 712AM and the X128T Website instructions Other useful documents needed to perform this LSC.

- When you first begin the survey a box will appear in the lower right corner of the screen. Before proceeding you will need to provide the **LSC Program Manager's information:
 - First Name
 - Last Name
 - Job Title
 - Phone Number and Extension (Optional)
 - Email address (Optional)

****The LSC Program Manager is the dealership associate coordinating preparations for this Limited Service Campaign. In most cases this will be the Service Manager. This information will only need to be submitted during the initial sign in.**

- c) Fill in the survey. **Each time your dealership's status changes make sure to update the survey and click "Save Changes".**

The screenshot shows the 'LSC 90D Dealer Readiness Survey' interface. It includes a sidebar with navigation links, a user information box, a current status box, and a main questionnaire area with multiple-choice questions and 'Add/View Comments' buttons. A 'Save Changes' button is located at the top right and bottom right of the questionnaire. Red arrows and numbers 1 through 8 point to specific elements: 1 points to the 'Return to My Dashboard' link; 2 points to the user information box; 3 points to the current status box; 4 points to the questionnaire questions; 5 points to the 'Save Changes' button at the top right; 6 points to a help bubble; 7 points to an 'Add/View Comments' button; and 8 points to the service help number at the bottom.

1	"Return to My Dashboard Link" – This link returns the user to the "Readiness Dashboard".
2	"User Information Box" – This box populates with the data that was entered in step 4b. It also inserts a timestamp for when the 90D Readiness Survey was first started.
3	"Current Status Box" – This box indicates the preparation completed by the dealership. Special Equipment Kits (spray gun kits) will be <u>automatically</u> shipped when this box indicates all the overall preparations are complete.
4	"Survey Questionnaire" – The information provided in this section indicates the preparation level for each dealership.
5	"Save Changes" – When finished updating the information on the survey, click the Save Changes button before exiting the screen or the updated information will be lost.
6	"Help Bubble" – This help tool provides additional clarification for each question on the 90D Readiness Survey.
7	"Add/View Comments" – By clicking on this button comments/notes can be added and reviewed.
8	"Service Help Number" – If you need additional information please call the number shown here.



LSC 90D - LIMITED SERVICE CAMPAIGN 2001 - 2004 MODEL YEAR TACOMA FRAME CORROSION-PREVENTATIVE COMPOUND TECHNICAL INSTRUCTIONS

Please review this entire information packet with your Service and Parts staff. This will familiarize them with the proper step-by-step procedures required to implement this LSC.

INTRODUCTION

Toyota will initiate a Limited Service Campaign (LSC) 90D to inspect and apply a Corrosion-Preventative Compound (specialized protective sealant) to the frames of certain 2001 through 2004 model year Tacoma vehicles **WITHOUT RUST CORROSION PERFORATION** that are registered in the following states and the District of Columbia:

CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI, and WV

Toyota has received reports that a small number of 2001 through 2004 model year Tacoma vehicles operated in severe cold climate areas with high road salt use exhibited excessive rust corrosion to the frame, causing perforation of the metal. Toyota investigated these reports and determined that the frames in this small number of vehicles may not have adequate corrosion-resistant protection for use in this environment. This combined with prolonged exposure to road salts and other environmental factors may contribute to the development of excessive rust corrosion in the frames of some vehicles. This condition is unrelated to and separate from normal surface rust which is commonly found on metallic surfaces after some years of usage and/or exposure to the environment.

If the customer's vehicle is registered in AK, AL, AR, AZ, CA, CO, FL, GA, HI, IA, ID, KS, MT, LA, MO, MS, NC, ND, NE, NM, NV, OK, OR, SC, SD, TN, TX, UT, WA, WY and the U.S. Territories, the customer will **not** need to do anything at this time. If the customer moves to an area in which the vehicle may experience prolonged exposure to road salts and other environmental factors, they will need to contact any Toyota dealer and make arrangements to have the vehicle inspected and, if appropriate, the specialized protective sealant applied.

OWNER NOTIFICATION

The owner notification will commence as soon as the LSC 90D Readiness website indicates dealers in a given area are prepared to perform the LSC. Each dealer will be contacted and provided a packet outlining the individual regulatory requirements in their state prior to starting the Corrosion-Preventative Compound application.

Dealers should apply the specialized protective sealant as outlined in the Technical Instructions section. ***The application should only be performed for vehicles that are registered in the states affected by the LSC and have no signs of rust corrosion perforation.***

Please note that only owners of the affected vehicles will be notified. If a dealer is contacted by an owner of an affected vehicle, who has not yet received a notification, please ***verify eligibility for the LSC by confirming through Dealer Daily/TIS.***

DEALER/OWNER LISTS

Affected vehicle VIN lists (VIN only, due to changes in Privacy Laws) for the LSC have been distributed to each dealership's Service and Parts Managers. These lists are based upon the dealership's Primary Marketing Area (PMA) or selling dealership where applicable. Based upon our records, a dealership which does not have an affected vehicle in their PMA will receive a report indicating so.

APPLICABILITY PERIOD

This LSC will be available at no cost to the vehicle owners until **October 31, 2010**. All terms of the affected vehicle's Toyota Basic Warranty will remain intact regardless of whether or not the customer takes advantage of the LSC.

AFFECTED VEHICLES

There are approximately **145,000** Tacoma (2001 through 2004 model year) vehicles covered by this LSC. For the affected VIN range, reference the Technical Instructions (TI) section.

Please note that as the regulatory challenges are addressed only owners of the affected vehicles registered in that specific state will be notified. VINs for that specific state will be loaded simultaneously. If a dealer is contacted by an owner of an affected vehicle, who has not yet received a notification, please **verify eligibility for the LSC by confirming through Dealer Daily/TIS**.

A UIO State Matrix is listed to inform dealers of the number of vehicles in their state by model year.

STATE	2001	2002	2003	2004	TOTAL
CT	1,411	1,411	1,378	1,390	5,590
DC	62	73	78	69	282
DE	252	296	298	318	1,164
IL	1,643	1,537	1,385	1,481	6,046
IN	1,142	991	938	887	3,958
KY	2,242	2,124	1,875	1,559	7,800
MA	3,131	3,279	3,496	3,708	13,614
MD	2,543	2,812	2,795	2,869	11,019
ME	881	925	878	1,032	3,716
MI	861	853	798	689	3,201
MN	899	839	707	699	3,144
NH	1,232	1,373	1,331	1,328	5,264
NJ	2,174	2,180	2,259	2,089	8,702
NY	2,960	3,012	3,079	3,249	12,300
OH	2,483	2,339	2,188	2,296	9,306
PA	3,588	3,991	3,751	3,985	15,315
RI	579	596	585	597	2,357
VA	4,750	5,216	5,329	5,489	20,784
VT	772	854	849	952	3,427
WI	1,175	917	858	880	3,830
WV	1,596	1,345	1,225	1,243	5,409
Total	36,376	36,963	36,080	36,809	146,228

MATERIAL ORDERING

Since not all states are included in the LSC, the Corrosion-Preventative Compound materials will be placed on Manual Allocation Control (MAC).

While the materials are on MAC, a representative from TMS Quality Compliance will review each order and contact the dealership's Parts Manager to verify the necessity of the order. This will ensure an adequate and balanced material inventory.

If there are **special** circumstances where a dealer is having difficulty receiving its materials, dealership associates may contact (310) 468-5516 to research their order. The associate should have the following information ready to expedite research of the order status:

- Dealer Information (Dealer Code, Contact Name, Telephone Number)
- Order Reference Number
- Customer Name and Vehicle 17-digit VIN

The necessary materials can be ordered through the parts system on Dealer Tire. They will be shipped directly from AMREP. Please refer to the Technical Instructions section for part number information. Please note that only dealers in the Severe Cold Climate States will be able to order Corrosion-Preventative Compound materials once the regulatory challenges in the state are addressed.

- Do not order more than your immediate needs. **THESE MATERIALS ARE NOT FOR RETAIL SALE AND ARE ONLY INTENDED FOR USE AS PART OF THE LSC.** Ensure that the Corrosion-Preventative Compound is stored at room temperature (please refer to the MSDS located in the Appendix).
- The material part number will be drop-shipped from AMREP to your dealer. Please note that deliveries are only scheduled on business days. Saturday deliveries are not available. Allow 5 business days for order processing and shipping of the material to your dealership.

The Corrosion-Preventative Compound will entail sealing the frame with two different Nox-Rust® products. The Nox-Rust® 712AM, a paraffin wax based product, will be applied inside the frame. The Nox-Rust® X-128T, a mineral spirits based wax product, will be applied to the external surfaces. (Do not use the Nox-Rust® name and trademarks without the prior written consent of Daubert Chemicals Company Inc. and Toyota Motor Sales, U.S.A., Inc.)

BEFORE YOU START

Three types of legal requirements apply to the LSC: (1) air pollution control laws; (2) building, zoning and fire codes; and (3) regulated waste requirements. The Getting Started Guide and the Federal, State and Local Requirements Guide review these legal requirements, provide step-by-step instructions for how to comply, and include forms to create and maintain compliance records. These Guides assume that you will conduct the LSC in the vehicle service area of your dealership. Please refer to the Getting Started Guide and the Guide to Federal, State and Local Requirements that accompany these Technical Instructions for information about how to conduct the LSC consistent with these different legal requirements.

Most dealerships should be able to meet the necessary requirements within two weeks of receiving this package. An LSC 90D Readiness Survey (<http://cleandealer.com>*) has been created to help track each dealership's preparation. Toyota's business partner, KPA, will be contacting each dealership to provide additional assistance. ***Once the LSC 90D Readiness Survey indicates a dealership has met all the necessary requirements, a Special Equipment Kit (spray gun kit) will automatically be mailed to that facility at no charge.***

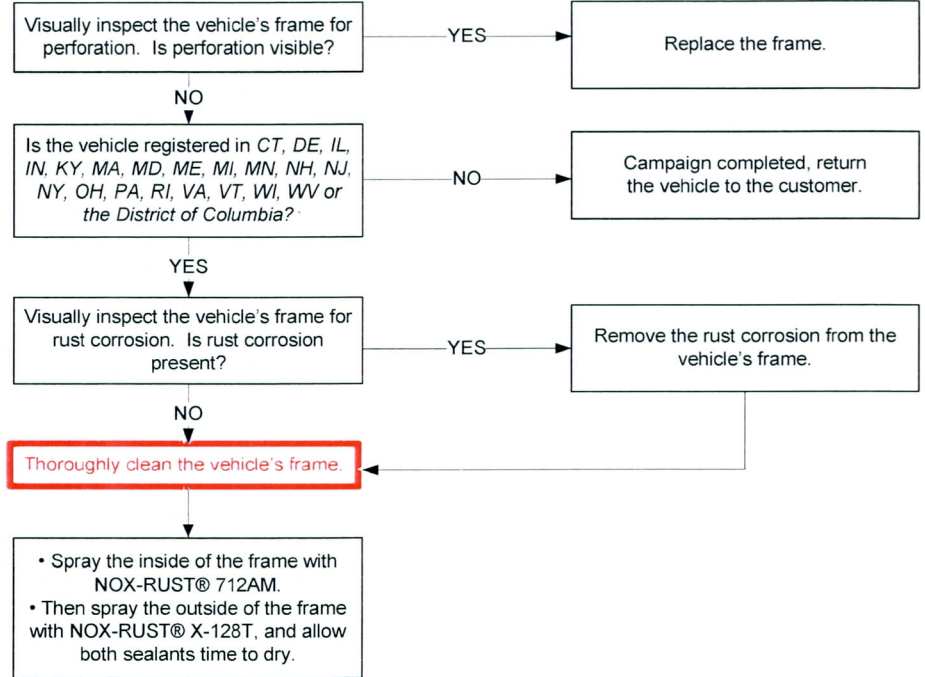
*Follow the LSC 90D Support link located in the left bottom corner of the webpage.

Please note, before starting this LSC all dealer associates involved with this LSC must be properly trained using the Dealer Information Packet, Laminated Corrosion-Preventative Compound Operation Summary and these Technical Instruction. Training should be documented in the associate training log.

WARRANTY PROCESSOR INSTRUCTIONS

Please note the following for this LSC:

- This LSC expires on **October 31, 2010**.
- Only vehicles registered in CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI, WV or the District of Columbia are eligible for the application of the Corrosion-Preventative Compound.



Operation Codes:

This activity represents a unique combination of a CSP and a LSC. Therefore a **CSP claim and a LSC claim** will need to be filed for each Corrosion-Preventative Compound Application. Use the correct LSC or CSP designation when filing Operation Codes (see left hand side of table below):

CSP	Op. Code	Description	Flat Rate Hour
ZTH	8630J1	Inspect Frame For Rust Perforation (No Perforation Found)	0.6 Hr/Veh
Note: The flat rate time for Operation Code 8630J1 includes 0.1 hour for campaign administrative cost per unit for the dealership.			

And the following Op. Codes

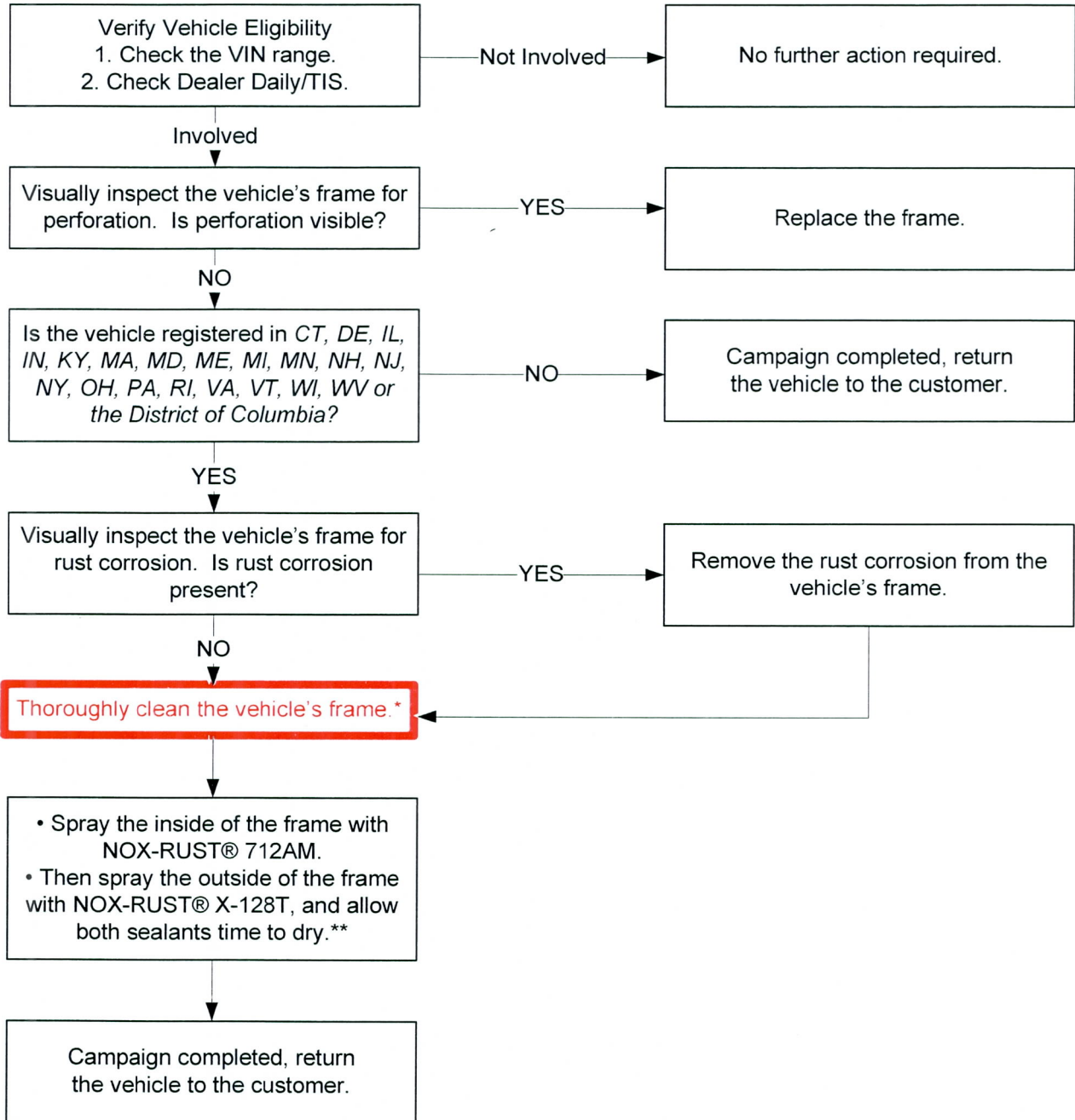
LSC	Op. Code	Description	Flat Rate Hour
90D	8630JM	Apply Corrosion-Preventative Compound By Dealer	3.6 Hr/Veh

Allowable Sublets for LSC 90D Claims:

- **Rental Car:** Use "RT" sublet type for Op. Code 8630JM. During the Corrosion-Preventative Compound application, customer rental car through the Toyota Rent-A-Car (TRAC) Program is available for a maximum of 3 days. Follow the Toyota Transportation Assistance Program (TTAP) guidelines.
- **Materials/Supplies:** Use "YA" sublet type for Op. Code 8630JM. A max. \$36/vehicle cost for LSC prep and application materials/supplies (fire-retardant poly sheeting (tarp), masks, tape, gloves, partition, waste disposal, etc.) will be accepted.

TECHNICAL INSTRUCTIONS

I. OPERATION FLOW CHART



***Note:**

Due to the flash point of the NOX-RUST® materials, allow sufficient time for the vehicle (i.e., the exhaust system) to cool down before beginning the chemical application. By following the FRAME APPLICATION WORK PROCEDURE the vehicle will have additional time to cool before the NOX-RUST® is applied. Please refer to the MSDS for flash point temperatures.

****Note:**

- Keep records to comply with Federal/State/Local regulations and requirements. See the Federal, State and Local Requirements Guide that accompanied these instructions.

II. IDENTIFICATION OF AFFECTED VEHICLES

A. AFFECTED VIN RANGE

NOTE:

Vehicles registered in following states are affected: *CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI, WV or the District of Columbia*

Model	WMI	Year	VIN Range	
			VDS	Range
TACOMA	5TE	2001	GM92N	Z727245 – Z880431
			GN92N	Z726201 – Z880433
			HN72N	Z726498 – Z880444
			NL42N	Z718168 – Z880440
			NM92N	Z718261 – Z880427
			PM62N	Z718416 – Z880351
			SM92N	Z718295 – Z880439
			SN92N	Z718166 – Z880436
			VL52N	Z718280 – Z880441
			VN52N	Z718355 – Z879914
			WM72N	Z718164 – Z880443
			WN72N	Z718395 – Z880438
		2002	GM92N	Z000001 – Z899998
			GN92N	Z000190 – Z899894
			HN72N	Z000002 – Z899999
			NL42N	Z000006 – Z899978
			NM92N	Z000233 – Z899936
			PM62N	Z000022 – Z899995
			SM92N	Z000245 – Z899972
			SN92N	Z000012 – Z899646
			VL52N	Z000013 – Z899990
			VN52N	Z000017 – Z898219
			WM72N	Z000058 – Z899904
			WN72N	Z000019 – Z899885
		2003	GM92N	Z145585 – Z305459
			GN92N	Z145318 – Z305507
			HN72N	Z145460 – Z305500
			NL42N	Z145319 – Z305504
			NM92N	Z145535 – Z305379
			PM62N	Z145471 – Z305481
			SM92N	Z145555 – Z305506
			SN92N	Z145622 – Z305491
			VL52N	Z145395 – Z305505
			VN52N	Z145797 – Z304523
			WM72N	Z145487 – Z305493
			WN72N	Z145316 – Z305501

AFFECTED VIN RANGE CONTINUED...

NOTE:

Vehicles registered in following states are affected: *CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI, WV or the District of Columbia*

Model	WMI	Year	VIN Range	
			VDS	Range
TACOMA	5TE	2004	GM92N	Z305895 – Z466734
			GN92N	Z305509 – Z466774
			HN72N	Z305686 – Z466778
			NL42N	Z305510 – Z466783
			NM92N	Z305853 – Z466785
			PM62N	Z305763 – Z466764
			SM92N	Z305863 – Z466748
			SN92N	Z305944 – Z466746
			VL52N	Z305639 – Z466782
			VN52N	Z306177 – Z454172
			WM72N	Z305789 – Z466757
			WN72N	Z305508 – Z466784

NOTE:

- Check Dealer Daily/TIS to confirm the VIN is involved in this LSC. This will verify the vehicle is affected and has not already been completed prior to dealer shipment or by another dealer.
- TMS warranty will not reimburse dealers for repairs conducted on vehicles that are not affected or were completed by another dealer.

III. PREPARATION

A. PARTS

Please be aware that only dealers in CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI, WV, or the District of Columbia will be allowed to order kits for the Corrosion-Preventative Compound.

The necessary kits can be ordered through the Complete Maintenance Care. They will be shipped directly from AMREP. Please refer to the table below and the Technical Instructions for part number information. Dealers should not order chemicals if they do not have any vehicles listed on their dealer reports, or until they have confirmed owner appointment. However, please keep in mind it will take at least 4 business days for kit delivery.

Part Number	Part Description	Quantity
00289-00KIT-DS	Corrosion-Preventative Compound Kit	1
The kit listed above includes the following parts: <ul style="list-style-type: none">• NOX-RUST® 712AM = Internal Frame Application = Qty 2 Liters• NOX-RUST® X-128T = External Frame Application = Qty 3 Liters• These materials are intended for use at dealerships and body shops only. They are not for resale		

1. When Ordering the Corrosion-Preventative Compound kit please note:
 - Refer to the Appendix for the Material Safety Data Sheet (MSDS).
 - The Corrosion-Preventative Compound Kit listed will be drop-shipped from AMREP, not your local PDC. Do not order more than your immediate needs, as these materials are non-returnable and non-refundable.
 - Orders for this kit should be placed separately from orders of other drop ship chemicals.
2. When Storing the Corrosion-Preventative Compound kits please note:
 - Please follow local, state and federal regulations for hazardous materials storage and disposal that are explained in the Regulated Waste Management Section of the Federal, State and Local Requirements Guide.
 - Ensure that the materials are stored at room temperature (refer to the MSDS for detailed instructions).

The plugs for the frame holes can be ordered through the dealer's facing PDC. Please refer to the table below for part number information. Dealers should not order parts if they do not have any vehicles listed on their dealer reports, or until they have confirmed owner appointment.

Part Number	Part Description	Quantity
90950-01539	Hole Plug	2

B. SUPPORT MATERIALS

Part Number	Part Description	Quantity
00411-08002	LSC 90D Laminated Flowchart (Included in each Service Manager Package)*	1
00411-09001	Corrosion-Preventative Compound Information Hang Tag (A quantity of 200 are included in each Service Manager Package)**	1

* Additional LSC 90D Laminated Flowcharts can be ordered through the MDC.

**Additional Corrosion-Preventative Compound Customer Information Hang Tags can be ordered in packages of 50 through the MDC.

C. STANDARD TOOLS & EQUIPMENT

- Standard hand tools
- Flat chisel
- Scraper
- Wire brush
- Air nozzle
- Thermometer
- Air coupler (quantity 2)

SPECIAL EQUIPMENT KIT*

The items below have been pre-packaged as a kit, and will be provided at no charge **ONLY** to dealers in the affected states who are involved in this activity and whose 90D Readiness Survey indicates all the necessary requirements have been met. This pre-packaged kit includes a 6 mm internal spray nozzle that will not be used at this time; please **DO NOT** discard it.

- Spray Gun with pressure regulator (quantity = 2) (Each spray gun is the same; please dedicate one for internal and the other for external frame application.)
- External spray nozzle (to be used on the outside of the frame)
- 8 mm internal spray nozzle (to be used on the inside of the frame)
- 6 mm internal spray nozzle (not used at this time; please **DO NOT** discard)

*Once the LSC 90D Readiness Survey (<http://cleandealer.com>**) indicates a dealership has met all the necessary requirements, a Special Equipment Kit will automatically be sent to that facility.

**Follow the LSC 90D Support link located in the left bottom corner of the webpage

D. MATERIALS & SUPPLIES

- Protective eyewear
- Dust mask
- NIOSH-approved respirator for organic vapors and mist control*** (Follow all Federal, state and local environmental, health and safety requirements such as OSHA. Please refer to the MSDS for details on each material.)
- Protective gloves
- Chemical Resistant Gloves (Viton, PVOH, etc.)
- Masking tape
- Fire-retardant poly sheeting (tarp) or covering (if you can not purchase from a local supplier, contact A Plus Environmental at 562-483-1060.)
- Plastic (Saran Wrap) sheet (for spray gun storage)
- 7ft rain gutters (quantity = 2)
- Rain gutter end caps (quantity = 4)
- Wire
- Partitions (The type, size and number of partitions used will depend on each dealer's facility.)
- Shop cloth/paper towels
- Bucket (quantity = 8)
- Funnel (quantity = 2)



Example of a NIOSH-approved respirator

*****NOTE:**

- The MSDS for both 712AM and X-128T located in the Appendix instruct applicators to use a "NIOSH-approved respirator for organic vapor and mist to control exposure where ventilation is inadequate."
- It is up to the individual dealership to ensure compliance with OSHA regulations.
- If you require further assistance in regards to NIOSH approved respirators, we have found 3M® to be a useful reference/source.

3M® Technical Assistance:
3M® Customer Service:
3M® Web Site:

1-800-243-4630
1-800-328-1667
www.3m.com/occsafety

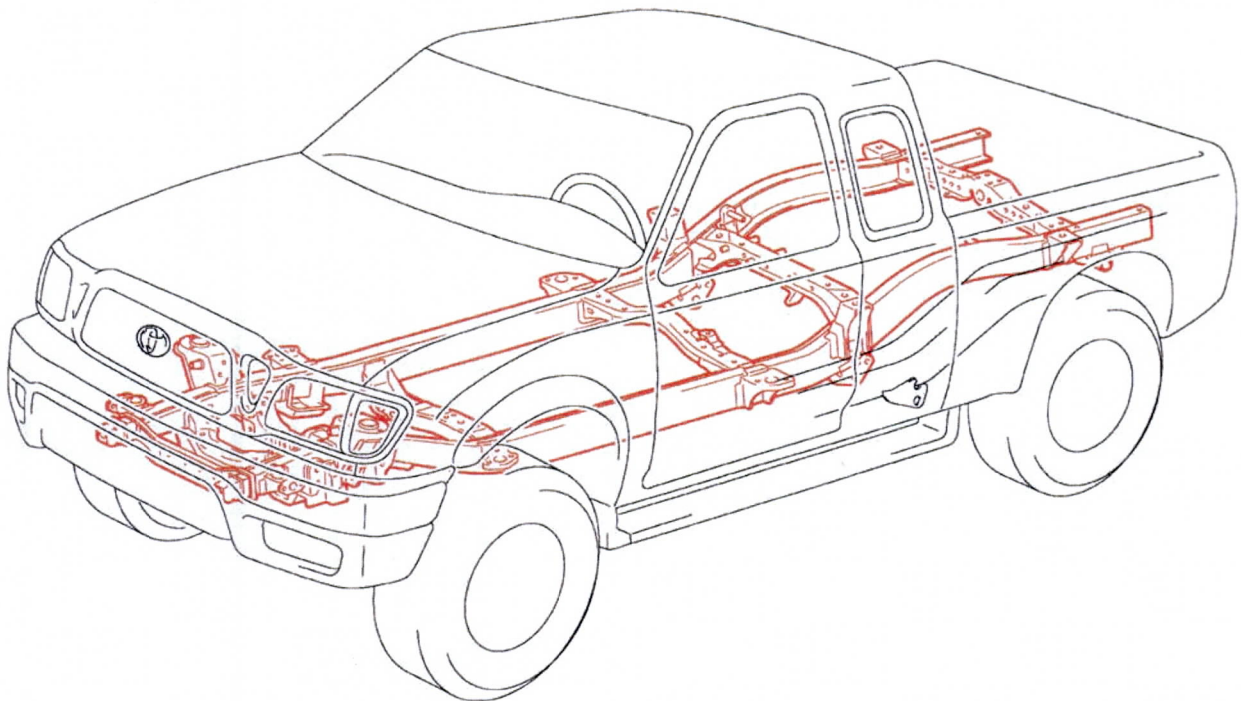
IV. BACKGROUND AND COMPONENTS

Toyota received reports that a small number of 2001 through 2004 model year Tacoma vehicles operated in severe cold climate areas with high road salt use exhibited excessive rust corrosion to the frame, causing perforation of the metal. Toyota investigated these reports and determined that the frames in this small number of vehicles may not have adequate corrosion-resistant protection for use in this environment. This combined with prolonged exposure to road salts and other environmental factors may contribute to the development of excessive rust corrosion in the frames of some vehicles. This condition is unrelated to and separate from normal surface rust which is commonly found on metallic surfaces after some years of usage and/or exposure to the environment.

- The Corrosion-Preventative Compound application process involves spraying the internal and external surfaces of the Tacoma's frame with a specialized protective sealant material. Please follow all instructions provided to the dealership in the Getting Started Guide and the Federal, State and Local Requirements Guide.



Important Reminder: Because of variations in State laws, dealerships conducting the LSC in certain States may require government approvals prior to starting the LSC. Depending upon the state, dealerships also may be subject to restrictions on the number of vehicles to which the LSC materials can be applied in any single day, week or month. Please refer to the Getting Started Guide and the Federal, State and Local Requirements Guide that accompany these Technical Instructions for important information about any such approvals or restrictions that may apply to your dealership. Your dealership must adhere strictly to these requirements.



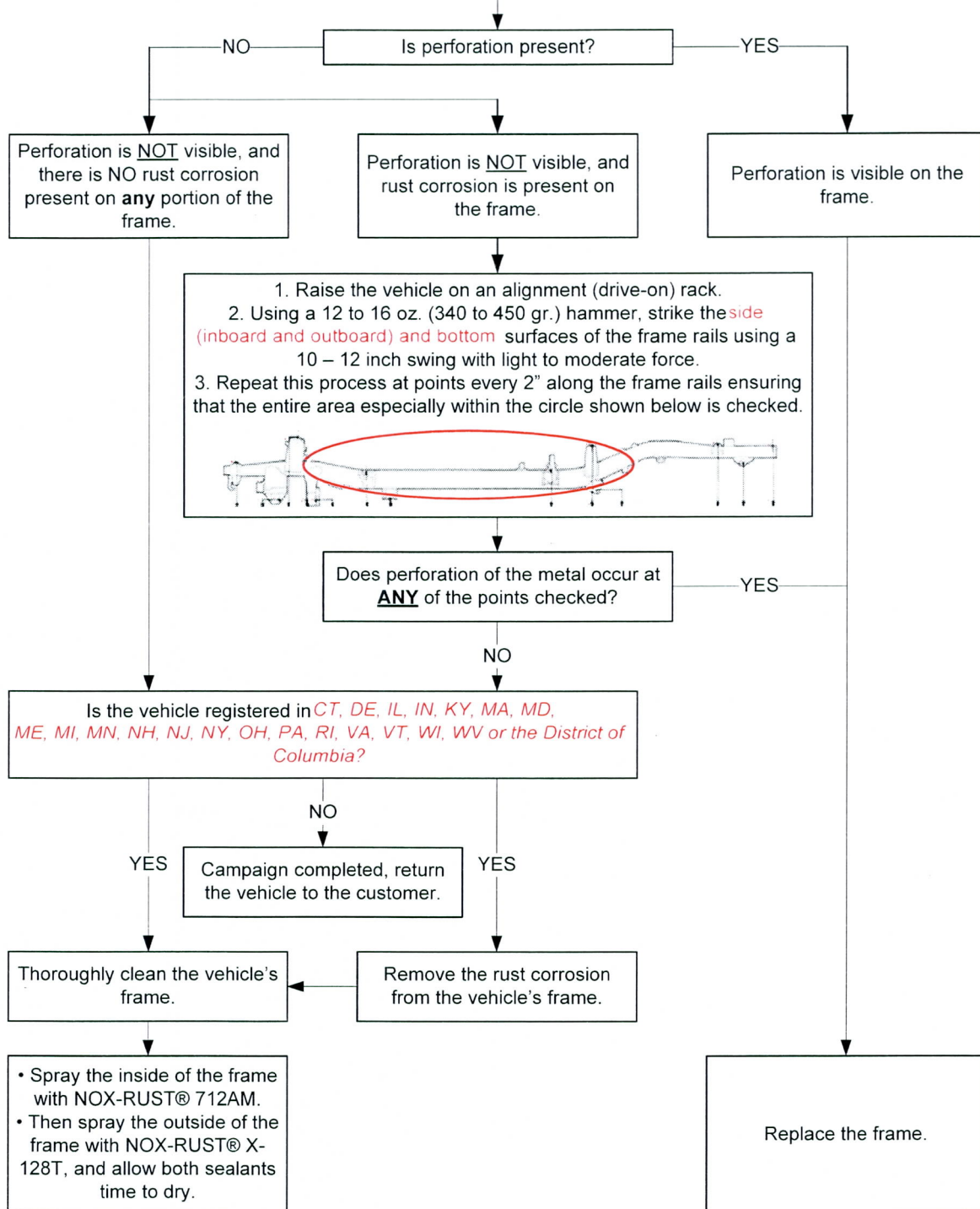
V. VEHICLE INSPECTION WORK PROCEDURE

A. FRAME RUST CORROSION PERFORATION INSPECTION

Before raising the vehicle on an alignment rack (or lift), visually inspect the **entire** frame assembly (top, side and bottom surfaces of the frame rails) for visible signs of perforation.

