



TO: INDIANA TOYOTA DEALER PRINCIPALS, SERVICE AND PARTS MANAGERS

DATE: 2009

RE: Information Packet for LSC 90D

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

INDIANA DEALER INFORMATION PACKET

This bound volume contains two parts of the Indiana Dealer Information Packet—the **Getting Started Guide** and the **Federal, State and Local Requirements Guide**. The third part—the **Technical Instructions**—is bound separately.

Indiana Dealer Package

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IMPORTANT – PLEASE READ

To: Indiana 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.

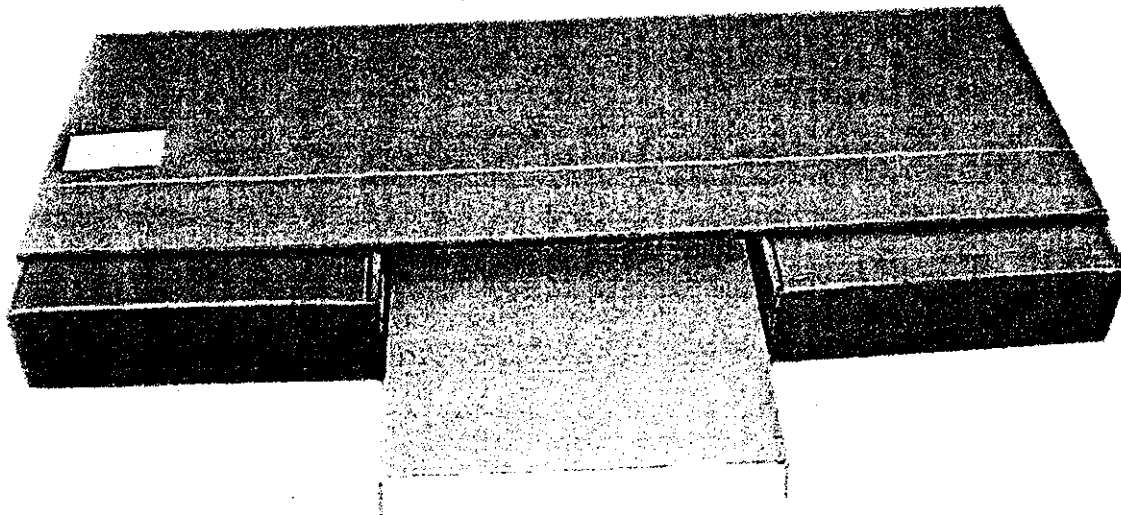
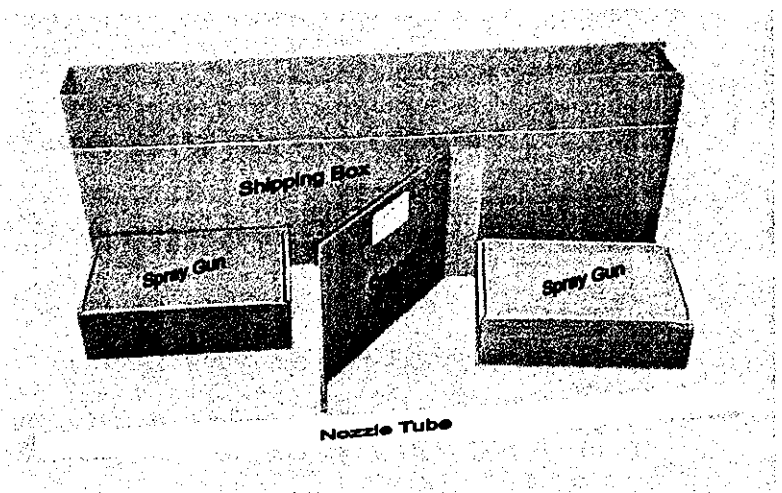
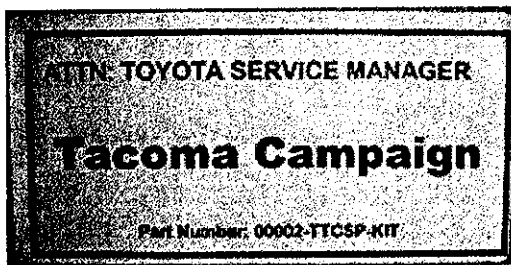
Please give the KPA EH&S Specialist the same courtesy you give your TMS Region representatives. If you have any questions, please contact your Region or the LSC EH&S hotline at (877) 572 4347.

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.

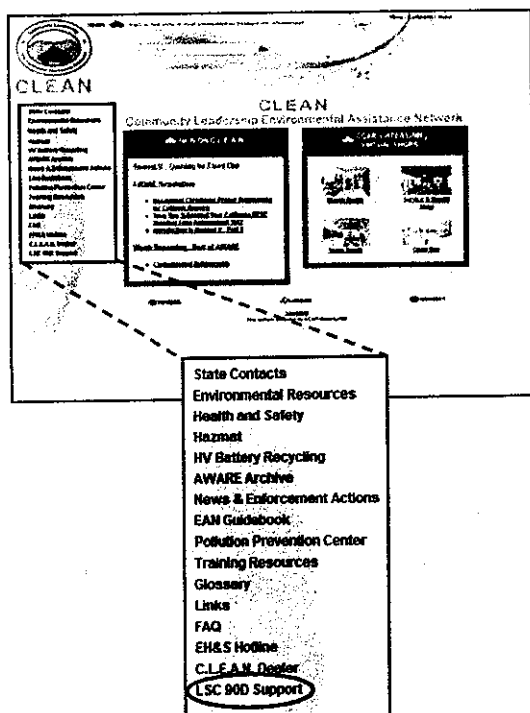


TOYOTA

Toyota Motor Sales, U.S.A., Inc.
19001 South Western Avenue
Torrance, CA 90501
(310) 468-4000

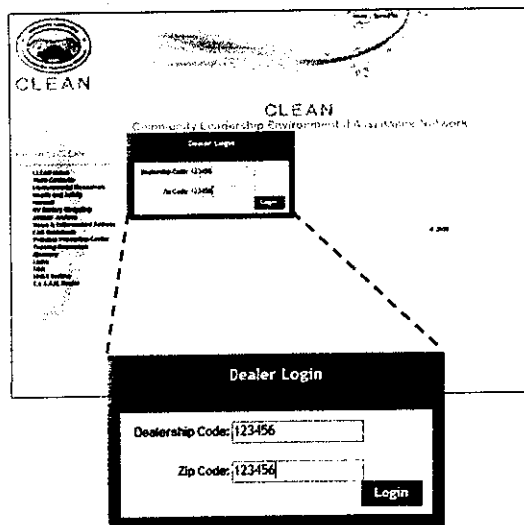
Important Information – LSC 90D Dealer Readiness Tool

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.

[illegible]

****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. At the top left is the 'CLEAN' logo with a circular emblem. A navigation menu on the left lists various resources like 'My Dashboard', 'Survey', 'Logoff', 'Return to CLEAN', and a list of links including 'CLEAN Home', 'State Contacts', 'Environmental Resources', 'Health and Safety', 'Hazardous Waste', 'HV Battery Recycling', 'AWARE Archive', 'News & Enforcement Actions', 'EAM Outbreakbook', 'Pollution Prevention', 'Training Resources', 'Glossary', 'Links', 'FAQ', 'EN&S Hotline', and 'CLEAN Dealer'. The main header area includes 'Return to My Dashboard' and the survey title 'LSC 90D Dealer Readiness Survey'. Below this is a 'User Information Box' containing the user's name 'John Doe', phone '(123) 456-7890', email 'John_Doe@Toyotadealership.com', and start time '5/7/2009 - 12:00 PM'. To the right is a 'Current Status' box showing 'Status: Incomplete', 'Overall: 35 %', 'Site Readiness: 33 %', 'Safety: 40 %', and 'Local Reqs: 33 %'. The survey questions are listed in a table with radio button options for 'Yes' or 'No' and an 'Add/View Comments' link for each. A 'Save Changes' button is located at the top right of the question list. At the bottom, there is a declaration statement: 'By clicking [SAVE CHANGES] I attest that to the best of my knowledge my answers are complete and true.' and a contact number: 'If you need assistance with this survey please call the LSC 90D helpline at 877.572.4347'. Numbered callouts 1 through 8 point to specific elements: 1 points to the 'Return to My Dashboard' link; 2 points to the 'Survey' link in the navigation menu; 3 points to the 'Current Status' box; 4 points to the 'Survey Questionnaire' section; 5 points to the 'Save Changes' button; 6 points to a 'Help Bubble' icon next to a question; 7 points to the 'Add/View Comments' link; 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 automatically 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.

TOYOTA

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.***

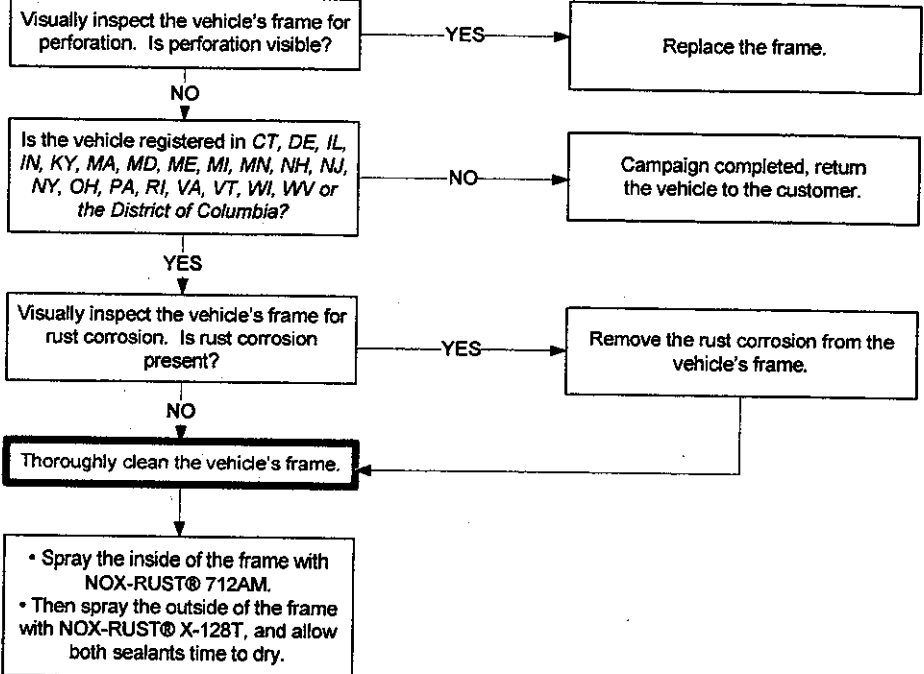
*Follow the LSC 90D Support link located in the left bottom corner of the webpage.

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

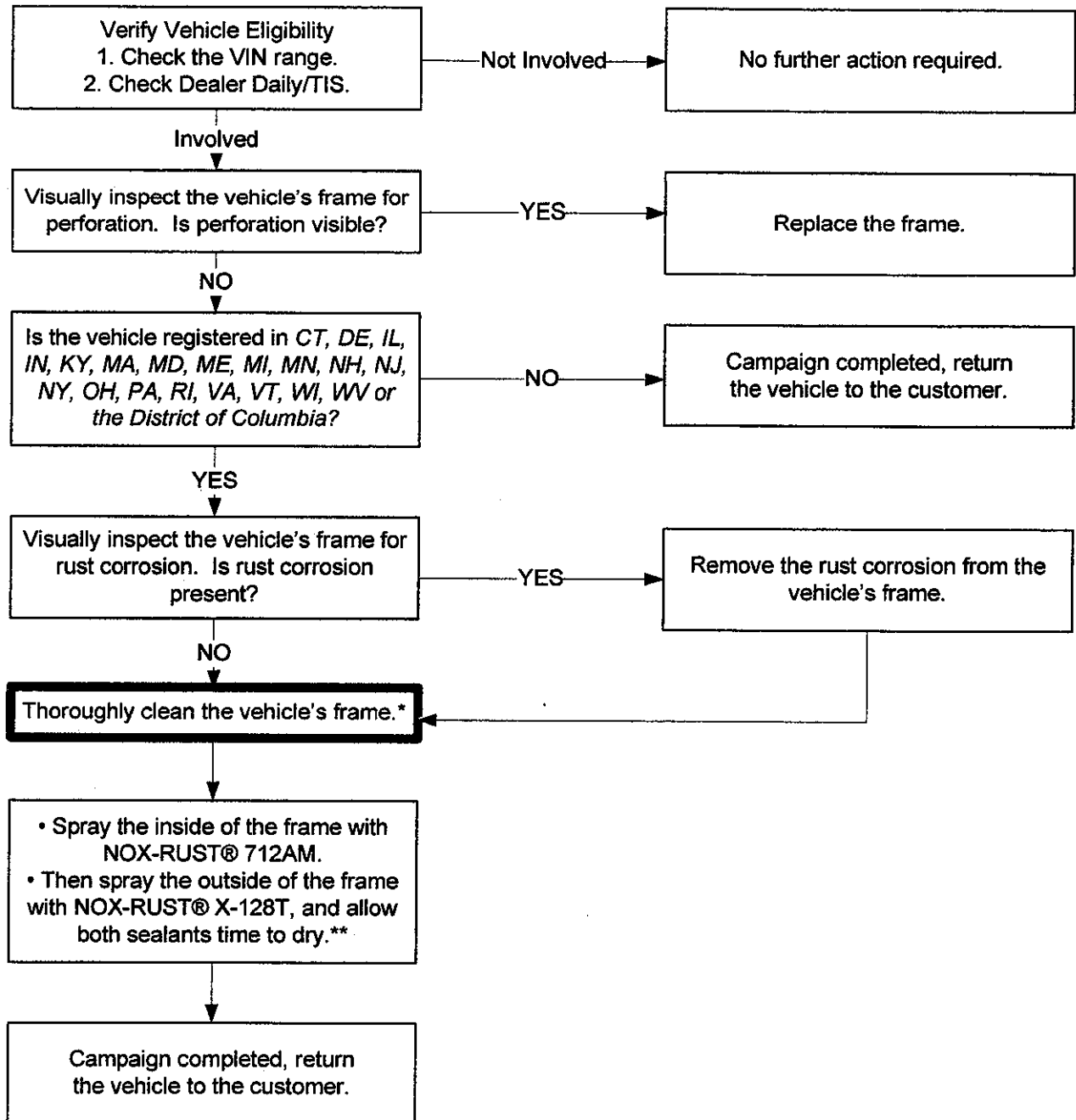
LSC	Op. Code	Description	Flat Rate Hour
90D	8630JM	Apply Corrosion-Preventative Compound By Dealer	3.6 Hr/Veh

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
			VM72N	Z718164 – Z880443
			VN72N	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
			VM72N	Z000058 – Z899904
			VN72N	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
			VM72N	Z145487 – Z305493
			VN72N	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
			VM72N	Z305789 – Z466757
			VN72N	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 (Dealer Tire). 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. <u>They are not for resale</u>		

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:	1-800-243-4630
3M® Customer Service:	1-800-328-1667
3M® Web Site:	www.3m.com/occsafety

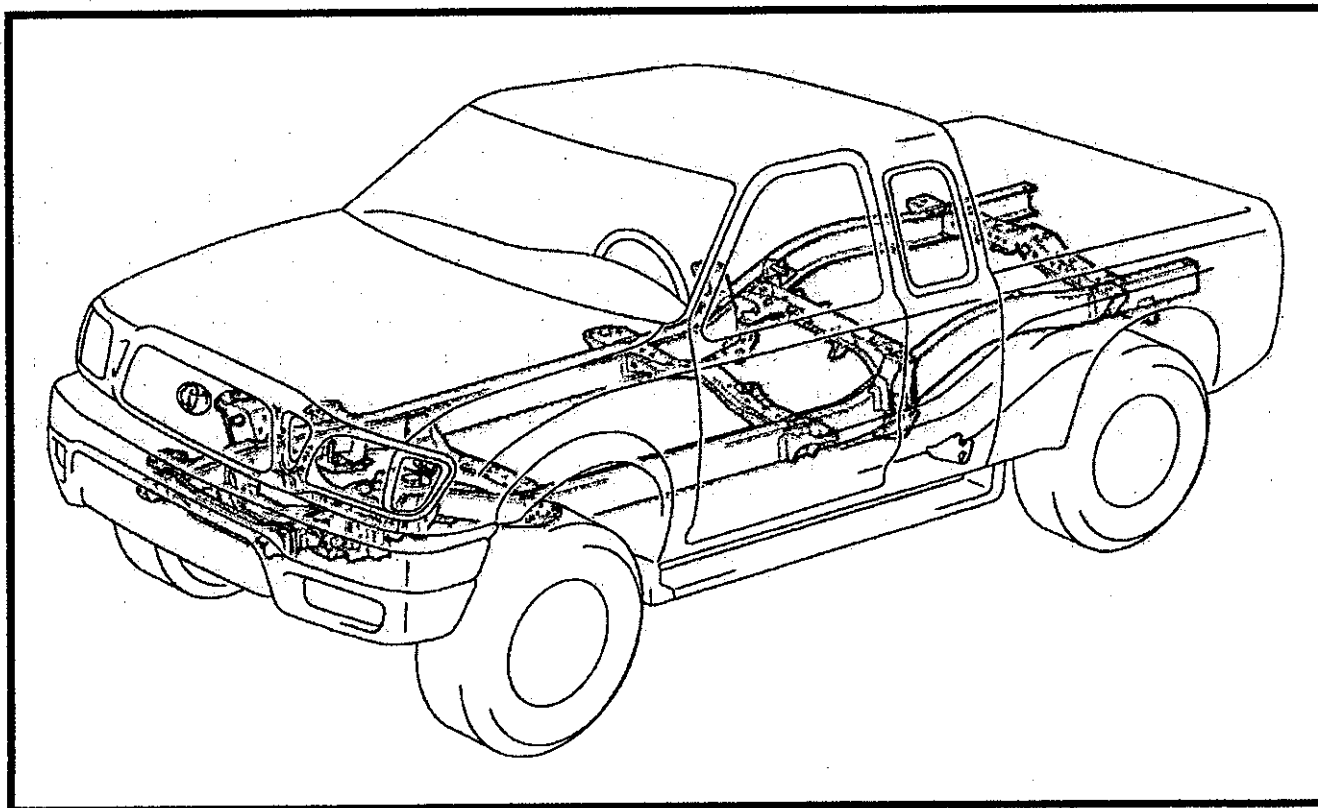
IV. BACKGROUND AND COMPONENTS

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.