- Visually inspect the frame assembly for rust/corrosion, and follow the steps provided.

• **CAUTION:** Use protective eyewear and gloves when performing the under vehicle inspection as rusted metal may flake off.



NOTE: Please reference the laminated flowchart for more details, and for pictures illustrating the frame's condition used in the judgment process.

VI. FRAME APPLICATION WORK PROCEDURE



Important Reminder: Because of variations in State laws, dealerships conducting the LSC in certain States may require government approvals prior to starting the LSC. Depending upon the state, dealerships also may be subject to restrictions on the number of vehicles to which the LSC materials can be applied in any single day, week or month. Please refer to the Getting Started Guide and the Federal, State and Local Requirements Guide that accompany these Technical Instructions for important information about any such approvals or restrictions that may apply to your dealership. Your dealership must adhere strictly to these requirements.



Due to the flash point of the NOX-RUST® materials, allow sufficient time for the vehicle (i.e., the exhaust system) to cool down before beginning the application process. By following the FRAME APPLICATION WORK PROCEDURE the vehicle will have additional time to cool before the NOX-RUST® is applied. Please refer to the MSDS for flash point temperatures.

A. WORK AREA SETUP (SUGGESTED)

1. INITIAL SETUP CONSIDERATIONS & GUIDELINES

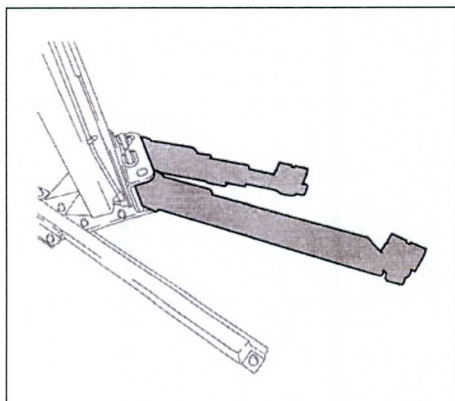
- a) Work with your Service Manager to locate a dedicated work area and lift with the following requirements.
 - i. In well ventilated area.
 - ii. Away from other vehicles to minimize the possibility of overspray.
 - iii. In a location that can be sectioned off by partitions.
 - iv. In an area that provides sufficient distance from neighboring stalls*

Please note area set up may vary depending on dealership layout. The following information is just one example of how an area might be set up for frame Corrosion-Preventative Compound application. Be sure to work with your Service Manager when locating a dedicated work area. If more assistance is needed, please contact your regional representative.

*The X-128T has a vanilla scent added that may be noticeable by others working around the spray area. Toyota is currently working to remove the vanilla scent in the near future.



Important Reminder: Because of specific fire code requirements, make sure to review the Site Selection Section of the Dealer Information Packet to ensure that the area where you will conduct the LSC is compliant with the appropriate requirements.

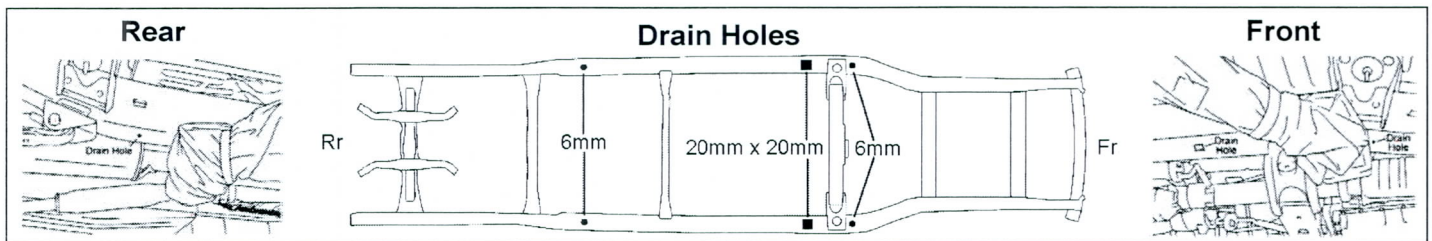


2. MASK THE LIFT SWING ARMS

- a) Cover the lift swing arms with fire-retardant poly sheeting (tarp).
- b) Secure the tarp with masking tape.

NOTE:

- A two post lift swing arm is shown for reference purposes.
- Inspect the tarp on a daily basis for damage (cuts, tears, etc.) and replace as necessary.
- Dispose of old tarps in the same manner as other regulated waste at your dealership. Refer to the Dealer Information Packet for more info.



3. PREPARE THE VEHICLE

- It may be necessary to pressure wash the vehicle's frame, depending on its cleanliness.
Please note that time has been allotted to pressure wash the frame in the flat rate time.
- Place the vehicle on the lift and raise it up.

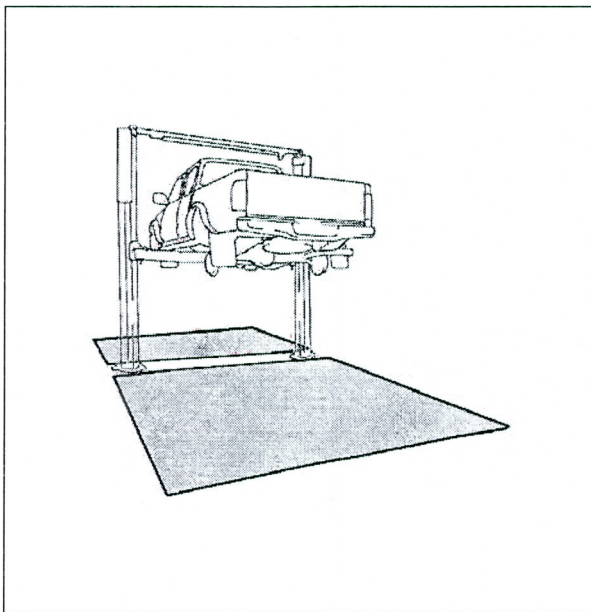
NOTE:

DO NOT cover the frame's drain holes when positioning the swing arms (see illustration above).

- Remove the rear wheels.
- Remove the spare tire.
- Remove the engine under cover.
- Cover any identifying label (i.e., VIN label, etc.) on the frame with tape.
- Cover the driveshaft(s) with fire-retardant poly sheeting (tarp) and secure with masking tape.

NOTE:

Overspray onto the driveshaft may cause vehicle vibration.



4. WORK AREA SETUP

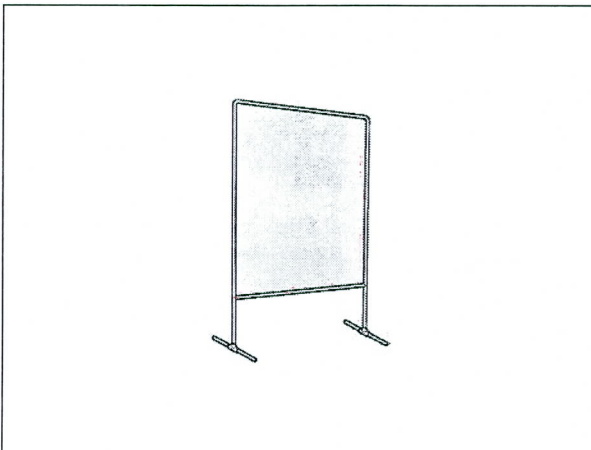
- Cover any exposed section(s) of the lift with fire-retardant poly sheeting (tarp), and secure with masking tape.
- Place the tarp(s) beneath the vehicle as shown in the illustration to protect the floor.

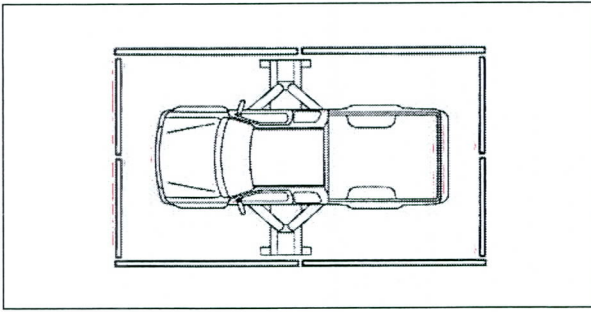
NOTE:

- When laying out the tarp on the floor, be sure it is secure and does not create a slipping hazard when walked upon.
 - Inspect the tarp on a daily basis for damage (cuts, tears, etc.) and replace as necessary.
 - Dispose of old tarps in the same manner as other regulated waste at your dealership. Refer to the Dealer Information Packet for more info.
 - A two post lift swing arm is shown for reference purposes.
- Setup partitions according to the facility needs of your dealership.

NOTE:

- The type, size and number of partitions used will depend on each dealer's facility.
- Partitions should minimize any overspray to nearby stalls, while ensuring adequate ventilation.
- Inspect the partition(s) on a daily basis for damage (cuts, tears, etc.) and repair/replace as necessary.
- Dispose of used partitions in the same manner as other regulated waste at your dealership. Refer to the Dealer Information Packet for more info.



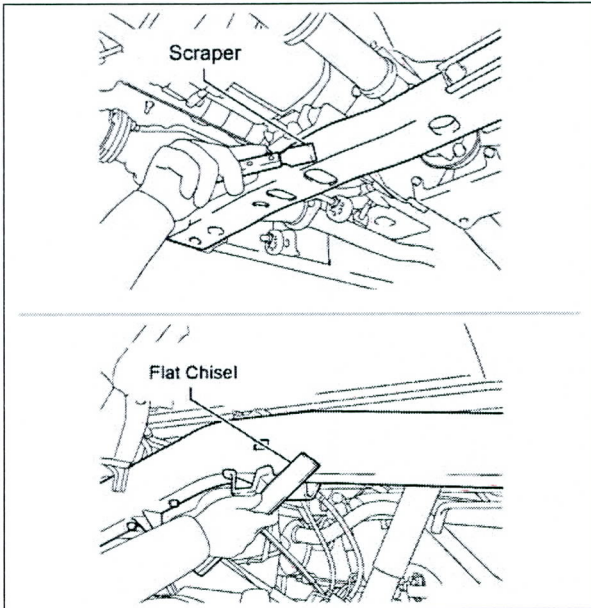


- d) Position the partitions around the vehicle to prevent overspray, as shown in the illustration.

NOTE:

- The partitions shown are just an example of what can be used.
- A two post swing arm lift is shown for reference purposes.

B. RUST REMOVAL PROCESS



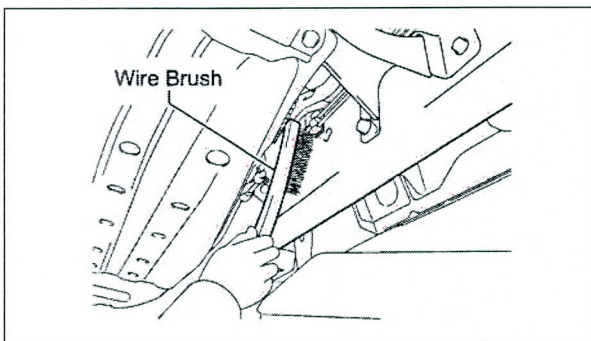
1. REMOVE THE FRAME RUST

- a) Remove the rust from the frame using a scraper and/or flat chisel.

NOTE:

- **DO NOT** scratch or remove the identifying labels (i.e., VIN label, etc.) from the frame.
- Make sure to wear protective eyewear, gloves and a dust mask when performing this step.
- Please reference the laminated flowchart for pictures illustrating the frame's appearance before and after the rust removal process.

C. CLEANING THE FRAME

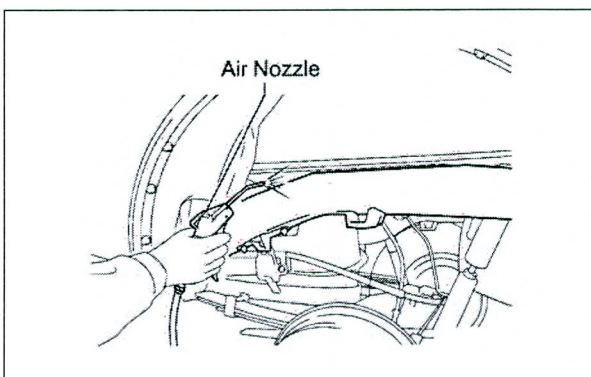


1. CLEANING THE FRAME

- a) Using a wire brush, remove any debris and/or rust from the frame.

NOTE:

- **DO NOT** scratch or remove the identifying labels (i.e., VIN label, etc.) from the frame.
- Make sure to wear protective eyewear, gloves and a dust mask when performing this step.

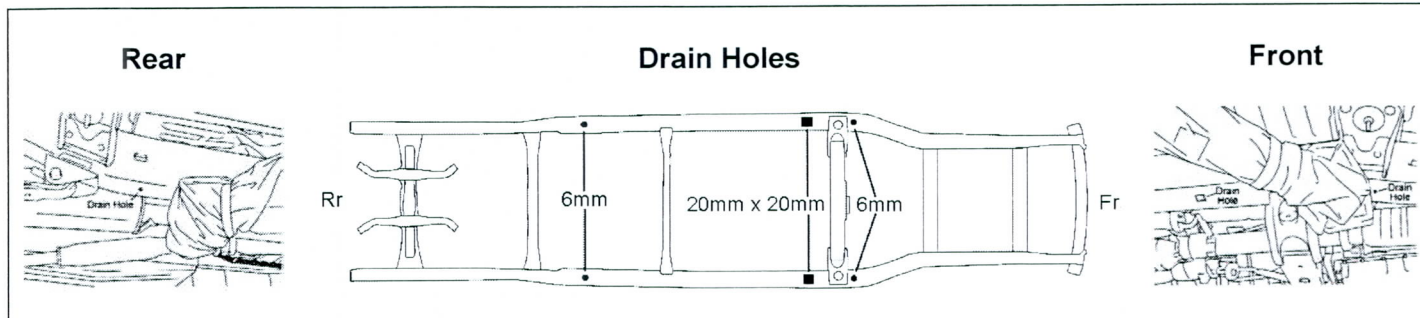


- b) Using an air nozzle, remove any dirt, debris, rust flakes and water residue from the frame.

NOTE:

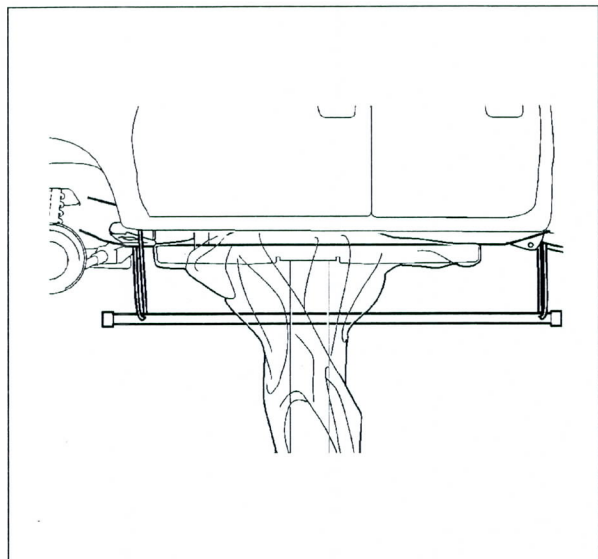
- Make sure to wear protective eyewear when performing this step.
- A slightly wet frame surface is acceptable when applying the frame Corrosion-Preventative Compound.

D. SPRAYING FRAME CORROSION-PREVENTATIVE COMPOUND



1. CLEAN OUT, THEN PLUG THE DRAIN HOLES

- Using a pick or small screwdriver poke the 20 mm x 20 mm square opening and the two 6 mm drain holes located on the left and right sides of the frame to remove any dirt or debris that may be lodged in the holes.
- Plug the 20 mm x 20 mm square opening and the two 6 mm drain holes located on the left and right sides of the frame with shop cloths/paper towels.



2. SETTING UP THE RAIN GUTTER (IF USED)

- Using the rain gutters and 4 end caps, create two 7 ft assemblies that will catch the frame Corrosion-Preventative Compound as it drips from the frame rails.
- Using wire, hang the 2 rain gutters beneath the drainage holes (3 per frame rail) on the left and right frame rails as shown in the illustration.

NOTE:

- DO NOT** hang the rain gutters from the frame.
- If rain gutters are not used, please place buckets under the drainage holes (3 per frame rail).
- Locate any other location(s) on the frame rails where dripping may occur. Place a bucket under these locations.

3. SETTING UP THE SPRAY GUN FOR NOX-RUST® 712AM INTERNAL FRAME APPLICATION

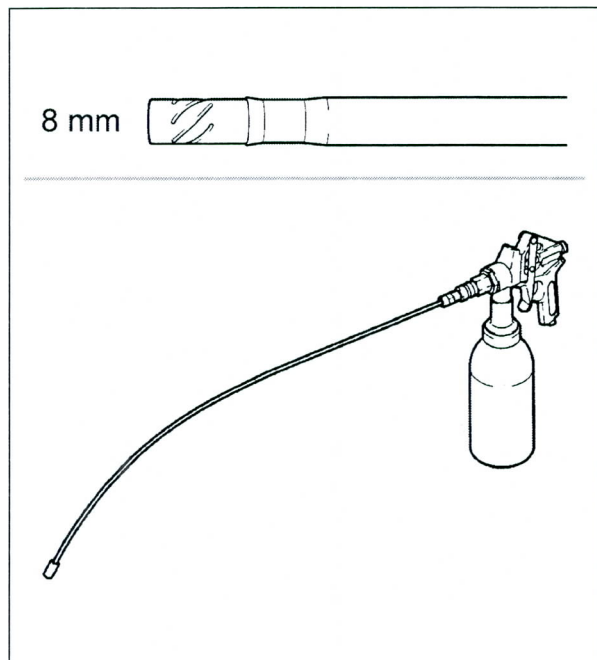
NOTE:

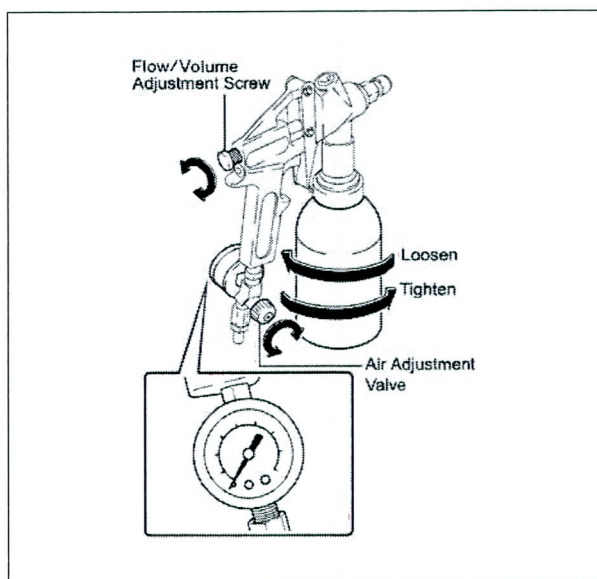
Use a dedicated spray gun for the NOX-RUST® 712AM (712AM) internal frame application.

- Check the temperature of the 712AM. If the 712AM is below 72° F, place the 712AM container in a bucket of hot water (<104° F) for 15 minutes and allow it to warm so the proper viscosity is achieved. **Then shake the 712AM container well so that the contents are mixed thoroughly, as settling may occur as it sits.**
- Fill the dedicated bottle with 712AM, and attach the spray gun.
- Connect the spray gun to the air hose.
- Connect the 8 mm spray nozzle, as shown in the illustration.

NOTE:

DO NOT use the 6 mm spray nozzle.

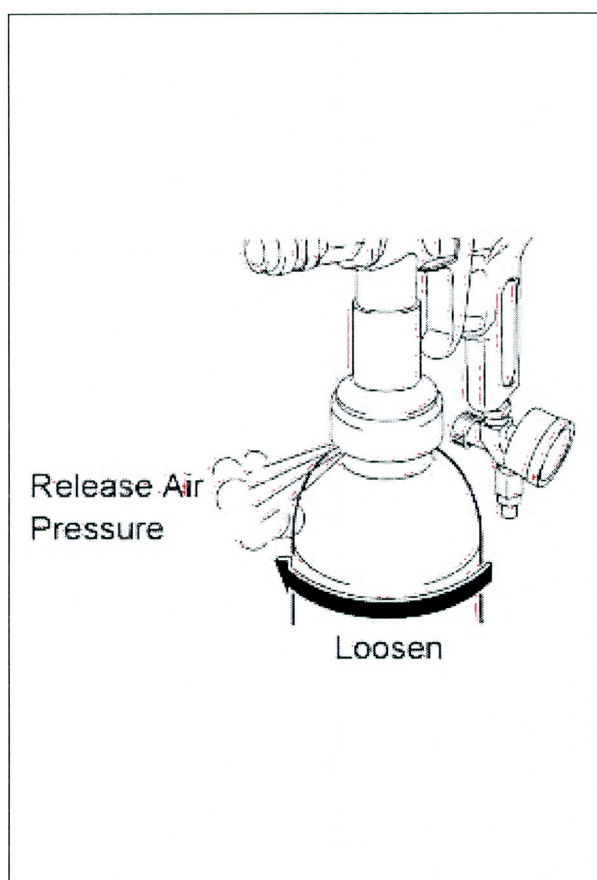




- e) Adjust the spray gun nozzle flow/volume. Turn the adjustment screw to the fully closed position (clockwise). Then loosen the adjustment screw 4 complete turns.
- f) Adjust the air pressure regulator. Place the nozzle in a clean empty box or pail and fully press the spray gun trigger, and adjust the air pressure to 72.5 psi. Recycle the amount sprayed out and use it during the application process.

NOTE:

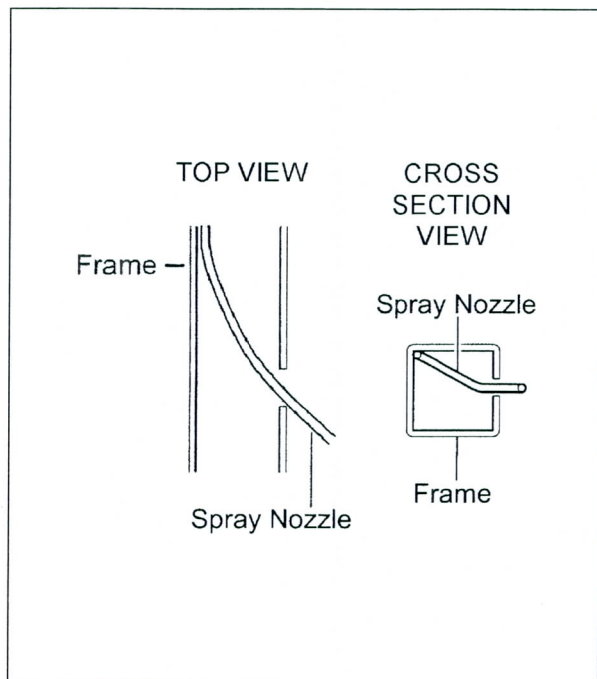
- **DO NOT** bend the spray nozzle.
- **Make sure to wear protective eyewear, impervious gloves (Viton, PVOH, etc.) and refer to the MSDS located in the Appendix when performing this step.**



- g) During the 712AM internal frame application process it will be necessary to refill the spray gun after completing each frame rail. To do this, disconnect the air hose and slowly loosen the spray gun bottle until the internal air pressure is released out of the threads on the bottle's neck. Once the pressure has been released the bottle can be removed from the spray gun.

NOTE:

- **DO NOT** remove the spray gun bottle until the pressure has been released.
- **DO NOT** pull the spray gun trigger when the pressure has not been released, as doing so will cause the 712AM to backflow out of the air inlet.
- Just prior to filling the spray gun bottle with the 712AM, thoroughly shake the one liter kit container(s).
- Each frame rail requires one liter of 712AM. Make sure to use the entire first liter on the first frame rail, and the entire second liter on the second rail.
- Make sure to pour and use all residual 712AM that may remain in the one liter kit containers.



4. NOX-RUST® 712AM INTERNAL FRAME APPLICATION

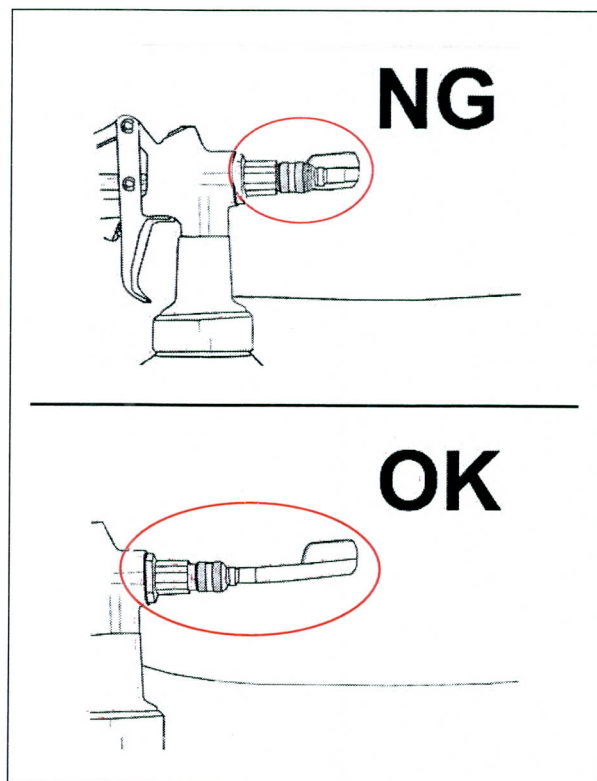
- Insert the spray nozzle into the selected holes located throughout the frame. Begin at the front of the vehicle on the right frame rail. Reference the next two pages for the locations of each hole.
- Insert the nozzle so it contacts the upper edge of the opposite side (see illustration), and push it in a specified distance as shown on the next two pages.
- Start applying the 712AM inside the frame rail, and slowly pull the nozzle out at 0.3 to 0.5 m/sec (depending on location) while spraying. For 712AM internal frame insertion point & depth, and application speed, reference the next two pages.

NOTE:

- DO NOT bend (i.e., kink) the spray nozzle.
- Make sure to wear protective eyewear, chemical resistant gloves (Viton, PVOH, etc.) and refer to the MSDS located in the Appendix when performing this step.

NOTE:

- Make sure the quick coupler on the spray gun does not come into contact with the frame when applying the 712AM. Contacting the frame with the quick coupler may lead to a hose disconnection.

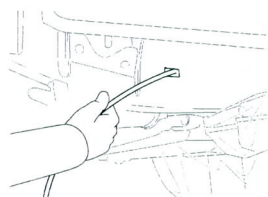
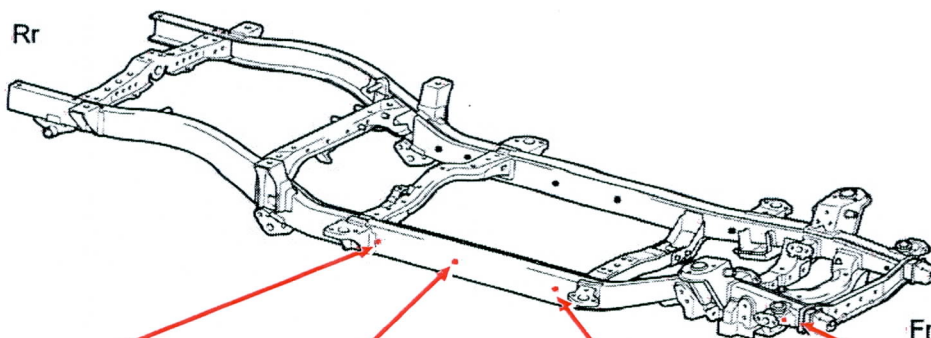


NOX-RUST® 712AM INTERNAL FRAME APPLICATION (CONTINUED...)

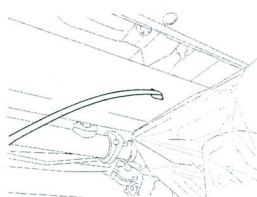
OUTBOARD FRAME RAIL NOZZLE INSERTION POINT & DEPTH, AND 712AM APPLICATION SPEED

NOTE:

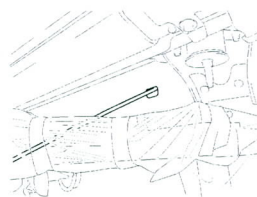
- Follow all MSDS guidelines for the 712AM which can be found in the Appendix.
- Only outboard rail nozzle insertion points are shown. See following page for inboard rail nozzle insertion points.
 - Only one side is shown. Outside frame rail nozzle insertion points are the same on both sides.
 - Make sure to repeat the 712AM application on the opposite frame rail so that both frame rails are sealed.
 - Follow the application speed directions to apply the sealant to the inside of the frame rail.
- Make sure to wear protective eyewear, chemical resistant gloves (Viton, PVOH, etc.) and refer to the MSDS located in the Appendix when performing this procedure.
- The exact insertion point locations may vary depending on the cab configuration.
- Tape can be placed on the spray nozzle to reference correct insertion depth.



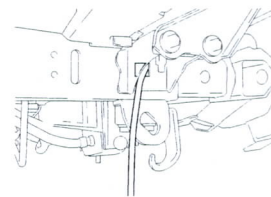
- Insert nozzle as far as it will go towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)



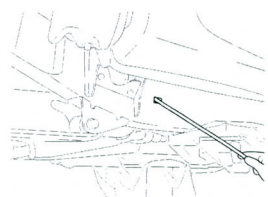
- Insert nozzle as far as it will go towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)



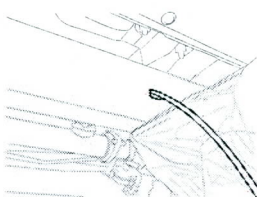
- Insert nozzle as far as it will go towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.5 m/sec (20 in/sec)



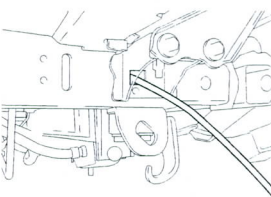
- Insert nozzle 5 cm (2 in.) towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.5 m/sec (20 in/sec)



- Insert nozzle as far as it will go towards the rear of the frame.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)



- Insert nozzle as far as it will go towards the rear of the frame.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)



- Insert nozzle as far as it will go towards the rear of the frame.
- Slowly pull out the nozzle at an application speed of 0.5 m/sec (20 in/sec)

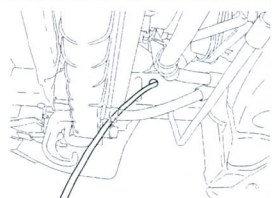
Note: m/sec = meters/second

NOX-RUST® 712AM INTERNAL FRAME APPLICATION (CONTINUED...)