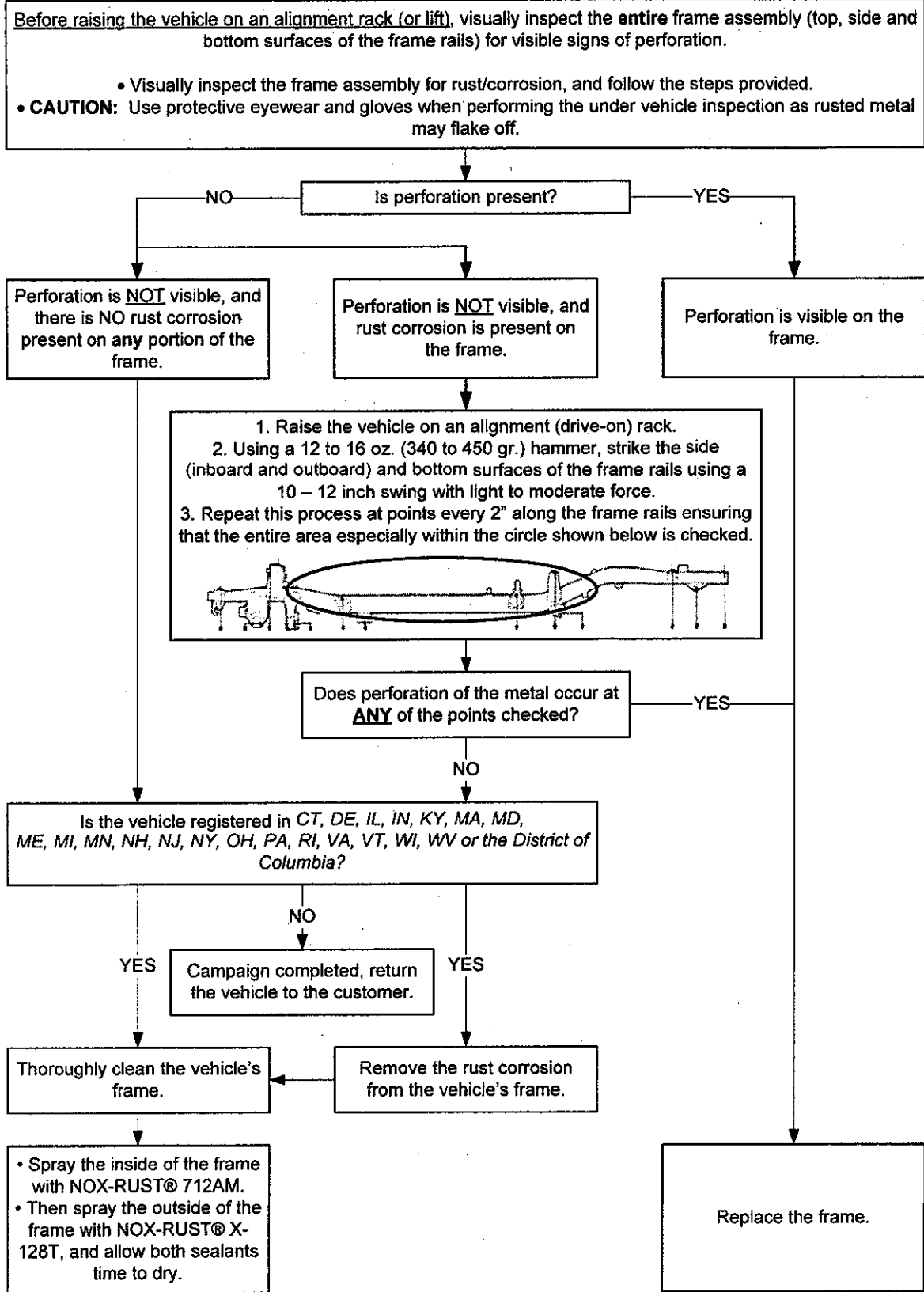


Important Reminder: Because of variations in State laws, dealerships conducting the LSC in certain States may require government approvals prior to starting the LSC. Depending upon the state, dealerships also may be subject to restrictions on the number of vehicles to which the LSC materials can be applied 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



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

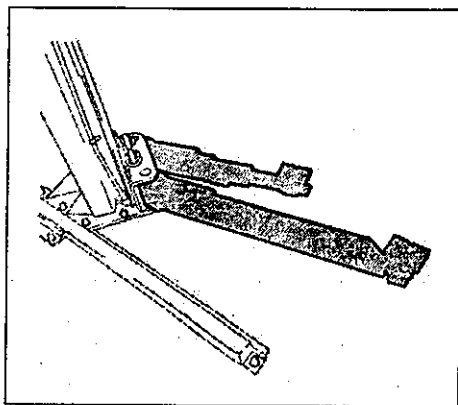
- a) Work with your Service Manager to locate a dedicated work area and lift with the following requirements.
- In well ventilated area.
 - Away from other vehicles to minimize the possibility of overspray.
 - In a location that can be sectioned off by partitions.
 - In an area that provides sufficient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

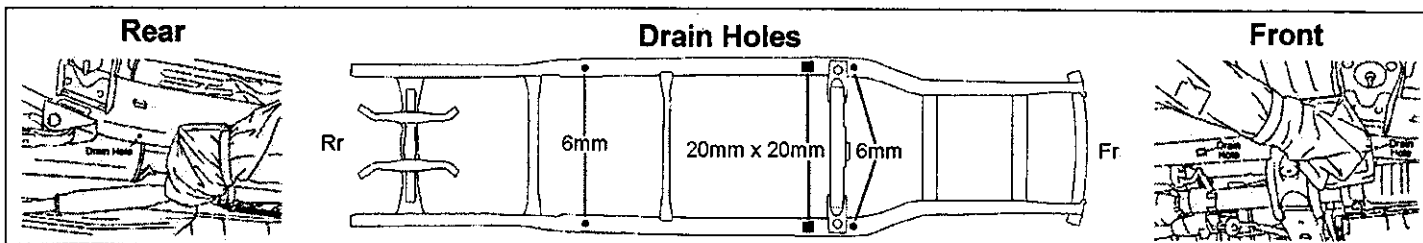


2. MASK THE LIFT SWING ARMS

- Cover the lift swing arms with fire-retardant poly sheeting (tarp).
- 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.

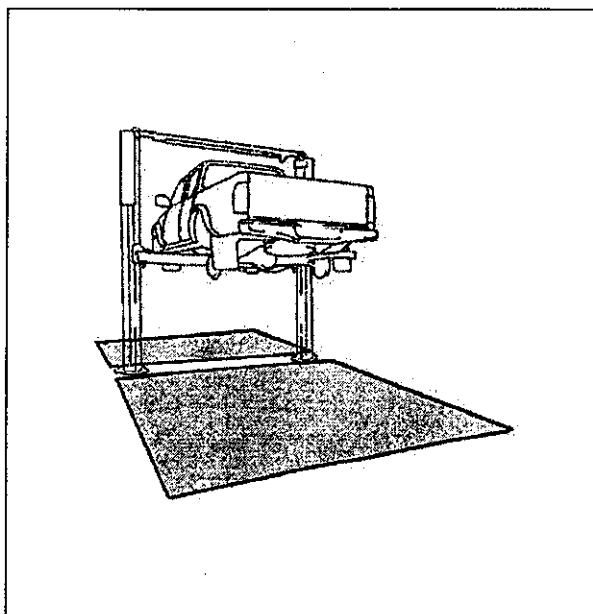
NOTE:

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.

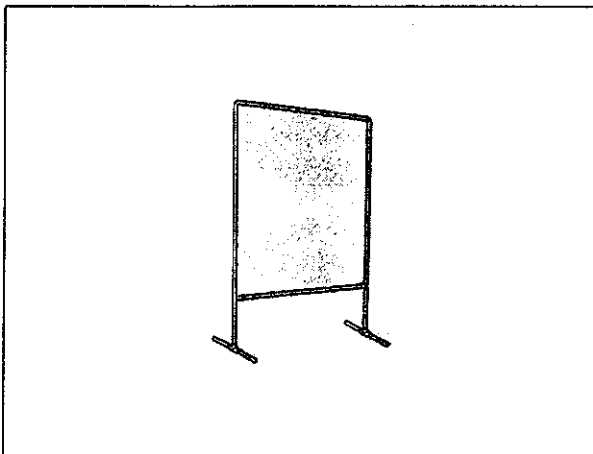
NOTE:

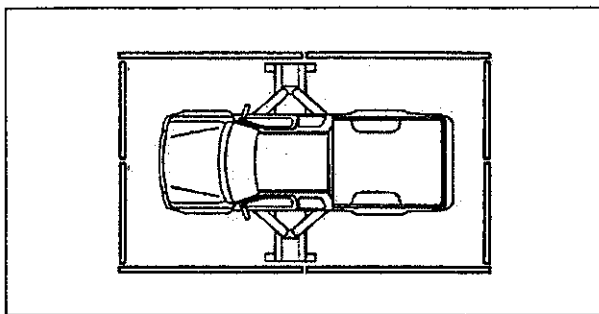
- When laying out the tarp on the floor, be sure it is secure and does not create a slipping hazard when walked upon.
- Inspect the tarp on a daily basis for damage (cuts, tears, etc.) and replace as necessary.
- Dispose of old tarps in the same manner as other regulated waste at your dealership. Refer 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.



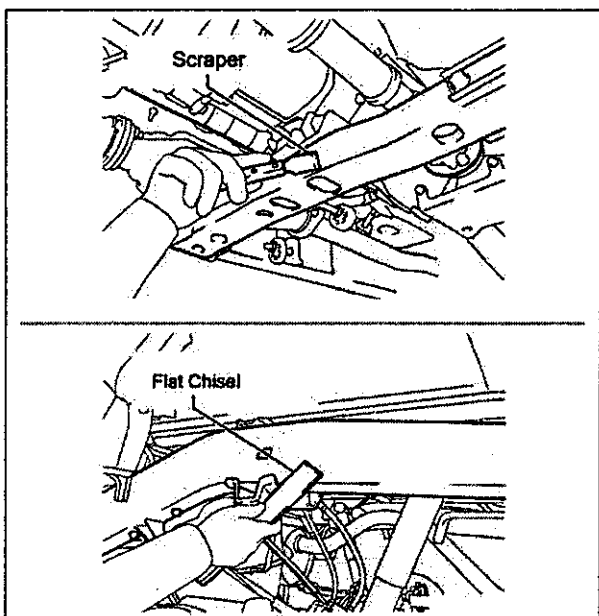


- d) Position the partitions around the vehicle to prevent overspray, as shown in the illustration.

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



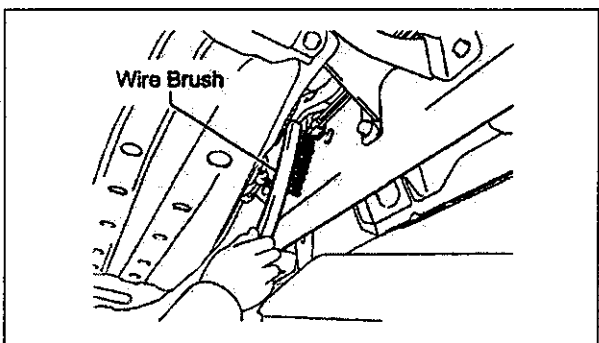
1. REMOVE THE FRAME RUST

- 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

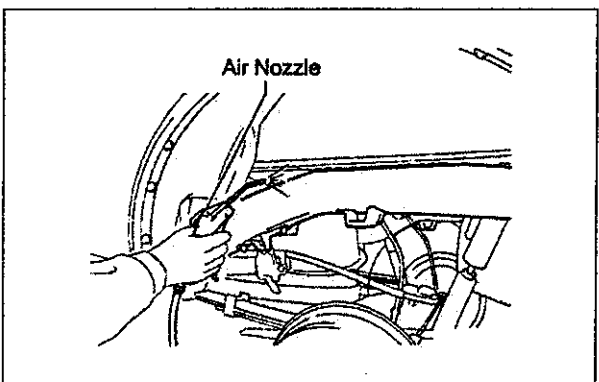


1. CLEANING THE FRAME

- 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.

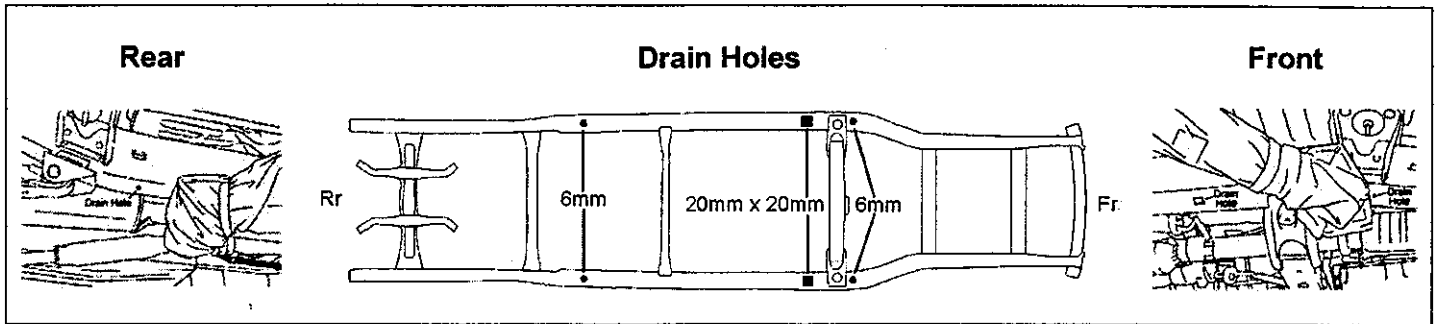


- b) Using an air nozzle, remove any dirt, debris, rust flakes and water residue from the frame.

NOTE:

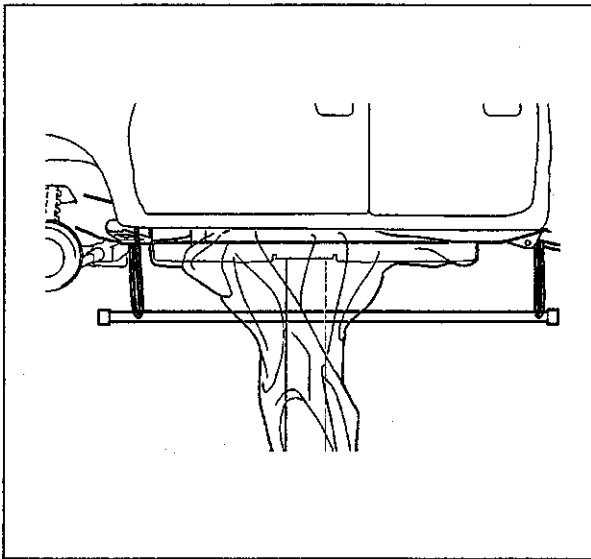
- Make sure to wear protective eyewear when performing this step.
- A slightly wet frame surface is acceptable when applying the frame Corrosion-Preventative Compound.

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

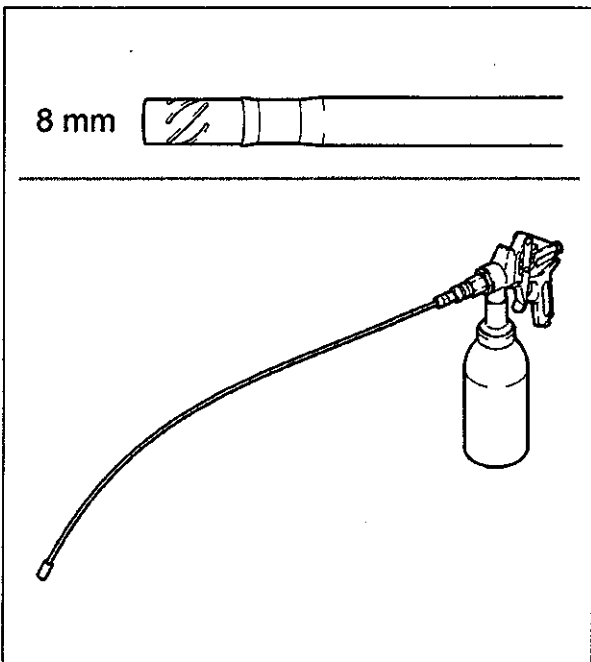
NOTE:

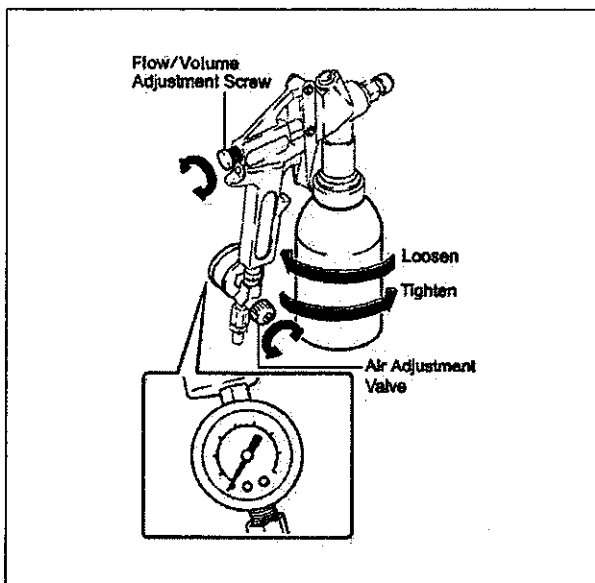
Use a dedicated spray gun for the NOX-RUST® 712AM (712AM) internal frame application.

- 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.

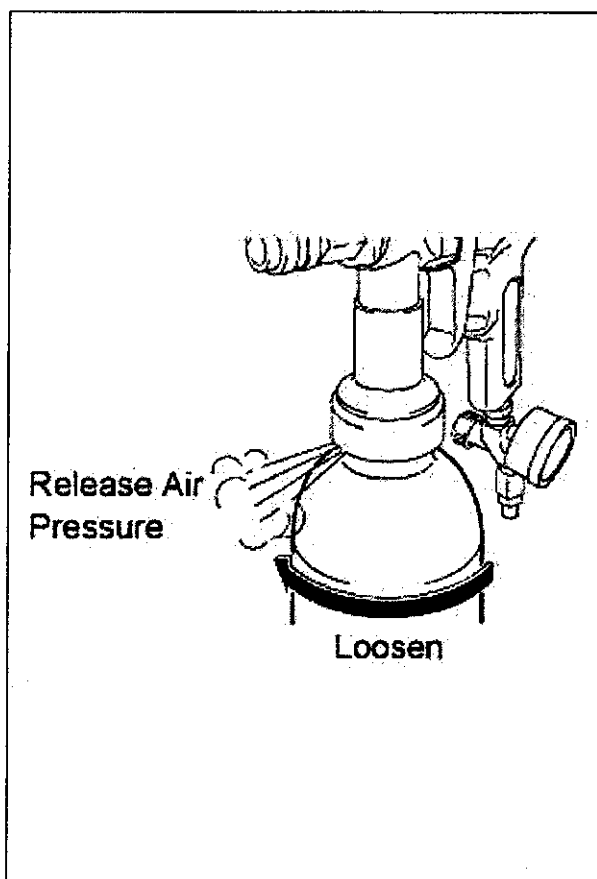




- e) Adjust the spray gun nozzle flow/volume. Turn the adjustment screw to the fully closed position (clockwise). Then loosen the adjustment screw 4 complete turns.
- f) Adjust the air pressure regulator. Place the nozzle in a clean empty box or pail and fully press the spray gun trigger, and adjust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

NOTE:

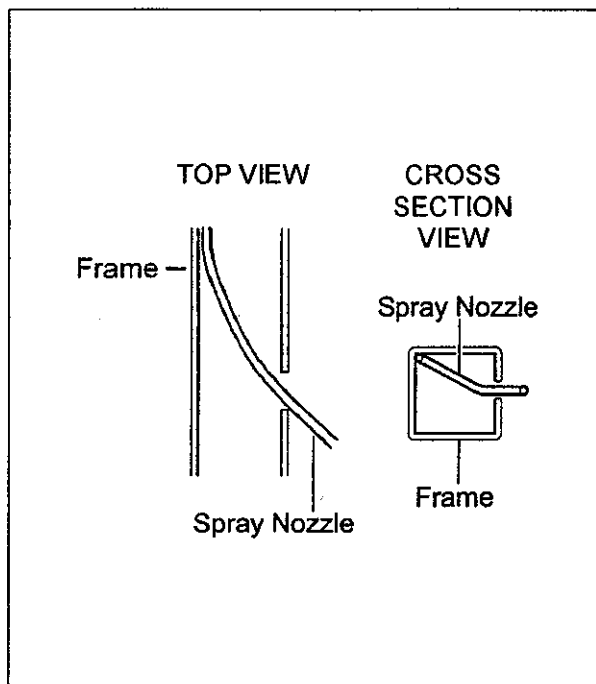
- DO NOT bend the spray nozzle.
- Make sure to wear protective eyewear, impervious gloves (Viton, PVOH, etc.) and refer to the MSDS located in the Appendix when performing this step.



- 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

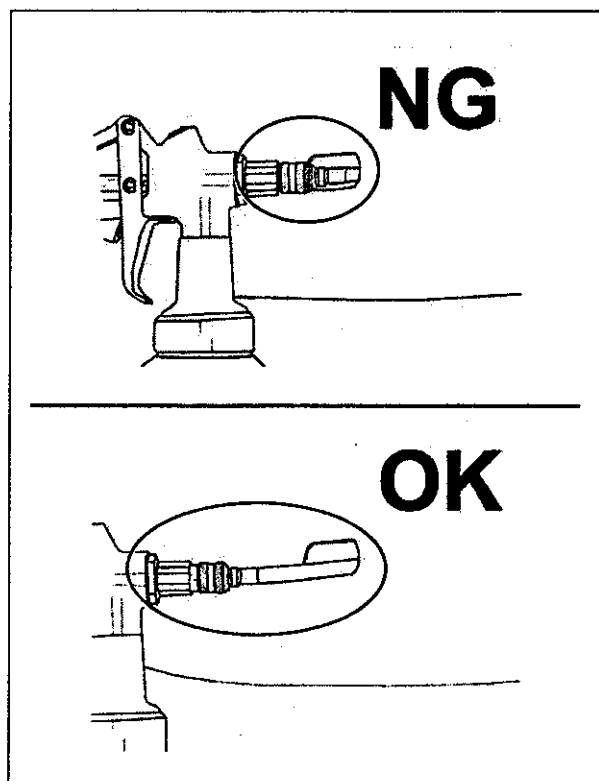
- Insert the spray nozzle into the selected holes located throughout the frame. Begin at the front of the vehicle on the right frame rail. Reference the next two pages for the locations of each hole.
- Insert the nozzle so it contacts the upper edge of the opposite side (see illustration), and push it 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.**

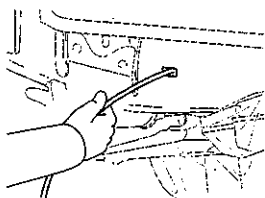
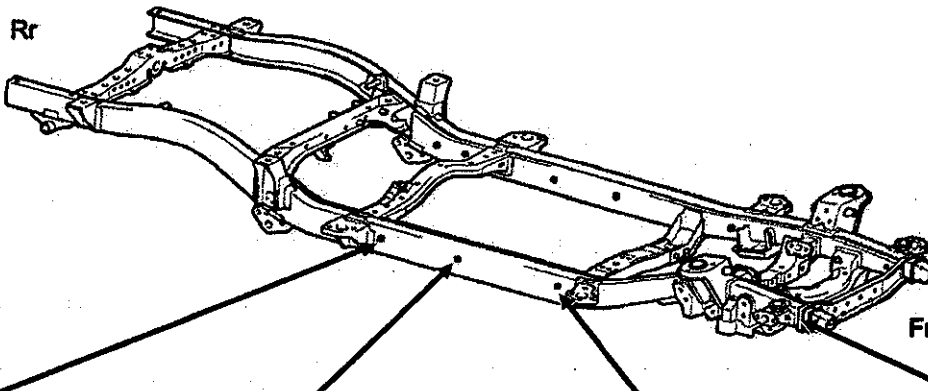


NOX-RUST® 712AM INTERNAL FRAME APPLICATION (CONTINUED...)

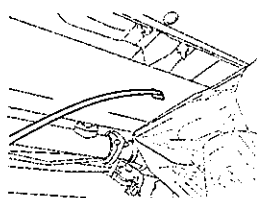
OUTBOARD FRAME RAIL NOZZLE INSERTION POINT & DEPTH, AND 712AM APPLICATION SPEED

NOTE:

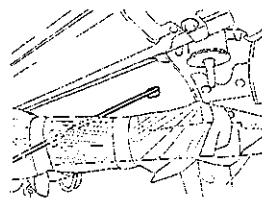
- Follow all MSDS guidelines for the 712AM which can be found in the Appendix.
- Only outboard rail nozzle insertion points are shown. See following page for inboard rail nozzle insertion points.
 - Only one side is shown. Outside frame rail nozzle insertion points are the same on both sides.
 - Make 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.



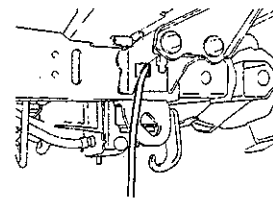
- Insert nozzle as far as it will go towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)



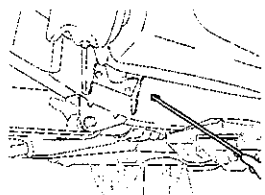
- Insert nozzle as far as it will go towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.3 m/sec (12 in/sec)



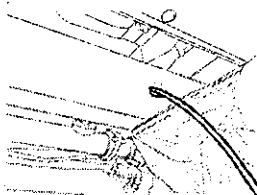
- Insert nozzle as far as it will go towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.5 m/sec (20 in/sec)



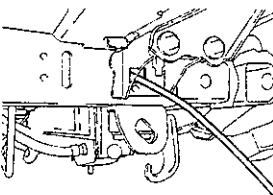
- Insert nozzle 5 cm (2 in.) towards the front of the frame.
- Slowly pull out the nozzle at an application speed of 0.5 m/sec (20 in/sec)



- 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)

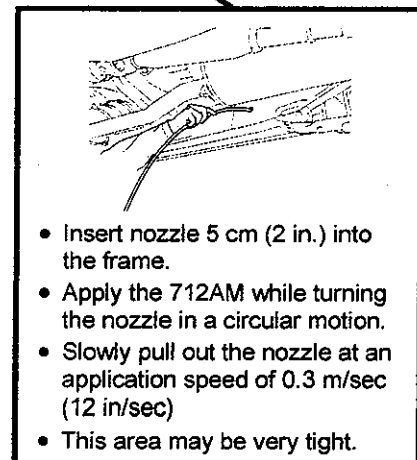
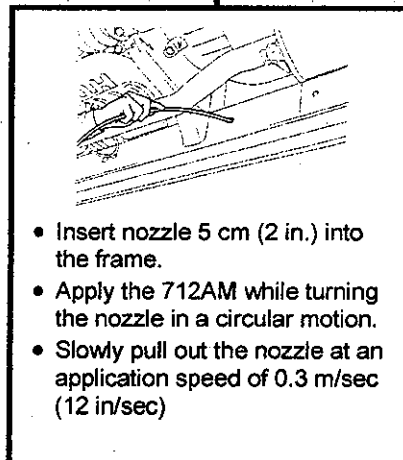
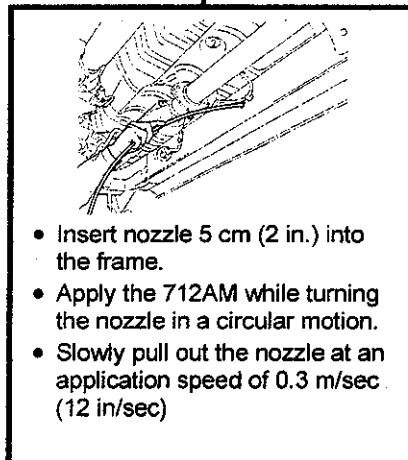
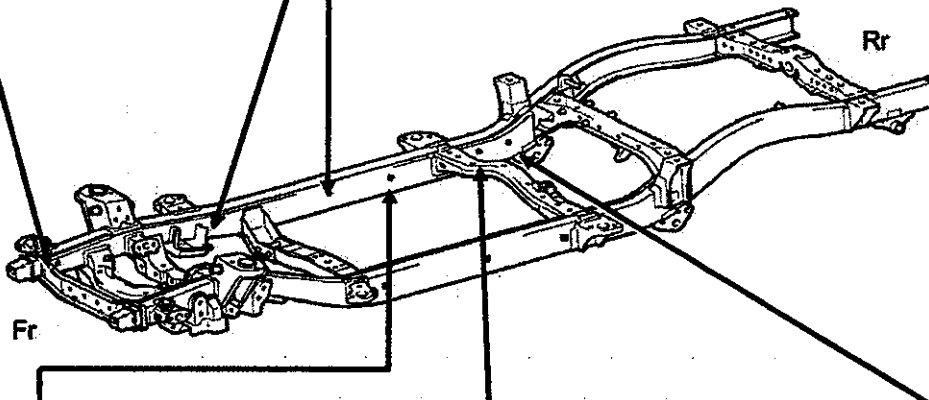
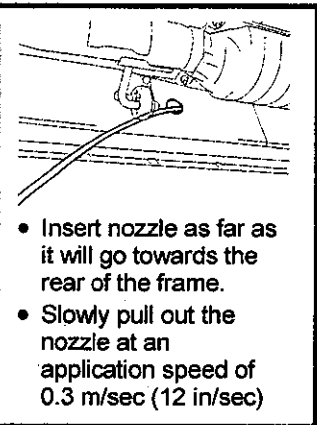
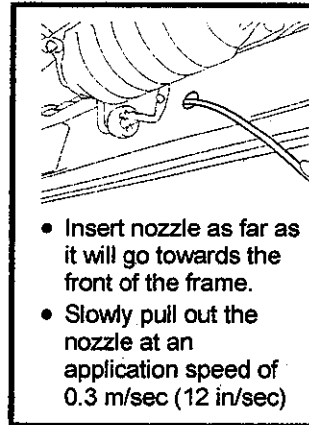
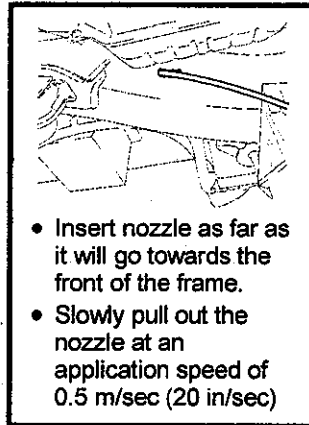
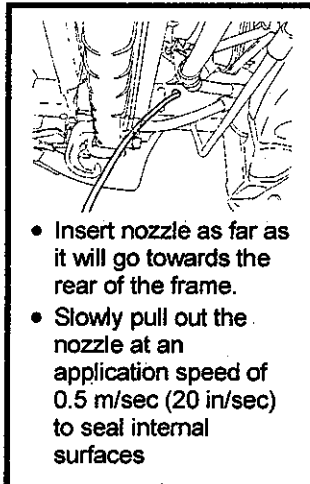
Note: m/sec = meters/second

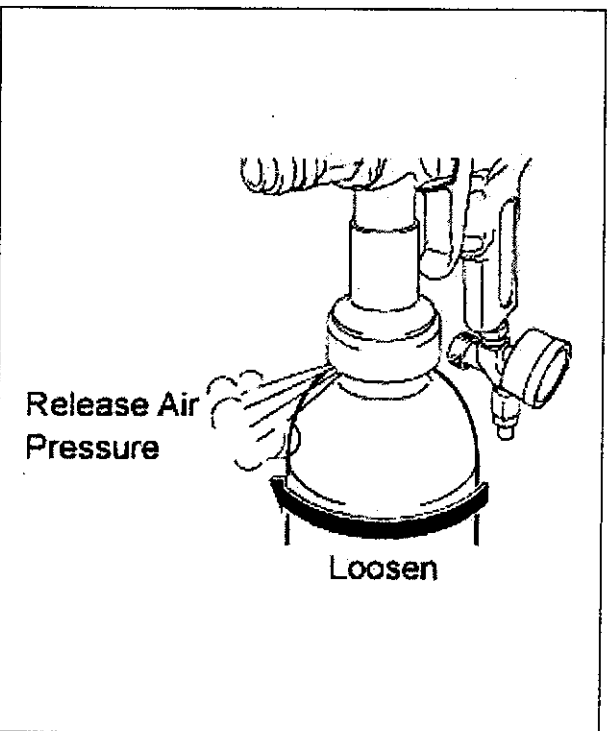
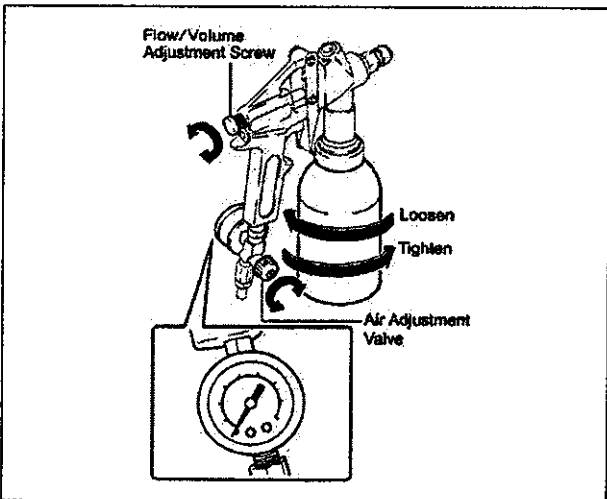
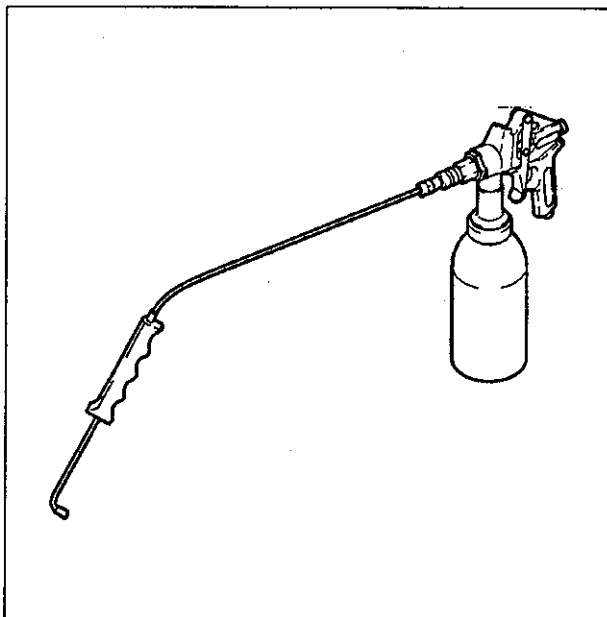
NOX-RUST® 712AM INTERNAL FRAME APPLICATION (CONTINUED...)

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.





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.

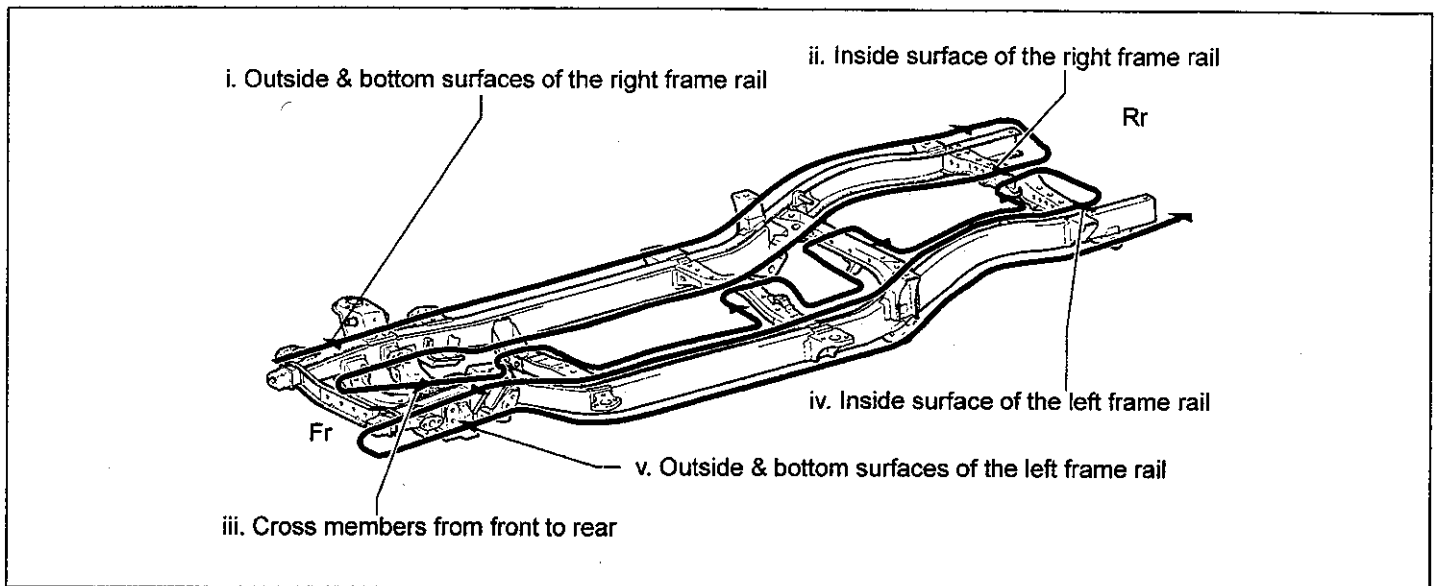
NOTE:

- 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.

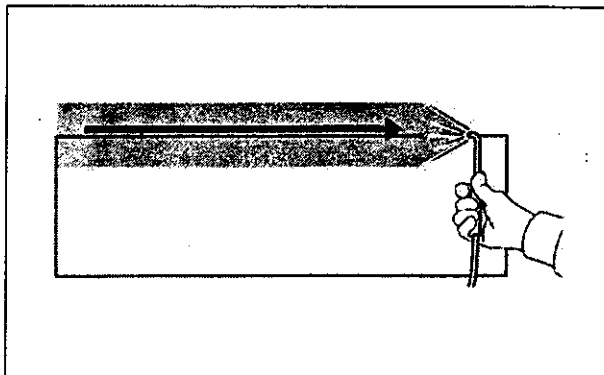


6. NOX-RUST® X-128T EXTERNAL FRAME APPLICATION

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

- a) 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.
- b) 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.