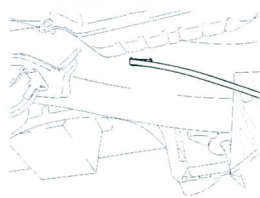
INBOARD FRAME RAIL NOZZLE INSERTION POINT & DEPTH, AND 712AM APPLICATION SPEED

NOTE:

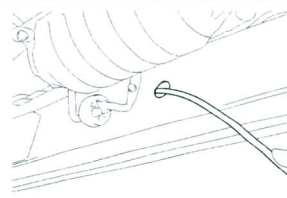
- Follow all MSDS guidelines for the 712AM which can be found in the Appendix.
- Only inboard rail nozzle insertion points are shown. See the previous page for the outboard rail insertion points.
 - Only one side is shown. Inside frame rail nozzle insertion points are the same on both sides.
- Make sure to repeat the 712AM application on the opposite frame rail so that both frame rails are sealed.
 - Follow the application speed directions to apply the sealant to the internal surface of the frame rail.
- Make sure to wear protective eyewear, chemical resistant gloves (Viton, PVOH, etc.) and refer to the MSDS located in the Appendix when performing this procedure.
 - The exact insertion point locations may vary depending on the cab configuration.
 - Tape can be placed on the spray nozzle to reference correct insertion depth.



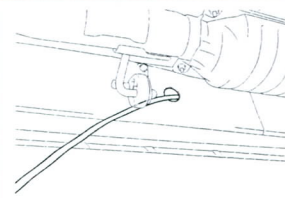
- Insert nozzle as far as it will go towards the rear of the frame.
- Slowly pull out the nozzle at an application speed of 0.5 m/sec (20 in/sec) to seal internal surfaces



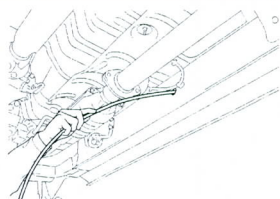
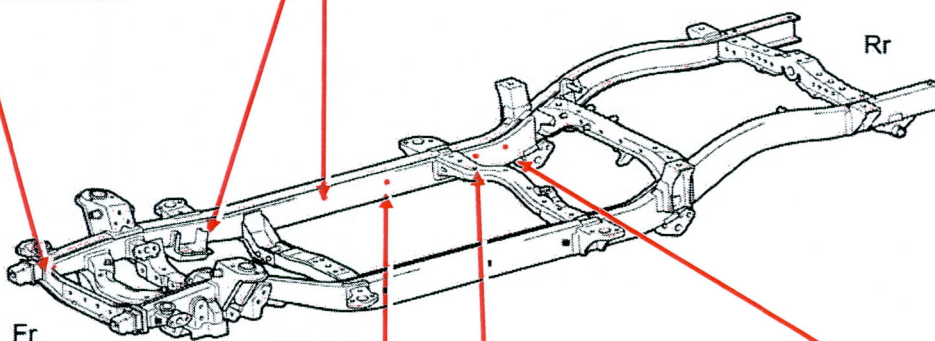
- Insert nozzle as far as it will go towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.5 m/sec (20 in/sec)



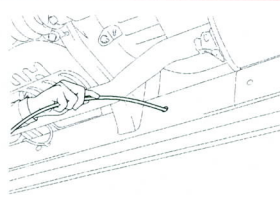
- Insert nozzle as far as it will go towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)



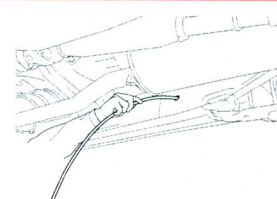
- Insert nozzle as far as it will go towards the rear of the frame.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)



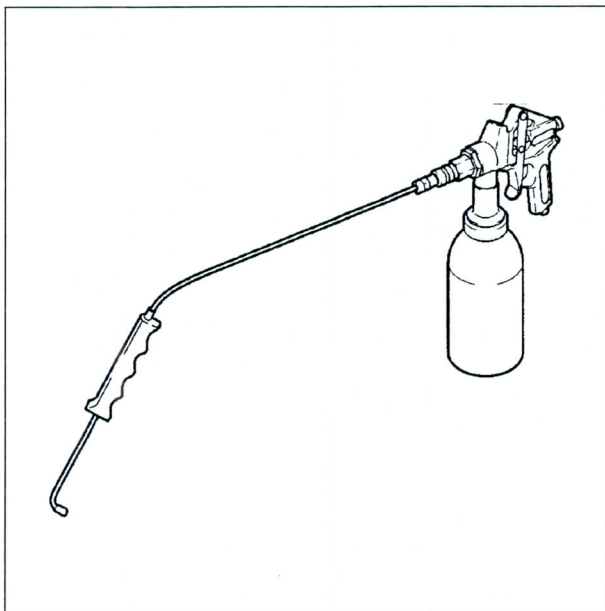
- Insert nozzle 5 cm (2 in.) into the frame.
- Apply the 712AM while turning the nozzle in a circular motion.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)



- Insert nozzle 5 cm (2 in.) into the frame.
- Apply the 712AM while turning the nozzle in a circular motion.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)



- Insert nozzle 5 cm (2 in.) into the frame.
- Apply the 712AM while turning the nozzle in a circular motion.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)
- This area may be very tight.



5. SETTING UP THE SPRAY GUN FOR NOX-RUST® X-128T EXTERNAL FRAME APPLICATION

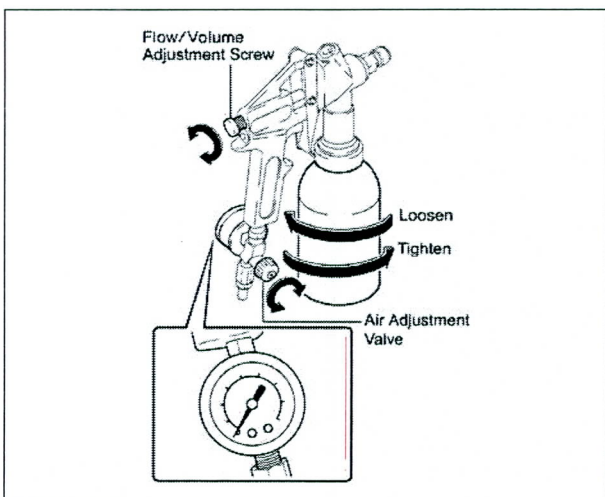
NOTE:

Use a dedicated spray gun for the NOX-RUST® X-128T (X-128T) external frame application.

- Check the temperature of the X-128T. If the X-128T is below 72° F, place the X-128T container in a bucket of hot water (<104° F) for 15 minutes and allow it to warm so the proper viscosity is achieved. *Shake the X-128T container well so that the contents are mixed thoroughly, as settling may occur as it sits.*
- Fill the dedicated bottle with NOX-RUST® X-128T, and attach the spray gun.
- Connect the spray gun to the air hose.
- Connect the external frame rail spray nozzle, as shown in the illustration.
- Adjust the spray gun nozzle flow/volume. Turn the adjustment screw to the fully closed position (clockwise). Then loosen the screw 4 full turns.
- Adjust the air pressure regulator. Place the nozzle in a clean empty box or pail and fully press the spray gun trigger, and adjust the air pressure to 50 psi. Recycle the amount sprayed out and use it during the application process.

NOTE:

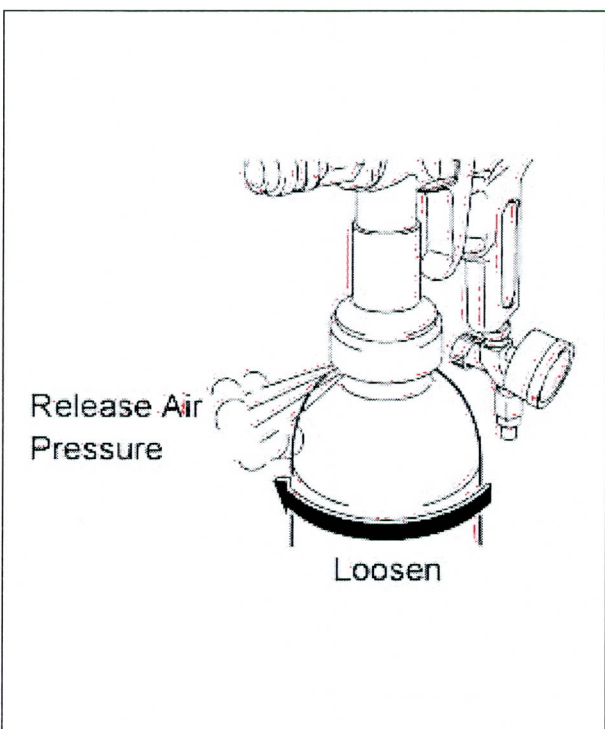
- Make sure to wear protective eyewear, chemical resistant gloves (Viton, PVOH, etc.) and refer to the MSDS located in the Appendix when performing this step.

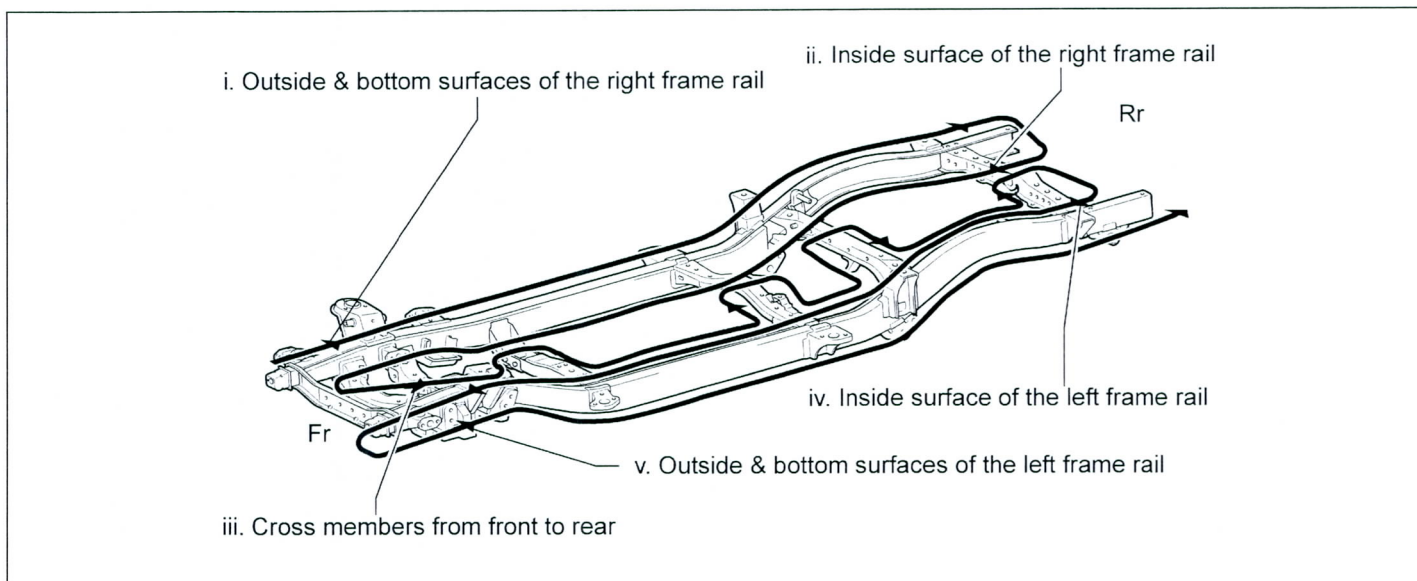


- During the X-128T external frame application process it will be necessary to refill the spray gun. To do this, disconnect the air hose and slowly loosen the spray gun bottle until the internal air pressure is released out of the threads on the bottle's neck. Once the pressure has been released the bottle can be removed from the spray gun.

NOTE:

- DO NOT remove the spray gun bottle until the pressure has been released.
- DO NOT pull the spray gun trigger if the pressure has not been released, as doing so will cause the X-128T to backflow out of the air inlet.
- Just prior to filling the spray gun bottle with the X-128T, thoroughly shake the one liter kit containers.
- Apply all 3 liters of X-128T. If any X-128T is remaining it may be necessary to re-spray some sections of the frame.
- Make sure to pour and use any residual X-128T that may remain in the one liter kit container.



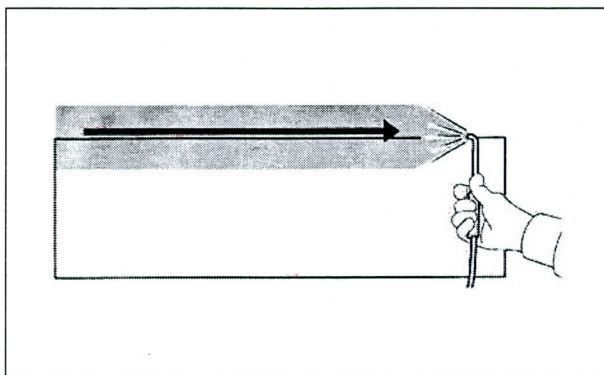


6. NOX-RUST® X-128T EXTERNAL FRAME APPLICATION

NOTE: Make sure to wear protective eyewear, chemical resistant gloves and refer to the MSDS located in the appendix when performing this procedure.

- Using a shop cloth, wipe off any 712AM that may be on external frame surfaces. If this is not done the X-128T may have difficulty adhering to these areas.
- Before beginning, please review the X-128T external frame application flow/order, as shown in the illustration above and as listed below. Follow the application speed directions to apply the sealant to the exterior of the frame rail.

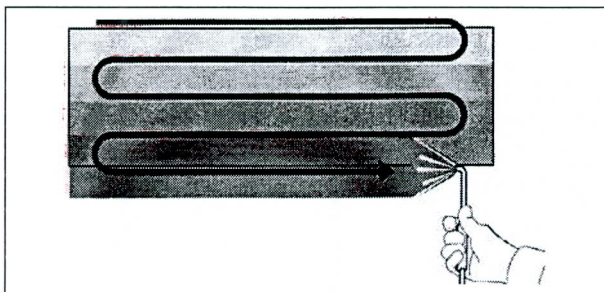
- Outside & bottom surfaces of the right frame rail (starting at the front of the vehicle)
- Inside surface of the right frame rail (starting with the rear of the vehicle)
- Cross members from front to rear (starting from the front of the vehicle)
- Inside surface of the left frame rail (starting with the rear of the vehicle)
- Outside & bottom surfaces of the left frame rail (starting at the front of the vehicle)



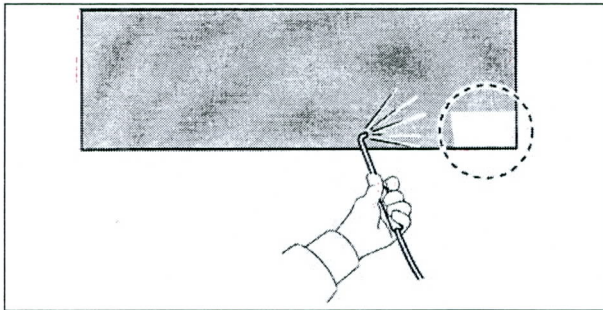
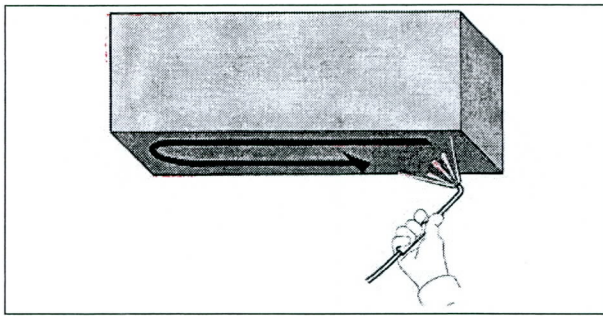
- Start in the top left corner of the section you are spraying. Position the spray nozzle 20 to 25 cm (8 to 10 in.) away from the frame surface. Then apply the X-128T to the outside frame rail moving the nozzle at a constant speed of 0.1 m/sec (4 in/sec).

NOTE:

Make sure to wear protective eyewear, chemical resistant gloves (Viton, PVOH, etc.) and refer to the MSDS located in the Appendix when performing this step.



- Without stopping, move down and reverse direction as shown in the illustration until the section is completed. Slightly overlap each pass by 1.3 cm (0.5 in.) so no gaps appear.

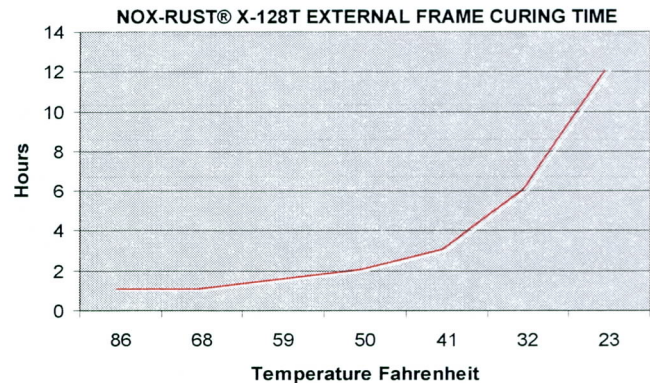
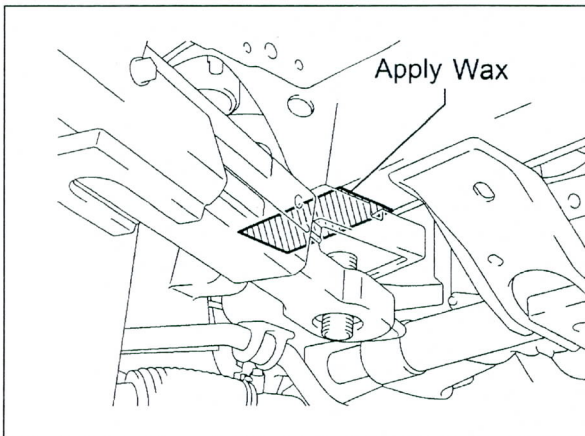


- e) Once the outside surface of the frame rail section you are working on has been completed, without stopping, spray the bottom side as shown in the illustration.
- f) Spray the remaining frame and cross member surfaces in the same manner.

- g) After the entire frame has been completed, inspect and spray any areas that may have been missed.

NOTE:

- Wipe off any X-128T overspray from the exhaust components.



- h) Unplug the 3 drain holes (20 mm x 20 mm & two 6 mm), allowing the 712AM to drip out of the frame and onto the rain gutter assembly (if used), bucket or other container.
- i) Remove the tarp from the driveshaft.
- j) Reinstall the engine under cover.
- k) Reinstall the rear tires and torque to specification as outlined in the appropriate repair manual.
- l) Reinstall the spare tire.
- m) Remove the rain gutter assemblies (if used), bucket or other container.
- n) Lower the vehicle to the ground.

- o) Remove any rust from the area of the frame that was covered by the lift points. Clean this area and apply the X-128T.
- p) Make sure that both liters of the 712AM and all 3 liters of the X-128T have been applied. If any remains it may be necessary to re-spray some sections of the frame.

NOTE:

Make sure to wear protective eyewear, chemical resistant gloves (Viton, PVOH, etc.) and refer to the MSDS located in the Appendix when performing this step.

- q) Remove the tape covering the identifying labels (i.e., VIN label, etc.) on the frame.
- r) Allow the vehicle to cure for the specified time based on the ambient temp. (Refer to chart above).
- s) After the vehicle has cured for the correct amount of time and before the customer picks up the vehicle, insert a plug (P/N 90950-01539) into each of the 20 mm x 20 mm hole.
- t) Place a Corrosion-Preventative Compound Information Hang Tag on the rearview mirror.

7. STORING THE SPRAY GUN (Spray Guns do not require cleaning if they are properly stored)

- a) Spray Gun Storage (when the spray guns are not in use follow the procedure outlined below)
 - 712AM Internal Frame Application Spray Gun:
 - Remove the air hose from the spray gun.
 - Loosen the spray gun from the canister to release the air pressure. To minimize exposure to the air, once the air pressure is released retighten the spray gun to the canister.
 - Leave the spray nozzle on the spray gun and place the originally equipped nozzle cap on the tip.
 - X-128T External Frame Application Spray Gun:
 - Remove the air hose from the spray gun.
 - Loosen the spray gun from the canister to release the air pressure. To minimize exposure to the air, once the air pressure is released retighten the spray gun to the canister.
 - Leave the spray nozzle on the spray gun and wrap the nozzle end in a plastic sheet. Fasten the plastic (Saran Wrap) sheet with a rubber band.

8. RECORD-KEEPING AND OTHER REQUIREMENTS

- a) **IMPORTANT:** Most states have specific record-keeping requirements that apply to the LSC. Please refer to the Air Regulation, Air Recordkeeping Sections of the Federal, State and Local Requirements Guide for additional information and to make sure that your dealership can satisfy these legal requirements before starting the LSC.
- b) Some states and/or localities impose additional requirements, such as fire code permitting obligations. Please refer to the Federal, State and Local Requirements Guide for additional information and to make sure that your dealership can satisfy these legal requirements before starting the LSC.

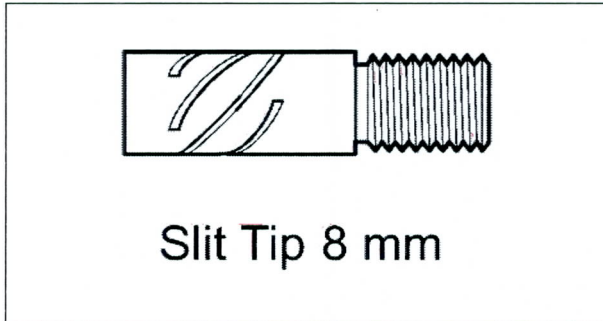
VII. APPENDIX

A. NOX-RUST® 712AM & NOX-RUST® X-128T DISPOSAL

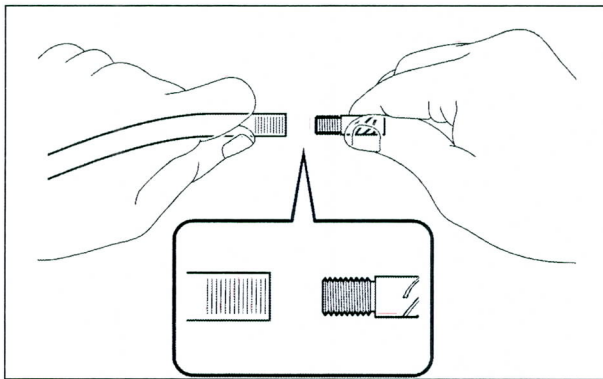
The NOX-RUST® 712AM & NOX-RUST® X-128T used in the application of the frame Corrosion-Preventative Compound as well as any materials, such as tarps with residue, must be disposed of in the same manner as other regulated hazardous waste at your dealership and in accordance with all applicable local, state, and federal regulations. Please refer to the Dealer Information Packet for additional information.

B. REPLACEMENT OF 712AM APPLICATOR NOZZLE

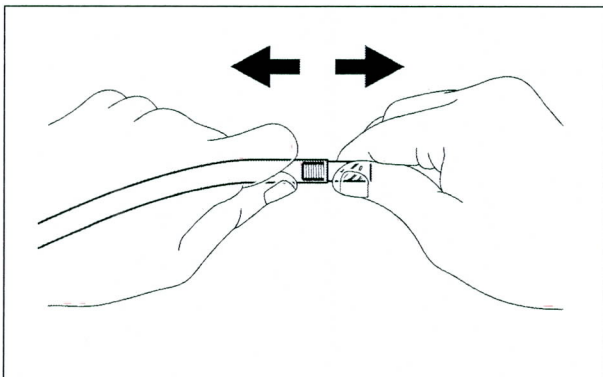
1. REMOVE AND INSTALL SLIT TIP



In the event the tip separates from the hose, follow these procedures for repair.

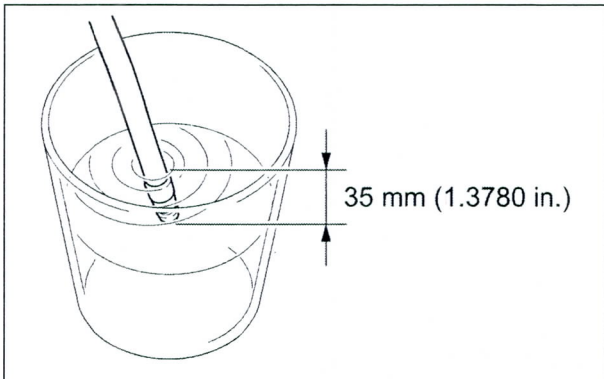
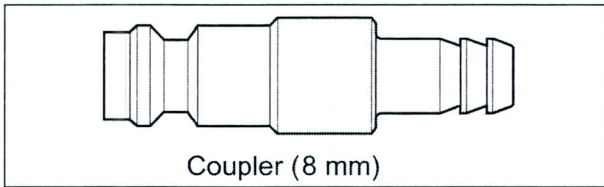


- a) Twist and remove the slit tip from the nozzle hose.
- b) Screw the slit tip onto a **NEW** nozzle hose at the slit tip connection



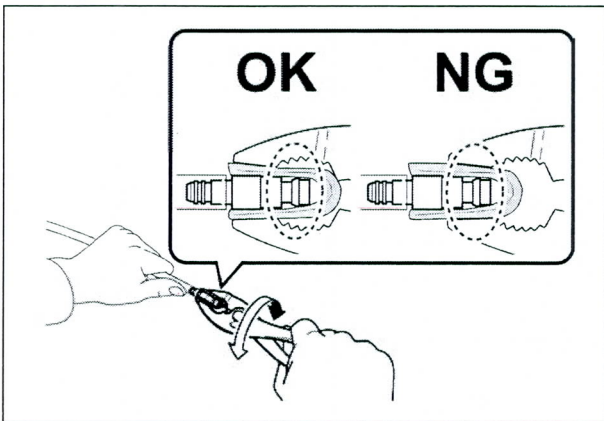
- c) Holding both the slit tip and the nozzle hose pull to ensure the tip is securely attached.

2. REMOVE AND INSTALL COUPLER (for 8mm)



- a) Immerse the entire coupler in 70°C (158° F) or hotter water for 10 seconds. This will loosen the coupler and allow it to be removed more easily.

WARNING: Wear insulated gloves, as the water is hot.

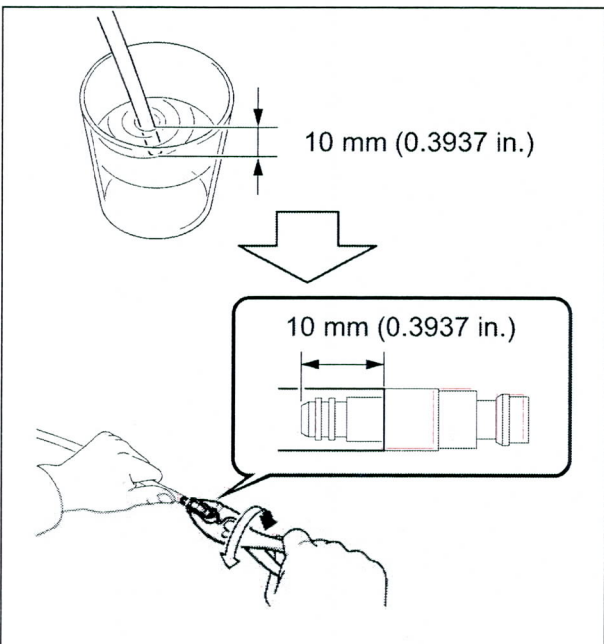


- b) Immediately after removing the coupler from the hot water, twist and remove the coupler from the nozzle hose using pliers and a paper towel.

Note:

- Place the paper towel between the pliers and the coupler to avoid damaging the coupler.
- Be careful to place the pliers so as to not damage the connection joint for the spray guns.
- The coupler and nozzle hose may be hot.

- c) Hold and remove coupler.



- d) Immerse approximately 10mm (0.3937 in.) of the coupler connection (non-threaded) end on a NEW nozzle hose in 70°C (158°F) or above hot water for 10 seconds.
- e) Immediately after removing the nozzle hose from the hot water, rotate and insert the coupler into the nozzle hose.

NOTE:

- The coupler should be inserted all the way into the nozzle hose to ensure it will not detach.
- Re-immers the nozzle hose into hot water if the nozzle hose cools and the coupler cannot be inserted.
- The coupler and nozzle hose may be hot.

- f) Once the nozzle hose has cooled to room temperature, hold both the coupler and nozzle hose and pull to ensure that the coupler does not detach.

C. MSDS SHEETS

- NOX-RUST® 712AM..... page 27
- NOX-RUST® X-128T..... page 31

MATERIAL SAFETY DATA SHEET

MANUFACTURED BY
PARKER INDUSTRIES

Nox-Rust® is a registered trademark of Daubert Chemical Company and is used pursuant to license.

DAUBERT CHEMICAL COMPANY

4700 SOUTH CENTRAL AVENUE

CHICAGO, ILLINOIS 60638

TELEPHONE: (708) 496-7350

FAX: (708) 496-7367

EMERGENCY CONTACT:

CHEMTREC (800) 424-9300

HMIS HAZARD RATING

HEALTH	1
FIRE	1
REACTIVITY	0
PERSONAL PROTECTION	B

Date of Review:

Revised: March 11, 2009

Date of Preparation: November 14, 2007

By: R. Lauterbach

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **Nox-Rust® 712AM**
Chemical Family: Petroleum oil/additive blend
Material Usage: Corrosion Preventive Compound

EMERGENCY OVERVIEW: Petroleum oil-based product. When product burns it releases typical hydrocarbon products of combustion. Refer to Section 3 for health effects and to Section 5 for fire hazard data.

SECTION 2: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Microcrystalline wax CAS #64742-42-3	5-10	ACGIH TLV: 2 mg/m ³ OSHA PEL: 2 mg/m ³
Petroleum distillates, solvent dewaxed heavy paraffinic CAS #64742-65-0	5-15	ACGIH TLV: 5 mg/m ³ OSHA PEL: 5 mg/m ³
Sulfonic acids, petroleum, Calcium salts, overbased CAS #68783-96-0	5-15	ACGIH TLV: 5 mg/m ³ (oil mist) OSHA PEL: 5 mg/m ³ (oil mist)
White mineral oil, petroleum CAS #8042-47-5	50-60	ACGIH TLV: 5 mg/m ³ (oil mist) OSHA PEL: 5 mg/m ³ (oil mist)
Bentonite, quaternary ammonium compound modified CAS# 68953-58-2	0.3-1.0	Not established

NOX-RUST® 712AM MSDS (CONTINUED...)

Soybean oil polymer with isophthalic acid and pentaerythritol CAS# 66071-86-1	0.4-4	Not established
Castor oil, dehydrated, polymerized CAS# 68038-02-8	5-15	Not established
Calcium Carbonate CAS #471-34-1	5-10	OSHA PEL: 5 mg/m ³ (respirable fraction) OSHA PEL: 15 mg/m ³ (total dust) ACGIH TLV: 10 mg/m ³ ^[2] (nuisance dust)

^[2] This component poses a hazard only if a dust is formed, i.e., by sawing, sanding, drilling, etc.

SECTION 3: HEALTH HAZARD INFORMATION

Primary Routes of Entry: Skin absorption, eyes (splashing).

Acute Effects: May cause eye irritation and reversible skin irritation. Prolonged skin exposure may cause dermatitis or oil acne. Breathing mists may cause dizziness or pulmonary irritation.

Chronic Overexposure:

Carcinogenicity: None of the components of this product are listed as carcinogens by NTP, IARC, or OSHA 1910(Z).

Pre-Existing Medical Conditions Aggravated by Exposure: Exposure may aggravate pre-existing respiratory or skin problems.

SECTION 4: FIRST AID PROCEDURES

Inhalation (mist): Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration; if breathing is difficult, give oxygen.

Eyes: In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.

Skin: Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site.

Ingestion: DO NOT INDUCE VOMITING. Consult a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°C (TCC)

Explosive Limits: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Small Fires: Dry chemical, CO₂, water spray, or regular foam. Large Fires: Water spray, fog, or regular foam. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks. For massive fire in cargo area, use unmanned hose holder or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

Special Firefighting Protection/Emergency Action: Fire may produce irritating or poisonous gases. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 1/2 mile in all directions if tank, rail car or tank truck is involved in fire. If runoff from fire control occurs, notify the appropriate authorities.

Unusual Fire/Explosion Hazards: Combustible material; may be ignited by flames. Container may explode in heat of fire.

Products of Combustion: Carbon monoxide, carbon dioxide, oxides of sulfur, miscellaneous hydrocarbons.

SECTION 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Steps to be taken in case Material is Released or Spilled: Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk.

Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills: Dike far ahead of liquid spill for later disposal.

SECTION 7: SAFE HANDLING INFORMATION

Precautions To Be Taken In Handling/Storage: Store in cool, well-ventilated area. Keep away from flames. Never use a torch to cut or weld on or near container.