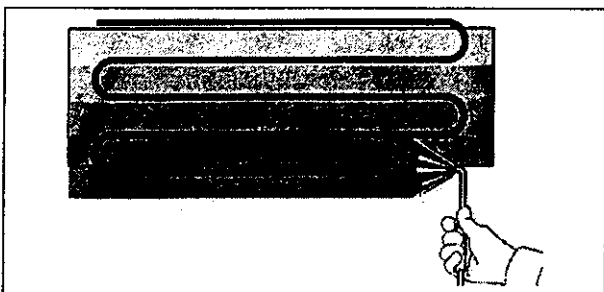
- i. Outside & bottom surfaces of the right frame rail (starting at the front of the vehicle)
- ii. Inside surface of the right frame rail (starting with the rear of the vehicle)
- iii. Cross members from front to rear (starting from the front of the vehicle)
- iv. Inside surface of the left frame rail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



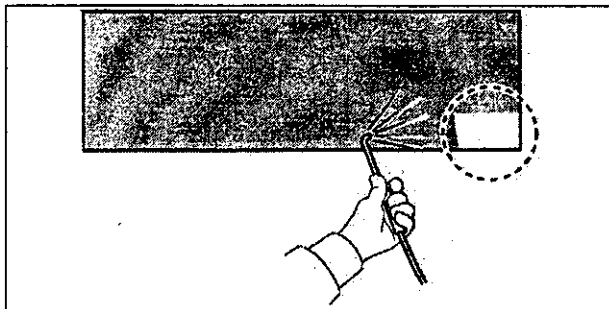
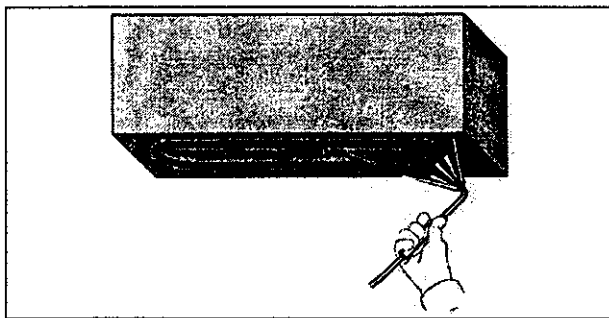
- c) Start in the top left corner of the section you are spraying. Position the spray nozzle 20 to 25 cm (8 to 10 in.) away from the frame surface. Then apply the X-128T to the outside frame rail moving the nozzle at a constant speed of 0.1 m/sec (4 in/sec).

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.



- d) 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.

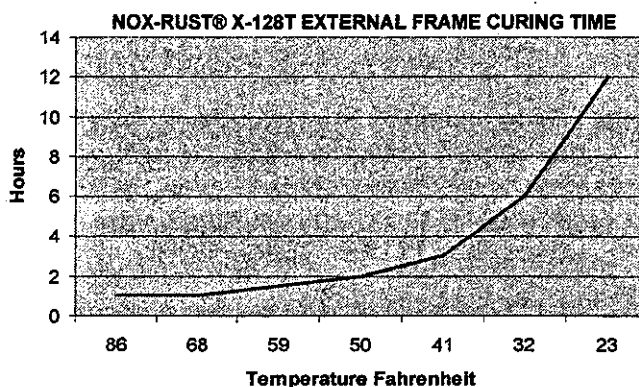
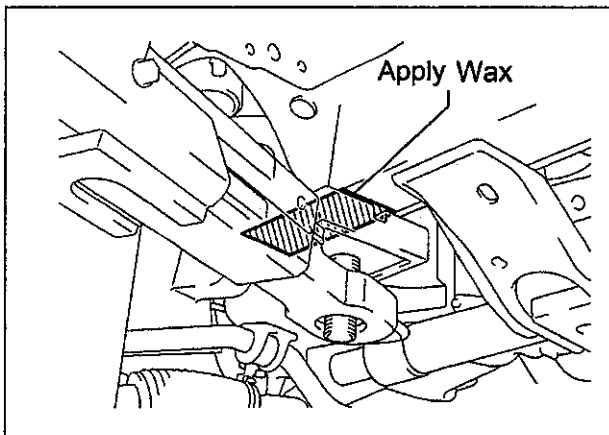


- e) Once the outside surface of the frame rail section you are working on has been completed, without stopping, spray the bottom side as shown in the illustration.
- f) Spray the remaining frame and cross member surfaces in the same manner.

- 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.

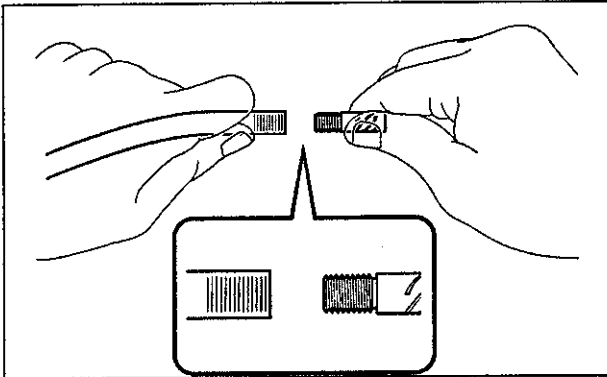
B. REPLACEMENT OF 712AM APPLICATOR NOZZLE

1. REMOVE AND INSTALL SLIT TIP

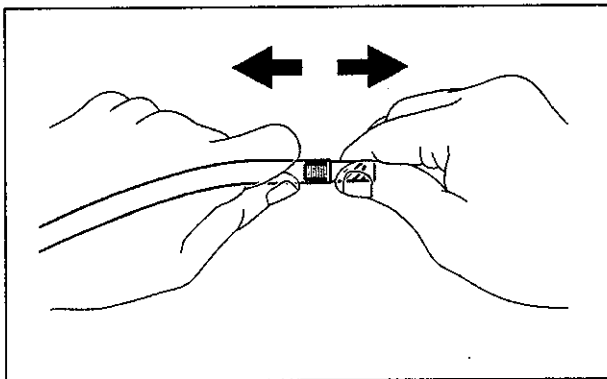


Slit Tip 8 mm

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

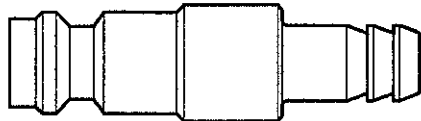


- a) Twist and remove the slit tip from the nozzle hose.
- b) Screw the slit tip onto a **NEW** nozzle hose at the slit tip connection

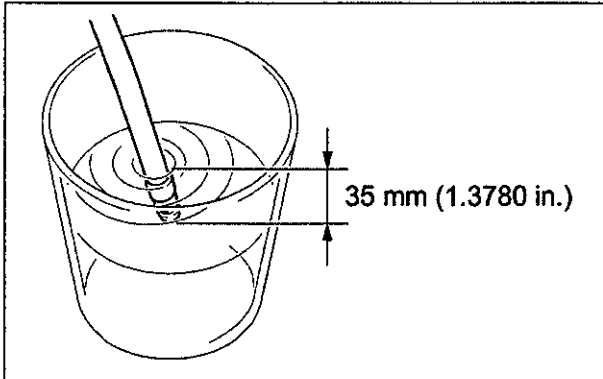


- c) Holding both the slit tip and the nozzle hose pull to ensure the tip is securely attached.

2. REMOVE AND INSTALL COUPLER (for 8mm)

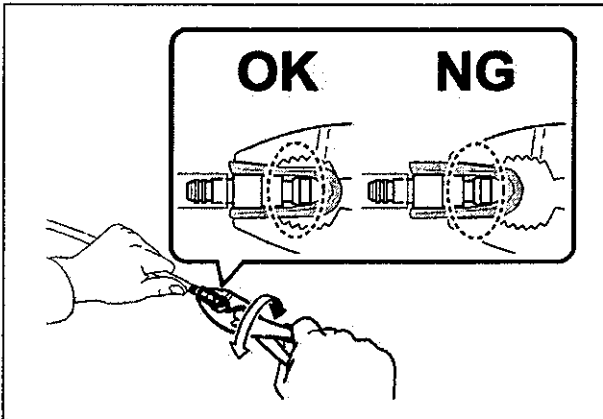


Coupler (8 mm)



- 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.

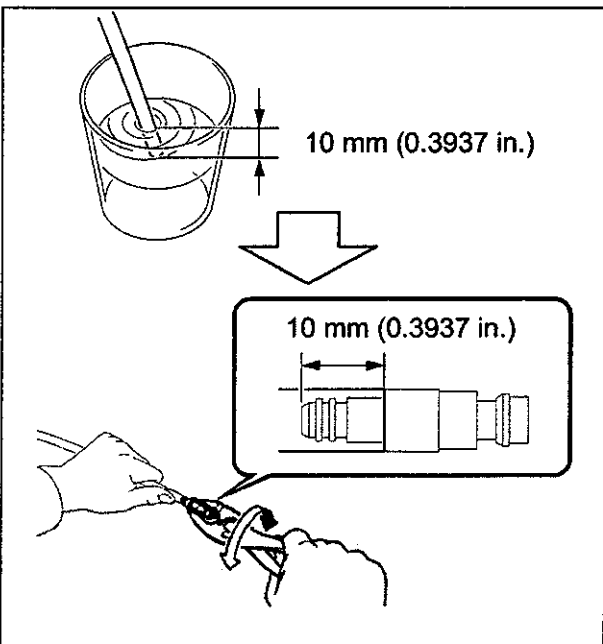


- b) Immediately after removing the coupler from the hot water, twist and remove the coupler from the nozzle hose using pliers and a paper towel.

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:
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

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	14808-60-7	.03 max

(Naturally occurring in mined calcium carbonate)

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.

**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, W, 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.

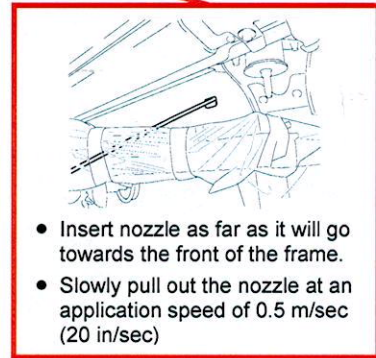
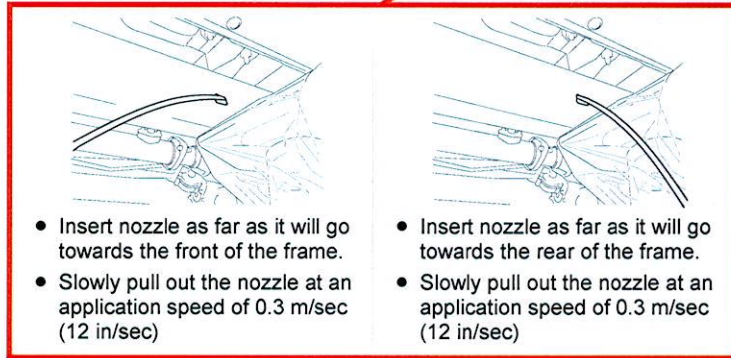
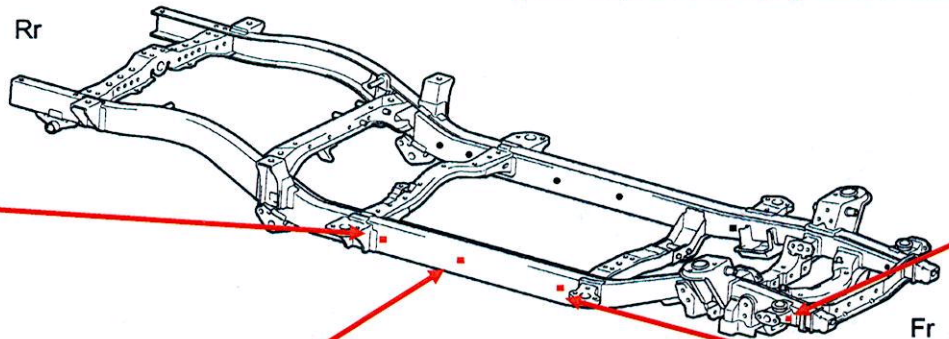
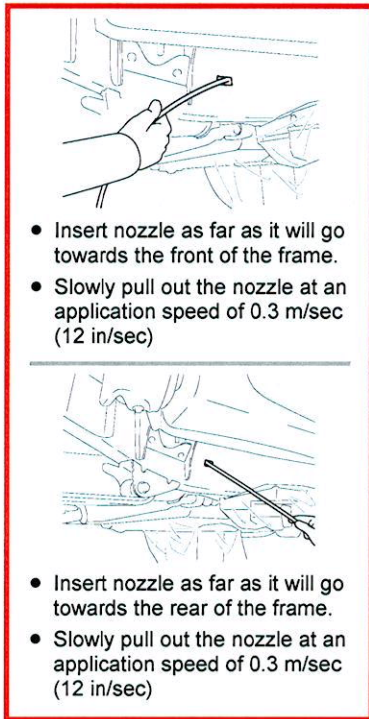
Thank you for driving a Toyota.

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

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

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

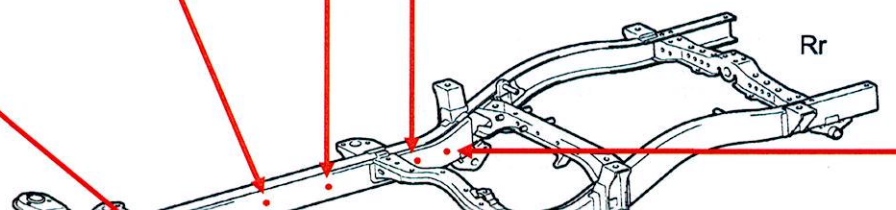
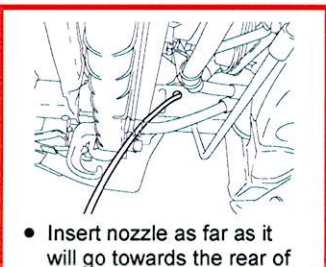
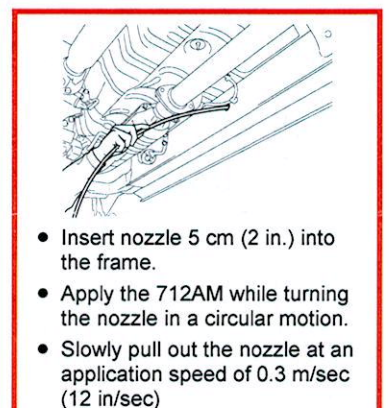
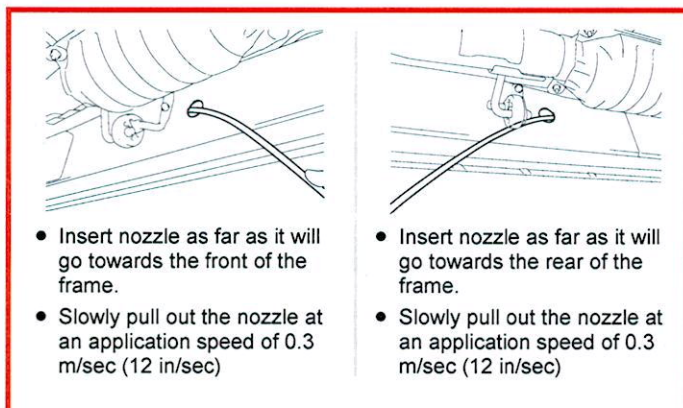
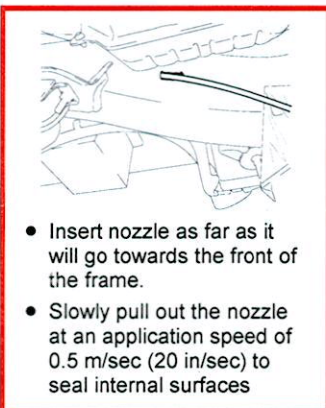
- Follow all MSDS guidelines for the 712AM corrosion preventive compound (sealant) which can be found in the technical instructions (TI).
- Only the outside frame rail nozzle insertion points are shown, see below for inside frame rail nozzle insertion locations.
- The exact insertion point locations may vary depending on the cab configuration.
- Follow the application speed directions to apply the sealant to the inside of the frame rail.
- Make sure to wear protective eyewear, chemical resistance gloves, and a respirator as specified 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 side of the frame rail.
- Tape can be placed on the spray nozzle to reference insertion depth.



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

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.
- Only one side is shown. Inside frame rail nozzle locations are the same on both sides.
- Make sure to wear protective eyewear, chemical resistance gloves, and a respirator as specified in the appendix of the TI when performing this procedure.
- Make sure to repeat the 712AM application on the opposite side of the frame rail.
- Tape can be placed on the spray nozzle to reference insertion depth.