Other Precautions: Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil-soaked shoes. Wash thoroughly with soap and water (waterless hand cleaner may be helpful in removing residues) after use and before smoking or eating. Avoid excessive skin contact.

SECTION 8: EXPOSURE CONTROLS

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.

SECTION 9: REACTIVITY HAZARD DATA

Stability: Stable

Incompatibility: Strong acids, oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of sulfur, miscellaneous hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Tan
Appearance:	Viscous Liquid
Odor:	Oil
Boiling Point (initial):	NA
Evaporation Rate (n-Butyl Acetate=1):	<<1
Vapor Pressure (mmHg @ 20°C):	3.4
Vapor Density (air=1):	NA
Solubility in Water:	Not Determined
Specific Gravity:	.9-1.0
pH:	Not Applicable
Percent Volatile by Volume:	0

SECTION 11: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with state, local and federal regulations. Materials may become a hazardous waste through use. If permitted, incineration may be practiced. Consider recycling solvent.

NOX-RUST® 712AM MSDS (CONTINUED...)

SECTION 12: REGULATORY INFORMATION

Volatile Organic Content: (EPA Method 24)

VOC per gallon:

0.165 lbs/gal

EPA Hazardous Waste Number(s) (40CFR Part 261):

D001

EPA Hazard Category (40CFR Part 370):

DELAYED (CHRONIC)

SARA TITLE III

This product contains the following TOXIC CHEMICALS subject to the *Reporting Requirements of Sec. 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and of 40CFR Part 372:*

CHEMICAL	CAS NO.	WT %
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NONE

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to the *Emergency Planning Requirements under Sec. 301-303 (40CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304:*

CHEMICAL	CAS NO.	WT %	RQ/TPQ Lbs
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NONE

(CERCLA LIST) This product contains the following HAZARDOUS SUBSTANCE(S) subject to *Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302):*

CHEMICAL	CAS NO.	WT %	Final RQ Lbs
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NONE

CALIFORNIA PROPOSITION 65

This product may contain trace quantities of the following chemicals that are identified by the State of California under the Safe Drinking Water and Toxic Reinforcement Act of 1986 ("Proposition 65") as either a carcinogenic or reproductive hazard:

CHEMICAL	CAS NO.	Estimated Concentration %
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NONE

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.

MATERIAL SAFETY DATA SHEET

DAUBERT CHEMICAL COMPANY

4700 SOUTH CENTRAL AVENUE
CHICAGO, ILLINOIS 60638
TELEPHONE: (708) 496-7350
FAX: (708) 496-7367

EMERGENCY CONTACT:
CHEMTREC (800) 424-9300

HMIS HAZARD RATING

HEALTH	1
FIRE	2
REACTIVITY	0
PERSONAL PROTECTION	D

Date of Review:
Date of Preparation: August 1, 2008

Revised: December 4, 2008
By: M. Longo

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **NOX-RUST® X128T**
Chemical Family: Petroleum Solvent/Additive Blend
Material Usage: Corrosion Preventive Compound

EMERGENCY OVERVIEW: Petroleum solvent-based product with solvent odor. Combustible liquid; when product burns it releases typical hydrocarbon products of combustion. Refer to Section 3 for health effects and to Section 5 for fire hazard data.

SECTION 2: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Aliphatic Petroleum Solvent CAS #64742-88-7 and/or #64742-47-8 and/or #8052-41-3	40-50	OSHA PEL: 100 ppm ACGIH TLV: 100 ppm ACGIH STEL: 200 ppm
Petroleum Hydrocarbon (Petrolatum) CAS #8009-03-8	20-25	OSHA PEL: 2 mg/m ³ ACGIH TLV: 2 mg/m ³ (for fumes)
Petroleum Wax CAS #64742-42-3	6-10	OSHA PEL: Not Established ACGIH TLV: 2 mg/m ³ (fumes)
^[1] Calcium Carbonate CAS #1317-65-3 and/or CAS #471-34-1	2-4	OSHA PEL: 5 mg/m ³ (respirable fraction) OSHA PEL: 15 mg/m ³ (total dust) ACGIH TLV: 10 mg/m ³ (^[2] nuisance dust)
^[1] Carbon Black CAS #1333-86-4	<1	OSHA PEL: 3.5 mg/m ³ (^[2] nuisance dust) ACGIH TLV: None Established

^[1]See Section 3.

^[2]This component poses a hazard only if the liquid dries and a dust is formed.

SECTION 3: HEALTH HAZARD INFORMATION

Primary Routes of Entry: Inhalation, skin absorption.

Acute Effects: Excessive inhalation may produce dizziness, nausea, headache, and incoordination. May cause severe eye irritation and reversible skin irritation. Prolonged skin exposure may cause dermatitis or oil acne. Breathing mists may cause dizziness or pulmonary irritation.

Carcinogenicity: Calcium carbonate, the product itself, is not listed by NTP, IARC, or OSHA as a carcinogen. There are no reported health effects associated with prolonged exposure to pure calcium carbonate. This product contains variable quantities of crystalline silica (quartz), which is considered a hazard by inhalation. IARC has classified crystalline silica as probably carcinogenic for humans (2A). This classification is based on the findings of laboratory animal studies that were considered to provide sufficient evidence and data from human epidemiological studies that were considered to provide limited evidence for carcinogenicity. Crystalline silica is also a known cause of silicosis, a noncancerous lung disease. NTP and OSHA have not classified crystalline silica as a carcinogen.

Carbon black has been classified by IRAC as a Category 2B (known animal carcinogen, possible human carcinogen) material. This was based on the results of rat inhalation studies of carbon black, despite the lack of parallel evidence on humans or other animal species.

Pre-Existing Medical Conditions Aggravated by Exposure: Exposure may aggravate pre-existing respiratory or skin problems.

SECTION 4: FIRST AID PROCEDURES

Inhalation: Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration; if breathing is difficult, give oxygen.

Eyes: In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.

Skin: Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site.

Ingestion: DO NOT INDUCE VOMITING. Consult a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point: 105°F. (TCC)

Explosive Limits:

LEL: 0.6

UEL: 7.0

EXTINGUISHING MEDIA: Small Fires: Dry chemical, CO₂, water spray, or regular foam. Large Fires: Water spray, fog, or regular foam. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks. For massive fire in cargo area, use unmanned hose holder or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

Special Firefighting Protection/Emergency Action: Fire may produce irritating or poisonous gases. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 1/2 mile in all directions if tank, rail car or tank truck is involved in fire. If runoff from fire control occurs, notify the appropriate authorities.

Unusual Fire/Explosion Hazards: Flammable/combustible material; may be ignited by heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Products of Combustion: Carbon monoxide, carbon dioxide, oxides of sulfur, miscellaneous hydrocarbons.

SECTION 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Steps to be taken in case Material is Released or Spilled: Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk.

Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills: Dike far ahead of liquid spill for later disposal.

SECTION 7: SAFE HANDLING INFORMATION

Precautions To Be Taken In Handling/Storage: Store in cool, well-ventilated area. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors.

Other Precautions: Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil-soaked shoes.

Wash thoroughly with soap and water (waterless hand cleaner may be helpful in removing residues) after use and before smoking or eating. Avoid excessive skin contact.

SECTION 8: EXPOSURE CONTROLS

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.

SECTION 9: REACTIVITY HAZARD DATA

Stability: Stable

Incompatibility: Strong acids, oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of sulfur, miscellaneous hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Black
Appearance:	Viscous Liquid
Odor:	Petroleum Solvent
Boiling Point (initial):	>300°F
Evaporation Rate (n-Butyl Acetate= 1) :	<1
Vapor Pressure (mmHg @ 20°C):	3.4
Vapor Density (air= 1) :	>1
Solubility in Water:	Negligible
Specific Gravity:	0.88
pH:	Not Applicable
Percent Volatile by Volume:	53

SECTION 11: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with state, local and federal regulations. Materials may become a hazardous waste through use. If permitted, incineration may be practiced. Consider recycling solvent.

NOX-RUST® X-128T MSDS (CONTINUED...)

SECTION 12: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)

VOC per gallon: 3.5 lbs/gal

VOC per gallon minus exempt solvents and water: 3.5 lbs/gal

EPA Hazardous Waste Number(s) (40CFR Part 261):

D001

EPA Hazard Category (40CFR Part 370):

DELAYED (CHRONIC)
FIRE HAZARD (COMBUSTIBLE)

SARA TITLE III

This product contains the following TOXIC CHEMICALS subject to the *Reporting Requirements of Sec. 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and of 40CFR Part 372:*

CHEMICAL	CAS NO.	WT %
NONE		

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to the *Emergency Planning Requirements under Sec. 301-303 (40CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304:*

CHEMICAL	CAS NO.	WT %	RQ/TPQ Lbs
NONE			

(CERCLA LIST) This product contains the following HAZARDOUS SUBSTANCE(S) subject to *Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302):*

CHEMICAL	CAS NO.	WT %	Final RQ Lbs
Aliphatic Petroleum Solvent	64742-88-7, 64742-47-8, 8052-41-3	40-50	100

CALIFORNIA PROPOSITION 65

This product may contain trace quantities of chemicals that are identified by the State of California under the Safe Drinking Water and Toxic Reinforcement Act of 1986 ("Proposition 65") as either a carcinogenic or reproductive hazard:

CHEMICAL	CAS NO.	Estimated Concentration %
Crystalline Silica (Naturally occurring in mined calcium carbonate)	14808-60-7	.03 max

Carbon Black (Crystalline Silica and carbon black only present hazards as respirable particles of 10 microns or less. Both are bound in the coating and will not be released as respirable particles.)	1333-86-4	<1
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Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.

**2001 through 2004 Model Year Tacoma Frame Rust Perforation
Warranty Enhancement Notification**

[VIN]

Dear Toyota Owner:

At Toyota, we are dedicated to providing vehicles of outstanding quality and value. As part of our continual efforts to meet your product expectations, Toyota will offer an extension to portions of your vehicle's (VIN noted above) New Vehicle Limited Warranty as it applies to your vehicle's frame.

What is the condition?

Toyota has received reports that a small number of 2001 through 2004 model year Tacomas operated in severe cold climate areas with high road salt use exhibited excessive rust to the frame, causing perforation of the metal. Toyota investigated these reports and determined that the frames in these vehicles may not have adequate corrosion-resistant protection for use in this environment. This combined with prolonged exposure to road salts and other environmental factors may contribute to the development of excessive rust in the frames of some vehicles. This condition is unrelated to and separate from normal surface rust which is commonly found on metallic surfaces after some years of usage and/or exposure to the environment.

What will Toyota do?

Although the vehicle's frame is covered by Toyota's New Vehicle Limited Warranty for 3 years or 36,000 miles (whichever comes first), we at Toyota care about your overall experience with and confidence in your vehicle. To assure you that we stand behind our product, we will extend the warranty coverage, to a total of fifteen years/unlimited mileage, on your vehicle's frame for this specific condition, subject to the terms and conditions of this Letter. Please see the "What Should I Do?" and "Warranty Enhancement Details" section of this letter for limitations and details.

What should I do?

If your vehicle is registered in the following states or the District of Columbia:

- CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, VA, VT, WI, WV

Toyota will inspect the condition of your vehicle's frame and apply a corrosion-resistant treatment. This treatment will enhance the corrosion protection of your Tacoma's frame against severe cold climate conditions and high road salt exposure. Any Toyota dealer located in the states listed above will be happy to conduct this inspection and treatment at **no charge** until **10/31/2010**. Please note that completion of this service before the expiration date is a condition of maintaining the extended warranty if your vehicle is registered in one of these states.

Please contact the Toyota dealer and make an appointment to have your Tacoma's frame inspected and a corrosion-resistant treatment applied before **10/31/2010**. Please present this Letter to the Toyota dealer at your appointment. The treatment may take one or two days. During the corrosion-resistant treatment process, your Toyota dealer will arrange for a complimentary loaner vehicle (upon proof of adequate insurance) for your use at no charge while the vehicle is being treated.

Because the extended warranty is for a total of fifteen years, it may be necessary to re-inspect and re-treat vehicles operated in areas where such prolonged exposure to road salts and other applicable environmental factors exist. Toyota will notify you if this is necessary.

If your vehicle is registered in the following states:

- AK, AL, AR, AZ, CA, CO, FL, GA, HI, IA, ID, KS, MT, LA, MO, MS, NC, ND, NE, NM, NV, OK, OR, SC, SD, TN, TX, UT, WA, WY and U.S. Territories

You do not need to do anything at this time. Please insert this Letter into your Toyota Owner's Manual Supplement or Owner's Warranty Information booklet or in the vehicle's glove box for future reference.

If you move to an area in which your vehicle may experience prolonged exposure to road salts and other environmental factors, please contact any Toyota dealer and make arrangements to have your vehicle inspected and, if appropriate, treated.

What if perforation of the vehicle's frame caused by rust exists on my vehicle?

If your Tacoma's frame is perforated by rust, contact any Toyota dealer and make arrangements to have your vehicle inspected. Please present this Letter to the Toyota dealer when you bring the vehicle in for your appointment.

After inspection and confirmation of the perforation condition, Toyota will repair the frame according to the perforation level and, if necessary, apply the corrosion-resistant treatment to prevent rust advancement.

Based upon the condition of your specific vehicle and replacement parts/frame availability, Toyota may determine to repurchase your vehicle rather than to repair it. If we decide to repurchase your vehicle, we will offer the following:

- Toyota will repurchase the vehicle **at the lower** of the original MSRP when the vehicle was first offered for sale by Toyota or the total amount of 1.5 times the Kelley Blue Book® Suggested Retail Value. If KBB valuation is used, the subject vehicle will be assessed, based on the actual mileage and zip code at the time of inspection, as a vehicle in excellent condition regardless of the vehicle's actual condition, subject to the terms and conditions set forth below. The offer will be based on the terms and conditions stated in the Warranty Enhancement Details. In the event of a repurchase, your Toyota dealer will arrange a complimentary loaner vehicle (upon proof of adequate insurance) for your use at no charge for up to 30 days.

Warranty Enhancement Details

The warranty extension is offered for a period of 15 years with no mileage limitations from the vehicle's in service date, for perforation of the vehicle's frame caused by rust, provided that you adhere to the terms and limitations specified in this letter.

This offer is limited to your specific vehicle whose Vehicle Identification Number (VIN) is printed in this letter and is subject to the same conditions set forth in the New Vehicle Limited Warranty section of your Owner's Manual Supplement or Owner's Warranty Information booklet, with the exception of the extended warranty coverage on the vehicle's frame. Eligibility notes: (1) Damage incurred from abuse, misuse, tampering, a crash, vandalism, flood-damage and/or other impact is not covered by this offer. (2) This offer does not apply to scrapped, salvaged, dismantled, flood-damaged, rebuilt or other branded/salvage title vehicles (excluding lemon law branded vehicles). (3) You must demonstrate that your vehicle is operable, has been operated regularly over the preceding twelve months and has a valid and current registration or you must demonstrate that you were unable to register the vehicle due to the perforation condition in order for this extended warranty coverage to be applied; (4) Vehicles with moderate, or more, accident damage must be driveable and, in any event, are not eligible for the full frame repair or repurchase consideration. (In these cases, any frame repair or repurchase consideration will take into account the cost to repair any accident damage as well as any insurance recovery); and (5) If your vehicle is registered in the states of CT, DE, IL, IN, KY, MA, MD, ME, MI, MN, NH, NJ, NY, OH, PA, RI, WI, WV, VA, VT or the District of Columbia a Toyota dealer must inspect and apply appropriate corrosion-resistant treatment to a vehicle with a non-perforated frame prior to October 31, 2010.

This program is intended for individual customer support and only applies to warranty work performed at an authorized Toyota dealership.

What if I have previously paid for the repair of the vehicle's frame for this specific condition as it applies to my 2001 through 2004 model year vehicle?

If you have previously paid for repair of the frame on your vehicle (VIN noted in this letter) for this specific condition before receiving this Letter, please contact Toyota at 1-888-270-9371.

If you no longer own this vehicle or would like to update your vehicle ownership/contact information, please go to www.toyota.com/ownersupdate. You will need your full 17-digit Vehicle Identification Number (VIN) to input the new information.

We have sent this notice in the interest of your continued satisfaction with our products, and we sincerely regret any inconvenience this condition may have caused you.

Thank you for driving a Toyota.

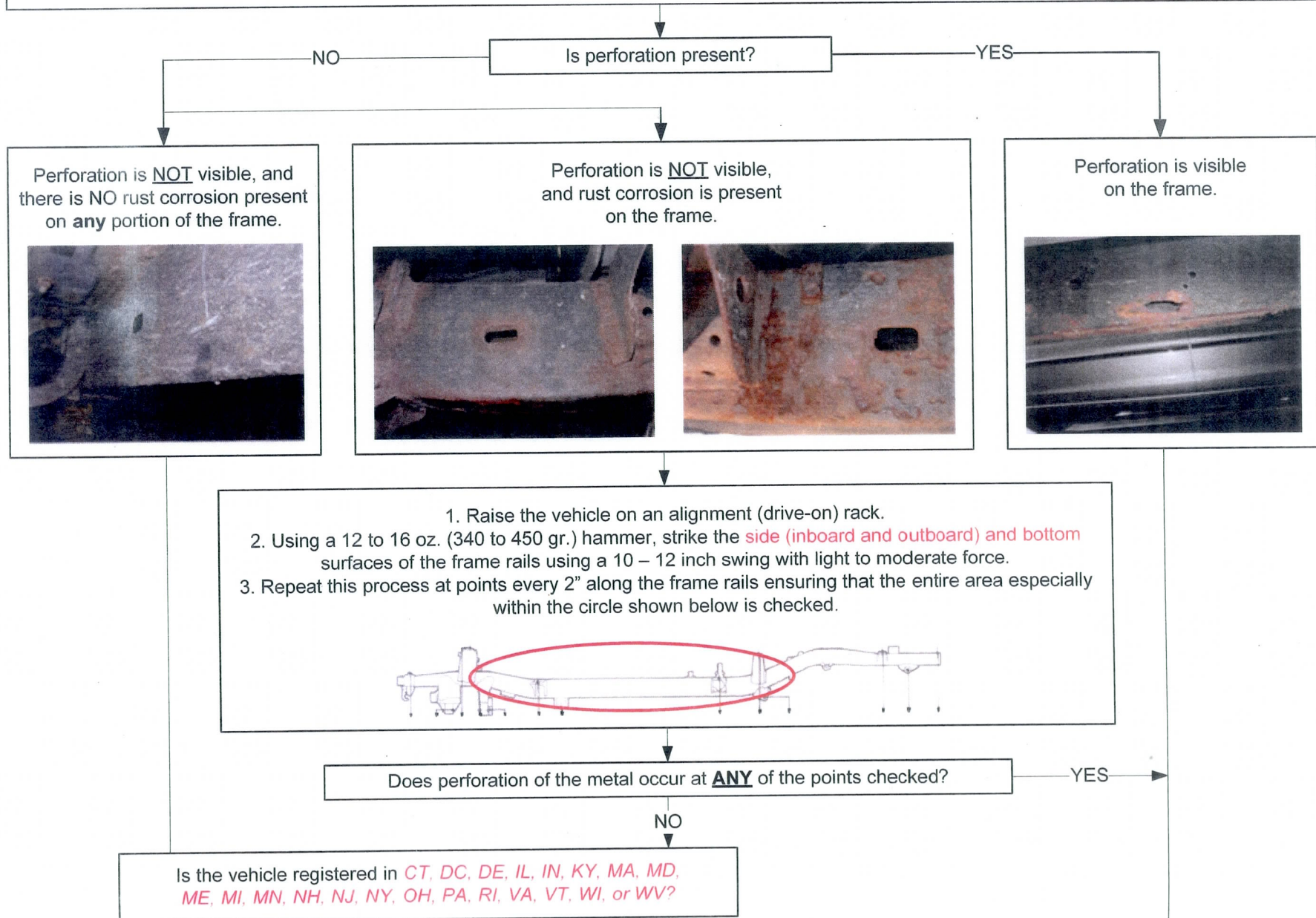
Sincerely,
TOYOTA MOTOR SALES, U.S.A., INC

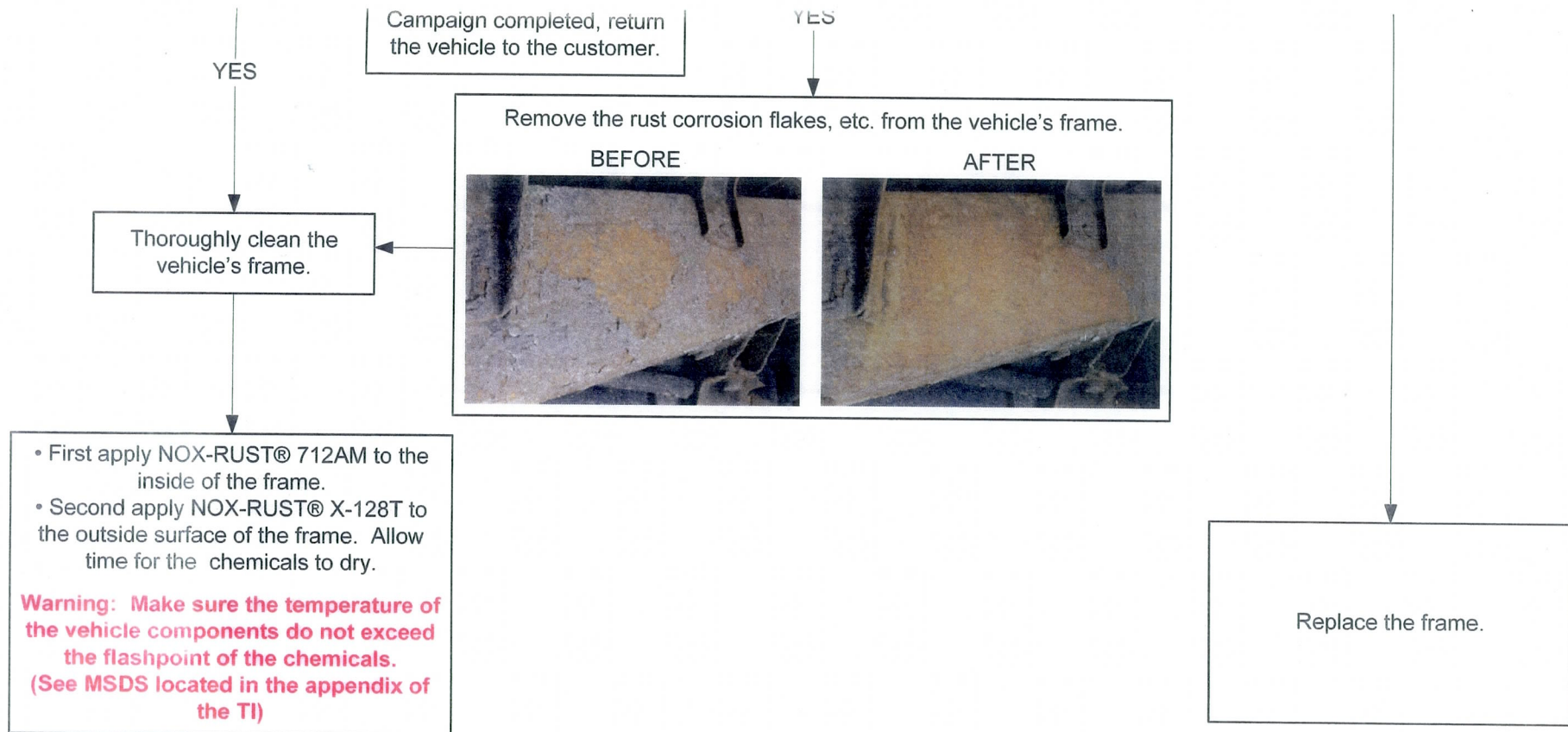
LSC 90D – 2001-2004 MODEL YEAR TACOMA FRAME PERFORATION INSPECTION AND OPERATION FLOWCHART

Before raising the vehicle on an alignment rack (or lift), visually inspect the **entire** frame assembly (top, side and bottom surfaces of the frame rails) for visible signs of perforation.

* Visually inspect the frame assembly for rust/corrosion, and follow the steps provided.

* **CAUTION:** Use protective eyewear and gloves when performing the under vehicle inspection as rusted metal may flake off.





WORK PROCEDURE CHECKLIST

WORK AREA

- ☐ Did you inspect the fire resistant coverings on the lift's swing arms for damage (cuts, tears, etc.) and replace as needed?
- ☐ Did you inspect the fire resistant covering on the floor for damage (cuts, tears, etc.) and replace as needed?
- ☐ Did you make sure the fire resistant covering on the floor was secure and does not create a slipping hazard?
- ☐ Did you inspect the partition(s) for damage (cuts, tears, etc.) and replace/repair as needed?

SPRAY GUN STORAGE

- ☐ Did you remove the air hose from the spray gun?
- ☐ Did you loosen the spray gun from the canister to release the air pressure, and retighten the spray gun to the canister once the air pressure has been released.?
- ☐ Did you cap the 712AM nozzle with the originally equipped nozzle cap and wrap the X128T nozzle with a plastic sheet secured by a rubber band?

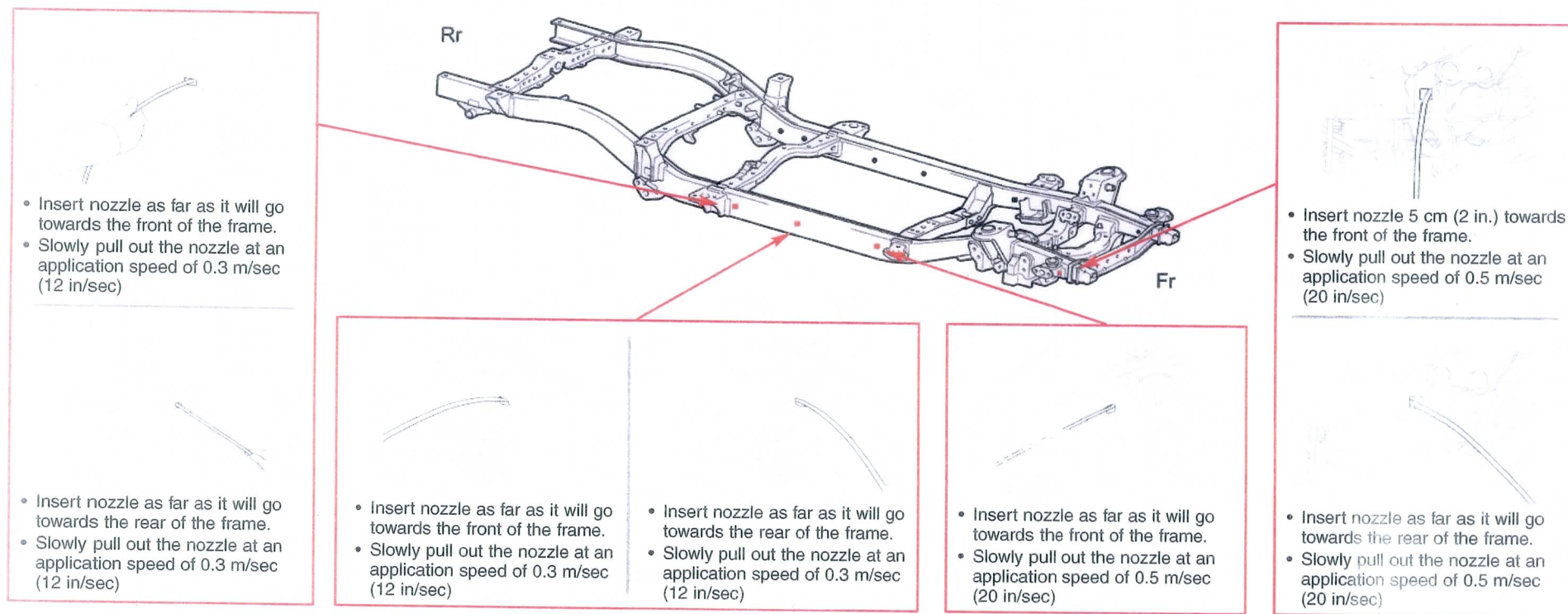
VEHICLE PREPARATION & FRAME CORROSION-RESISTANCE TREATMENT

- ☐ Did you check to make sure that the frame's drain holes are not covered by the lift's swing arms?
- ☐ Did you cover the identifying labels (i.e. VIN label, etc.) on the frame with tape?
- ☐ Did you plug the 20 mm x 20 mm square opening and the two 6 mm drain holes located on the left and right sides of the frame with shop cloths/paper towels?
- ☐ Did you wipe off any NOX-RUST® 712AM that may be on the external frame surfaces? If this is not done the X-128T may have difficulty adhering to these areas.
- ☐ Did you apply the NOX-RUST® X-128T external frame treatment to sections of the frame that were covered by the lift points?
- ☐ Did you remove the shop cloths/paper towels from the 20 mm x 20 mm square opening and the two 6 mm drain holes located on the left and right sides of the frame?
- ☐ Did you remove the tape covering the identifying labels (i.e. VIN label, etc.) on the frame?

OUTSIDE FRAME RAIL NOZZLE INSERTION POINT & DEPTH, & NOX-RUST® 712AM INTERNAL FRAME APPLICATION SPEED

Important: When applying the 712AM corrosion preventive compound, adjust the spray gun air pressure to 72.5 psi.

- Follow all MSDS guidelines for the 712AM corrosion preventive compound (sealant) which can be found in the technical instructions (TI).
- Only the outside frame rail nozzle insertion points are shown, see below for inside frame rail nozzle insertion locations.
- The exact insertion point locations may vary depending on the cab configuration.
- Follow the application speed directions to apply the sealant inside of the frame rail.
- Make sure to wear protective eyewear, chemical resistant gloves and refer to the MSDS located in the appendix of the TI when performing this procedure.
- Only one side is shown. Outside frame rail nozzle locations are the same on both sides.
- Make sure to repeat the 712AM application on the opposite frame rail so that both frame rails are sealed.
- Tape can be placed on the spray nozzle to reference insertion depth.



INSIDE FRAME RAIL NOZZLE INSERTION POINT & DEPTH, & NOX-RUST® 712AM INTERNAL FRAME APPLICATION SPEED

Important: When applying the 712AM corrosion preventive compound, maintain a spray gun air pressure of 72.5 psi.

- Follow all MSDS guidelines for the 712AM which can be found in the technical instructions.
- Only the inside frame rail nozzle insertion points are shown, see the previous section for outside frame rail nozzle insertion locations.
- The exact insertion point locations may vary depending on the cab configuration.
- Follow the application speed directions to apply the sealant inside of the frame rail.
- Only one side is shown. Inside frame rail nozzle locations are the same on both sides.
- Make sure to wear protective eyewear, chemical resistant gloves and refer to the MSDS located in the appendix of the TI when performing this procedure.
- Make sure to repeat the 712AM application on the opposite frame rail so both frame rails have sealant applied.
- Tape can be placed on the spray nozzle to reference insertion depth.



- Insert nozzle as far as it will go towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.5 m/sec (20 in/sec) to seal internal surfaces.

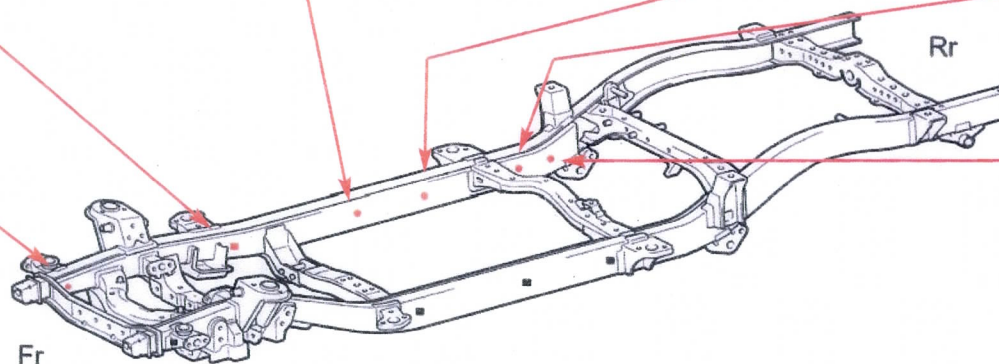
- Insert nozzle as far as it will go towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)

- Insert nozzle as far as it will go towards the rear of the frame.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)

- Apply the 712AM while turning the nozzle in a circular motion.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)

- Apply the 712AM while turning the nozzle in a circular motion.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)

- Insert nozzle as far as it will go towards the rear of the frame.
- Slowly pull out the nozzle at an application speed of 0.5 m/sec (20 in/sec)



- Insert nozzle 5 cm (2 in.) into the frame.
- Apply the 712AM while turning the nozzle in a circular motion.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)
- Please note this area maybe very tight.

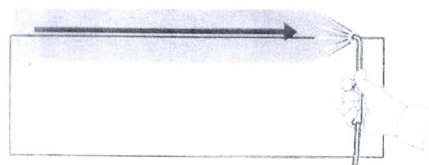
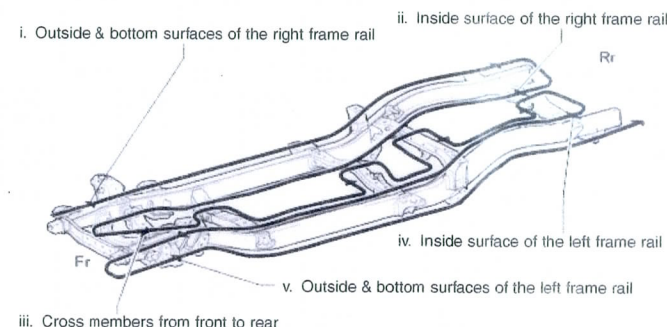
NOX-RUST® X-128T EXTERNAL FRAME APPLICATION SPEED

Important: When applying the X128T corrosion preventive compound, adjust the spray gun air pressure to 50 psi and maintain this pressure when applying.

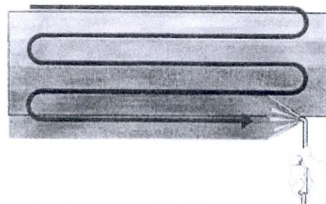
Make sure to wear protective eyewear, chemical resistant gloves and refer to the MSDS located in the appendix of the TI when performing this procedure.

Before beginning, please review the flow/order of the applications of the X-128T corrosion preventive compound (sealant) to the external frame, as shown in the illustration and as listed below. Follow the application speed directions to apply the sealant to the exterior of the frame rail.

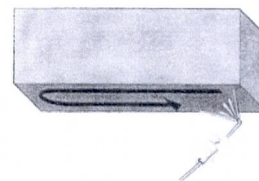
- Outside & bottom surfaces of the right frame rail (starting at the front of the vehicle)
- Inside surface of the right frame rail (starting with the rear of the vehicle)
- Cross members from front to rear (starting from the front of the vehicle)
- Inside surface of the left frame rail (starting with the rear of the vehicle)
- Outside & bottom surfaces of the left frame rail (starting at the front of the vehicle)



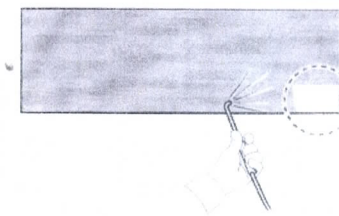
1. Starting in the top left corner of the section you are spraying, position the spray nozzle 20 to 25 cm (8 to 10 in.) away from the frame surface.
2. Apply the X-128T to the outside frame rail at a constant speed of 0.1 m/sec (4 in/sec).



3. Without stopping, move down, reverse direction as shown in the illustration until the section is completed. Slightly overlap each pass by 0.5 in. so no gaps appear.



4. Once the outside surface of the frame rail section you are working on has been completed, without stopping, spray the bottom side as shown.
5. Spray the remaining frame and cross member surfaces in the same manner.



6. After the entire frame has been sealed, inspect and spray any areas that may have been missed.

NOTE: After the vehicle has been removed from the lift, clean and spray the lift points.

Corrosion-Resistant Treatment

Dear Toyota Customer:

We appreciate your time and patience while we applied the Corrosion-Resistant Treatment to your Tacoma's frame. We apologize for any inconvenience you may have experienced.

The Corrosion-Resistant Treatment has been applied to both the internal and external surfaces of your vehicle's frame. Please note the following:

External Surface Corrosion-Resistant Treatment

The temperature of the frame will affect the drying time. Please do not touch the external surfaces of the frame as the treated surfaces may remain tacky to the touch for a period of time. You may also note a petroleum product based odor, therefore, you may wish to park your vehicle outside for two or three days.

Internal Surface Corrosion-Resistant Treatment

The internal surface treatment consists of mainly paraffin wax. You may notice a small amount of whitish-colored droplets from the internal application.

If dripping occurs on concrete:

1. Wipe up the spot as soon as possible with a paper towel.
2. Apply Simple Green® to any remaining wax.
3. Agitate the wax spot with a stiff scrub brush.
4. Wipe up the Simple Green®.
5. If the spot is still visible after 24 hours, repeat steps 1-4.

Some spots may require multiple treatments to no longer be visible.

Wash your hands immediately if you come into direct contact with either treatment material.

Thank you for driving a Toyota.

TOYOTA MOTOR SALES, U.S.A., INC.

00411-09001

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TO: ALL TOYOTA DEALER PRINCIPALS, SERVICE MANAGERS AND PARTS MANAGERS

DATE: 2009

RE: Information Packet for LSC 90D

LSC 90D - LIMITED SERVICE CAMPAIGN FOR
2001 - 2004 MODEL YEAR TACOMAS

MINNESOTA DEALER INFORMATION PACKET

In December 2008, Toyota announced a Customer Support Program (CSP) for certain '01-'04 Model Year (MY) Tacomas. In conjunction with the CSP, a LSC 90D will be launched to apply anti-corrosion materials to vehicles registered in the Severe Cold Climate States. The LSC has been activated on vehicles registered in Minnesota to coincide with the release of this Packet.

This Packet contains information to help you prepare to apply these materials to affected Tacomas. The LSC anti-corrosion materials contain Volatile Organic Compounds (VOCs) and other substances that are subject to federal, state and/or local laws related to *air emissions, fire code permitting, waste generation and recordkeeping*. Your dealership will be able to *comply with these laws without significant burdens on your business* as long as you follow the steps discussed in this Packet; therefore, please review this entire Information Packet with your service and parts staff **BEFORE** you begin conducting the LSC.

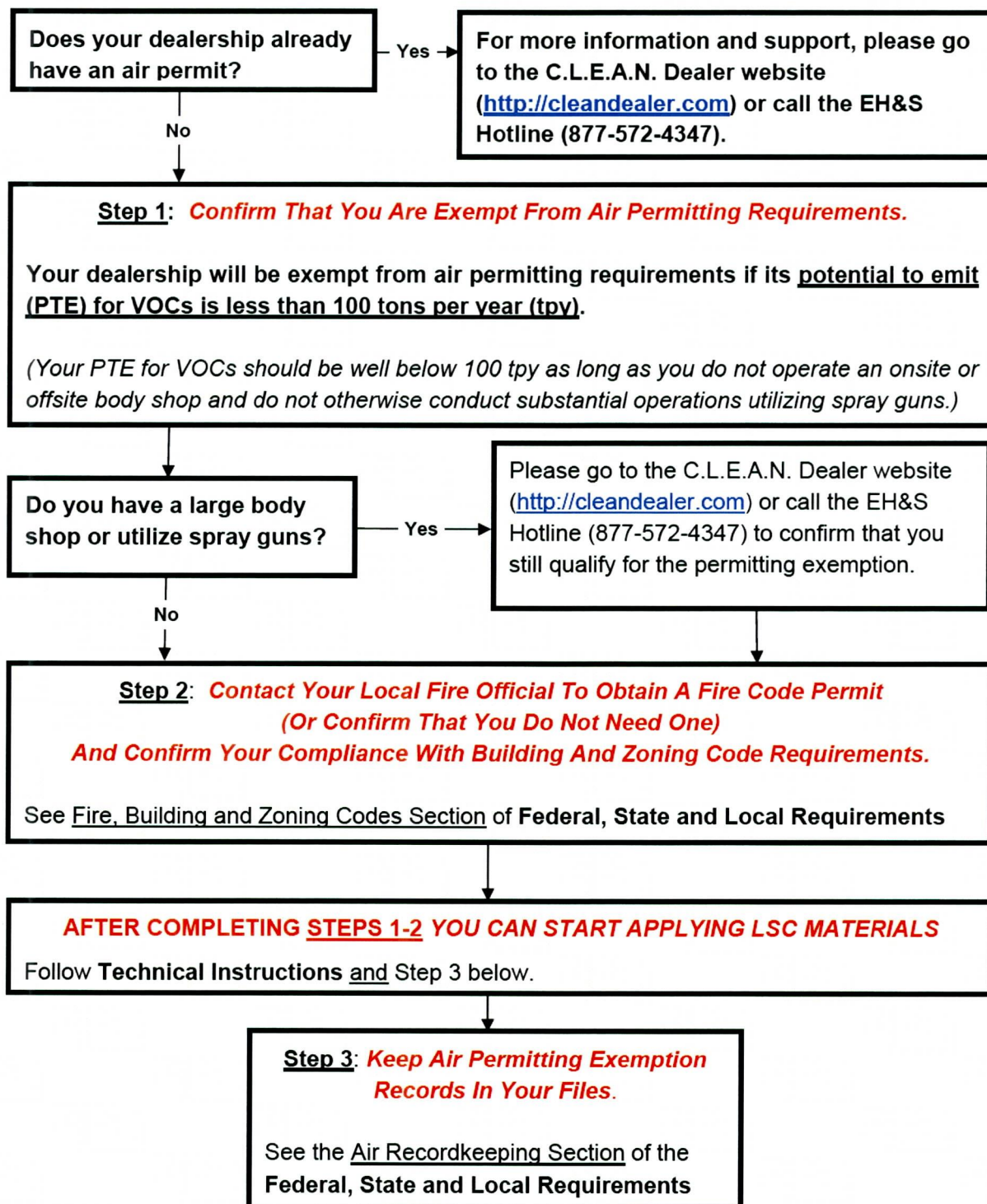
This Packet consists of three volumes:

1. **"Getting Started Guide"**: Gets you started by reviewing the steps your dealership should take to comply with federal, state and local laws.
2. **"Federal, State and Local Requirements Guide"**: Reviews in more detail relevant federal, state and local laws. Also provides compliance tools.
3. **"Technical Instructions"**: Contains detailed technical instructions that you should follow at all times.

Assumptions for this Packet: Your dealership (1) does not have a large onsite or offsite auto body shop; and (2) will conduct the LSC in its vehicle service area. If either assumption is incorrect, or if you need more information or support, please go to the C.L.E.A.N. Dealer website at <http://cleandealer.com> and select the LSC-90D link. You may also call the C.L.E.A.N. Dealer EH&S Hotline at 877-572-4347.

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HOW TO IMPLEMENT THE LSC?



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**LSC 90D - LIMITED SERVICE CAMPAIGN FOR
2001 - 2004 MODEL YEAR TACOMAS**

**MINNESOTA DEALER INFORMATION PACKET
GETTING STARTED GUIDE**

Where Will You Conduct The LSC? This Guide assumes your dealership: (1) will conduct the Limited Service Campaign (LSC) in its vehicle service area; and (2) does not have a large onsite or an offsite body shop.

If either assumption is incorrect, or if you plan to conduct the LSC in another area or state, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

PLEASE READ THIS GUIDE CAREFULLY SO THAT YOU UNDERSTAND THE STEPS YOUR DEALERSHIP SHOULD TAKE TO COMPLY WITH THE APPLICABLE LEGAL REQUIREMENTS:

- **BEFORE** beginning the LSC (see **Steps 1 and 2** below); and
- **WHILE** conducting the LSC (see **Step 3** below).

STEP 1 – BEFORE YOU BEGIN THE LSC, CONFIRM YOUR DEALERSHIP CAN STAY EXEMPT FROM AIR PERMITTING REQUIREMENTS

Do You Already Have An Air Permit? If your dealership already has an air permit, then you may need a permit modification before beginning the LSC. Please discontinue reading this **Guide** and go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) for more information and support.

The LSC anti-corrosion materials contain Volatile Organic Compounds (VOCs) and other substances subject to federal and state air quality laws. Generally, these laws allow emissions up to a certain level and require a facility, if it wishes to exceed that level, to obtain an air permit from the state.

YOUR DEALERSHIP WILL BE EXEMPT FROM AIR PERMITTING REQUIREMENTS IF ITS POTENTIAL TO EMIT (PTE) FOR VOCs IS LESS THAN 100 TONS PER YEAR (TPY). YOU SHOULD BE ABLE TO ADD THE LSC TO YOUR CURRENT OPERATIONS AND STAY WELL BELOW THE 100 TPY PTE EXEMPTION LEVEL, UNLESS YOUR DEALERSHIP CURRENTLY OPERATES A LARGE BODY SHOP OR OTHERWISE ENGAGES IN SUBSTANTIAL PAINTING, SPRAYING OR OTHER ACTIVITIES SIMILAR TO THE LSC USING SPRAY GUNS.

If your facility operates a large body shop or otherwise has substantial painting, coating, or spraying operations, please go to the C.L.E.A.N. Dealer website

(<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) for assistance determining whether you are exempt.

How Can I Learn More? Go to Air Regulations Section and Air Recordkeeping Section of the **Federal, State and Local Requirements Guide** for compliance information and tools.

STEP 2 – BEFORE YOU BEGIN APPLYING LSC MATERIALS, CONTACT YOUR LOCAL FIRE OFFICIAL FOR APPROVAL OF LSC ACTIVITIES AND MAKE SURE THAT YOUR DEALERSHIP CAN CONDUCT THE LSC IN COMPLIANCE WITH FIRE, BUILDING AND ZONING CODES

The LSC materials are combustible and subject to requirements under State and local fire codes. Building and zoning codes also can apply. The Fire, Building and Zoning Codes Section of the **Federal, State and Local Requirements Guide** reviews these important requirements, but in summary, **prior to starting the LSC, you must:**

1. **Contact your local fire official IN WRITING in order to: (A) provide information about the LSC; and (B) obtain a permit if required, or confirm that a permit is not required.**

What Do I Need To Give My Local Fire Official? Information in writing about the LSC and where your dealership will conduct it.

Depending upon your location, you will find everything you need to give the local fire official in either Appendix A or B of the Fire, Building and Zoning Codes Section. Table 1 in that Section tells you which Appendix (A or B) you should use for your location.

2. **Confirm that you can conduct the LSC in compliance with building, zoning and fire code requirements.**

How Do I Confirm Compliance With Building, Zoning and Fire Code Requirements? By confirming some information about your dealership's operations.

Go to the Fire, Building and Zoning Codes Section for the information you need to confirm. Remember to use Table 1 in that Section to look up whether your location is subject to any special additional requirements.

(Go To Next Page For Step 3)

After We Complete Steps 1 and 2, Can We Start The LSC?

Yes, **BUT** make sure to follow both (1) the detailed **Technical Instructions** and (2) Step 3 (permit exemption compliance records) below.

*You also should make sure to review the **Federal, State and Local Requirements Guide** so that you better understand the legal requirements for Steps 1, 2 and 3.*

STEP 3 – KEEP AIR PERMITTING EXEMPTION RECORDS

You must keep documents in your files demonstrating that your dealership's potential to emit VOCs is less than 100 tpy. Go to the Air Recordkeeping Section of the **Federal, State and Local Requirements Guide** for records that make this demonstration. You will not need to do anything with these records, except keep them in your dealership's files.

* * * * *

COMPLIANCE NOTE REGARDING REGULATED WASTE

The combustibility of the LSC materials means that waste containing those materials may qualify as regulated "hazardous" waste. However, the LSC will not generate any noticeable quantities of regulated hazardous waste in the normal course, given that the spray guns do not require cleaning. The LSC, therefore, will not impact your dealership's current waste generator status (e.g., whether you are a Small Quantity Generator or a Conditionally Exempt Small Quantity Generator of regulated waste).

*It is possible, however, that you may have rags used for clean-up in connection with the LSC or even excess quantities of the LSC materials that you intend to dispose of. You should handle these items in the same manner as other regulated hazardous waste at your dealership. See the Regulated Waste Management Section of the **Federal State and Local Requirements Guide** for more information.*

The steps outlined above should help you ensure that your dealership conducts the LSC in compliance with the relevant federal, state and local legal requirements. You should use this **Getting Started Guide** along with the other parts of the LSC Dealer Information Packet – the **Federal, State and Local Requirements Guide** and the **Technical Instructions**.

This Information Packet is not intended to cover other air, waste management, hazardous material, water or other environmental laws and regulations that might apply to non-LSC operations at your dealership. We assume that you already comply with these requirements.

If you have any questions after reviewing this information or as you proceed, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or EH&S Hotline (877-572-4347). Thank you for participating in the 2001-2004 Tacoma Limited Service Campaign.

Thank you for your cooperation.
TOYOTA MOTOR SALES, U.S.A., INC.

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TOYOTA

TO: ALL TOYOTA DEALER PRINCIPALS, SERVICE MANAGERS AND PARTS MANAGERS

LSC 90D - LIMITED SERVICE CAMPAIGN FOR
2001 - 2004 MODEL YEAR TACOMAS

MINNESOTA DEALER INFORMATION PACKET FEDERAL, STATE AND LOCAL REQUIREMENTS GUIDE

*Please review the entire Dealer Information Packet
-- including this Guide to Federal, State and Local Requirements --
with your Service and Parts staff.*

For the Limited Service Campaign (LSC), your dealership will use a separate Vaupel 3300 spray gun to apply two different anti-corrosion materials (protective sealants) known as "NOX-RUST® X128T" and "NOX-RUST® 712 AM", both of which are combustible and contain Volatile Organic Compounds (VOCs). The application of these materials will result in air emissions. As a result, your dealership will need to conduct the LSC in compliance with legal requirements for:

- Air Emissions by the Minnesota Pollution Control Agency (MPCA); and
- Spraying & Storage of Combustible Liquids Under State and Local Building, Zoning and Fire Codes.

This **Guide** has been organized with separate sections that address each of these kinds of legal requirements. These sections are labeled by topic so that you can easily review the information now, and also later find the information should questions arise when you are conducting the LSC. **Important pages which you must read are marked in red on the edge of the page. If you need additional information, please refer to the other pages.**

1. "AIR REGULATIONS" SECTION

- a. The Air Regulations Section provides a detailed review of federal and state laws that will regulate air emissions from the LSC at your dealership. In general, these laws allow air emissions up to a certain level and require a facility, if it wishes to exceed that level, to request permission from the state through an air permitting process.
- b. We **assume** that your dealership currently has air emissions below air permitting levels, and therefore, is currently exempt from air permitting requirements. **You should review the Air Regulations Section**

carefully to make sure that your dealership can conduct the LSC and stay exempt from air permitting. As explained in that Section, you should be able to apply the LSC materials to all of the trucks in your service area without triggering air permitting requirements unless your dealership already has notable sources of air emissions, such as a large body shop or substantial spray gun operations.

- c. If you have a large onsite or offsite auto body shop or substantial spraying operations, or if you already have an air permit, please go to the C.L.E.A.N. Dealer website at <http://cleandealer.com> and select the LSC-90D link. You may also call the C.L.E.A.N. Dealer EH&S Hotline at (877-572-4347) for more information and support.

2. “AIR RECORDKEEPING” SECTION

- a. The Air Recordkeeping Section contains the documents that your dealership will need to retain regarding the air emissions from the LSC. *These forms will help to make sure that your dealership can conduct the LSC and stay exempt from air permitting, and also can be used as records to demonstrate your dealership’s compliance with the applicable requirements. You will not need to do anything with these records except keep them in your files.*
- b. *As explained in the Air Regulations Section, we recommend that you maintain these documents for 5 years from the commencement of the LSC.*

3. “FIRE, BUILDING, AND ZONING CODES” SECTION

- a. The Fire, Building, and Zoning Codes Section reviews state and local fire, building, and zoning codes. In general, these codes apply due to the combustibility of the two LSC anti-corrosion materials. Review all of the information carefully to make sure that your dealership can conduct the LSC in compliance with these codes.
- b. **IMPORTANT:** As explained at the Fire, Building, and Zoning Codes Section, prior to implementing the LSC, your dealership will need to contact your local fire official in order to:
 - (1) Provide information about the LSC; and
 - (2) Obtain a fire permit OR confirm, in writing, that a permit is not required.
- c. Appendices A and B to the Fire, Building, and Zoning Codes Section contain letters and all of the technical information that you will need to provide to your local fire official, except that you will need to add

some descriptive information about the location at your dealership where you will conduct the LSC to the materials in the Appendices.

Go to Table 1 in the Fire Building and Zoning Codes Section to determine which Appendix (A or B) applies to your dealership. If you have any questions or concerns relating to discussions with your local fire official, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

- d. Prior to conducting the LSC, your dealership will also need to confirm that it can conduct the LSC in compliance with other building and zoning code requirements. Go to Table 1 in the Fire Building and Zoning Codes Section for additional information.

4. “REGULATED WASTE MANAGEMENT” SECTION

- a. The Regulated Waste Management Section reviews the requirements that apply generally to regulated hazardous wastes that may be generated by your dealership.
- b. The combustibility of the LSC materials means that waste containing those materials may qualify as regulated hazardous waste. However, the LSC will not generate any noticeable quantities of regulated hazardous waste in the normal course, given that the LSC spray guns do not require cleaning. The LSC, therefore, will not impact your dealership’s current waste generator status (e.g., whether you are a Small Quantity Generator or a Conditionally Exempt Small Quantity Generator of regulated waste).
- c. It is possible, however, that you may have rags used for clean-up in connection with the LSC or even excess quantities of the LSC materials that you intend to dispose of. You should handle these items in the same manner as other regulated hazardous waste at your dealership.

* * * * *

This **Federal, State and Local Requirements Guide** is not intended to cover air, waste management, hazardous material, water or other environmental laws and regulations that might apply to non-LSC operations at your dealership. We assume that you already have systems in place to comply with any other environmental, health and safety requirements that apply to your dealership.

If you have any questions after reviewing this information or as you proceed, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

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TO: ALL TOYOTA DEALER PRINCIPALS, SERVICE MANAGERS AND PARTS MANAGERS

**LSC 90D - LIMITED SERVICE CAMPAIGN FOR
2001 - 2004 MODEL YEAR TACOMAS**

**MINNESOTA DEALER INFORMATION PACKET
FEDERAL, STATE AND LOCAL REQUIREMENTS GUIDE**

***Please review the entire Dealer Information Packet
-- including this Guide to Federal, State and Local Requirements --
with your Service and Parts staff.***

For the Limited Service Campaign (LSC), your dealership will use a separate Vaupel 3300 spray gun to apply two different anti-corrosion materials (protective sealants) known as "NOX-RUST® X128T" and "NOX-RUST® 712 AM", both of which are combustible and contain Volatile Organic Compounds (VOCs). The application of these materials will result in air emissions. As a result, your dealership will need to conduct the LSC in compliance with legal requirements for:

- Air Emissions by the Minnesota Pollution Control Agency (MPCA); and
- Spraying & Storage of Combustible Liquids Under State and Local Building, Zoning and Fire Codes.

This **Guide** has been organized with separate sections that address each of these kinds of legal requirements. These sections are labeled by topic so that you can easily review the information now, and also later find the information should questions arise when you are conducting the LSC. ***Important pages which you must read are marked in red on the edge of the page. If you need additional information, please refer to the other pages.***

1. "AIR REGULATIONS" SECTION

- a. The Air Regulations Section provides a detailed review of federal and state laws that will regulate air emissions from the LSC at your dealership. In general, these laws allow air emissions up to a certain level and require a facility, if it wishes to exceed that level, to request permission from the state through an air permitting process.
- b. We ***assume*** that your dealership currently has air emissions below air permitting levels, and therefore, is currently exempt from air permitting requirements. **You should review the Air Regulations Section**

carefully to make sure that your dealership can conduct the LSC and stay exempt from air permitting. As explained in that Section, you should be able to apply the LSC materials to all of the trucks in your service area without triggering air permitting requirements unless your dealership already has notable sources of air emissions, such as a large body shop or substantial spray gun operations.

- c. If you have a large onsite or offsite auto body shop or substantial spraying operations, or if you already have an air permit, please go to the C.L.E.A.N. Dealer website at <http://cleandealer.com> and select the LSC-90D link. You may also call the C.L.E.A.N. Dealer EH&S Hotline at (877-572-4347) for more information and support.

2. “AIR RECORDKEEPING” SECTION

- a. The Air Recordkeeping Section contains the documents that your dealership will need to retain regarding the air emissions from the LSC. *These forms will help to make sure that your dealership can conduct the LSC and stay exempt from air permitting, and also can be used as records to demonstrate your dealership's compliance with the applicable requirements. You will not need to do anything with these records except keep them in your files.*
- b. *As explained in the Air Regulations Section, we recommend that you maintain these documents for 5 years from the commencement of the LSC.*

3. “FIRE, BUILDING, AND ZONING CODES” SECTION

- a. The Fire, Building, and Zoning Codes Section reviews state and local fire, building, and zoning codes. In general, these codes apply due to the combustibility of the two LSC anti-corrosion materials. Review all of the information carefully to make sure that your dealership can conduct the LSC in compliance with these codes.
- b. **IMPORTANT:** As explained at the Fire, Building, and Zoning Codes Section, prior to implementing the LSC, your dealership will need to contact your local fire official in order to:
 - (1) Provide information about the LSC; and
 - (2) Obtain a fire permit OR confirm, in writing, that a permit is not required.
- c. Appendices A and B to the Fire, Building, and Zoning Codes Section contain letters and all of the technical information that you will need to provide to your local fire official, except that you will need to add

some descriptive information about the location at your dealership where you will conduct the LSC to the materials in the Appendices.

Go to Table 1 in the Fire Building and Zoning Codes Section to determine which Appendix (A or B) applies to your dealership. If you have any questions or concerns relating to discussions with your local fire official, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

- d. **Prior to conducting the LSC, your dealership will also need to confirm that it can conduct the LSC in compliance with other building and zoning code requirements.** Go to Table 1 in the Fire Building and Zoning Codes Section for additional information.

4. “REGULATED WASTE MANAGEMENT” SECTION

- a. The Regulated Waste Management Section reviews the requirements that apply generally to regulated hazardous wastes that may be generated by your dealership.
- b. The combustibility of the LSC materials means that waste containing those materials may qualify as regulated hazardous waste. However, the LSC will not generate any noticeable quantities of regulated hazardous waste in the normal course, given that the LSC spray guns do not require cleaning. The LSC, therefore, will not impact your dealership's current waste generator status (e.g., whether you are a Small Quantity Generator or a Conditionally Exempt Small Quantity Generator of regulated waste).
- c. It is possible, however, that you may have rags used for clean-up in connection with the LSC or even excess quantities of the LSC materials that you intend to dispose of. You should handle these items in the same manner as other regulated hazardous waste at your dealership.

* * * * *

This **Federal, State and Local Requirements Guide** is not intended to cover air, waste management, hazardous material, water or other environmental laws and regulations that might apply to non-LSC operations at your dealership. We assume that you already have systems in place to comply with any other environmental, health and safety requirements that apply to your dealership.

If you have any questions after reviewing this information or as you proceed, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

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**LSC 90D - LIMITED SERVICE CAMPAIGN FOR
2001 - 2004 MODEL YEAR TACOMAS**

**MINNESOTA DEALER INFORMATION PACKET
FEDERAL, STATE AND LOCAL REQUIREMENTS GUIDE
AIR REGULATIONS SECTION**

Do You Already Have An Air Permit? If yes, you may need a permit modification before conducting the LSC. Please discontinue reading. For more information and dealer support, please go to the C.L.E.A.N. Dealer website at <http://cleandealer.com> and select the LSC-90D link. You may also call the C.L.E.A.N. Dealer EH&S Hotline at 877-572-4347.

I. AIR PERMITTING REQUIREMENTS: ARE YOU EXEMPT?

The interior anti-corrosion material ("Nox-Rust® 712AM") and the exterior anti-corrosion material ("Nox-Rust® X128T") applied during LSC activities contain Volatile Organic Compounds (VOCs) and Particulate Matter (PM). Federal and state laws allow emissions of these substances up to certain levels and require a facility wishing to exceed those levels to obtain an air permit from the state.

Important: Air Emission Limits Apply To Your Entire Dealership. The air permitting laws apply based on total emissions from an entire facility and not just from a particular building or location. For example, if your dealership's physical plant is distributed across multiple buildings, land parcels or physical locations, then the air emissions from all of those buildings and locations would have to be combined to determine whether the dealership's total air emissions are below air permitting levels. In some cases, even emissions from offsite locations that are not physically adjacent to a dealership (such as a large offsite body shop) must be combined with the dealership's emissions to make this air permitting determination.

We assume that your dealership is currently exempt from air permitting requirements. Your dealership should be able to conduct the LSC and stay exempt from air permitting requirements so long as your dealership's potential to emit VOCs is less than the 100 tons per year (tpy). You will satisfy this requirement if criteria A., B. and C. on Page 2 are met.

If you do not think your dealership can comply with the requirements below, or for more information and support, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

YOUR DEALERSHIP SHOULD NOT NEED AN AIR PERMIT IF:

A. YOUR DEALERSHIP DOES NOT HAVE A LARGE ONSITE OR AN OFFSITE BODY SHOP.

Why Does It Matter If I Have A Body Shop? Air emissions from your entire dealership must be combined to determine if your air emissions are above air permitting levels. Because body shops typically have higher air emissions than a regular vehicle service area, further analysis is needed to be certain that your dealership will be exempt from air permitting after adding the LSC.

In particular, if you have a large onsite body shop, then you must combine the emissions from the body shop with the emissions from all other activities at the dealership. Moreover, the state may require you to combine emissions from an offsite body shop --even if the body shop is not where you will conduct the LSC -- if that body shop has a sufficient interconnection to the rest of the activities at your dealership. Adding the LSC emissions to existing body shop emissions may result in your dealership needing to obtain an air permit, even if it was previously exempt.

If your dealership has a large onsite or an offsite body shop, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

B. YOUR DEALERSHIP WILL CONDUCT THE LSC IN AN EXISTING SERVICE AREA.

Do I Have To Conduct The LSC In An Existing Service Area? No, but if you plan to conduct the LSC in another area (such as in an offsite body shop) or in another state, then you may not be able to stay exempt from air permitting and/or you may be subject to different requirements. For more information and support, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

C. YOUR DEALERSHIP DOES NOT CURRENTLY ENGAGE IN ACTIVITIES SIMILAR TO THE LSC, SUCH AS PAINTING AND COATING WITH SPRAY GUNS.

Why Does It Matter If I Have Other Spray Guns? Spray guns have low actual air emissions, but a much higher potential to emit (PTE). It is possible, therefore, if you already use spray guns that adding the LSC spray guns would increase your PTE over the 100 tpy permit exemption. Please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) for assistance in making this PTE determination.

How Can I Learn More About How These Air Permitting Exemption Requirements Will Apply To My Dealership? The discussion in Parts II through IV below provides further explanation of the air permitting exemption requirements. You should review them carefully to ensure that you understand the basis for these requirements and how they will apply to your dealership.

II. AIR PERMITTING REQUIREMENTS: UNDERSTANDING HOW THEY WILL APPLY TO YOUR DEALERSHIP

1. Volatile Organic Compounds (VOCs)

a. Potential To Emit: Stay Below 100 Tons Per Year

- (1) **Potential** VOC emissions from all activities (both LSC and non-LSC) at your dealership must be less than 100 tons per year (“tpy”) to stay exempt from air permitting. The LSC has low potential VOC emissions; therefore, you should be able to add the LSC to your current operations and stay well below the 100 tpy exemption level, unless your dealership currently operates a large body shop or otherwise engages in substantial painting, spraying or other activities similar to the LSC using spray guns.
- (2) If your facility operates a body shop or otherwise has substantial painting, coating, or spraying operations, **please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) for assistance determining whether you are exempt.**
- (3) You will need to document your exemption from permitting based on your limited potential to emit. Included in the Air Recordkeeping Section of this **Guide** is a document showing the “Potential to Emit” calculations for the LSC. You should keep this document in your files at your dealership; however, you should not need to do anything else with this document.

2. Particulate Matter (PM) Emissions: Stay Below 25 Tons Per Year And Within Allowable Emissions Rate

- a. **Potential** emissions of small particulates (with diameter less than 10 microns or “PM₁₀”) from all activities (both LSC and non-LSC) at your dealership must be less than 25 tpy to stay exempt from air permitting. The LSC has low potential PM₁₀ emissions, and your dealership’s potential PM₁₀ emissions from other activities

likewise would be expected to fall well below this 25 tpy air permitting level.