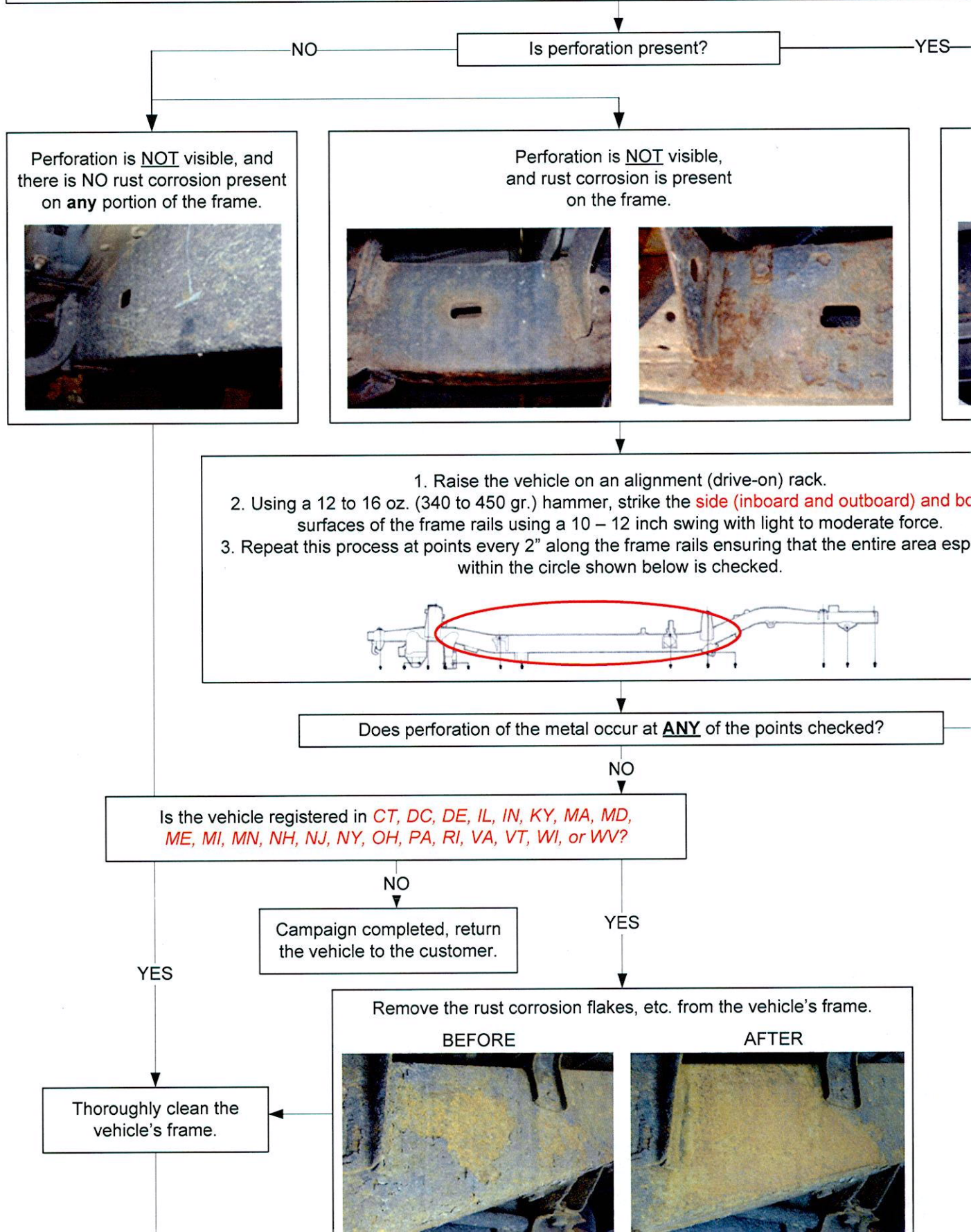


LSC 90D – 2001-2004 MODEL YEAR TACOMA FRAME PERFORATION INSPECTION AND OPERA

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 m



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: INDIANA TOYOTA DEALER PRINCIPALS, SERVICE AND PARTS MANAGERS

DATE: 2009

RE: Information Packet for LSC 90D

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

INDIANA 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 Limited Service Campaign (LSC) 90D is being launched to apply anti-corrosion (protective sealant) materials to vehicles registered in the Severe Cold Climate States.

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 approval, 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 parts, contained in two bound booklets:

1. **"GETTING STARTED GUIDE"**: Gets you started by reviewing the steps your dealership should take to select an appropriate spraying space and 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) Will conduct the Limited Service Campaign (LSC) in an existing service area at your dealership; 2) Does not have an onsite or offsite body shop; and 3) Does not currently have an air emissions permit. If any of these assumptions are incorrect, 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.

HOW TO IMPLEMENT THE LSC

Step 1: Select an Appropriate Spraying Space - To ensure that the LSC is conducted in compliance with regulatory requirements, you need to select an LSC work area that meets certain minimum requirements. Go to the Site Selection Section for more information.

Step 2: Confirm That You Can Conduct the LSC and Stay Exempt from Air Permitting Requirements.

- (A) **FOR DEALERSHIPS IN LAKE AND PORTER COUNTIES:** Your dealership will be exempt if your total emissions of VOCs and particulate matter (PM) are less than 5 tons per year (tpy) for each.

Based on Units in Operation data ("UIO data"), the LSC's VOC and PM emissions are expected to be at most 0.6 tpy and 0.02 tpy, respectively, at your dealerships; therefore, you can implement the LSC and stay below the 5 tpy limit as long as you keep your non-LSC usage of VOC containing materials at or below 1,400 gallons per year, and PM emissions below 4.98 tpy. See the Air Regulatory Section for additional details.

- (B) **FOR DEALERSHIPS OUTSIDE OF LAKE AND PORTER COUNTIES:** Your dealership will be exempt if your total emissions of VOCs and PM are less than 20 tpy for each.

Based on UIO data, the LSC's VOC and PM emissions are expected to be at most 2.8 tpy and 0.26 tpy, respectively, at your dealerships; therefore, you can implement the LSC and stay below the 20 tpy limit as long as you keep your non-LSC usage of VOC containing materials at or below 5,700 gallons per year, and PM emissions below 19.74 tpy. See the Air Regulatory Section for additional details.

Can you 1) Comply with the above requirements AND
2) Conduct the LSC in an existing service area?

NO

Please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

YES

Step 3: Receive a Letter From the State Fire Marshal's Office Authorizing You to Proceed With the LSC. YOU MUST RECEIVE THE FIRE MARSHAL'S AUTHORIZATION BEFORE PROCEEDING.

See the Fire, Building and Zoning Codes Section of the Federal, State and Local Requirements Guide for compliance and contact information.

Step 4: Properly Train all Employees Conducting the LSC at your Dealership.

See the Air Regulations and Air Recordkeeping Sections of the Federal, State and Local Requirements Guide for additional information.

AFTER COMPLETING STEPS 1, 2, 3 & 4 YOU CAN START APPLYING LSC MATERIALS

But, you must complete the LSC 90D Readiness Survey (to receive the spray equipment), and follow the Technical Instructions and Steps 5 and 6 below.

Complete the LSC Readiness Survey

Please complete the **LSC 90D Readiness Survey** available at the C.L.E.A.N. Dealer website (<http://cleandealer.com>) to confirm your readiness to start the LSC. **Toyota will automatically ship the LSC Spray Guns** to you at no charge once the survey reflects you have completed all LSC preparation steps.

Step 5: If You Have Not Done So Already, Submit a VOC Certification Letter.

Use the model letter in the Air Recordkeeping Section of the Federal, State and Local Requirements Guide.

Step 6: Keep Air Permitting Exemption and Training Records.

Use the forms in the Air Recordkeeping Section of the Federal, State and Local Requirements Guide.

**GETTING STARTED
GUIDE**

2001 - 2004 MODEL YEAR TACOMAS

INDIANA DEALER INFORMATION PACKET GETTING STARTED GUIDE

Where Will You Conduct The LSC? This Guide assumes your dealership will conduct the Limited Service Campaign (LSC) in an existing area at your dealership. If you are no longer able to conduct the LSC at that location and 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, 2, 3 and 4** below); and
- **WHILE** conducting the LSC (see **Steps 5 and 6** below).

STEP 1 – BEFORE YOU BEGIN APPLYING LSC MATERIALS, SELECT AN APPROPRIATE SPRAYING SPACE

To ensure that the LSC is conducted in compliance with all applicable regulatory requirements, you need to select an LSC work area that meets certain minimum requirements. Go to the Site Selection Section for more information.

STEP 2 – BEFORE YOU BEGIN THE LSC, CONFIRM YOUR DEALERSHIP CAN STAY EXEMPT FROM AIR PERMITTING REQUIREMENTS

The LSC anti-corrosion materials contain Volatile Organic Compounds (VOCs), Particulate Matter (PM) 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.

Toyota Motor Sales, U.S.A., Inc. (TMS) has contacted the Indiana Department of Environmental Management (IDEM) and explained the LSC and its air emissions. Based on this information, IDEM has issued a formal determination that the LSC does not require a permit if it is conducted at Toyota's Indiana Dealerships and certain other conditions are followed. Go to the Air Regulations Section for more information.

IMPORTANT REGULATORY NOTE: If you no longer plan to conduct the LSC in an existing area at your dealership, please immediately go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) **before you begin LSC operations.**

How Can I Learn More? Go to Air Regulations and Air Recordkeeping Sections of Federal, State and Local Requirements Guide for more information.

STEP 3 – BEFORE YOU BEGIN APPLYING LSC MATERIALS, YOU MUST: (I) RECEIVE A LETTER FROM THE STATE FIRE MARSHAL’S OFFICE AUTHORIZING YOU TO PROCEED WITH THE LSC; AND (II) CONFIRM THAT YOU CAN CONDUCT THE LSC IN COMPLIANCE WITH LOCAL AND STATE 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. **RECEIVE A LETTER FROM THE STATE FIRE MARSHAL’S OFFICE AUTHORIZING YOU TO PROCEED WITH THE LSC.**

Why do I have to receive such a letter from the State Fire Marshal? TMS has contacted the State Fire Marshal and explained the LSC and how it will be set up at your dealership. While the State Fire Marshal has determined that the LSC meets state and local fire code requirements generally, his office must issue to your dealership an approval to conduct the LSC, which may require an inspection of your LSC work area to confirm that it complies with the applicable fire code requirements.

To obtain this approval, you must set up your LSC work area as described in the Site Selection Section and the **Technical Instructions**. Once your LSC work area is set up, you should go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) and indicate that your LSC work area is ready to go, at which time TMS will notify the State Fire Marshal that your dealership is ready to proceed. Shortly thereafter, you should receive a letter from the State Fire Marshal’s office authorizing you to proceed with the LSC. Prior to receiving this letter, your dealership may be inspected by the State Fire Marshal’s Office. **You MAY BEGIN THE LSC ONLY AFTER you receive a letter from State Fire Marshal authorizing your dealership to proceed with the LSC.**

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? Go to the Fire, Building and Zoning Codes Section for the information you need to confirm regarding your dealership’s operations. Remember to use Table 1 in that Section (beginning at page 57) to look up whether your location is subject to any special additional requirements.

STEP 4 – BEFORE YOU BEGIN APPLYING THE LSC MATERIALS, TRAIN ALL EMPLOYEES PARTICIPATING IN THE LSC IN THE PROPER USE, HANDLING AND STORAGE OF THE LSC MATERIALS USING THIS GUIDE AND THE TECHNICAL INSTRUCTIONS

Under Indiana's air regulations, the LSC is subject to training requirements that require all employees participating in the LSC to be trained in the proper use, handling and storage of the LSC materials and equipment. You can satisfy this training requirement by having those employees at your dealership review, and confirm that they understand, this **Guide** and the **Technical Instructions**. Go to the [Air Regulations](#) and [Air Recordkeeping Sections](#) for more information, including a training log to document that such training has occurred.

After We Complete Steps 1, 2, 3 and 4 Can We Start The LSC?

*Yes, **IF** you have completed the **LSC 90D Readiness Survey** (available at the **C.L.E.A.N. Dealer website** – <http://cleandealer.com>) and received the LSC spray guns.*

***BUT** make sure to follow both: (1) the detailed **Technical Instructions**, and (2) Steps 5 and 6 (VOC certification letter and records for permit exemption and training). You should also review the **Federal, State and Local Requirements Guide** to better understand the legal requirements for Steps 1 through 6.*

STEP 5 – IF YOUR DEALERSHIP HAS NOT ALREADY DONE SO IN CONNECTION WITH OTHER AUTOMOBILE REFINISHING OPERATIONS, SUBMIT A LETTER TO IDEM CERTIFYING THAT ALL MATERIALS YOU USE FOR AUTOMOBILE REFINISHING MEET THE APPLICABLE VOC LIMITS.

Indiana air regulations require that the owner or operator of an automobile refinishing operation, such as the LSC, certify that the materials used as part of the operation – in this case the LSC anti-corrosion sealants – comply with the applicable VOC content limits. As explained in the [Air Regulations Section](#), the LSC materials comply with these limits.

If your dealership has already submitted such a certification in connection with other non-LSC automobile refinishing operations, then you do not need to submit another certification. If the LSC is the first automobile refinishing operation done at your dealership or you have not previously submitted a certification, please complete the model certification in the [Air Recordkeeping Section](#) and submit it to IDEM. **Note:** You do not need to do this before beginning LSC operations, but you should submit it as soon as possible after you begin.

(Go to Next Page for Step 6)

STEP 6 – KEEP AIR PERMITTING EXEMPTION AND TRAINING RECORDS

IDEM has confirmed that your dealership is exempt from air permitting requirements for the LSC, so long as you conduct it at your dealership and total air emissions from your dealership remain below certain thresholds. In order to demonstrate that your dealership qualifies for this exemption, you must maintain certain records in your files, including information on the number of vehicles done as part of the LSC and training records for all employees conducting the LSC. Go to the Air Recordkeeping Section of the **Federal, State and Local Requirements Guide** for more information and the necessary documentation.

* * * * *

COMPLIANCE NOTE REGARDING REGULATED WASTE: *Waste produced as a result of the LSC operations may qualify as regulated hazardous waste (e.g., excess LSC materials, clean-up rags, etc.). However, the LSC is not expected to impact your dealership's waste generator status (e.g., whether you are a Large Quantity Generator or a Small Quantity Generator Plus of regulated waste) because the quantities of regulated waste generated by the LSC operations should be relatively small assuming that:*

1. ***You store the spray guns properly when they are not in use as described in the Technical Instructions*** (so that the spray guns do not need to be cleaned, which would generate waste); and
2. ***You reuse the LSC tarps (floor coverings) and work area partitions*** (so as to avoid frequent disposal of these items which would generate larger quantities of waste, which may impact your generator status).

If you do these things, then the only regulated waste produced by the LSC would consist of rags used to clean the LSC work area and any excess quantities of the LSC materials; you should handle these items in the same manner as other regulated waste at your dealership. 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).

COMPLIANCE NOTE REGARDING RESPIRATORY PROTECTION: *The Material Safety Data Sheets (MSDSs) for both LSC materials recommend that employees handling these materials should use a NIOSH-approved respirator to control exposures to organic vapor and mist in work areas where ventilation is inadequate. If you have any questions regarding these requirements or how to obtain and use a NIOSH-approved respirator, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) and review the "Respiratory Protection FAQ" or call the EH&S Hotline (877-572-4347).*

* * * * *

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 and occupational health and safety laws and regulations that might apply to non-LSC operations at your dealership. We assume that you already comply with these 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).

Thank you for your participation and cooperation in the 2001-2004 Tacoma Limited Service Campaign.

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

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SITE SELECTION

2001 - 2004 MODEL YEAR TACOMAS

INDIANA DEALER INFORMATION PACKET SITE SELECTION SECTION

Please carefully review the entire Dealer Information Packet – including this Site Selection Section – with your Service and Parts Staff.

As explained in other Sections, the LSC is subject to various legal requirements that impose certain operational limitations on it, including requirements related to the location where it will be conducted. Therefore, careful selection of your LSC work area is important to ensure your compliance with those requirements and to help expedite approval by the State Fire Marshal. **The purpose of this Section is to help you select an LSC work area.**

SITE SELECTION CONSIDERATIONS

1) LSC WORK AREA MUST COMPLY WITH BUILDING, MECHANICAL AND ZONING REQUIREMENTS (e.g., has a certificate of occupancy).

Your LSC work area should be located in an existing building/service area that complies with building/zoning/mechanical requirements. The LSC **may not** take place outdoors.

Note: The information in this package is not intended to cover building, zoning, mechanical or other environmental or occupational health and safety 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.

2) YOUR LSC WORK AREA MUST HAVE ALL OF THE FOLLOWING:

a) Mechanical ventilation that provides a minimum of six air changes per hour;

Consideration should be given to: (1) locations/stalls near bay doors and/or with additional natural ventilation, and (2) where possible, locations at the end of a row of service bays and not in the middle.

*If mechanical ventilation is provided by a fan (either wall mounted or pedestal) located within 20 feet of your LSC work area, the fan **MUST** be an explosion proof fan. If your LSC work area does not have mechanical ventilation and/or you do not already have an explosion proof fan that can be used in the work area, TMS will provide your dealership with one that satisfies the applicable requirements.*

b) Be at least 20 feet from: (1) open flames and/or spark-producing equipment and appliances; (2) any drying, curing, and/or fusion apparatus; and (3) other ignitions sources;

c) The LSC should be the only spraying operation conducted in the LSC work area and it must be located away from pits or other below-ground areas;

d) The LSC work area must have: (1) a suitable lift that allows clear access to the vehicle's frame rails, and (2) a non-combustible floor (e.g., concrete. If the floor is combustible, see footnote 1 below); ¹	e) A Type 1-4-A rated or a 2-2.5 gallon water-type fire extinguisher located within 75 feet of LSC operations (even if the LSC work area has an automatic fire protection system);
f) Compressed air ;	g) Eyewash stations ;
h) Drop lights appropriate for use during the spraying of combustible materials ; and	i) Any other equipment , operational and/or building features required by applicable law or indicated in the Material Safety Data Sheets (MSDSs) for the LSC materials.
<p>3) ALL LSC WORK SHOULD BE CONDUCTED IN A PARTITION ENCLOSURE such as those depicted in the Technical Instructions, which separates the LSC from other vehicles and work areas/stalls.</p> <p><i>To prevent the possible accumulation of combustible vapors, the partition enclosures depicted in the Technical Instructions should have sufficient open space (at least one foot) at the bottom of the partition to allow for ventilation. In certain spraying spaces, such as an end bay space, it may be appropriate to use a partition enclosure with only three sides and to leave the fourth open, thereby increasing ventilation in the work area.</i></p>	
<p style="text-align: center;"><u>OTHER REQUIREMENTS TO CONSIDER</u></p> <p><u>Other Legal Requirements</u></p> <p>The LSC is subject to other federal, state and/or local laws and codes related to air emissions, fire code approval, waste generation and recordkeeping that impose other operational limitations on it. Therefore, in addition to this Section you should carefully review the Technical Instructions and the rest of this Guide (e.g., the <u>Air Regulations</u>, <u>Fire, Building and Zoning</u>, and <u>Regulated Waste Management Sections</u>).</p> <p><u>LSC Material Storage</u></p> <p>You may not store more than 25 gallons of combustible materials (including the LSC materials) in any fire area at your dealership. A "fire area" is any area in your dealership separated from the remainder of the building by construction and openings that have fire resistance ratings of at least one (1) hour.</p> <p><i>You may exceed this 25 gallon limit <u>only</u> if the materials are stored in a fire cabinet. If you are using a fire cabinet you may store up to 120 gallons in any one cabinet and have up to 3 cabinets in any one fire area at your dealership.</i></p>	

¹ If the LSC work area has a non-combustible floor (e.g., concrete), standard thin plastic sheeting may be used for clean up purposes on the floor in the LSC work area.
If the LSC work area has a combustible floor (e.g., wood), it must be covered with fire retardant sheeting (e.g., TRM 'WEATHER-ALL' Flame Retardant Film).

**FEDERAL, STATE &
LOCAL REQUIREMENTS**



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

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

INDIANA DEALER INFORMATION PACKET
FEDERAL, STATE AND LOCAL REQUIREMENTS GUIDE

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

For the Limited Service Campaign (LSC), your dealership will use separate Vaupel HSDR 3300 spray guns to apply two different anti-corrosion sealant materials known as "NOX-RUST® X128T" and "NOX-RUST® 712AM", 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 QUALITY UNDER INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) REGULATIONS; AND
- SPRAYING & STORAGE OF COMBUSTIBLE LIQUIDS UNDER STATE AND LOCAL BUILDING, ZONING AND FIRE CODES.