- b. **In addition to the 25 tpy air permitting level for all activities, PM emissions from any individual piece of “industrial process equipment” must not exceed allowable PM emissions rates.**

- (1) **In the case of the LSC, the Allowable PM Emissions Rate is 0.21 pounds per hour. As long as your dealership conducts the LSC in accordance with the Technical Instructions, the LSC should have potential PM emissions of 0.16 pounds per hour, which falls below the Allowable PM Emissions Rate.**
- (2) Minnesota regulations do not require you to maintain PM emissions records; however, if questions arise regarding PM emissions from the LSC, you can refer to the information in footnote 1 below as your record of how the Allowable PM Emissions Rate calculation was performed for the LSC.¹

3. **Other Emissions: Stay Below State Limits**

- a. In addition to the VOC and PM thresholds, an air permit is also required if **Potential** emissions of Sulfur Dioxide (SO₂) or Lead exceed the following state established limits:
 - (1) Lead - 0.5 tpy.
 - (2) SO₂ - 50.0 tpy.
- b. Since the LSC does not emit any SO₂ or Lead, the LSC will not cause your dealership to exceed these air permitting thresholds.

¹ This allowable PM emission rate for each individual piece of PM-emitting equipment is calculated by the formula: Emission Rate (lbs/hr) = 3.59 x (Process Weight Rate)^{0.62}. See MINN. R. 7011.0715 Subpart 1; MINN. R. 7011.0730.

“Process Weight” means the total weight, in pounds, of all materials introduced into any specific process that may cause the emission of particulate matter and should be expressed in tons per hour (tph). For batch processes, like the LSC, it is calculated by dividing the total weight of materials introduced into one batch of a process divided by the time it takes to complete the batch (completion time excludes the time the PM emitting equipment is idle). The LSC’s Process Weight Rate is 0.01 tph. The formula for calculating the Allowable PM Emission Rate yields the Allowable Emissions Rate reported above.

Do I Have To Consider My Entire Dealership's Operations Or Only Operations At The Place Where I Will Conduct The LSC? Please remember that the air permitting exemption requirements cover YOUR ENTIRE DEALERSHIP and NOT just the buildings or locations where you will conduct the LSC. For example, the 100 tpy emission limit for VOCs applies to your entire dealership's operations, even if your operations are distributed across multiple buildings or locations.

III. AIR PERMITTING REQUIREMENTS: YOUR RECORDKEEPING OBLIGATIONS

The Air Recordkeeping Section contains documents that you can use to demonstrate that you are exempt from air permitting, in the event any questions are raised. Keeping these records in your files is prudent, even if not specifically required:

1. Information Documenting the LSC's Potential-to-Emit VOC, PM, Lead, and SO₂; and
2. California South Coast Air Quality Management District's ("SCAQMD") determination that the Vaupel 3300 Spray Guns for the LSC are equivalent to High Volume Low Pressure Application Equipment;² and
3. LSC Equipment Manufacturer's Specifications; and
4. Material Safety Data Sheets for the LSC materials (NOTE: These should also be maintained with your other MSDSs, in compliance with OSHA requirements).

We recommend that you keep these records in your files for 5 years.

² Approval from the California South Coast Air Quality Management District ("SCAQMD") to use the HSDR 3300 in the SCAQMD for the LSC spray guns as "equivalent" to an HVLP spray gun.

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**AIR
RECORDKEEPING**

**LSC 90D - LIMITED SERVICE CAMPAIGN FOR
2001 - 2004 MODEL YEAR TACOMAS**

**MINNESOTA DEALER INFORMATION PACKET
FEDERAL, STATE AND LOCAL REQUIREMENTS GUIDE
AIR RECORDKEEPING SECTION**

IMPORTANT: Please maintain these documents in your dealership's records for at least 5 years after the completion of the LSC.

Your dealership must maintain the documents listed below to comply with applicable Minnesota record retention and availability requirements, which require the owner or operator of an exempt air contaminant source or device to maintain on-site the following records:

1. Information Documenting the LSC's Potential-to-Emit VOC, PM, Lead, and SO₂; and
2. California South Coast Air Quality Management District's ("SCAQMD") determination that the Vaupel 3300 Spray Guns for the LSC are equivalent to High Volume Low Pressure Application Equipment;³ and
3. LSC Equipment Manufacturer's Specifications; and
4. Material Safety Data Sheets for the LSC materials (NOTE: These should also be maintained with your other MSDSs, in compliance with OSHA requirements).

We recommend that you keep these records in your files for 5 years after the completion of the LSC.

Notes:

- I. You do not need to do anything with the documents above. You should simply keep them in your files. You may need to provide them if requested by a government agency.

³ Approval from the California South Coast Air Quality Management District ("SCAQMD") to use the HSDR 3300 in the SCAQMD for the LSC spray guns as "equivalent" to an HVLP spray gun.

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**LSC 90D - LIMITED SERVICE CAMPAIGN FOR
2001 - 2004 MODEL YEAR TACOMAS**

LSC PTE EXPLANATION

TO: ALL TOYOTA DEALER PRINCIPALS, SERVICE MANAGERS AND PARTS MANAGERS

DATE: 2009

SUBJECT: LIMITED SERVICE CAMPAIGN POTENTIAL-TO-EMIT

As noted above, your dealership will be exempt from air permitting requirements if its "potential to emit" (PTE) for volatile organic compounds (VOCs) is less than 100 tons per year (tpy). You should be able to add the LSC to your current operations and stay well below the 100 tpy PTE exemption level, unless your dealership currently operates a large body shop or otherwise engages in substantial painting, spraying or other activities that use spray guns. Spray guns have low actual air emissions, but a higher PTE. It is possible, therefore, that if you already use spray guns, then adding the LSC spray operation could increase your PTE over the 100 tpy permit exemption.

It has been determined that the PTE for dealerships implementing the program in Minnesota will be:

- Volatile Organic Compounds (VOCs) – 2.6 tpy.
- Stoddard Solvent – 2.5 tpy.
- PM (including heavy petroleum compounds and other oils) – 0.07 tpy.
- Calcium Carbonate – 0.006 tpy.
- Carbon Black – 0.001 tpy.

In addition to the PTE for the contaminants above, it should be noted that the LSC materials do not result in the emission of any federally listed hazardous air pollutants (HAPs), SO_x, NO_x or lead, and therefore the PTE for those contaminants is zero.

If there are any questions regarding the LSC's PTE, or if you would like additional information, please call the EH&S Hotline (877-572-4347) for assistance prior to providing any information regarding the LSC's PTE to any third parties.

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**LSC 90D - LIMITED SERVICE CAMPAIGN FOR
2001 - 2004 MODEL YEAR TACOMAS**

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
APPROVAL OF LSC SPRAY GUNS**

TO: ALL TOYOTA DEALER PRINCIPALS, SERVICE MANAGERS AND PARTS MANAGERS

DATE: 2009

RE: California South Coast Air Quality Management District ("SCAQMD") Equivalency Determination

Attached is a determination by the California South Coast Air Quality Management District ("SCAQMD") that the Vaupel HSDR 3300 spray guns used to apply the LSC materials are "equivalent" to High Volume Low Pressure ("HVLP") spray guns. As the attached letter indicates, the spray guns used for LSC activities have a higher transfer efficiency and thus outperform HVLP guns.

It should be noted that, aside from this equivalency determination, there are certain restrictive conditions in this letter that are based on rules and regulations governing use of the Vaupel spray guns in the SCAQMD in California; these conditions are unrelated to the transfer efficiency or equivalency to HVLP of the LSC spray guns and are not controlling in Minnesota.

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South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

March 10, 2009

Mr. Daniel E. Monette
National Manager
Environmental, Health and Safety
Toyota Motor Sales, U.S.A., Inc.
19001 South Western Avenue
Torrance, CA 90501

Dear Mr. Monette:

Subject: Rule 1151 Transfer Efficiency Approval of the Vaupel HSDR 3300 Spray Gun

The South Coast Air Quality Management District (District) has completed our review of your report entitled "Spray Equipment Transfer Efficiency Test of the Vaupel HSDR 3000: Final Report" dated December 23, 2008 including the supplemental information dated January 16, 2009 and January 30, 2009. The results of the transfer efficiency testing performed indicate that the Vaupel HSDR 3300 spray gun is capable of achieving a transfer efficiency of 92.5% for the application tested. Toyota Motor Sales also wants to use the Vaupel HSDR 3300 spray gun to apply a coating to the interior of truck tubular frame rails. While actual transfer efficiency testing was not conducted to simulate the proposed interior application, Toyota Motor Sales did submit information on February 26, 2009 regarding the configuration of the frame rails and the coating to be used. A review of this information indicates that the transfer efficiency for coating the interior of the frame rails should approach 99%. Due to the viscosity of the coating to be applied to the exterior of the frame rail and the interior configuration of the frame rail, neither the exterior coating nor the interior coating could be successfully applied by high-volume low-pressure (HVLP) spray equipment. As a result, a direct comparison of the transfer efficiencies of the Vaupel HSDR 3300 spray gun and HVLP spray equipment could not be accomplished. However, the demonstrated transfer efficiency of 92.5% for the Vaupel HSDR 3300 spray gun while applying the exterior coating and the calculated transfer efficiency of approximately 99% when applying coating to the interior of the frame rails are equivalent to or better than the transfer efficiency results for HVLP spray equipment we have seen in prior tests. Therefore, the Vaupel HSDR 3300 spray gun is approved for limited operations subject to Rule 1151, Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations, under Rule 1151(d)(7)(A)(iii). This approval is subject to the following conditions.

1. The Vaupel HSDR 3300 spray gun shall only be used to apply Daubert NOX-RUST X128T and NOX-RUST 712AM corrosion preventive coatings to the frame rails of Toyota Tacoma trucks model years 2001-2004 at the Toyota

Motor Sales, U.S.A., Inc. facility located at 2015 W. 190th Street, Torrance, CA 90501 and identified by District facility ID 80904.

2. This approval is only valid if the air pressure supplied to the Vaupel HSDR 3300 spray gun is equal to or less than 50 psig when applying the Daubert NOX-RUST X128T coating and equal to or less than 75 psig when applying the Daubert NOX-RUST 712AM coating.
3. This approval is only valid if during actual operation the Vaupel HSDR spray gun is equipped with a 160 psig (full scale) mechanical pressure gauge with markings every 2 psig and the pressure gauge is operating properly.
4. The Vaupel HSDR 3300 spray gun shall be equipped with a Vaupel Cavity Spray Tube 3900/3901-WH spray wand when applying the corrosion preventive coatings. The Daubert NOX-RUST X128T protective coating shall only be applied to the exterior of the frame rails. The Daubert NOX-RUST 712AM protective coating shall only be applied to the interior of the frame rails. During operation, the maximum distance of the spray wand tip to the substrate to be coated shall not exceed 12 inches.
5. Pursuant to District Rule 219, unless a permit to construct and operate is obtained from the District for the Vaupel HSDR 3300 spray gun, the maximum quantity of coatings and associated VOC containing solvents (including clean-up) used in the Vaupel HSDR 3300 spray gun shall not exceed 1 gallon per day or 22 gallons per calendar month. Toyota Motor Sales shall maintain records of the coating usage. The last two years of records shall be retained at the facility and be made available to District representatives upon request.
6. This approval is only valid for the Vaupel HSDR 3300 spray gun model tested. Any modification of the spray gun or pressure gauge design shall invalidate this approval unless the modification is approved by the South Coast Air Quality Management District.

If you have any questions regarding this approval, please call Emmanuel Quizon, AQ Engineer, at (909) 396-2523 or send him an e-mail at equizon@aqmd.gov.

Sincerely,



Fred Lettice
Senior Manager
Coating, Printing, Aerospace &
Metal Finishing Operations

FEL:EVQ

OPERATING INSTRUCTIONS

CAVITY PRESSURE CONTAINER GUN

3300 HSDR

**This gun may only be
used for pressure
containers which
threads have a slot**

Use as intended

- The CAVITY PRESSURE CONTAINER GUN is used for applying cavity spray products in conjunction with cavity spray tubes 3900 / 3901.

For your safety

- Hazard-free work with the device is only possible if you read the operating instructions and safety instructions through in full and strictly follow the instructions contained therein.
- Arrange to have practical instruction before your first use.
- Check the device before each use.
- Allow only a specialist to make repairs.
- Alteration or modification of the device is forbidden.
- Use only original accessories.
- Use the device only with the prescribed pressure.
- Do not spray into flames or onto glowing bodies.
- Working areas must be brightly lit, well ventilated and must conform to applicable health and work safety regulations.
- Do not inhale spray mist.
- Store the device and its accessories out of reach of children.

Device Characteristics

Max. Press. 8 bar Working Press. 2–6 bar
Capacity 1 liter

Safety Instructions

- Check the gun for correct operation before use.
- The nozzle head (19) and ascending tube (31) must allow free flow.
- Check the gun for visible damage.
- When dealing with chemical materials, observe the appropriate guidelines and safety rules.

Start up

- Check line pressure in the compressed-air distribution system and adjust if necessary.
- For optimal operation of the compressed-air tool, clean, dry air is absolutely necessary.
This can be provided by a water and oil separator integrated into the compressed-air system, which also considerably improves the spray behaviour.

Working Instructions / Application

- Fill the pressure container (32) with spray product.
- Immerse the pistol body with ascending tube into the spray product and screw the container to the underside of the gun.
- Insert cavity spray tube with round spray nozzle or cavity spray tube with angle nozzle and nipple into the quick coupling (20).
- Connect the gun to the compressed-air supply.
Depress the trigger to the first step and check whether spray air issues from the nozzle opening.
- Material flow rate is adjusted using the stop screw (7).
An optimal spray pattern for each material can be obtained with this adjustment.
- Insert the spray tube with round nozzle into the cavity and slowly withdraw it, while at the same time depressing the trigger. Release the trigger before the round nozzle leaves the cavity (this will interrupt material flow).
- When the spray tube with angle nozzle is inserted, surfaces can be sprayed.
- Make absolutely certain that the spray tubes are not bent.

When finished working

- Blow the cavity spray tube clear with air; for this, depress the trigger to the first step.
- Remove cavity spray tube; disconnect the device from the air supply.

- Release pressure from the gun; for this purpose, turn the pressure container to the left until air escapes.
- Store the device and its accessories out of reach of children.
- Store the gun only upright if material remains in the pressure tank.

Cleaning

- Clean the gun after each use with cleaning agent. (If the gun is to remain unused for an extended period of about 4 weeks).

Attention

- Store the spray tubes only when they are clean; otherwise the spray slits may become clogged due to drying of the material.

Faults

- Valve bolt (8) is stuck or does not close:
Put oil on the valve bolt or into the air intake port of the gun. Depress the trigger (2) several times.
- Gun does not spray properly:
Spray nozzle (19), ascending tube (31), cavity spray tube round spray or angle nozzle or gun (1) partly clogged.
Remove deposits with cleaning agent.

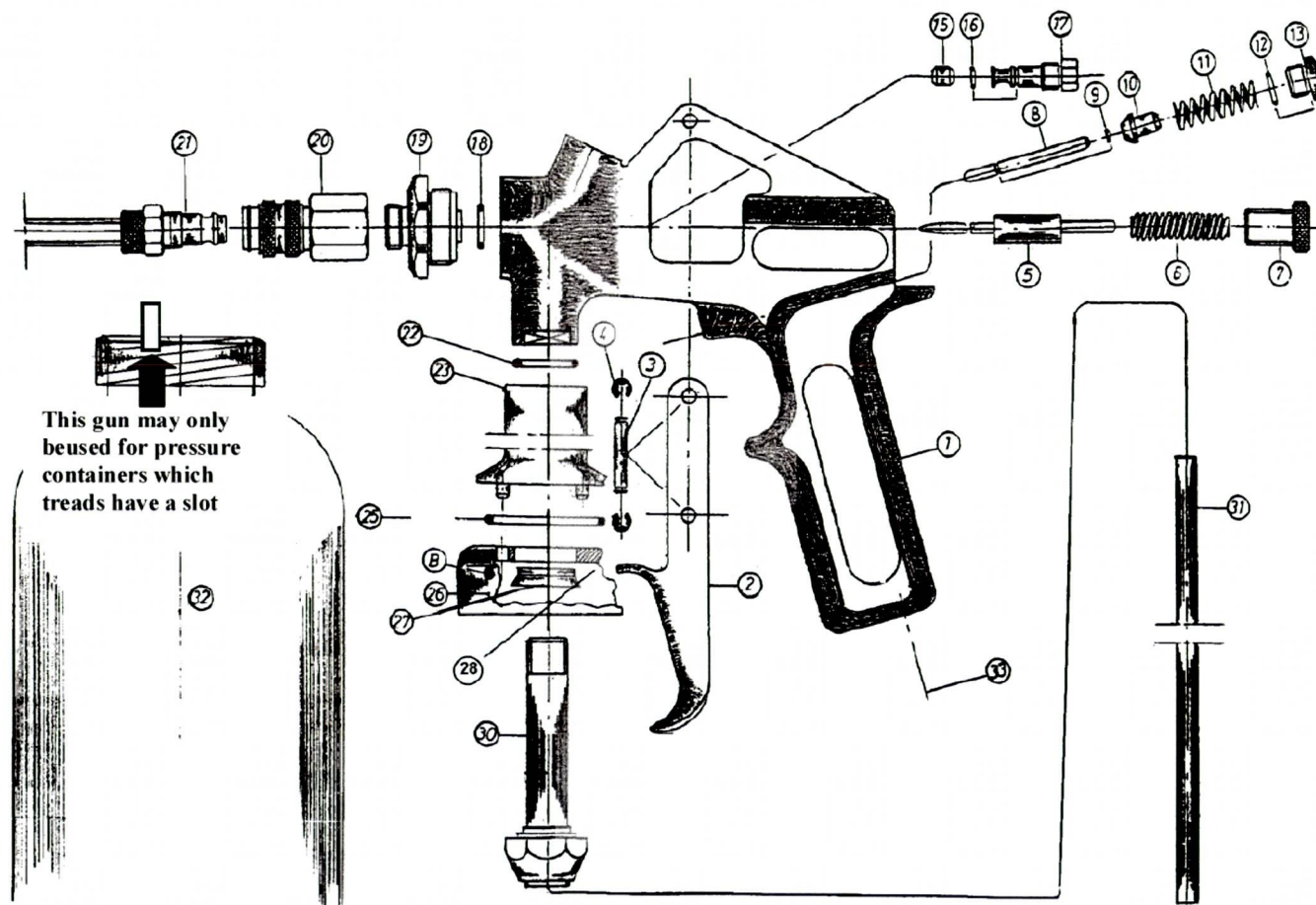
Environmental Protection

- The device, its accessories and packing material should be recycled in an environmentally correct manner.

Druckbehälterpistole pressure container gun

3300 HSDR

1	10 2919 001	gun body
2	50 3909 005	trigger
3	30 1102 006	trigger axle
4	60 3100 029	clamping ring
5	S 83010	nozzle needle, cpl.
6	60 3104 007	spring f. nozzle needle
7	30 1122 005	stop screw
8	30 1104 008	valve bolt
9	60 4100 027	o-ring 1.5x0.75
10	40 4101 011	valve seal
11	60 3103 003	spring f. valve
12	60 4100 062	o-ring 8x1
13	30 1120 002	locking screw
14		
15	40 4100 003	needle seal, teflon
16	60 4100 064	o-ring 5x1
17	30 1422 016	needle stuffing box
18	60 4100 066	o-ring 8x2.5
19	30 2122 005	spray nozzle
20	20 1413 001	quick coupling
21		Capity hose spray-set
22	60 4100 071	o-ring 15x2
23	40 4104 014	adaptor 3000
25	60 4100 072	o-ring 33x2
26	10 2111 014	pressure tank filler cap
27	60 4100 044	V-packing
28	60 4100 087	o-ring 35x4
29		
30	S 83302	assembly screw
31	60 3129 014	ascending tube
32	S 83305	pressure tank
	S 83303	seal-set
	S 80151	flat-nozzle – plug cconnection



MATERIAL SAFETY DATA SHEET

DAUBERT CHEMICAL COMPANY

4700 SOUTH CENTRAL AVENUE
CHICAGO, ILLINOIS 60638
TELEPHONE: (708) 496-7350
FAX: (708) 496-7367

EMERGENCY CONTACT:
CHEMTREC (800) 424-9300

HMIS HAZARD RATING

HEALTH	1
FIRE	2
REACTIVITY	0
PERSONAL PROTECTION	D

Date of Review:

Date of Preparation: August 1, 2008

Revised: December 4, 2008

By: M. Longo

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **NOX-RUST® X128T**
Chemical Family: Petroleum Solvent/Additive Blend
Material Usage: Corrosion Preventive Compound

EMERGENCY OVERVIEW: Petroleum solvent-based product with solvent odor. Combustible liquid; when product burns it releases typical hydrocarbon products of combustion. Refer to Section 3 for health effects and to Section 5 for fire hazard data.

SECTION 2: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Aliphatic Petroleum Solvent CAS #64742-88-7 and/or #64742-47-8 and/or #8052-41-3	40-50	OSHA PEL: 100 ppm ACGIH TLV: 100 ppm ACGIH STEL: 200 ppm
Petroleum Hydrocarbon (Petrolatum) CAS #8009-03-8	20-25	OSHA PEL: 2 mg/m ³ ACGIH TLV: 2 mg/m ³ (for fumes)
Petroleum Wax CAS #64742-42-3	6-10	OSHA PEL: Not Established ACGIH TLV: 2 mg/m ³ (fumes)
^[1] Calcium Carbonate CAS #1317-65-3 and/or CAS #471-34-1	2-4	OSHA PEL: 5 mg/m ³ (respirable fraction) OSHA PEL: 15 mg/m ³ (total dust) ACGIH TLV: 10 mg/m ³ (^[2] nuisance dust)
^[1] Carbon Black CAS #1333-86-4	<1	OSHA PEL: 3.5 mg/m ³ (^[2] nuisance dust) ACGIH TLV: None Established

^[1]See Section 3.

^[2]This component poses a hazard only if the liquid dries and a dust is formed.

SECTION 3: HEALTH HAZARD INFORMATION

Primary Routes of Entry: Inhalation, skin absorption.

Acute Effects: Excessive inhalation may produce dizziness, nausea, headache, and incoordination. May cause severe eye irritation and reversible skin irritation. Prolonged skin exposure may cause dermatitis or oil acne. Breathing mists may cause dizziness or pulmonary irritation.

Carcinogenicity: Calcium carbonate, the product itself, is not listed by NTP, IARC, or OSHA as a carcinogen. There are no reported health effects associated with prolonged exposure to pure calcium carbonate. This product contains variable quantities of crystalline silica (quartz), which is considered a hazard by inhalation. IARC has classified crystalline silica as probably carcinogenic for humans (2A). This classification is based on the findings of laboratory animal studies that were considered to provide sufficient evidence and data from human epidemiological studies that were considered to provide limited evidence for carcinogenicity. Crystalline silica is also a known cause of silicosis, a noncancerous lung disease. NTP and OSHA have not classified crystalline silica as a carcinogen.

Carbon black has been classified by IRAC as a Category 2B (known animal carcinogen, possible human carcinogen) material. This was based on the results of rat inhalation studies of carbon black, despite the lack of parallel evidence on humans or other animal species.

Pre-Existing Medical Conditions Aggravated by Exposure: Exposure may aggravate pre-existing respiratory or skin problems.

SECTION 4: FIRST AID PROCEDURES

Inhalation: Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration; if breathing is difficult, give oxygen.

Eyes: In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.

Skin: Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site.

Ingestion: DO NOT INDUCE VOMITING. Consult a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point: 105°F. (TCC)

Explosive Limits:

LEL: 0.6

UEL: 7.0

EXTINGUISHING MEDIA: Small Fires: Dry chemical, CO₂, water spray, or regular foam. Large Fires: Water spray, fog, or regular foam. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks. For massive fire in cargo area, use unmanned hose holder or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

Special Firefighting Protection/Emergency Action: Fire may produce irritating or poisonous gases. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 1/2 mile in all directions if tank, rail car or tank truck is involved in fire. If runoff from fire control occurs, notify the appropriate authorities.

Unusual Fire/Explosion Hazards: Flammable/combustible material; may be ignited by heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Products of Combustion: Carbon monoxide, carbon dioxide, oxides of sulfur, miscellaneous hydrocarbons.

SECTION 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Steps to be taken in case Material is Released or Spilled: Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk.

Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills: Dike far ahead of liquid spill for later disposal.

SECTION 7: SAFE HANDLING INFORMATION

Precautions To Be Taken In Handling/Storage: Store in cool, well-ventilated area. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors.

Other Precautions: Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil-soaked shoes.

Wash thoroughly with soap and water (waterless hand cleaner may be helpful in removing residues) after use and before smoking or eating. Avoid excessive skin contact.

SECTION 8: EXPOSURE CONTROLS

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.

SECTION 9: REACTIVITY HAZARD DATA

Stability: Stable

Incompatibility: Strong acids, oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of sulfur, miscellaneous hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Black
Appearance:	Viscous Liquid
Odor:	Petroleum Solvent
Boiling Point (initial):	>300°F
Evaporation Rate (n-Butyl Acetate= 1) :	<1
Vapor Pressure (mmHg @ 20°C):	3.4
Vapor Density (air= 1) :	>1
Solubility in Water:	Negligible
Specific Gravity:	0.88
pH:	Not Applicable
Percent Volatile by Volume:	53

SECTION 11: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with state, local and federal regulations. Materials may become a hazardous waste through use. If permitted, incineration may be practiced. Consider recycling solvent.

SECTION 12: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)

VOC per gallon: 3.5 lbs/gal

VOC per gallon minus exempt solvents and water: 3.5 lbs/gal

EPA Hazardous Waste Number(s) (40CFR Part 261): D001

EPA Hazard Category (40CFR Part 370): DELAYED (CHRONIC)
FIRE HAZARD (COMBUSTIBLE)

SARA TITLE III

This product contains the following TOXIC CHEMICALS subject to the *Reporting Requirements of Sec. 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and of 40CFR Part 372*:

CHEMICAL	CAS NO.	WT %
NONE		

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to the *Emergency Planning Requirements under Sec. 301-303 (40CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304*:

CHEMICAL	CAS NO.	WT %	RQ/TPQ Lbs
NONE			

(CERCLA LIST) This product contains the following HAZARDOUS SUBSTANCE(S) subject to *Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302)*:

CHEMICAL	CAS NO.	WT %	Final RQ Lbs
Aliphatic Petroleum Solvent	64742-88-7, 64742-47-8, 8052-41-3	40-50	100

CALIFORNIA PROPOSITION 65

This product may contain trace quantities of chemicals that are identified by the State of California under the Safe Drinking Water and Toxic Reinforcement Act of 1986 ("Proposition 65") as either a carcinogenic or reproductive hazard:

CHEMICAL	CAS NO.	Estimated Concentration %
Crystalline Silica (Naturally occurring in mined calcium carbonate)	14808-60-7	.03 max

Carbon Black 1333-86-4 <1
(Crystalline Silica and carbon black only present hazards as respirable particles of 10 microns or less. Both are bound in the coating and will not be released as respirable particles.)

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.

MATERIAL SAFETY DATA SHEET

MANUFACTURED BY
PARKER INDUSTRIES

Nox-Rust® is a registered trademark of Daubert Chemical Company and is used pursuant to license.

DAUBERT CHEMICAL COMPANY
4700 SOUTH CENTRAL AVENUE
CHICAGO, ILLINOIS 60638
TELEPHONE: (708) 496-7350
FAX: (708) 496-7367

EMERGENCY CONTACT:
CHEMTREC (800) 424-9300

HMIS HAZARD RATING

HEALTH	1
FIRE	1
REACTIVITY	0
PERSONAL PROTECTION	B

Date of Review:

Date of Preparation: November 14, 2007

Revised: March 11, 2009

By: R. Lauterbach

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **Nox-Rust® 712AM**
Chemical Family: Petroleum oil/additive blend
Material Usage: Corrosion Preventive Compound

EMERGENCY OVERVIEW: Petroleum oil-based product. When product burns it releases typical hydrocarbon products of combustion. Refer to Section 3 for health effects and to Section 5 for fire hazard data.

SECTION 2: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Microcrystalline wax CAS #64742-42-3	5-10	ACGIH TLV: 2 mg/m ³ OSHA PEL: 2 mg/m ³
Petroleum distillates, solvent dewaxed heavy paraffinic CAS #64742-65-0	5-15	ACGIH TLV: 5 mg/m ³ OSHA PEL: 5 mg/m ³
Sulfonic acids, petroleum, Calcium salts, overbased CAS #68783-96-0	5-15	ACGIH TLV: 5 mg/m ³ (oil mist) OSHA PEL: 5 mg/m ³ (oil mist)
White mineral oil, petroleum CAS #8042-47-5	50-60	ACGIH TLV: 5 mg/m ³ (oil mist) OSHA PEL: 5 mg/m ³ (oil mist)
Bentonite, quaternary ammonium compound modified CAS# 68953-58-2	0.3-1.0	Not established

Soybean oil polymer with isophthalic acid and pentaerythritol CAS# 66071-86-1	0.4-4	Not established
Castor oil, dehydrated, polymerized CAS# 68038-02-8	5-15	Not established
Calcium Carbonate CAS #471-34-1	5-10	OSHA PEL: 5 mg/m ³ (respirable fraction) OSHA PEL: 15 mg/m ³ (total dust) ACGIH TLV: 10 mg/m ³ ⁽²⁾ nuisance dust

⁽²⁾ This component poses a hazard only if a dust is formed, i.e., by sawing, sanding, drilling, etc.

SECTION 3: HEALTH HAZARD INFORMATION

Primary Routes of Entry: Skin absorption, eyes (splashing).

Acute Effects: May cause eye irritation and reversible skin irritation. Prolonged skin exposure may cause dermatitis or oil acne. Breathing mists may cause dizziness or pulmonary irritation.

Chronic Overexposure:

Carcinogenicity: None of the components of this product are listed as carcinogens by NTP, IARC, or OSHA 1910(Z).

Pre-Existing Medical Conditions Aggravated by Exposure: Exposure may aggravate pre-existing respiratory or skin problems.

SECTION 4: FIRST AID PROCEDURES

Inhalation (mist): Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration; if breathing is difficult, give oxygen.

Eyes: In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.

Skin: Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site.

Ingestion: DO NOT INDUCE VOMITING. Consult a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°C (TCC)

Explosive Limits: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Small Fires: Dry chemical, CO₂, water spray, or regular foam. Large Fires: Water spray, fog, or regular foam. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks. For massive fire in cargo area, use unmanned hose holder or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

Special Firefighting Protection/Emergency Action: Fire may produce irritating or poisonous gases. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 1/2 mile in all directions if tank, rail car or tank truck is involved in fire. If runoff from fire control occurs, notify the appropriate authorities.

Unusual Fire/Explosion Hazards: Combustible material; may be ignited by flames. Container may explode in heat of fire.

Products of Combustion: Carbon monoxide, carbon dioxide, oxides of sulfur, miscellaneous hydrocarbons.

SECTION 6: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Steps to be taken in case Material is Released or Spilled: Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk.

Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills: Dike far ahead of liquid spill for later disposal.

SECTION 7: SAFE HANDLING INFORMATION

Precautions To Be Taken In Handling/Storage: Store in cool, well-ventilated area. Keep away from flames. Never use a torch to cut or weld on or near container.

Other Precautions: Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil-soaked shoes. Wash thoroughly with soap and water (waterless hand cleaner may be helpful in removing residues) after use and before smoking or eating. Avoid excessive skin contact.

SECTION 8: EXPOSURE CONTROLS

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

SECTION 9: REACTIVITY HAZARD DATA

Stability: Stable

Incompatibility: Strong acids, oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of sulfur, miscellaneous hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Tan
Appearance:	Viscous Liquid
Odor:	Oil
Boiling Point (initial):	NA
Evaporation Rate (n-Butyl Acetate=1):	<<1
Vapor Pressure (mmHg @ 20°C):	3.4
Vapor Density (air=1):	NA
Solubility in Water:	Not Determined
Specific Gravity:	.9-1.0
pH:	Not Applicable
Percent Volatile by Volume:	0

SECTION 11: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with state, local and federal regulations. Materials may become a hazardous waste through use. If permitted, incineration may be practiced. Consider recycling solvent.