This **Guide** reviews these requirements and provides forms and other compliance materials. It has been organized with separate sections labeled by topic so that you can easily review the information now and also later find the information later should questions arise. **To assist with your review, important pages/documents have been marked with a red line on the edge of the page.**

1. "AIR REGULATIONS" SECTION

- (a) The Air Regulations Section reviews the federal and state laws that will regulate air emissions from the LSC at your dealership.
- (b) TMS has obtained a determination from IDEM that LSC activities conducted at your dealership do not require an air permit based on an understanding that your dealership's VOC and PM emissions (including the LSC and existing operations) will be less than 5 tons per year each at dealerships in

Porter and Lake Counties, and less than 20 tons per year each at dealerships outside Porter and Lake Counties.

- (c) You should review the Air Regulations Section carefully to make sure that you can comply with these requirements. 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. If you do not think you can comply with these limits 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 or call the EH&S Hotline at (877-572-4347) for more information and support.
- (d) Additional Requirements - Training: All employees at your dealership that will be conducting the LSC must be trained in the proper use, handling and storage of the LSC materials and equipment. Your dealership must document that such training occurred. See the Air Regulations Section for more information.

2. “AIR RECORDKEEPING” SECTION

- (a) The Air Recordkeeping Section contains the documents that your dealership should retain regarding the air emissions from the LSC. ***You must keep these records to demonstrate that your dealership can conduct the LSC and stay exempt from air licensing, and to demonstrate your dealership's compliance with the applicable personnel training requirements.***
- (b) As explained in the Air Regulations Section, ***you should maintain these documents in accordance with your dealership's recordkeeping practices, or for five (5) years after completion of the LSC, whichever is longer.***
- (c) Automobile Refinishing Certification Requirement: Indiana air regulations require that the owner or operator of automobile refinishing operations, like the LSC, certify that materials used in those operations comply with specific VOC content limits. The LSC sealant materials comply with these limits. If your dealership already does automobile refinishing, you may have already submitted such a certification, in which case you do not need to submit another certification. If you have not submitted a certification, use the model letter in the Air Recordkeeping Section. You do not need to submit the certification before starting the LSC, but should do so as soon as possible after you begin.

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

- (a) The Fire, Building and Zoning Codes Section reviews the applicable 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 ensure that your dealership can conduct the LSC in compliance with these codes.
- (b) **IMPORTANT:** As explained in the Fire, Building and Zoning Codes Section, TMS has already communicated with the State Fire Marshal regarding the implementation of the LSC in Indiana and you do not need to contact your local fire official. However, before you can start the LSC you must receive a written approval from the State Fire Marshal’s Office. To obtain such an approval, after you have setup your LSC work area, go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) and indicate that your LSC work area is ready to go, at which time TMS will notify the State Fire Marshal that your dealership is ready to proceed. Shortly thereafter you should receive a letter from the State Fire Marshal’s office authorizing you to proceed with the LSC. (Note: Your dealership may be inspected prior to receiving this letter). You MAY BEGIN THE LSC ONLY AFTER you receive a letter from State Fire Marshal authorizing your dealership to proceed with the LSC. Go to the Fire, Building and Zoning Codes Section for more information.
- (c) 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 (see page 57) 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 to regulated hazardous wastes generated by your dealership generally. If you are already familiar with these requirements you can skip this section.
- (b) Waste produced as a result of the LSC operations may qualify as regulated hazardous waste (e.g., excess LSC materials, clean up rags, etc.). However, the LSC is not expected to impact your dealership’s waste generator status (e.g., whether you are a Large Quantity Generator or a Small Quantity Generator Plus of regulated waste) because the quantities of regulated waste generated by the LSC operations should be relatively small assuming that::

- 1) **You store the spray guns properly when they are not in use as described in the Technical Instructions** (so that the spray guns do not need to be cleaned, which would generate waste); and
 - 2) **You reuse the LSC tarps (floor coverings) and work area partitions** (so as to avoid frequent disposal of these items which would generate larger quantities of waste, which may impact your generator status).
- (c) If you do the two items above, then the only regulated waste produced by the LSC would consist of rags used to clean the LSC work area and any excess quantities of the LSC materials. These materials should be handled in the same manner as other regulated waste at your dealership.
- (d) 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).

* * * * *

This **Federal, State and Local Requirements Guide** is not intended to cover air, waste management, hazardous material, water or other environmental or occupational health and safety 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).

AIR REGULATIONS

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

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

I. AIR PERMITTING REQUIREMENTS: ARE YOU EXEMPT?

The LSC activities result in emissions of 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 intending 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 an offsite body shop) must be combined with the dealership's emissions to make this air permitting determination.

Toyota Motor Sales, U.S.A., Inc. has contacted the Indiana Department of Environmental Management (IDEM) and explained the LSC and its air emissions. Based on this information, on July 8, 2009, IDEM issued a formal determination that **the LSC does not require a permit if it is conducted at Toyota's Indiana dealerships and the LSC air emissions do not exceed the limits discussed in this Guide.** (A copy of IDEM's determination can be found in the Air Recordkeeping Section of this **Guide**). Therefore, we assume that your dealership is currently exempt from air permitting requirements, and will be able to conduct the LSC and stay exempt from air permitting requirements **IF you satisfy criteria A, B and C** below.

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).

IMPORTANT – PLEASE READ

YOUR DEALERSHIP SHOULD NOT NEED AN AIR PERMIT IF:

A. DEALERS LOCATED IN LAKE OR PORTER COUNTIES: You keep emissions of VOCs and PM below 5 tons per year (TPY) each.

You should be able to conduct the LSC and comply with this limit if you do not use more than 1,400 gallons of non-LSC VOC-containing coatings, paints and solvents per year.

DEALERS LOCATED ELSEWHERE IN THE STATE: You keep emissions of VOCs and PM below 20 tons per year (TPY) each.

You should be able to conduct the LSC and comply with this limit if you do not use more than 5,700 gallons of non-LSC VOC-containing coatings, paints and solvents per year.

Note: Dealers in Evansville, IN must also comply with the Certificate of Operation issued by the Evansville Environmental Protection Agency for the LSC. Instructions for complying with these requirements will be provided to your dealership separately.

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

Why Does It Matter Whether I Have A Body Shop? Air emissions from your entire dealership (including an onsite or offsite body shop) must be combined to determine if your air emissions are above air permitting levels. 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. Because body shops typically have higher air emissions than a regular vehicle service area and use more VOC-containing materials further analysis may be needed to be certain that your dealership complies with the permitting limits noted in A above (in particular at dealers in Porter and Lake Counties which have lower permitting thresholds).

If your dealership has a large onsite or offsite body shop such that you cannot comply with the limits identified in A above, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) to discuss whether you can conduct the LSC and remain exempt from air permitting.

C. YOUR DEALERSHIP WILL CONDUCT THE LSC IN AN EXISTING AREA AT YOUR DEALERSHIP.

Do I Have To Conduct The LSC In An Existing Area At My Dealership? 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. Please contact 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.

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

- a) Generally, new air pollutant sources in Indiana, even minor sources, are required to obtain an air permit prior to their construction, unless an exemption applies and IDEM determines that an air permit is not required.
- b) TMS has obtained a determination from IDEM confirming that no permit is required for LSC operations at your dealership. A copy of this determination has been included in the Air Recordkeeping Section of this **Guide**. IDEM's determination is based on an understanding that:
 - 1) The LSC will be conducted at your dealership, not an off-site location;
 - 2) You do not currently have an air emission permit; and
 - 3) Air emissions from your dealership (including the LSC and existing operations) do not exceed certain allowable levels that vary depending on the county in which you are located.
 - (i) **Dealers in Porter and Lake Counties** may only emit up to 5 tons per year of VOCs and 5 tons per year of particulate matter (PM) from all activities (including the LSC and existing activities) in order to remain exempt from permitting requirements.
 - (ii) **Dealers in the rest of Indiana** may only emit up to 20 tons per year of VOCs and 20 tons per year of PM from all activities (including the LSC and existing activities) in order to remain exempt from permitting requirements.
- c) Based on typical dealership operations, TMS does not anticipate that the LSC, when added to other air emission-causing activity at your dealership, will cause your dealership to exceed the VOC or PM emission limits noted above. However, it is possible that other existing or future emission sources at your

dealership, when added to the LSC, could result in emissions greater than 5 tons per year of VOC or PM (Porter and Lake County dealers) or 20 tons per year of VOC or PM (dealers outside Porter and Lake Counties). Therefore, you should verify that your actual emissions of VOCs and PM from the LSC and other activities do not exceed these limits.

VOC Emissions

- 1) **Dealers in Porter and Lake Counties:** The LSC's VOC emissions are expected to be at most 0.6 tpy at your dealerships; therefore, you can implement the LSC and stay below the 5 tpy limit as long as you keep your non-LSC usage of VOC containing materials at or below 1,400 gallons per year.
- 2) **Dealers outside Porter and Lake Counties:** The LSC's VOC emissions are expected to be at most 2.8 tpy at your dealerships; therefore, you can implement the LSC and stay below the 20 tpy limit as long as you keep your non-LSC usage of VOC containing materials at or below 5,700 gallons per year.

PM Emissions

- 1) **Dealers in Porter and Lake Counties:** The LSC's PM emissions are expected to be at most 0.02 tpy at your dealerships; therefore, you can implement the LSC and stay below the 5 tpy limit so long as your PM emissions from non-LSC sources remain below 4.98 tons per year. It is not anticipated that any dealership will approach this PM limit.
 - 2) **Dealers outside Porter and Lake Counties:** The LSC's PM emissions are expected to be at most 0.26 tpy at your dealerships; therefore, you can implement the LSC and stay below the 20 tpy limit so long as your PM emissions from non-LSC sources remain below 19.74 tpy. It is not anticipated that any dealership will approach this PM limit.
 - 3) Based on these estimates, it is expected that all Indiana dealers will meet the applicable PM emission limits.
- d) **If you think your dealership CANNOT meet the applicable VOC and PM emission limits noted above, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).**

III. TRAINING REQUIREMENTS: YOUR TRAINING AND RELATED RECORDKEEPING OBLIGATIONS

- a) Under Indiana's air regulations, the LSC is subject to certain training requirements that require all employees conducting the LSC to be trained in the proper use, handling and storage of the LSC materials and equipment.
- b) You can comply with these training requirements by having those employees review, and confirm that they understand, this **Guide** and the **Technical Instructions**. Additionally, IDEM requires you to keep a log demonstrating that such training has occurred (the Air Recordkeeping Section contains a log that you can use for such purposes).
- c) After conducting the initial training prior to starting your LSC operations, all employees conducting the LSC must receive refresher training each calendar year prior to May 1 of that year. Like the initial training, you should document such refresher training using the log provided in the Air Recordkeeping Section.
- d) If you think your dealership cannot meet this training requirement, please call the EH&S Hotline (877-572-4347).

IV. HOUSEKEEPING REQUIREMENTS

- a) Under Indiana's air regulations, the LSC operations at your dealership are subject to certain housekeeping requirements, which require:
 - 1) All paper, cloth, plastic or other materials contaminated with the LSC materials to be stored in closed containers until disposed of offsite (containers must remain closed unless being filled or emptied); and
 - 2) All solvents, coatings, waste LSC materials, or other VOC-containing materials or waste materials must be stored in closed containers, except when the containers are being emptied or filled; and
 - 3) All material storage containers and equipment must be free from cracks, holes and leaks; and
 - 4) Facility and equipment cleanup shall be performed in a manner that minimizes solvent use (Note: Remember that the LSC spray guns do not need to be cleaned with solvents).
- b) If you have questions about 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).

V. AIR RECORDKEEPING REQUIREMENTS

- a) The Air Recordkeeping Section contains the documents, logs and other materials that you can use to support IDEM's determination that the LSC is exempt from air permitting requirements and demonstrate that your dealership is exempt from air permitting requirements, in the event any questions are raised. These records must be kept in accordance with your dealership's recordkeeping practices, or for five (5) years after completion of the LSC, whichever is longer.
- b) In addition, Indiana regulations require owners or operators of automobile refinishing operations to submit to IDEM a statement certifying that all coatings or surface preparation products used at the facility meet applicable state VOC content limits. The two sealants used in the LSC have VOC contents of 3.5 lbs/gal (NOX-RUST® X128T - external) and 0.165 lbs/gal (NOX-RUST® 712AM - internal). (See the LSC Process Overview in the Air Recordkeeping Section). The VOC content of the LSC materials are below the applicable limit of 4.6 lbs/gal.
 - 1) If your dealership already has automobile refinishing operations, you may have already submitted the required certification and you do not need to submit another certification.
 - 2) If your dealership does not have other automobile refinishing operations or has not previously submitted a certification, please use the model letter in the Air Recordkeeping Section. ***By submitting this letter you are certifying that the VOC-containing materials in use at your dealership for automobile refinishing meet the applicable VOC content limits (as noted above, the LSC materials meet these limits).***
 - 3) If you have questions about this requirement, or believe that other VOC-containing materials in use at your dealership for non-LSC automobile refinishing operations do not meet the applicable VOC limits, please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

**AIR
RECORDKEEPING**

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

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

IMPORTANT: Please maintain these documents in accordance with your dealership's recordkeeping practices, or for 5 years after completion of the LSC, whichever is longer.

Your dealership must maintain the documents and records listed below to comply with applicable record retention and availability requirements required by the Indiana Department of Environmental Management (IDEM) to support its determination that the LSC is exempt from permitting requirements. You must maintain the following records in accordance with your dealership's recordkeeping practices, or for five (5) years after completion of the LSC, whichever is longer:

- (i) An LSC production log tracking the number of trucks you process per day and your daily emissions (use the attached "LSC Emissions & Material Usage Tracking Log"); and
- (ii) Records verifying that all employees performing the LSC have completed the applicable training requirements (use the attached "LSC 90D – Personnel Training Log"); and
- (iii) Model Automobile Refinishing Certification Letter; and
- (iv) A Brief Written Overview of the LSC Process (see attached); and
- (v) The July 8, 2009 letter from IDEM confirming that LSC operations at Toyota's Indiana Dealerships do not require a permit; and
- (vi) A document providing LSC Equipment Manufacturer's Specifications; and
- (vii) Material Safety Data Sheets for the LSC materials (NOTE: These should also be maintained with your other MSDSs, in compliance with OSHA requirements).

Notes:

- I. With the exception of the Certification letter (iii), you do not need to send these records to IDEM. You should simply keep these documents in your files. You may need to provide them if requested by a government agency.
- II. Item (i) should be completed on a daily basis.
- III. Item (ii) should be completed before you start the LSC, or before a new employee starts conducting the process.

- IV. You do not need to do anything with (iv) through (vii) above, except keep them in your files for the period noted above.
- V. Indiana air regulations require that the owner or operator of a facility performing automobile refinishing operations, like the LSC, certify that the materials used in the operations meet applicable VOC content limits. The sealants used in the LSC comply with all applicable limits, so LSC participating dealers who have not already submitted such a certification need only complete and sign the certification letter provided in item (iii) of this Section. **Note:** If your dealership does other automobile refinishing and you have already submitted a certification, you do not need to submit another one. You should keep a copy of the completed certification letter in your records.
- VI. Electronic versions of the recordkeeping logs are available on the C.L.E.A.N. Dealer website (<http://cleandealer.com>).

Instructions for Completing the LSC Emissions and Material Usage Tracking Log

Follow these three steps to complete the Emissions Tracking Log (see example below).

Step 1:

Enter "Reporting Month" and "Dealership Name" at top of log.

Step 2:

Enter the date and the number of trucks that you serviced with LSC materials on that date.

Step 3:

Calculate your daily emissions from the LSC. To do so, use the Emissions Estimator (next page) to insert your daily VOC and PM emissions based on the number of trucks serviced under the LSC.

Date	Number of Trucks Processed	Daily Emissions (lbs/day) – Use the Emissions Estimator to determine the amount of emissions for each compound below		X128T Material Used (L)	712AM Material Used (L)
		VOC	PM		
	3	8.58	0.80	9	6
	5	14.30	1.34	15	10
	2	5.72	0.53	6	4
	3	8.58	0.80	9	6
	2	5.72	0.53	6	4
	1	2.86	0.27	3	2

Total Number of Trucks Processed		Total VOC Emissions (lbs)	Total PM Emissions (lbs)	Total Quantity of LSC Materials Used (L)	
	16	45.76	4.27	48	32

Step 5:

Sum the total number of trucks processed, emissions and material usage on a monthly basis. To do so, sum the number of vehicles processed, VOC and PM emissions, and material usage for each month by adding up all of the entries in the appropriate column for that month.

Step 4:

Enter the total volume of each LSC material used. To do so, multiply the number of trucks processed each by the amount in each kit of X128T (3 liters) and 712AM (2 liters) and enter the resultant number in the appropriate columns above.

NOTE: An electronic version of this log is available on the C.L.E.A.N. Dealer website (<http://cleandealer.com>).

IMPORTANT – PLEASE READ

EMISSIONS ESTIMATOR

Emissions Values in lbs/day Based on the Number of Trucks Processed

Number of Trucks Processed In a Day	Amount of Emissions (lbs/day)	
	VOC	PM
1	2.86	0.27
2	5.72	0.53
3	8.58	0.80
4	11.44	1.07
5	14.30	1.34
6	17.15	1.60
7	20.01	1.87
8	22.87	2.14
9	25.73	2.40
10	28.59	2.67
11	31.45	2.94
12	34.31	3.20

IMPORTANT – PLEASE READ

DUPLICATE AS NECESSARY

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Indiana Dealer Package

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Date	Number of Trucks Processed	Daily Emissions (lbs/day) – Use the Emissions Estimator to determine the amount of emissions for each compound below		X128T Material Used (L)	712AM Material Used (L)
		VOC	PM		
<u>Total Number of Trucks Processed</u>		<u>Total VOC Emissions (lbs)</u>	<u>Total PM Emissions (lbs)</u>	<u>Total Quantity of LSC Materials Used (L)</u>	

DUPLICATE AS NECESSARY

LSC 90D – Personnel Training Log

Reporting Year: _____ Dealership Name and Location: _____

Instructions: Dealerships should use this log to confirm that the employees conducting the LSC have been properly trained. Maintain this log, **along with a complete copy of the Indiana Dealer Information Packet**, in accordance with your dealership's recordkeeping practices, or for five (5) years after completion of the LSC, whichever is longer.

The undersigned have reviewed all of the Toyota Tacoma Limited Service Campaign materials for Indiana, including the **Getting Started Guide**, the **Federal, State and Local Requirements Guide**, and the **Technical Instructions**, and understand the proper use, handling and operation of the LSC materials and equipment.

Employee Names

Date Trained

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Signature of Dealer Principal:

Date:

Address & Contact Information for Dealer Principal:

DUPLICATE AS NECESSARY

Indiana Dealer Package

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Model Automobile Refinishing Certification Letter

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Instructions for Completing Automobile Refinishing Operations Notification

Indiana air regulations require that the owner or operator of a facility performing automobile refinishing operations, like the LSC, certify that the materials used in the operations meet applicable VOC content limits. The sealants used in the LSC comply with all applicable limits, so dealers participating in the LSC who have not already submitted such a certification need only complete and sign the model certification letter provided in this Section. If your dealership does other automobile refinishing and you have already submitted a certification, you do not need to submit another one for the LSC.