SECTION 12: REGULATORY INFORMATION

Volatile Organic Content: (EPA Method 24)

VOC per gallon:

0.165 lbs/gal

EPA Hazardous Waste Number(s) (40CFR Part 261):

D001

EPA Hazard Category (40CFR Part 370):

DELAYED (CHRONIC)

SARA TITLE III

This product contains the following TOXIC CHEMICALS subject to the *Reporting Requirements of Sec. 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and of 40CFR Part 372:*

CHEMICAL	CAS NO.	WT %
----------	---------	------

NONE

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to the *Emergency Planning Requirements under Sec. 301-303 (40CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304:*

CHEMICAL	CAS NO.	WT %	RQ/TPQ Lbs
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NONE

(CERCLA LIST) This product contains the following HAZARDOUS SUBSTANCE(S) subject to *Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302):*

CHEMICAL	CAS NO.	WT %	Final RQ Lbs
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NONE

CALIFORNIA PROPOSITION 65

This product may contain trace quantities of the following chemicals that are identified by the State of California under the Safe Drinking Water and Toxic Reinforcement Act of 1986 ("Proposition 65") as either a carcinogenic or reproductive hazard:

CHEMICAL	CAS NO.	Estimated Concentration %
----------	---------	---------------------------

NONE

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.

LSC 90D - LIMITED SERVICE CAMPAIGN FOR
2001 - 2004 MODEL YEAR TACOMAS
MINNESOTA DEALER INFORMATION PACKET

FEDERAL, STATE AND LOCAL REQUIREMENTS GUIDE
FIRE, BUILDING AND ZONING CODES SECTION

Please review the entire Information Packet – including this Fire, Building and Zoning Codes Section – with your Service and Parts staff.

In addition to the requirements identified in other Sections, your dealership must comply with any applicable state and local fire code, building and zoning requirements. This Section discusses how to comply with these requirements.

Where Will You Conduct The LSC? This Section assumes that you will conduct the LSC in the service area of your dealership. If you plan to conduct the LSC elsewhere, please discontinue reading this Guide and go to the C.L.E.A.N. Dealer website at <http://cleandealer.com> and select the LSC-90D link. You may also call the C.L.E.A.N. Dealer EH&S Hotline at 877-572-4347.

BEFORE you begin applying LSC materials, you **must do BOTH of the following:**

1. Contact your local fire official in order to: (A) provide information about the LSC; and (B) confirm, in writing, that a permit is not required, or obtain a permit if one is required.

Appendices A and B to this Section contain letters and all of the technical information you will need to provide to your local fire official, except you will need to add some descriptive information about the starting location where you will conduct the LSC. To identify your local fire official go to Table 1 (at page 7). This table will also tell you which fire code jurisdiction your dealership is in ("NFPA" or "IFC") and which Appendix to use.

- If you are in an **NFPA** Fire Code jurisdiction, use the materials at **Appendix A.**
 - If you are in an **IFC** Fire Code jurisdiction, use the materials at **Appendix B.**
2. Confirm that you can conduct the LSC in compliance with applicable fire code, building, and zoning requirements.

Locate your city/town/county on Table 1 (starting at page 7) to see whether it has any additional building or zoning requirements applicable to the LSC and contact your local officials as indicated.

I. SUMMARY OF APPLICABLE MINNESOTA REQUIREMENTS

A. Fire Code⁴

1. The LSC should not require a state fire permit under the state fire code; however, the LSC may trigger procedures for review and permitting by your local fire officials.

Regulatory Note: Your dealership is assumed to comply already with existing fire code requirements (e.g., sprinkler systems, ventilation, etc.).

IMPORTANT! – FIRE CODE INFORMATION

In addition to permitting requirements, you must also comply with items 2 and 3 below as part of your implementation of the LSC.

2. The LSC must be conducted consistent with state laws regarding ventilation and fire suppression controls, which require:
 - a. The floor of the area where the LSC will be conducted (called a spraying space) is made of non-combustible construction (i.e., concrete) or will be covered with a non-combustible sheet; **and**
 - b. Fire extinguishers are provided in the vicinity of the LSC operation; **and**
 - c. No open flames or spark-producing equipment are permitted within 20 ft of the LSC operations; **and**
 - d. No drying, curing, or fusion apparatus within 20 ft of the LSC operations; **and**
 - e. Adequate ventilation in the service area that meets fire and building code requirements where the LSC is conducted; **and**
 - f. The LSC is conducted in an acceptable area (e.g., a spray room or spraying space), which can be a portion of your service garage setup as described in the **Technical Instructions**; **and**
 - g. LSC operations are conducted within any limits the fire code official might establish; **and**
 - h. No material with a flash point less than 37.8°C (100°F) (**Note:** Each of the LSC's anti-corrosion materials that you are being provided – interior and exterior – satisfies this requirement); **and**

⁴ Minnesota has adopted the International Code Council's International Fire Code (IFC) (2006 ed.).

- i. No solvents with a flash point less than 37.8°C (100°F).

Technical Note: *If you have a question about whether your plans for conducting the LSC will satisfy any of these requirements, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).*

3. **Both LSC materials are combustible⁵; therefore:**

- a. DO NOT store more than 25 gallons of the LSC materials and any other regulated flammable or combustible materials in any one fire area; otherwise you will be subject to additional requirements; or
- b. **If you store more than 25 gallons of regulated flammable or combustible materials in any one fire area, then you must use a fire cabinet.**
 - (1) **A single fire cabinet may hold up to 120 gallons.**
 - (2) **There is no limit on the number of fire cabinets in one fire area under the Minnesota State Fire Code.**
 - (3) **However, if you are in a jurisdiction that has adopted an earlier version of the IFC or the NFPA, your dealership may only have up to 3 fire cabinets in each fire area, each of which may hold up to 120 gallons. If you store at these levels (3 X 120 gals = 360 gals) you should confirm with your local fire official that such storage at these level does not require an operational permit in your locality.**

Technical Note: *If you are planning on conducting the LSC in an area with a non-combustible floor (e.g., made of concrete), you may use standard plastic sheeting as described in the **Technical Instructions**. However, if the area where the LSC will be conducted has a floor made of combustible materials (e.g., wood), then the area must be covered by an approved, noncombustible, nonsparking, fire retardant material.*

⁵ As defined by the International Fire Code adopted by Minnesota. The Nox-Rust® 712AM is a Class IIIB combustible (Flash point >200° F) and has an HMIS fire hazard rating 1. The Nox-Rust® X128T is a Class II combustible (Flash point 105° F) and has HMIS fire hazard rating 2.

B. Building Code⁶

1. The LSC should not require a building permit under the state building code because adding the LSC would not “construct, enlarge, alter, repair, move, demolish, or change the occupancy of [your] building,” nor does it “erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system.” (**NOTE:** Local codes might impose building permit requirements, as noted below.)⁷

Regulatory Note: *It is assumed that your dealership:*

- (i) complies already with building code requirements (for example, it is assumed that your dealership has a valid certificate of occupancy, meets applicable requirements for fire protection and mechanical ventilation specified for repair garages; and*
- (ii) does not require any building, electrical, gas, plumbing or mechanical system modifications for the LSC.*

If these assumptions do not apply, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

⁶ Minnesota has adopted the following codes: International Building Code (2006); International Plumbing Code (2000)*; International Mechanical Code (2000); International Residential Code (2000)*; and National Electric Code (2005)*. Minnesota’s building code, by definition, does not adopt any other national or model code solely by virtue of a cross-reference in the codes listed above, unless such cross referenced codes are expressly adopted by the State code. (*Code likely does not contain requirements applicable to LSC)

⁷ International Building Code Chapter 1. In particular, the application of the anti-corrosion material being used for the LSC should not trigger any requirements for changes or modifications to the electrical wiring. These materials are not flammable and will not create a flammable vapor area, and the overspray will be controlled with a temporary barrier. Moreover, the characteristics of the materials and the application process will generate limited overspray.

II. SUMMARY OF APPLICABLE LOCAL REQUIREMENTS

Table 1 below identifies the local requirements applicable to the LSC (if any). It is organized by the city/local jurisdiction where your dealership is located. ***IF THE LOCALITY WHERE YOU PLAN TO CONDUCT THE LSC IS NOT LISTED IN TABLE 1 (STARTING AT PAGE 7), PLEASE GO TO THE C.L.E.A.N. DEALER WEBSITE ([HTTP://CLEANDEALER.COM](http://CLEANDEALER.COM)) OR CALL THE EH&S HOTLINE (877-572-4347).*** The sections below briefly review these requirements.

IMPORTANT Reminder: You must contact your local fire official and provide information about the LSC prior to commencing LSC activities. **BEFORE** contacting your local fire official, your dealership should determine that it complies with the ventilation, storage, and spray space requirements for your jurisdiction.

- **If you are in an NFPA Fire Code jurisdiction, use the materials at Appendix A.**
- **If you are in an IFC Fire Code jurisdiction, use the materials at Appendix B.**

Regulatory Note – Regarding Conditional Use Permits: *If your dealership operates pursuant to a conditional use permit, special exception, or other special use permit, you must determine whether that permit prohibits the LSC process or considers it a “change in use” because, if so, then you may need a permit amendment. If you have any questions about zoning requirements, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).*

Regulatory Note – Other Generally Applicable Local Laws And Regulations: This Guide does not address other local laws and regulations that may apply generally to your dealership’s operations. Such laws and regulations may impose, among other requirements, general housekeeping and/or performance standards that require you to safeguard against improper release of materials that may pose health or environmental risks and to clean up (and report to appropriate authorities) any such improper release.

Unless noted in Table 1, your dealership is likely not subject to additional requirements under local zoning and building codes as a result of the LSC. However, should the need arise to discuss the LSC with your local authorities (in addition to the fire official), the information assembled in Appendices A and B can be used for that purpose as well.

Table 1: Code Summary for Minnesota Locations

Location	Local Fire Code Official & Fire Code Type	Other Potentially Relevant Local Requirements
Minnesota (State)		
Bemidji	<p>Richard Sathers Bemidji Fire Department 316 5th Street NW Bemidji, MN 56601 218-751-8001</p> <p>IFC jurisdiction – materials to contact local fire official are found in Appendix B.</p>	
Bloomington	<p>Gene Dugal Bloomington Fire Department Fire Prevention Division 10 West 95th Street Bloomington, MN 55431 952-563-8933</p> <p>IFC jurisdiction – materials to contact</p>	

Location	Local Fire Code Official & Fire Code Type	Other Potentially Relevant Local Requirements
	local fire official are found in Appendix B. A written ventilation plan may also need to be submitted to the Fire Department for review.	
Brooklyn Park	<p>Rich Johnson Brooklyn Park Fire Department Fire Inspector 5200 85th Ave N Brooklyn Park, MN 55443 763-493-8021</p> <p>IFC jurisdiction – materials to contact local fire official are found in Appendix B. An inspection may be required.</p>	<p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p><u>Contact</u></p> <p>Cindy Sherman Planning Director 5200 85th Ave N Brooklyn Park, MN 55443 763-493-8056</p>
Burnsville	<p>Dave Linderholm Burnsville Fire Department Fire Inspector</p>	<p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p><u>Contact</u></p>

Location	Local Fire Code Official & Fire Code Type	Other Potentially Relevant Local Requirements
	<p>100 Civic Center Parkway Burnsville, MN 55337 (952) 895-4570</p> <p>IFC jurisdiction – materials to contact local fire official are found in Appendix B.</p>	<p>Jane Hovind, Planning Assistant 100 Civi Center Parkway Burnsville, MN 55337 952-895-4430</p>
Coon Rapids	<p>Todd Williams Coon Rapids Fire Department Fire Marshal 11155 Robinson Drive Coon Rapids, MN 55433 763-767-6429</p> <p>IFC jurisdiction – materials to contact local fire official are found in Appendix B. A permit may be required. An inspection may be required prior to</p>	<p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p><u>Contact</u></p> <p>Cheryl Bennett Housing and Zoning Coordinator 11155 Robinson Drive Coon Rapids, MN 55433 763-767-6430</p>

Location	Local Fire Code Official & Fire Code Type	Other Potentially Relevant Local Requirements
	operation.	
Fergus Falls	<p>Dean Anderson Fergus Falls Fire Department Fire Safety Inspector 325 East Washington Fergus Falls, MN 56537 218-736-6983</p> <p>IFC jurisdiction – materials to contact local fire official are found in Appendix B.</p>	<p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p><u>Contact</u></p> <p><u>Daryl Johnson</u> <u>Building Inspector/Zoning Administrator</u> 112 West Washington Fergus Falls, MN 56537 (218) 332-5400</p>
Golden Valley	<p>Ed Anderson Golden Valley Fire Department Fire Marshal 7800 Golden Valley Road Golden Valley, MN 55427 763-593-8054</p>	<p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p>Contact</p> <p>Planning Department City of Golden Valley 7800 Golden Valley Road Golden Valley, MN 55427 763593-8095</p>

Location	Local Fire Code Official & Fire Code Type	Other Potentially Relevant Local Requirements
	<p>IFC jurisdiction – materials to contact local fire official are found in Appendix B. The dealership may need to submit a written plan, including mechanical, electrical, and fire suppression system information, signed by a P.E if requested by local fire official.</p>	
Hermantown	<p>Don Gimpel Hermantown Volunteer Fire Department 5111 Maple Grove Road Hermantown, MN 55811 218-729-3661</p> <p>IFC/NFPA jurisdiction – materials to contact local fire official are found in Appendix B.</p>	<p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p><u>Contact</u></p> <p>John Klers Planning & Zoning Department 5105 Maple Grove Road Hermantown, MN 55811 218-729-3600</p>

Location	Local Fire Code Official & Fire Code Type	Other Potentially Relevant Local Requirements
Inver Grove Heights	<p>Jeffery Schadegg Inver Grove Heights Fire Department Fire Marshal 7015 Clayton Avenue Inver Grove Heights, MN 55076 651-455-5082</p> <p>IFC jurisdiction – materials to contact local fire official are found in Appendix B.</p>	<p>NOTE TO INVER GROVE HEIGHTS DEALER: You should confirm that the LSC will not constitute a change in use or impermissible use under its zoning permit <u>before</u> starting the LSC. If you have any questions, please go to the C.L.E.A.N. Dealer Website (http://cleandealer.com) or call the EH&S Hotline (877-572-4347).</p> <p><u>Contact</u> City of Inver Grove Heights Planning Department 8150 Barbara Ave. Inver Grove Heights, MN 55077 651-450-2500</p>
Mankato	<p>Trudy Kunkle Mankato Fire Department Fire Marshal 300 E. Madison Ave Mankato, MN 56001 507-387-8563</p> <p>IFC jurisdiction – materials to contact local fire official are found in Appendix B</p>	<p>LSC spray operations and material storage must be conducted with an enclosed building.</p>

Location	Local Fire Code Official & Fire Code Type	Other Potentially Relevant Local Requirements
Maplewood	<p>Butch Gervais Maplewood Fire Department Fire Marshal 1955 Clarence Street Maplewood, MN 55109 651-249-2804</p> <p>NFPA jurisdiction – materials to contact local fire official are found in Appendix A. A permit may be required for the operation.</p>	<p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p><u>Contact</u></p> <p>Tom Ekstrand, Senior Planner Planning Division City of Maplewood 1830 County Road B East Maplewood, MN 554109</p>
Rochester	<p>Dennis Olson Rochester Fire Department Fire Marshal 201 South Street SE, #10 Rochester, MN 55904 507-328-2817</p> <p>IFC jurisdiction – materials to contact local fire official are</p>	<p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p><u>Contact</u></p> <p>Planning and Zoning 2122 Campus Dr SE Rochester, MN 55904 507-328-7100</p>

Location	Local Fire Code Official & Fire Code Type	Other Potentially Relevant Local Requirements
	found in Appendix B. The dealership may require an annual operating permit for operations involving flammable/combustible liquids.	
Virginia	<p>Darrel Knapper Virginia Fire Department 115 4th Avenue North Virginia, MN 55792 218-748-7520</p> <p>IFC jurisdiction – materials to contact local fire official are found in Appendix B.</p>	
Waite Park	<p>Gary Curtis Waite Park Fire Department 19 13th Avenue North Waite Park, MN 56387 320-252-4712</p> <p>IFC jurisdiction –</p>	<p>The dealership may need to submit plans of the building layout, fire protection system, equipment operation, materials storage, and ventilation/exhaust calculations to both the Fire and Building Departments (provide a copy of Appendix B to Building and Planning Coordinator Bill Barber)</p> <p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p>

Location	Local Fire Code Official & Fire Code Type	Other Potentially Relevant Local Requirements
	materials to contact local fire official are found in Appendix B.	<p><u>Contact</u></p> <p>Bill Barber Building and Planning Coordinator Building Department 19 13th Avenue North, Waite Park, MN 56387 320-656-8936</p>
Willmar	<p>Marv Calvin Willmar Fire Department 515 SW 2nd Street Willmar, MN 56201 320-235-1354</p> <p>IFC jurisdiction – materials to contact local fire official are found in Appendix B.</p>	<p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p><u>Contact</u></p> <p>Bruce D. Peterson Director of Planning & Development Services Planning & Development Services P.O. Box 755 333 SW 6th Street Willmar, MN 56201 (320-235-8311</p>

Location	Local Fire Code Official & Fire Code Type	Other Potentially Relevant Local Requirements
Winona	<p>Larry Strange Winona Fire Department 451 East 3rd Street Winona, MN 55987 507-457-8266</p> <p>IFC jurisdiction – materials to contact local fire official are found in Appendix B.</p>	<p>Dealership should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p><u>Contact</u></p> <p>Mark Moeller City Planner P.O. Box 378 Winona, MN 55987 507-457-8243</p>

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APPENDIX A

Materials for Local Fire Code Compliance in NATIONAL FIRE PROTECTION ASSOCIATION - UNIFORM FIRE CODE (NFPA) JURISDICTIONS:

Compliance Information

&

Model Letter and LSC Process Information to be submitted to Local Fire Official

(Electronic copies on the CD enclosed with this Guide)

**DO NOT USE THIS APPENDIX IF
YOUR DEALERSHIP IS IN AN IFC JURISDICTION**

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Appendix A1: NFPA Jurisdictions-Summary of Fire Code Requirements

- Your local jurisdiction has adopted NFPA-1, likely without any changes that would impose any additional requirements on the LSC operation.
- **Before you begin conducting the LSC, you will need to confirm in writing with your local fire official that a permit is not required or, if one is required, to obtain it.** Under the NFPA-1 and the state fire code, the local fire official has the authority to require plans and specifications to ensure compliance with applicable codes and standards, and may require an operating permit for LSC spraying and storing operations.
- To assist you with contacting your local fire official, Appendix A2 contains a model letter a background information sheet which explains the LSC and why the LSC complies with the relevant requirements (Note: Electronic copies of these materials can found on the CD enclosed with this guide). You should do the following:
 - Address the model letter to your local fire official and put it on the dealership's letterhead. (See Table 1 beginning at page 7.)
 - Review the background information sheet and complete it by adding facility-specific information, including descriptions of the:
 - Service area where the LSC will be conducted;
 - Storage area to be used for LSC materials; and
 - Ventilation system in the area where the LSC will be conducted.
 - **Remember: The following should be enclosed with the fire official letter:**
 - **The completed information sheet from Appendix A2.**
 - Copies of the Material Safety Data Sheets (MSDSs) for the Nox-Rust® 712AM and Nox-Rust® X128T materials (provided in the Air Recordkeeping Section of this **Guide** and on the enclosed **CD**).
 - Make a copy of the letter and attachments for your records before submitting to the local fire official.
 - You may wish to consider calling your local fire code official before submitting the letter and attachments to let them know you will be making the submission. Note: To avoid confusion, make sure to send the letter and attachments to ensure that the fire official has more than a verbal description of the LSC.

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**APPENDIX A2: Model Letter for NFPA Jurisdictions and
LSC Process Information to be included with Letter**

*Electronic Copy of Letter and Attachment are available on the CD enclosed with this
Guide.*

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[DEALER LETTERHEAD]

[Insert Local Fire Official Contact Information from Table 1 (pg 7)]

**Re: REQUEST FOR APPROVAL TO ENGAGE IN A LIMITED SPRAY OPERATION IN THE
EXISTING SERVICE BAY OF [LOCAL DEALERSHIP]**

Dear _____:

As you may know, Toyota is implementing a limited service campaign ("LSC") for the frames of a select number of Toyota vehicles. Toyota has asked our dealership to take part in this LSC. We are writing to provide you with information about the LSC process and to request your approval for us to proceed.

The LSC will involve the spray application of two materials, neither of which is a flammable material as defined by the Minnesota State Fire Code or locally adopted fire codes. The attached materials describe the LSC process, the materials that will be used, the method of transferring those materials, and the facilities where the LSC will take place. The Material Safety Data Sheets ("MSDSs") are also attached.

We believe this information demonstrates that the LSC will be conducted in accordance with all applicable laws, regulations, and other codes. The attached information explains the LSC process, materials and equipment. We respectfully request that you grant any required approvals for the LSC so that we can proceed as soon as possible.

If you have any questions or require any additional information, please do not hesitate to contact [Dealership] at [Number]. Thank you for your time and consideration.

Best regards,
[Dealer]

[Dealership]

Attachments

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Part 1. Limited Service Campaign (LSC) - Process Information

- **Overview of the LSC.**

- This is a LSC for a defined number of vehicles.
- The Dealership will be applying two different anti-corrosion materials to the underside frame rails of select vehicles.
- Application of these materials will occur to the interior and exterior of a single vehicle frame part using a hand-held spray gun. The materials are viscous liquids designated as combustible but not flammable (see MSDSs).
- The spray guns have a high transfer efficiency (based on testing by the manufacturer and a third party laboratory) and generate very little overspray.
- Limited preparatory work will occur prior to application of the materials. This work will consist of manually scrubbing the exterior underside of the vehicle to remove dirt and debris. No solvents will be used during the preparatory work.
- The LSC is not a permanent operation and will conclude by winter 2010.
- The LSC will comply with all applicable federal, state and local regulatory requirements (e.g., air, waste, fire).

- **Process Setup.**

- All activities will be conducted within existing dealership service areas that are already compliant with applicable fire and building code requirements (e.g., certificate of occupancy, sprinkler systems, ventilation, etc.). See Part 2 for additional information.
- Implementation of the LSC will not require any physical changes to the dealership (Refer to Exhibit A).
 - The LSC will not require any physical changes to building – no construction or alteration, no space being reworked, no new fixtures, as the LSC will take place in existing service bay.
 - The LSC will not require any changes to electrical, gas, mechanical or plumbing systems.
 - The LSC will not require any equipment installation – LSC uses hand-held spray equipment.
 - The LSC will utilize the dealership's existing lifts for access to the underside of the vehicles.
 - A movable partition will be placed around the area of operation (the size and location of which will allow adequate ventilation).
 - Any combustible floor construction in the spraying area will be covered with Fire Retardant Poly Sheeting (e.g., TRM 'WEATHER-ALL' Flame Retardant Film).

- **LSC Process Step #1 – Vehicle Preparation:** The first step of the LSC process involves preparation of the frame rail for material application. Refer to Exhibit B.
 - Steam clean frame (if necessary);
 - Place vehicle on lift;
 - Remove rear wheels, spare tire, and engine under-cover;
 - Mask areas where LSC materials will not be applied;
 - Place tarp on floor and setup temporary partition around LSC work area;
 - Manually scrape/ scrub underside of vehicle (involves no solvents or oils); and
 - Place small buckets or attach gutter to vehicle to catch any drips from frame drain holes (3 small holes per frame rail).

These steps take approximately 1¼ hour to complete, which allows time for the vehicle to cool sufficiently.

- **LSC Process Step #2 – Material Application:** Two different anti-corrosion materials are applied to the vehicle frame (refer to MSDS for additional information on anti-corrosion materials).
 - Application of the materials will begin after the vehicle preparation step. With that cool-down time, surfaces will be adequately cool before the application step begins.
 - Materials are supplied as part of a dealer's LSC kit (one kit per vehicle) – a kit contains five one-liter plastic bottles (shaped like standard engine oil bottles).
 - Two liters of the first of the materials – Nox-Rust® 712AM – are applied to the interior frame of each vehicle. Nox-Rust® 712AM: Flash Point >200° F (Class IIIB combustible; not flammable; HMIS fire hazard rating of 1).
 - Three liters of the second material – Nox-Rust® X128T – are applied to the exterior frame of each vehicle. Nox-Rust® X128T: Flash Point 105° F (Class II combustible; not flammable; HMIS fire hazard rating of 2). Given that application of this second Class II combustible material does not occur until after application of the first Class IIIB combustible material, sufficient vehicle engine cool down is further assured before application of the Nox-Rust® X128T.
 - Both materials are viscous and the LSC spray guns have a very high transfer efficiency which limits both overspray and the formation of airborne small particles.

Part 2. Limited Service Campaign - Fire Suppression and Ventilation Assessment

- All activities will be conducted within existing dealership service areas that are compliant with applicable fire and building code requirements (e.g., certificate of occupancy, sprinkler systems where required, ventilation, etc.).

- The dealership has a valid certificate of occupancy for vehicle service.
- The vehicle service building meets the building and fire code fire protection requirements specified for repair garages (e.g., sprinkler systems or other fire suppression systems).
- The service building meets the mechanical ventilation requirements specified for repair garages in the building and mechanical code.

Insert description of the service area at your dealership where the LSC will be conducted.

- **The LSC does not require changes to the existing vehicle service building.**
 - **It does not** “construct, enlarge, alter, repair, move, demolish, or change the occupancy of the building,” or “erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system.”
 - **It does not** require the installation of new equipment. All equipment will be portable/hand-held.
- **Volume of materials stored on site will comply with applicable fire code limits and storage requirements.**
 - Dealer will not exceed regulatory quantity limitations for unprotected storage of 25 gallons in a given fire area,⁸ or the expanded capacity if material is stored in a flammable cabinet. Per NFPA 1 Ch. 66, a fire cabinet may be used to store up to 120 gallons, and up to 3 cabinets may be used in a single designated fire area.

Insert a description of the storage area to be used for LSC materials.

⁸ A Fire Area (Flammable and Combustible Liquids) is an area of a building separated from the remainder of the building by construction having a fire resistance of at least 1 hour and having all communicating openings properly protected by an assembly having a fire resistance rating of at least 1 hour (NFPA , Chapter 3).

- **The vehicle service building has adequate ventilation.**

- Materials are not flammable (having a flash point greater than 100 F) so mechanical ventilation is not required under International Mechanical Code (IMC) Ch. 5, § 502, Subsection 7.
- Under IMC Ch. 5, an exhaust system is required where (1) the material being used could exceed 25% of the Lower Explosive Limit (LEL), (2) the material is present in any concentrations if it has a hazard ranking of 4, and/or (3) the material exceeds 1% of the lethal concentration for inhalation if it has a hazard ranking of 1, 2, or 3.
 - These materials have hazard ranking of 1 and 2 (not 3 or 4), and therefore, additional exhaust ventilation will not be required under IMC Ch. 5.
 - Based on (1) the small quantities to be used per vehicle, (2) the planned method of application that minimizes overspray, and (3) the use of a large ventilated service area to conduct this operation (for example, work is not being performed in an enclosed room or booth in which any vapors could accumulate); the existing ventilation is anticipated to be sufficient to avoid any potential build-up of the materials, further reducing the chance of reaching the concentrations listed above.

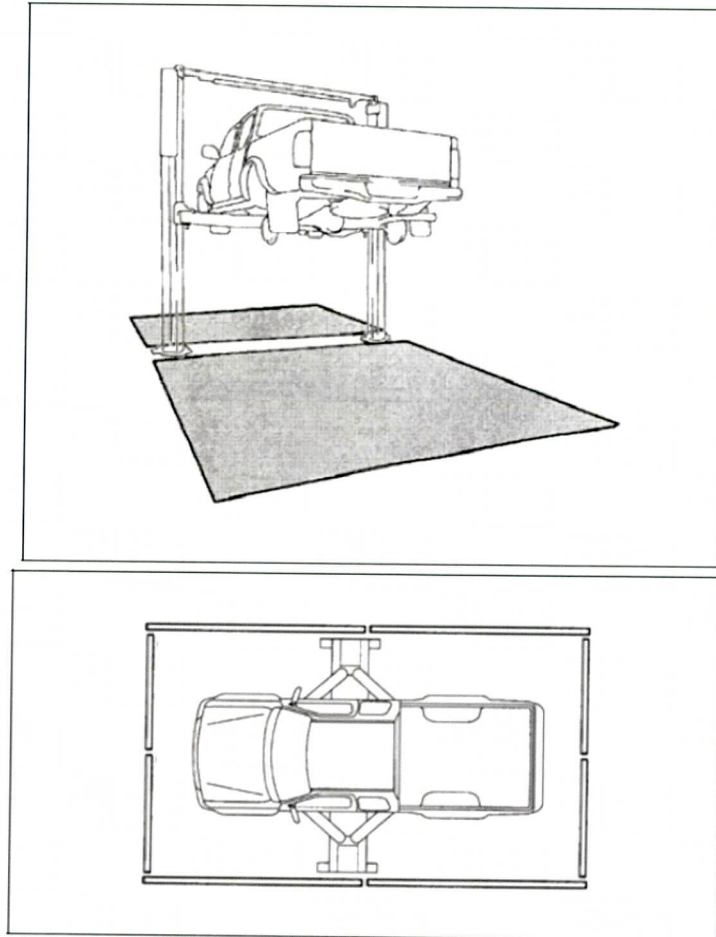
Insert a description of the ventilation system in the vehicle service area where the LSC will be conducted.

- **The LSC qualifies for an exemption from the performance requirements of NFPA-33 “Standards for Spray Application Using Flammable or Combustible Materials” specified for “Vehicle Undercoating and Body Lining” operations because:**
 - There is adequate ventilation in the service area where the LSC is conducted; and
 - There are no open flames or spark-producing equipment within 20 ft of the LSC operations; and
 - There is no drying, curing, or fusion apparatus within 20 ft of the LSC operations; and
 - The flash point for each of the LSC materials (both the interior and the exterior materials) is greater than 37.8° C (100° F); and

- There will be no cleaning solvents used for the LSC equipment (for example, mineral spirits) that have a flash point less than 37.8° C (100° F). In fact the LSC equipment will not be cleaned at all; therefore, no cleaning solvents will be required.