1. Put the model letter on your dealership's letterhead;
2. Insert your Dealership's name where indicated;
3. Date and Sign the Letter (Note: The letter should be signed by the Dealership Manager).
4. Make a copy of the letter and attachments for your records before submitting it to the Indiana Department of Environmental Management.
5. Send the completed letter to:

Office of Air Quality
Indiana Department of Environmental Management
Indiana Government Center-North
100 North Senate Avenue, Room 100
Indianapolis, IN 46204

With a copy to:

Daniel Murray
Assistant Commissioner, Office of Air Quality
Indiana Department of Environmental Management
Indiana Government Center-North
100 North Senate Avenue, Room 100
Indianapolis, IN 46204

6. If you have questions about the VOC limits or the certification requirement, 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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[DEALER LETTERHEAD]

Office of Air Quality
Indiana Department of Environmental Management
Indiana Government Center-North
100 North Senate Avenue, Room 100
Indianapolis, IN 46204

[DATE]

Re: Certification that Coating and Surface Preparation Products used in Automobile
Refinishing Meet VOC Limits

Dear Sir or Madam:

As you know, Toyota is implementing a limited service campaign ("LSC") for certain Toyota vehicles. Toyota has asked our dealership to take part in this program. The LSC will involve the spray application of two sealants to the frame rails on the underside of these vehicles. The application of these materials has been determined to constitute "Automobile Refinishing" subject to the requirements of Chapter 326, Article 8, Rule 10 of the Indiana Administrative Code (IAC). The purpose of this letter is to comply with the certification requirement for Automobile Refinishing facilities found at 326 IAC 8-10-6(c).

Consistent with the compliance procedures found at 326 IAC 8-10-6(c), **[NAME OF DEALERSHIP]** hereby certifies that it has acquired and will continuously employ coatings and surface preparation products meeting the volatile organic compound (VOC) limits of 326 IAC 8-10-4(c). With respect to the LSC, the external and internal anti-corrosion sealants that are being applied have VOC contents of 3.5 lbs/gal and 0.165 lbs/gal, respectively, and therefore meet the applicable VOC content limit for a "primer sealer" of 4.6 lbs/gal specified at 326 IAC 8-10-4(c). In addition, to the extent we use other coatings or surface preparation products in automobile refinishing at our dealership, all of those products meet the relevant VOC content limits specified at 326 IAC 8-10-4(c).

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.

Sincerely,

[RESPONSIBLE OFFICIAL (I.E., DEALER/MANAGER)]

[DEALERSHIP]

cc: Daniel Murray

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LSC PROCESS OVERVIEW:

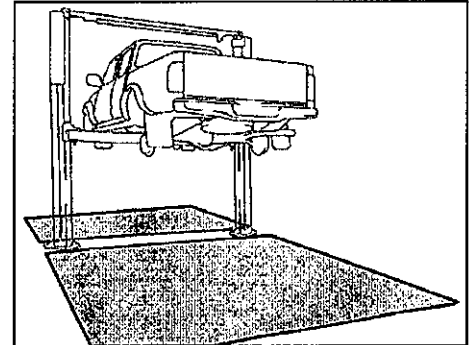
All LSC activities will occur indoors at existing dealership service areas that comply with fire, zoning and building codes. The LSC will not require physical alterations to service areas and will consist of the two primary steps discussed below.

Step 1: Vehicle Preparation. Dealers will employ the following procedures to prepare their service areas and vehicles for spraying.

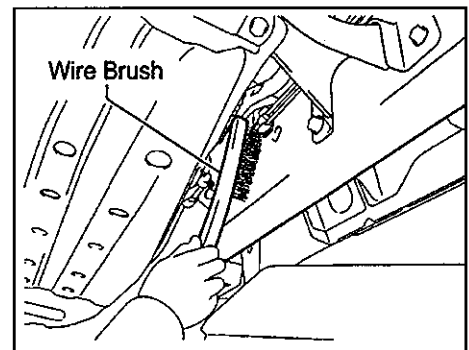
Initial setup of workspace. Locate dedicated work area in dealership's garage with a vehicle lift that has mechanical ventilation capable of providing a minimum of six air changes per hour in the LSC work area, is away from other vehicles, and can be sectioned off with temporary partitions. If a dealer's LSC work area does not have adequate mechanical ventilation, an explosion proof fan (provided by TMS as necessary) will be placed in the LSC work area that ventilates to an open bay or man door. No other physical alteration of the workspace or installation of new equipment is required for the LSC.

- **Place vehicle on lift.** Raise the vehicle using the vehicle lift; remove certain vehicle components (e.g., rear and spare tires); mask areas not to be sprayed.
- **Work area setup.** Place tarp beneath vehicle and set up temporary partitions around vehicle (and fan, if applicable). Tarps are intended to capture limited overspray and to facilitate clean-up.
- **Clean frame.** Manually remove rust from frame using scraper, brush, and/or compressed air (steam clean if necessary). No chemicals or solvents will be used to clean the frames.

Truck on lift



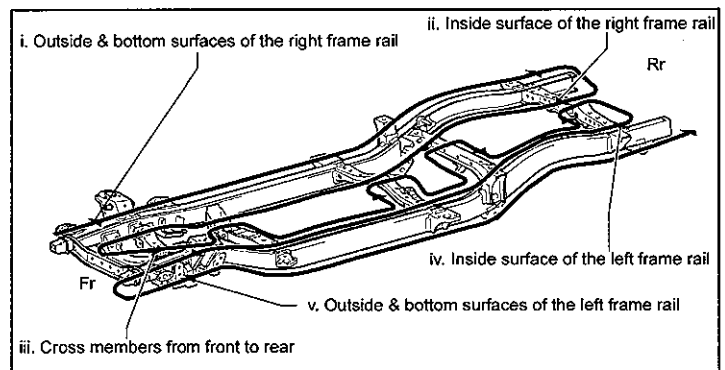
Frame being cleaned



Step 2: Material Application. Dealers will apply the LSC anti-corrosion materials as follows:

- **Apply 712AM.** Set up Vaupel spray gun and insert spray nozzle a specified distance into selected holes in the frame. Press spray gun trigger and pull out nozzle at fixed speed while spraying interior surface of frame. Refill spray gun with 712AM as needed until all two liters of material have been applied.
- **Apply X128T.** Set up spray gun and locate spray nozzle a specified distance from frame surface. Press spray gun trigger and spray X128T on external surface of frame by moving spray nozzle at fixed speed across frame. Refill spray gun with X128T as needed until all three liters of material are used.

External frame surfaces where X128T is applied



- *Final steps.* Reinstall components of vehicle, remove truck from lift, and spray X128T on areas of frame previously covered by lift. Allow 712AM and X128T to cure before returning vehicle to customer. Comply with any recordkeeping and material handling requirements.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

Daniel E. Monette
Toyota Motor Sales, U.S. A., Inc.
19001 South Western Avenue
Torrance, CA 90501

July 8, 2009

Re: Exempt Construction and Operation Status
Toyota Limited Service Campaign

Dear Mr. Monette:

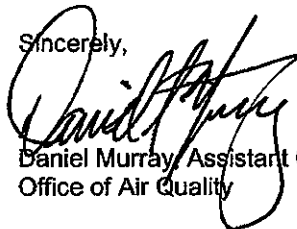
Thank you for meeting with us on June 18, 2009 to discuss the Toyota Limited Service Campaign (LSC). Based upon the information and data provided to IDEM, OAQ and the provisions in 326 IAC 2-1.1-3, it has been determined that the activities surrounding the Limited Service Campaign ("LSC"), as outlined in the letter dated June 10, 2009, submitted to IDEM on behalf of Toyota Motor Sales, U.S.A., Inc. ("TMS"), would be considered exempt from air pollution permit requirements. This exemption applies to all LSC activities in the State of Indiana.

The following conditions shall be applicable:

1. 326 IAC 6-3-2(d) (Particulate emission limitations, work practices, and control technologies) - Based on information provided as part of this exemption request, IDEM has determined that given the high transfer efficiency of the Vaupel HSDR 3300 spray gun, in combination with the high solids and high viscosity of the anti-corrosion sealants (X128T and 712AM) being applied inside a partition area will satisfy the requirements of this rule. Toyota dealers implementing the LSC should maintain and operate the spray guns according to the manufacturer's recommendations and within the parameters established by the manufacturer for setup and operations. If accumulation of overspray is observed on the ground outside the work area then the dealer should install additional overspray controls or implement additional IDEM-approved control measures.
2. 326 IAC 8-10 (Automobile Refinishing) - Rule 326 IAC 8-10 applies to Automobile Refinishing in Clark, Floyd, Lake, or Porter Counties with some exemptions. Section 5(b)(3) of the rule states, "Any other coating application equipment that has been demonstrated, by the owner or operator, to the satisfaction of the department to be capable of achieving at least sixty-five percent (65%) transfer efficiency. The owner or operator must submit sufficient data for the department to be able to determine the accuracy of the transfer efficiency claims". Based on a review of the information submitted as part of this exemption request, and the relevant portions of the South Coast Air Quality Management District determination related to the Vaupel HSDR 3300 spray gun, these guns are approved under 326 IAC 8-10-5(b)(3) for affected sources in Indiana. Toyota dealers implementing the LSC shall operate these guns in accordance with manufacturer's specifications and within the parameters established by the manufacturer for setup and operations.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if a Toyota dealer implementing the LSC proposes to construct additional emission units, modify existing emission units, or otherwise alter the conditions or parameters of the project in a way that requires application or notification under the applicable rules. If you have any questions on this matter, please contact Matthew Stuckey, OAQ Permits Branch Chief, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, at 317-233-0203 or at 800-451-6027 (ext 3-0203).

Sincerely,



Daniel Murray, Assistant Commissioner
Office of Air Quality

cc: Compliance and Enforcement Branch

Barnes & Thornburg, LLC
c/o Anthony C. Sullivan
11 S. Meridian Street
Indianapolis, IN 46204-3535

OPERATING INSTRUCTIONS

Page 1 of 1

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.

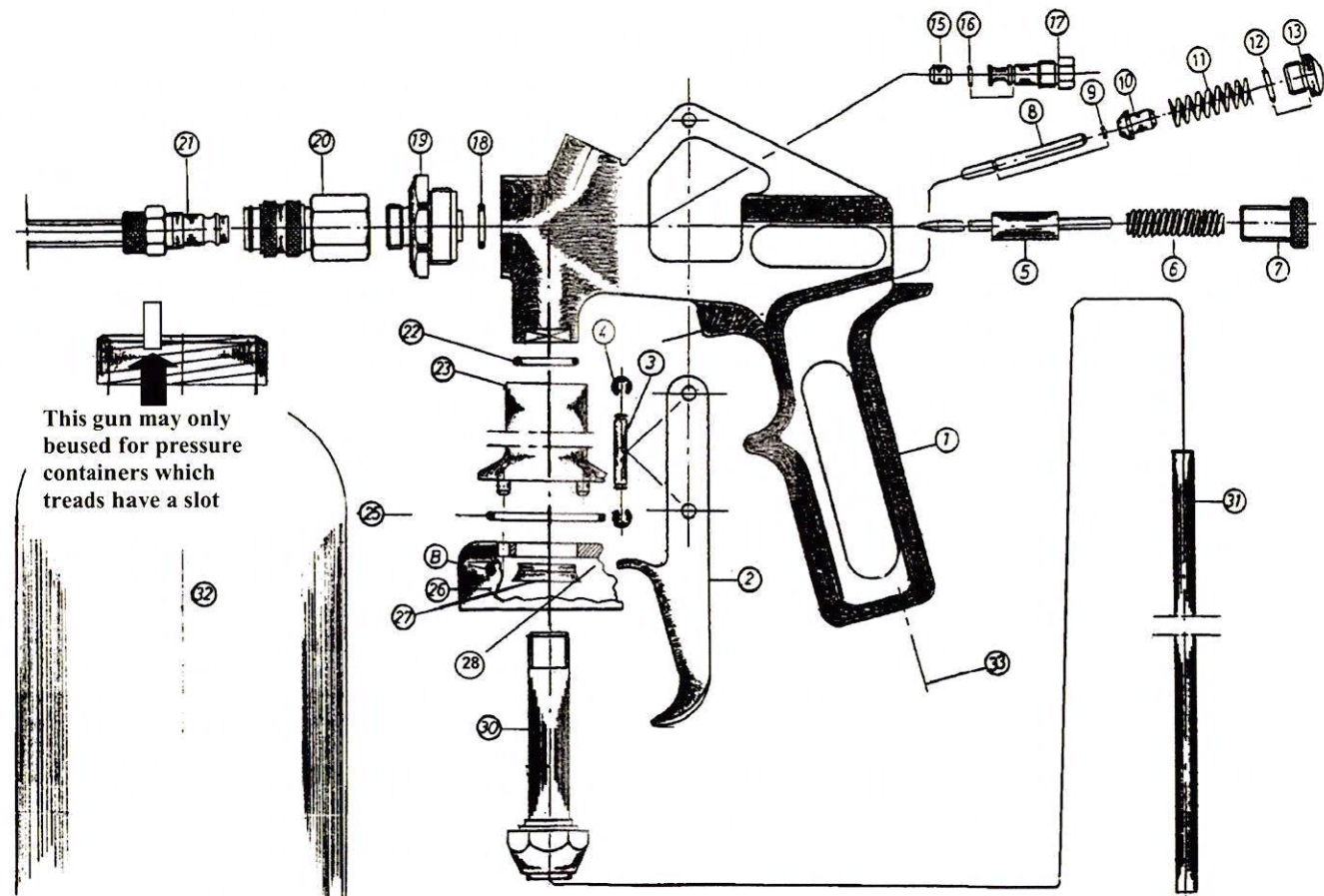
Environmental Protection

- 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/TPO 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:

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

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.

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.

**FIRE, BUILDING
& ZONING**

12-2-1

2001 - 2004 MODEL YEAR TACOMAS

INDIANA 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 an existing area at your dealership. If you plan to conduct the LSC elsewhere, please discontinue reading this Section and go to the C.L.E.A.N. Dealer website at <http://cleandealer.com> and select the LSC-90D link or 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. **Receive a letter from the State Fire Marshal's Office authorizing you to proceed with the LSC.**

For your records, Appendix A includes a Determination of Compliance with the Indiana Fire & Building Safety Code prepared by Commercial Construction Consulting, Inc. ("C3"), a professional consulting firm retained by TMS. TMS has already given this Determination to the Indiana State Fire Marshal who concurred with it. However, prior to starting the LSC at your dealership, you must receive written authorization from the State Fire Marshal to proceed.

To obtain this approval you must set up your LSC work area as described in the Site Selection Section and the **Technical Instructions**. Once your LSC work area is set up, you should go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) and indicate that your LSC work area is ready to go, at which time TMS will notify the State Fire Marshal that your dealership is ready to proceed. Shortly thereafter, you should receive a letter from the State Fire Marshal's office authorizing you to proceed with the LSC. (Note: Prior to receiving this letter your dealership may be inspected by the State Fire Marshal's Office). You should keep a copy of the State Fire Marshal's letter, along with the other materials in this section, in your files as proof that the LSC complies with fire code requirements.

You MAY BEGIN THE LSC ONLY AFTER your receive a letter from State Fire Marshal authorizing your dealership to proceed with the LSC.

Important: The State Fire Marshal may inspect your LSC work area prior to or after issuing a letter to your dealership authorizing you to proceed with the LSC. While the LSC is designed to comply with fire code requirements, as a result of the inspections, the Fire Marshal may impose additional requirements or modifications on your dealership based on unique circumstances at your dealership. If this occurs, please work with the Fire Marshal to identify and remediate any concerns. Please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347) for additional assistance.

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 57) to see whether it has any additional building or zoning requirements applicable to the LSC and contract your local officials as indicated.

I. SUMMARY OF APPLICABLE STATE REQUIREMENTS

A. Fire Code²

1. The LSC does not require a statewide fire permit under the state fire code. However, before you start the LSC, the State Fire Marshal has to issue your dealer written authorization to proceed with the LSC (see instructions below).

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

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 limited 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. The LSC work area must have positive mechanical ventilation providing a minimum of six air changes per hour in the service bay where the LSC will be conducted (if this requirement is met by a fan that is located within 20 feet of the LSC work area, the fan must be explosion proof. If you do not have an explosion proof fan TMS will provide you with one); **and**
 - d. No open flames or spark-producing equipment or appliances are permitted within 20 ft of the LSC operations; **and**
 - e. No drying, curing, or fusion apparatus is permitted within 20 ft of the LSC operations; **and**
 - f. 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 – satisfy this requirement); **and**

² Indiana has adopted both the International Code Council's International Fire Code (2006 ed.) and the National Fire Protection Association's NFPA 33 (2003 ed.) governing the spray application of flammable and combustible materials.

- g. No solvents with a flash point less than 37.8°C (100°F); **and**

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 classified as combustible;³ 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.**
 - o A single fire cabinet may hold up to 120 gallons.
 - o Your dealership may only have up to three 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.
4. **BEFORE YOU CAN PROCEED WITH THE LSC, YOU MUST RECEIVE A LETTER FROM THE STATE FIRE MARSHAL'S OFFICE AUTHORIZING YOU TO PROCEED WITH THE LSC. TO OBTAIN SUCH APPROVAL YOU MUST:**
- a. SET UP YOUR LSC WORK AREA AS DESCRIBED IN THE SITE SELECTION SECTION, AND
 - b. NOTIFY THE C.L.E.A.N. DEALER WEBSITE OR EH&S HOTLINE THAT YOUR LSC WORK AREA IS READY TO GO,

After these steps are complete, TMS will notify the State Fire Marshal that your dealership is ready to proceed. Shortly thereafter, you should receive a letter from the State Fire Marshal's office authorizing you to proceed with the LSC. Prior to (or after) receiving this letter, your

³ As defined by NFPA 1 adopted by Indiana. The Nox-Rust® 712AM is a Class IIIB combustible (Flash point >392°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.

dealership may be inspected by the State Fire Marshal's Office. **You MAY BEGIN THE LSC ONLY AFTER** the State Fire Marshal sends you a letter authorizing you to proceed with the LSC.

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.

B. Building Code⁴

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.)⁵

Regulatory Note: It is assumed your dealership:

- (i) Complies already with building code requirements (for example, it is assumed that your dealership has a valid certificate of occupancy, meets the requirements for fire protection specified for repair garages meets the mechanical ventilation requirements specified for repair garages); and
- (ii) Does not require 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).

⁴ Indiana has adopted the following codes: International Building Code (2006); the Fire/Life Safety Code (NFPA 101 2006) and the National Electric Code (NFPA 70* 2008). Indiana's building code replaces references to the International Mechanical Code with the Uniform Fire Code (NFPA 1, 2006) (*Code does not contain requirements applicable to LSC).