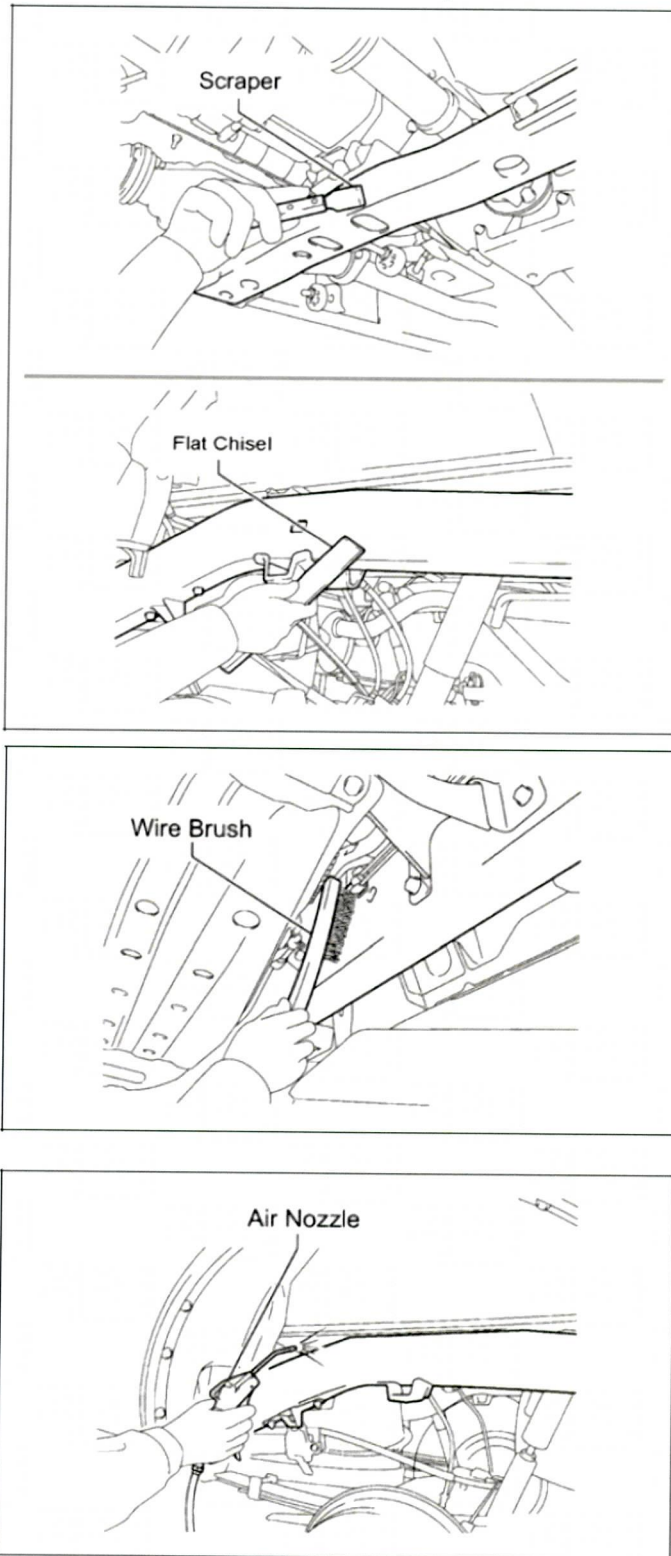
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Exhibit A: Vehicle Setup



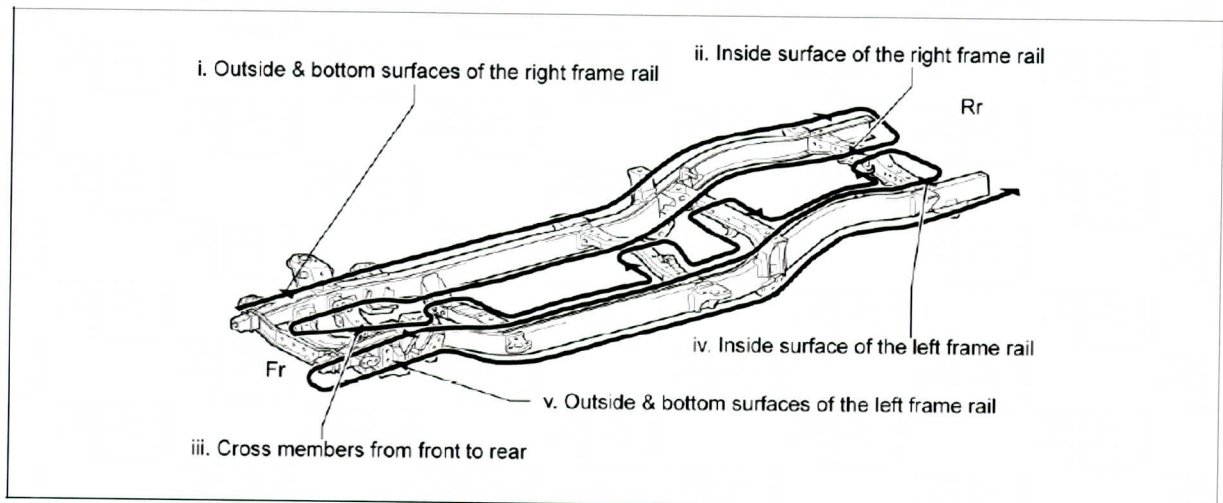
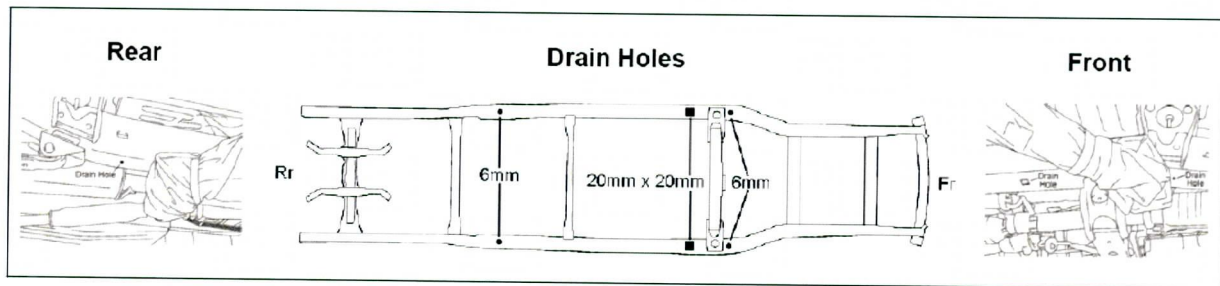
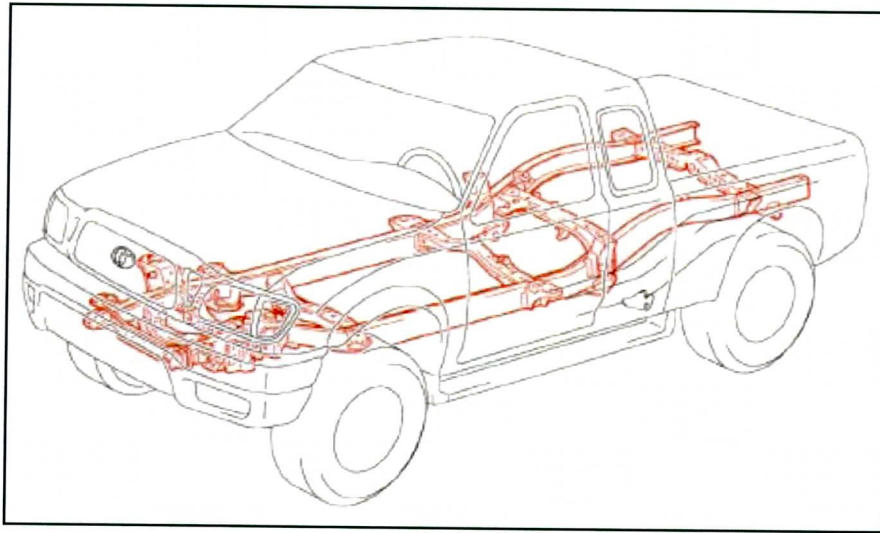
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Exhibit B: Vehicle Preparation



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Exhibit C: Application Locations



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APPENDIX B

Materials for Local Fire Code Compliance in INTERNATIONAL FIRE CODE (IFC) JURISDICTIONS:

Compliance Information

&

**Model Letter and LSC Process Information to be submitted to
Local Fire Official**

(Electronic copies on the CD enclosed with this Guide)

**DO NOT USE THIS APPENDIX IF
YOUR DEALERSHIP IS IN AN NFPA JURISDICTION**

Appendix B1: IFC Jurisdictions - Summary of Fire Code Requirements

- Your local jurisdiction has adopted the International Fire Code (IFC) without any changes that would impose any additional requirements on the LSC operation.
- **Before you begin conducting the LSC, you will need to confirm in writing with the local fire official that a permit is not required or, if one is required, obtain it.** Under the IFC and the state fire code, the local fire official has the authority to require plans and specifications to ensure compliance with applicable codes and standards, and may require an operating permit for spraying operations. The local fire official is also authorized to inspect, set limits, and approve the area where the spraying operation will take place (i.e., the “spraying space”). The dealer will be required to ensure that there is proper separation between the spraying space and sources of ignition, provide fire extinguishers, and make sure that the floor surfaces are non-combustible.
- To assist you with contacting your local fire official, Appendix B2 contains a model letter and a background information sheet which explains the LSC and why the LSC complies with the relevant requirements (Note: Electronic copies of these materials can found on the **CD** enclosed with this guide). You should do the following:
 - Address the model letter to your local fire official and put it on the dealership’s letterhead. (See Table 1 starting at page 7.)
 - Review the background information sheet and complete it by adding facility-specific information, including descriptions of the:
 - Service area where the LSC will be conducted;
 - Storage area to be used for LSC materials; and
 - Ventilation system in the area where the LSC will be conducted.
 - **Remember:** The following should be enclosed with the fire official letter:
 - The completed information sheet from Appendix B2.
 - Copies of the Material Safety Data Sheets (MSDSs) for the Nox-Rust® 712AM® and Nox-Rust® X128T® materials (provided in the Air Recordkeeping Section of this **Guide** and on the enclosed **CD**).
 - Make a copy of the letter and attachments for your records before submitting to the local fire official.
 - You may wish to consider calling your local fire code official before submitting the letter and attachments to let them know you will be making the submission. Note: To avoid confusion, make sure to send the letter and attachments to ensure that the fire official has more than a verbal description of the LSC.

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**APPENDIX B2: Model Letter for IFC Jurisdictions and
LSC Process Information to be included with Letter**

***Electronic Copy of Letter and Attachment are available on the CD enclosed with this
Guide.***

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[DEALER LETTERHEAD]

[Local Code Official Contact Information from Table 1 (pg 7)]

**Re: REQUEST FOR APPROVAL TO ENGAGE IN A LIMITED SPRAY OPERATION IN THE
EXISTING SERVICE BAY OF [LOCAL DEALERSHIP]**

Dear _____:

As you may know, Toyota is implementing a limited service campaign ("LSC") for the frames of a select number of Toyota vehicles. Toyota has asked our dealership to take part in this LSC. We are writing to provide you with information about the LSC process and to request your approval for us to proceed.

The LSC will involve the spray application of two materials, neither of which is a flammable material as defined by the Minnesota State Fire Code or locally adopted fire codes. The attached materials describe the LSC process, as well as descriptions of the materials that will be used, the material safety data sheets ("MSDSs"), the method of transferring those materials, and an explanation of the facilities where the LSC will take place.

We believe this information demonstrates that the LSC will be conducted in accordance with all applicable laws, regulations, and other codes. The attached information explains the LSC process, materials and equipment. We respectfully request that you grant any required approvals for the LSC so that we can proceed as soon as possible.

If you have any questions or require any additional information, please do not hesitate to contact [Dealership] at [Number]. Thank you for your time and consideration.

Best regards,
[Dealer]

[Dealership]

Attachments

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Part 1. Limited Service Campaign (LSC) - Process Information

• Overview of the LSC.

- This is a LSC for a defined number of vehicles.
- The Dealership will be applying two different anti-corrosion materials to the underside frame rails of select vehicles.
- Application of these materials will occur to the interior and exterior of a single vehicle frame part using a spray gun. The materials are viscous liquids designated as combustible but not flammable (see MSDS).
- The spray guns have a high transfer efficiency (based on testing by the manufacturer and a third party laboratory) and generate very little overspray.
- Limited preparatory work will occur prior to application of the materials. This work will consist of manually scrubbing the exterior underside of the vehicle to remove dirt and debris. No solvents will be used during the preparatory work.
- The LSC is not a permanent operation and will concluded by winter 2010.
- The LSC will comply with all applicable federal, state and local regulatory requirements (e.g., air, waste, fire).

• Process Setup.

- All activities will be conducted within existing dealership service areas that are already compliant with fire and building code requirements (e.g., certificate of occupancy, sprinkler systems, ventilation, etc.). See Part 2 for additional information.
- Implementation of the LSC will not require any physical changes to the dealership (Refer to Exhibit A).
 - The LSC will not require any physical changes to building – no construction or alteration, no space being reworked, no new fixtures, as service will take place in existing service bay.
 - The LSC will not require any changes to electrical, gas, mechanical or plumbing systems.
 - The LSC will not require any equipment installation – LSC uses hand-held spray equipment.
 - The LSC will utilize the dealership's existing lifts for access to the underside of the vehicles.
 - A movable partition will be placed around the area of operation (the size and location of which will allow adequate ventilation).
 - Any combustible floor construction in the spraying space will be covered with Fire Retardant Poly Sheeting (e.g., TRM 'WEATHER-ALL' Flame Retardant Film)

- **LSC Process Step #1 – Vehicle Preparation:** The first step of the LSC process involves preparation of the frame rail for material application. Refer to Exhibit B.
 - Steam clean frame (if necessary);
 - Place vehicle on lift;
 - Remove rear wheels, spare tire, and engine under-cover;
 - Mask areas where LSC materials will not be applied;
 - Place tarp on floor and setup temporary partition around LSC work area;
 - Manually scrape/ scrub underside of vehicle (involves no solvents or oils); and
 - Place small buckets or attach gutter to vehicle to catch any drips from frame drain holes (3 small holes per frame rail).

These steps take approximately 1¼ hour to complete, which allows time for the vehicle to cool sufficiently.

- **LSC Process Step #2 – Material Application:** Two different anti-corrosion materials are applied to the vehicle frame (refer to MSDS for additional information on anti-corrosion materials).
 - Application of the materials will begin after the vehicle preparation step. With that cool-down time, surfaces will be adequately cool before the application step begins.
 - Materials are supplied as part of a dealer's LSC kit (one kit per vehicle) – a kit contains five one-liter plastic bottles (shaped like standard engine oil bottles).
 - Two liters of the first of the materials – Nox-Rust® 712AM – are applied to the interior frame of each vehicle. Nox-Rust® 712AM: Flash Point >200° F (Class IIIB combustible; not flammable; HMIS fire hazard rating of 1).
 - Three liters of the second material – Nox-Rust® X128T – are applied to the exterior frame of each vehicle. Nox-Rust® X128T: Flash Point 105° F (Class II combustible; not flammable; HMIS fire hazard rating of 2). Given that application of this second Class II combustible material does not occur until after application of the first Class IIIB combustible material, sufficient vehicle engine cool down is further assured before application of the Nox-Rust® X128T.
 - Both materials are viscous and the LSC spray guns have a very high transfer efficiency which limits both overspray and the formation of airborne small particles.

Part 2. Limited Service Campaign - Fire Suppression and Ventilation Assessment

- All activities will be conducted within existing dealership service areas that are already compliant with fire and building code requirements (e.g., certificate of occupancy, sprinkler systems where required, ventilation, etc.).
 - The dealership has a valid certificate of occupancy for vehicle service,
 - The vehicle service building meets the building and fire code fire protection requirements specified for repair garages (e.g., sprinkler systems or other fire suppression systems).
 - The service building meets the mechanical ventilation requirements specified for repair garages in the building and mechanical code.

Insert description of the service area at your dealership where the LSC will be conducted.

- **The LSC does not require changes to the existing vehicle service building.**
 - It does not “construct, enlarge, alter, repair, move, demolish, or change the occupancy of the building,” or “erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system.”
 - It does not require the installation of new equipment. All equipment will be portable/hand-held.
- **Volume of materials stored on site will comply with applicable fire code limits and storage requirements.**
 - Dealer will not exceed regulatory quantity limitations for unprotected storage of 25 gallons in a given fire area,⁹ or the expanded capacity if material is stored in a

⁹ A Fire Area (Flammable and Combustible Liquids) is an area of a building separated from the remainder of the building by construction having a fire resistance of at least 1 hour and

flammable cabinet. Per IFC Chapter 34, a fire cabinet may be used to store up to 120 gallons, and up to 3 cabinets may be used in a single designated fire area.¹⁰

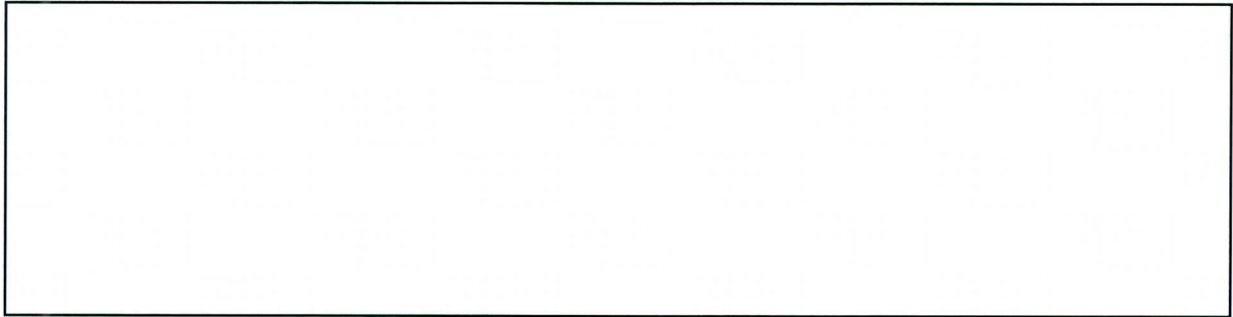
Insert a description of the storage area to be used for LSC materials.

- **The vehicle service building has adequate ventilation.**
 - Materials are not flammable (having a flash point greater than 100 F) so mechanical ventilation is not required under International Mechanical Code (IMC) Ch. 5, § 502, Subsection 7.
 - Under IMC Ch. 5, an exhaust system is required where (1) the material being used could exceed 25% of the Lower Explosive Limit (LEL), (2) the material is present in any concentrations if it has a hazard ranking of 4, and/or (3) the material exceeds 1% of the lethal concentration for inhalation if it has a hazard ranking of 1, 2, or 3.
 - These materials have hazard ranking of 1 and 2 (not 3 or 4), and therefore, additional exhaust ventilation will not be required under IMC Ch. 5.
 - Based on (1) the small quantities to be used per vehicle, (2) the planned method of application that minimizes overspray, and (3) the use of a large ventilated service area to conduct this operation (for example, work is not being performed in an enclosed room or booth in which any vapors could accumulate), none of these conditions will exist; the existing ventilation is anticipated to be sufficient to avoid any potential build-up of the materials, further reducing the chance of reaching the concentrations listed above.

Insert a description of the ventilation system in the vehicle service area where the LSC will be conducted.

having all communicating openings properly protected by an assembly having a fire resistance rating of at least 1 hour (IFC, Chapter 9).

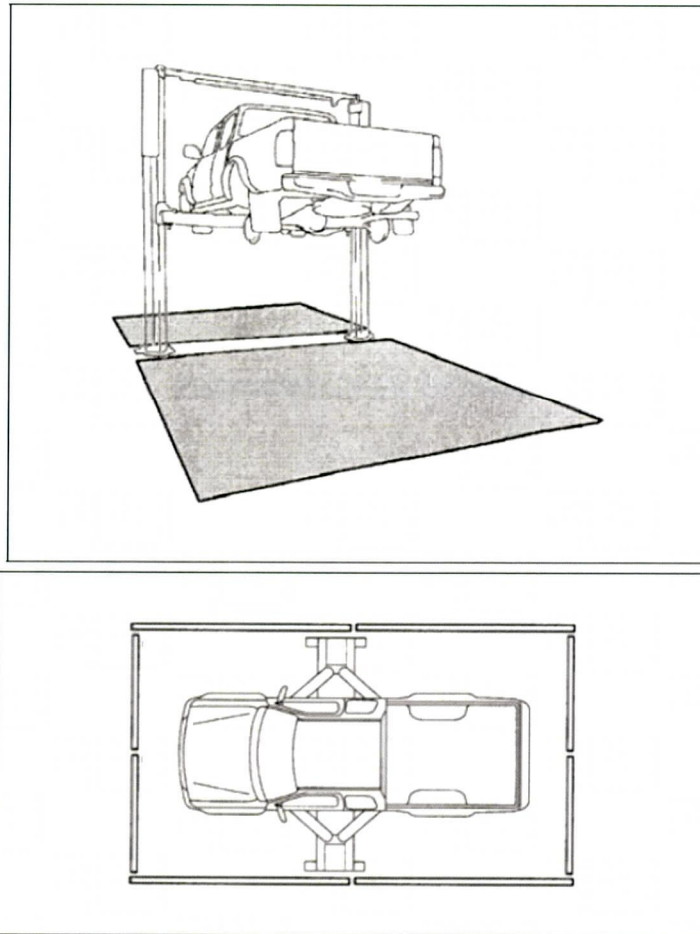
¹⁰Versions of the IFC prior to 2006 allow only three (3) flammable storage cabinets in one fire area. The 2006 version removes this limitation from the code.



- **We believe the LSC will take place in an approvable spray space. It will meet the requirements for the operation of a spraying space as defined by the IFC, Chapter 15 “Flammable Finishes” for the application of the anti-corrosion materials because:**
 - The floor of the spraying space will comply with applicable regulations;
 - Fire extinguishers will be provided in the vicinity of the spraying space;
 - Sources of ignition such as open flames or spark-producing equipment will not be permitted within 20 ft of the LSC operations;
 - There will be no drying, curing, or fusion apparatus within 20 ft of the LSC operations;
 - There is adequate ventilation in the service area that meets fire and building code requirements where the LSC will be conducted;
 - There will be proper housekeeping, maintenance, and storage practices for the LSC materials;
 - There will be no accumulation of combustible deposits; and
 - Spraying operations will be conducted within the established spray area.

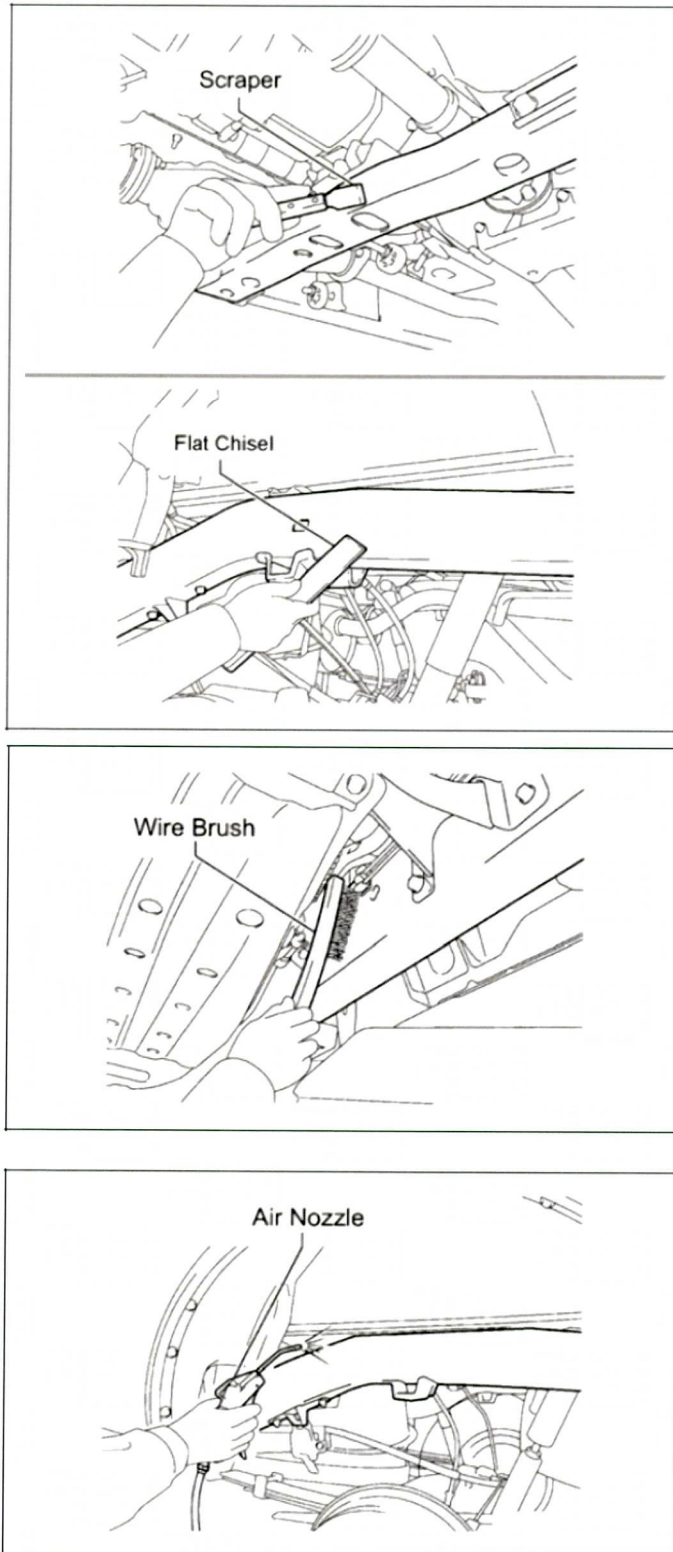
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Exhibit A: Vehicle Setup



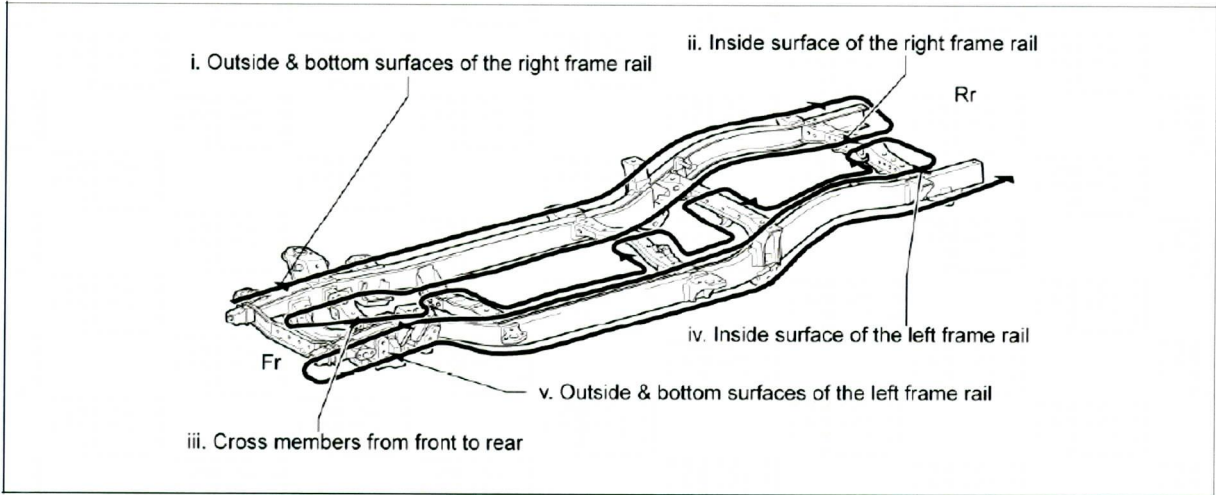
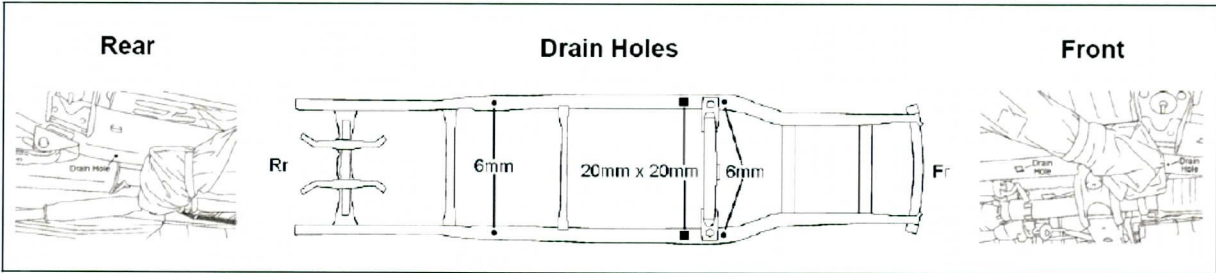
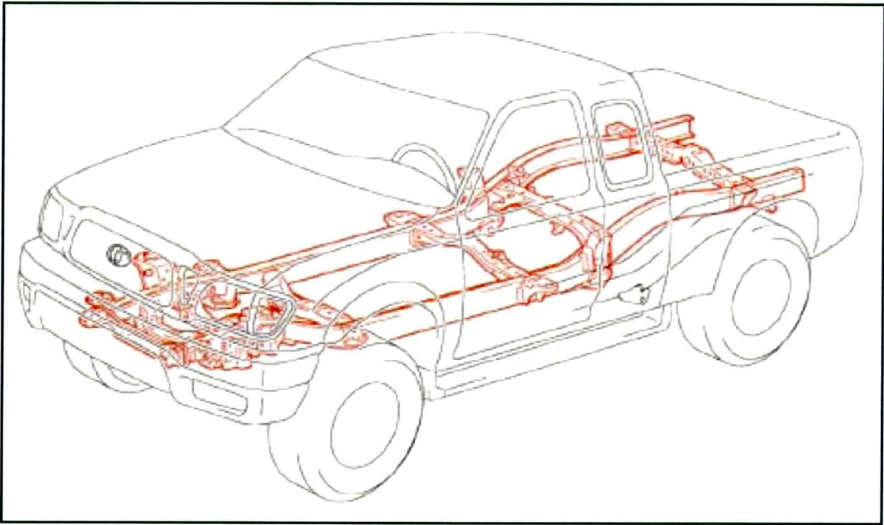
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Exhibit B: Vehicle Preparation



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Exhibit C: Application Locations



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**REGULATED
WASTE MGMT**

**LSC 90D - LIMITED SERVICE CAMPAIGN
2001 - 2004 MODEL YEAR TACOMAS
MINNESOTA DEALER INFORMATION PACKET
FEDERAL, STATE AND LOCAL REQUIREMENTS GUIDE
REGULATED WASTE MANAGEMENT SECTION**

Given the combustibility of the LSC materials, waste containing those materials may qualify as regulated hazardous waste. However, the LSC will not generate any noticeable quantities of regulated hazardous waste in the normal course, given that the LSC spray guns do not require cleaning. The LSC, therefore, will not impact your dealership's current waste generator status (e.g., whether you are a Small Quantity Generator or a Conditionally Exempt Small Quantity Generator of regulated waste). It is possible, however, that you may have rags used for clean-up in connection with the LSC or even excess quantities of the LSC materials that you intend to dispose of. You should handle these items in the same manner as other regulated hazardous waste at your dealership.

1. IF YOU GENERATE MORE THAN 100 POUNDS OF HAZARDOUS WASTE (SUCH AS PAINT WASTE) IN A CALENDAR YEAR, YOU MUST HAVE AN EPA ID NUMBER.

2. IF YOU ARE ALREADY A REGISTERED SMALL QUANTITY GENERATOR (I.E., BECAUSE YOU GENERATE MORE THAN 220 POUNDS OF REGULATED WASTE PER MONTH) YOU MAY STOP READING AS YOU ARE LIKELY ALREADY FAMILIAR WITH THE REQUIREMENTS NOTED BELOW. THE LSC WILL NOT IMPACT YOUR GENERATOR STATUS.

3. IF YOU ARE NOT A SMALL QUANTITY GENERATOR, DO NOT GENERATE MORE THAN 220 POUNDS OF REGULATED WASTE PER MONTH, OR ACCUMULATE MORE THAN 2,200 POUNDS OF REGULATED WASTE AT ANY TIME.

- a. Your dealership will not have to become a registered Small Quantity Generator (and thereby be subject to additional requirements) if you stay below the two registered Small Quantity Generator triggers:
 - (1) Generate no more than 220 pounds of regulated waste in a calendar month;
 - (2) Accumulate no more than 2,200 pounds of regulated waste at any one time.
- b. Because the LSC does not generate noticeable quantities of regulated waste, it should not impact the ability of your dealership to comply with these thresholds.

Important Compliance Note. The 220 pounds per month waste generation level and the 2,200 pounds accumulation level apply separately to each part of your dealership that has its own address.

4. STORE ALL REGULATED WASTES IN PROPER CONTAINERS WITH PROPER LABELS, AND MAINTAIN REQUIRED RECORDS.

5. DISPOSE OF ALL REGULATED WASTE ONLY AT FACILITIES AUTHORIZED TO RECEIVE "HAZARDOUS" WASTE USING A COMPANY LICENSED TO TRANSPORT SUCH WASTE TO THE DISPOSAL FACILITY.

6. REMEMBER TO COUNT USED OIL AGAINST YOUR MONTHLY REGULATED WASTE LIMIT IF YOU DETERMINE IT TO BE HAZARDOUS.

- c. In Minnesota, used oil should be classified as a hazardous waste and managed accordingly if it has been mixed with hazardous waste and exhibits a hazardous waste characteristic or contains a listed hazardous waste. Used oil containing more than 1,000 ppm of total halogens is presumed to be a hazardous waste, though this presumption can be rebutted. As a result, used oil - if it meets any of these conditions - must be counted towards the 220 pounds per month level for exemption from more significant regulated waste requirements.

Used oil that does not constitute a hazardous waste must be recycled. We assume that your dealership generates used oil, and therefore, is already familiar with the special regulated waste recycling requirements for used oil.