⁵ 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 57), PLEASE GO TO THE C.L.E.A.N. DEALER WEBSITE AT ([HTTP://CLEANDEALER.COM](http://CLEANDEALER.COM)) OR CALL THE EH&S HOTLINE (866-356-1735).** The sections below briefly review these requirements.

IMPORTANT REMINDER: You must receive a letter from the State Fire Marshal authorizing your dealership to proceed with the LSC BEFORE you start spraying. Follow the instructions above for obtaining such an approval.

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), please go to the C.L.E.A.N. Dealer website (<http://cleandealer.com>) or call the EH&S Hotline (877-572-4347).

TABLE 1: LOCAL REQUIREMENTS SUMMARY FOR INDIANA LOCATIONS

Location	Local Fire Code Official and Fire Code Jurisdiction	Other Local Requirements
Indiana (State)	Indiana State Fire Code = Combination IFC/NFPA Jurisdiction	
Anderson- ED MARTIN TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area.	<p>You should verify that the location where you will conduct the LSC is not located in a Special Flood Hazard Area or additional requirements/restrictions may apply.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Tim Stires, Deputy Director Zoning Department 120 E. 8th Street, 1st Floor 765-648-6168</p>
Avon- ANDY MOHR TOYOTA, INC.	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area.	<p>You should verify that the location where you will conduct the LSC is not located in a Special Flood Hazard Area or you may be subject to additional chemical storage requirements.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Al Salzman Director of Planning and Building 6750 East US Highway 36 Avon, IN 46123 317-272-0948</p>

Location	Local Fire Code Official and Fire Code Jurisdiction	Other Local Requirements
Bloomington – ROYAL SOUTH TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area.	<p>You should verify that the location where you will conduct the LSC is not located in a Floodway or Floodway Fringe Development Zone or certain conditional use standards may be required.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under its zoning permit.</p> <p>Contact</p> <p>Zoning Enforcement 401 N Morton St, Ste 160 Bloomington IN 47404 812-349-3423</p>
Burns Harbor – LAKESHORE TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area.	<p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>William Arney Building Commissioner 310 Navajo Trail Burns Harbor, IN 46304 219-787-9187</p>
Chesterton – LAKESHORE TOYOTA	See Burns Harbor.	Based on a jurisdiction review, the Lakeshore Toyota dealership is located outside city limits, in Burns Harbor.
Clarksville – JEFF WYLER TOYOTA OF CLARKSVILLE	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area.	<p>You should verify that the location where you will conduct the LSC is not located in a Special Flood Hazard Zone or certain permitting and storage requirements may apply.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Planning & Zoning 2000 Broadway Clarksville, IN 47129 (812) 288-7155</p>

Location	Local Fire Code Official and Fire Code Jurisdiction	Other Local Requirements
Delaware County – TOYOTA OF MUNCIE	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area.	<p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Delaware County Zoning Administration Delaware County Building 100 W. Main Muncie, IN 47305 765-747-7799</p>
Elkhart – HEART CITY TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area.	<p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Susan Reynolds, Zoning Administrator Planning and Zoning Department Municipal Building - First Floor 229 S. Second Elkhart IN 46516 574-294-5471 ext. 127</p>

Location	Local Fire Code Official and Fire Code Jurisdiction	Other Local Requirements
Evansville – KENNY KENT TOYOTA	<p>For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area.</p>	<p>TMS HAS WORKED WITH YOUR DEALERSHIP TO OBTAIN A CERTIFICATE OF OPERATION FROM THE CITY OF EVANSVILLE FOR THE LSC. YOU MUST RECEIVE A COPY OF THE CERTIFICATE OF OPERATION FROM THE CITY OF EVANSVILLE BEFORE YOU START THE LSC. YOU WILL BE RECEIVING INSTRUCTIONS ABOUT HOW TO SATISFY THE REQUIREMENTS OF THIS CERTIFICATE SEPARATELY. IF YOU HAVE NOT RECEIVED YOUR CERTIFICATE OF OPERATION, PLEASE CALL THE EH&S HOTLINE (866-356-1735).</p> <p>You should verify that your dealership is not located in a floodplain or additional requirements/restrictions may apply to the LSC.</p> <p>Contact</p> <p>Bradley G. Mills, Executive Director Evansville-Vanderburg County Area Plan Commission 1 N.W. Martin Luther King Jr. Blvd Civic Center Complex, Room 312 Evansville, IN 47708 812-435-5226</p>
Fort Wayne – <ul style="list-style-type: none"> • EVANS TOYOTA; • FORT WAYNE TOYOTA 	<p>For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area.</p>	<p>You should verify that the location where you will conduct the LSC is not located in a floodplain; if so, you may be subject to certain permitting and storage requirements.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Paul Blisk Planning Services City-County Building 6th Floor One Main Street Fort Wayne, IN 46802 260-427-5177</p>

Location	Local Fire Code Official and Fire Code Jurisdiction	Other Local Requirements
Highland – TEAM TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area.	You must post a sign in any areas where any flammable or combustible materials (including the LSC materials) are stored that states “WARNING: FLAMMABLE & COMBUSTIBLE MATERIALS.”
Indianapolis – • BUTLER TOYOTA; • TOM WOOD TOYOTA; • BECK TOYOTA; • O'BRIEN TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area	<p>You should verify that the location where you will conduct the LSC is not located in a floodplain or your may be subject to special permitting requirements.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Danny Hayes Zoning Inspections Manager 1200 Madison Avenue, Suite 100 317-327-5249</p>
Jasper - UEBELHOR TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area	<p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>David M. Seger Building Commissioner Jasper City Hall 610 Main Street P.O. Box 29 Jasper, IN 47547-0029 812-482-4255</p>

Location	Local Fire Code Official and Fire Code Jurisdiction	Other Local Requirements
Kokomo-KOKOMO TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area	<p>REMEMBER local regulations prohibit you from disposing of hazardous materials (including the LSC materials) at local landfills.</p> <p>You should also verify that the location where you will conduct the LSC is not located in a Special Flood Hazard Area, otherwise additional storage requirements may apply.</p> <p>Contact</p> <p>Jan Bass, Planner Kokomo Planning Commission 120 E. Mulberry Suite 114 Kokomo IN 46901 765-456-2330</p>
Lafayette – BOB ROHRMAN TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area	<p>You should verify that the location where you will conduct the LSC is not located in a floodway/floodplain otherwise additional storage restrictions may apply.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Ron Highland Tippecanoe County Office Building 20 North 3rd Street Lafayette, IN 47901-1205 765-423-9763</p>

Location	Local Fire Code Official and Fire Code Jurisdiction	Other Local Requirements
Lincolnvillle (Bartholomew County)- WIESE TOYOTA	<p>For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area</p>	<p>You should verify that the location where you will conduct the LSC is not located in a floodplain, otherwise additional use and storage requirements and restrictions may apply.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Brian Thompson Chief Code Enforcement Officer Code Enforcement 440 Third Street • Room 302 Columbus, IN 47201 Phone 812-379-1535</p>
Madison – CRAIG BUICK PONTIAC GMC TOYOTA	<p>For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area</p>	<p>You should verify that the location where you will conduct the LSC is not located in a Special Flood Hazard Area or you may be subject to additional storage requirements.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Mike Hoffman, Building Inspector 101 W. Main St. Madison, IN 47250 812-265-8324</p>

Location	Local Fire Code Official and Fire Code Jurisdiction	Other Local Requirements
Merrillville – TOYOTA OF MERRILLVILLE	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area	<p>REMINDER: Your dealership should have filed a hazardous materials registration form with the Merrillville Police Department and Ross Township fire service as required by local codes. You may need to update this registration to include the LSC materials. If you have questions, please go to the C.L.E.A.N. Dealer website (http://cleandealer.com) or call the EH&S Hotline (866-356-1735).</p> <p>You should verify that the location where you will conduct the LSC is not located in a flood hazard area otherwise additional storage and use restrictions and requirements may apply.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Planning and Building Department 4820 Broadway Ave. Merrillville, IN 219-769-4670</p>
Mishawaka- JORDAN TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area	<p>You must ensure that the storage of materials (including the LSC materials) does not obstruct building exits.</p> <p>You should verify that the location where you will conduct the LSC is not located in a Special Flood Hazard Area (SFHA), otherwise the storage of hazardous materials (including the LSC materials) would be prohibited at that location.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Ken Prince Phone (574) 258-1625 Fax (574) 968-6999 600 E. 3rd Street Mishawaka, IN 46544</p>
Muncie – TOYOTA OF MUNCIE	See Delaware County.	Based on a jurisdiction review, the Toyota of Muncie dealership is located outside city limits, in Delaware County.

Location	Local Fire Code Official and Fire Code Jurisdiction	Other Local Requirements
Richmond - TOYOTA OF RICHMOND	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area	<p>You should verify that the location where you will conduct the LSC is not located in an Aquifer Protection District, otherwise additional requirements apply. If it is located in such a District, you:</p> <ul style="list-style-type: none"> (1) may not store more than 55 gal of hazardous substances outside without secondary containment; (2) must follow best management practices requirements for storage of regulated substances; (3) you must develop a Best Management Practices Plan that is submitted to local agencies. <p>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 (866-356-1735).</p> <p>You should verify that the location where you will conduct the LSC is not located in a Special Flood Hazard Area (SFHA), otherwise you may be subject to additional permitting and storage requirements.</p> <p>Contact</p> <p>Richmond City Zoning Department 50 N 5th St Richmond, IN 47374 (765) 983-7341</p>
South Bend- GATES TOYOTA	For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area	<p>You should verify that the location where you will conduct the LSC is not located in a Wellhead Protection Area, otherwise additional permitting requirements may apply.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>Code Enforcement 227 West Jefferson Blvd. • Suite 1300 S South Bend, Indiana 46601 574.235.9486</p>
Taylorsville (Bartholomew County)- WIESE TOYOTA	See Lincolnville (Bartholomew County).	Based on a jurisdiction review, the Lakeshore Toyota dealership is located outside of Taylorsville, in Lincolnville.
Terre Haute – TOYOTA OF TERRE HAUTE	See Vigo County.	Based on a jurisdiction review, the Toyota of Terre Haute dealership is located outside of Terre Haute, in Vigo County.

Location	Local Fire Code Official and Fire Code Jurisdiction	Other Local Requirements
Warsaw – TOYOTA OF WARSAW	<p>For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area</p>	<p>You should verify that your dealership is not in a Flood Hazard Area, otherwise additional storage and use regulations and restrictions may apply.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p><u>Todd Slabaugh,</u> <u>Building Inspector</u> <u>Building Department</u> <u>794 W. Center Street</u> <u>Warsaw, IN 46850</u> <u>574-372-9548</u></p>
Vigo County – TOYOTA OF TERRE HAUTE	<p>For Fire Code Approval, please follow the instructions above for contacting the State Fire Marshal AFTER you have set up your LSC work area</p>	<p>You should verify that the location where you will conduct the LSC is not located in a floodplain, otherwise additional use and storage requirements and restrictions may apply.</p> <p>You should verify that the LSC will not constitute a change in use or impermissible use under your zoning permit.</p> <p>Contact</p> <p>David Reeves Vigo County Building Commissioner Vigo County Annex Building 151 Oak Street Terre Haute, IN 47807 812-231-5602</p>

APPENDIX A

Materials to Demonstrate Compliance with the Indiana Fire & Building Safety Code Requirements

Compliance Information

- **C3 Determination of Compliance with Indiana Fire &
Building Safety Code**

(Electronic copies are available on the C.L.E.A.N. Dealer website - <http://cleandealer.com>)

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**ATTACHMENT 1: Determination of Compliance and description of the LSC Process
from Commercial Construction Consulting, Inc.**

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September 21, 2009

Indiana Department of Homeland Security
Division of Fire and Building Safety
302 W Washington St. Room 241
Indianapolis, IN 46204

Attn: James L. Greeson,
Indiana State Fire Marshal

Re: Toyota Limited Service Campaign –
Determination of Compliance With Applicable Indiana Fire Codes

Dear Fire Marshal Greeson:

Thank you for your review of our August 22nd submittal to determine Toyota's Limited Service Campaign's ("LSC") compliance with the applicable Indiana fire code regulations in advance of Toyota's implementation of the program. We appreciate your valuable feedback during our conference call on August 31, 2009, and have incorporated your suggestions into an updated version of our previously submitted analysis that is attached to this letter. As you know, the LSC involves the application of two anti-corrosion materials to the frame rails on the underside of certain Toyota vehicles. Based on our discussions on August 31st, we have evaluated the LSC for compliance with the requirements governing a "Limited Spraying Space" under the Indiana Fire Code.

We have determined that the LSC program will be in compliance with the applicable provisions of the International Fire Code ("IFC") and National Fire Protection Association ("NFPA") standards governing the spray application of combustible liquids in limited spraying spaces, as adopted and amended by the State of Indiana.

Enc.



I. Project Overview

Toyota is in the process of implementing a Limited Service Campaign (“LSC”) involving the application of two anti-corrosion sealant materials to the frame rails of certain Toyota vehicles, on the underside of the vehicles. The LSC will be implemented by Toyota dealers in a number of Midwest and Eastern states (generally those that apply road salt in winter), including Indiana. The LSC involves a discrete group of vehicles covered by a customer support program. The LSC is already underway in several other states; it is intended that the LSC will begin in Indiana in September 2009 and it will conclude by October 2010.

Attached to this letter are the following documents: (1) an overview of the LSC process; and (2) the Material Safety Data Sheet (MSDS) for each of the LSC materials.

II. Executive Summary

- The LSC is governed by the regulations found in the International Fire Code (“IFC”) and NFPA-33, as adopted and amended by the State of Indiana. Dealers will be provided with written instructions and technical support on how to select and set up an appropriate work space and implement the LSC in compliance with these regulations.
- The LSC will involve the spray application of two combustible liquids (both liquids have flash points in excess of 100°F – one is a Class II and one is a Class IIIB), which will be applied to the vehicle frames in two separate, sequential operations. The liquids are classified as combustible and not flammable.
- The LSC materials are viscous and will be applied using a specialized spray gun (Vaupel HSDR 3300) that has a very high transfer efficiency (based on testing by the manufacturer and an independent third party laboratory), resulting in little to no overspray in the LSC application.
- The LSC materials will be applied in the same form (described in the MSDSs) as they are shipped to the dealers. The materials will not be diluted with any solvents or other chemicals and will not be mixed or combined with each other in any way. Each material will be applied using a dedicated spray gun to different portions of the vehicle frame rails.
- Because the LSC materials have to be applied while the vehicles are up on lifts to provide sufficient access to the frame rails, the LSC will not be conducted in a spray room or spray booth. Instead, it is intended that the LSC will be conducted in regular vehicle services bays under conditions that meet the IFC operational standards for a limited spraying space.
- The materials will be sprayed one liter at a time, with time in between for re-filling the spray bottle, allowing dispersion of any fumes or mist between the application of each bottle of material. Each liter covers approximately 9 square feet (sq ft) of the vehicle’s frame rails.
- The LSC will not require the dealer to construct, enlarge, alter, repair, move, demolish, or change the occupancy of the dealership, and will not require the dealer to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system.
- Consistent with the IFC requirements applicable to limited spraying spaces, dealers will be instructed to conduct the LSC in an area that meets at least the minimum ventilation requirements. The limited spraying space will be surrounded by temporary, fire-retardant partitions for facility clean up and to control any overspray. These partitions will have a 12” gap at the bottom to ensure ventilation and prevent the potential accumulation of vapors. Each limited spraying space will be mechanically ventilated with an explosion proof fan



providing a minimum of 6 air changes per hour in the enclosed area of the limited spraying space.

- Dealers will also be instructed to provide at least one appropriately rated portable fire extinguisher within 75 feet of the limited spraying space.
- Automatic sprinkler protection is not required for limited spraying spaces.

III. Applicable Codes and Regulations

We have analyzed the International Fire Code (“IFC”) as published by the International Code Council (“ICC”) and NFPA-33, as adopted and amended by the State of Indiana. This analysis is based on the 2006 IFC and NFPA-33 (2003).

IV. Indiana Fire Code 2008, 2006 IFC & 2003 NFPA-33

In Indiana, as noted above, provisions of both the IFC (2006) and NFPA-33 (2003) govern the spray application of combustible liquids. This Section IV addresses the provisions of the Indiana code dealing with conflicts within the two standards in order to determine which provisions of the IFC and NFPA-33 (as adopted/amended by Indiana) govern the LSC.

Regulation: 675 IAC 12-4-8 Conflicts within the rules. *Where, in any specific case, different sections of the rules of the Commission specify different materials, methods of construction or other requirements, **the most restrictive shall govern.** Where there is a conflict between a general requirement and a specific requirement, **the specific requirement shall be applicable.***

Analysis: As discussed in further detail below, the specific requirements of the Indiana Fire Code applicable to the spray application of undercoating at vehicle repair garages are those found in the IFC (2006), which require such spray finishing operations to comply with Chapter 15 of the IFC.

Following is a review of NFPA-33 (2003) as adopted and amended by the State of Indiana:

NFPA-33

Regulation: Section 1.1.1 *This standard shall apply to the spray application of flammable or combustible materials, as herein defined, either continuously or intermittently, by any of the following methods:*

- (1) *Compressed air atomization*
- (2) *Airless or hydraulic atomization*
- (3) *Electrostatic application methods*
- (4) *Other means of atomized application*

Analysis: The provisions of NFPA-33 (2003) must be reviewed for the proposed LSC undercoating materials.

Regulation (as amended, 675 IAC 28-1-13(hh): *Delete the text of Chapter 14 in its entirety without substitution.*

Analysis: The Indiana Fire Code amends NFPA-33 to delete Chapter 14, which governs, among other things, vehicle undercoating, and all references to NFPA 30A, which governs repair garages. Accordingly, the NFPA as amended by the Indiana Fire Code contains no specific provisions



governing the spray application of undercoating materials in repair garages. As a result of these changes, the only specific provisions of the Indiana Fire Code applicable to the spray application of undercoating at vehicle repair garages are those found in the IFC, which require such spray finishing operations to comply with Chapter 15 of the IFC. Under the Indiana Fire Code, if there is a conflict between a general requirement and a specific requirement, the specific requirement shall apply (*see* 675 IAC 12-4-8). Therefore, because the LSC is a spray finishing operation taking place in a repair garage, the specific requirements of Chapter 15 of the IFC, as amended, govern the operation as opposed to the requirements of NFPA-33.

The balance of this letter addresses the applicable provisions of the IFC, as modified by the State of Indiana.

A. The LSC Materials are Combustible Liquids Under the Indiana Fire Code (*See* 675 IAC Rule 2.4)

Regulation: *Section 3402.1 (Definitions): Combustible Liquid. A liquid having a closed cup flash point at or above 100°F (38°C). Combustible liquids shall be subdivided as follows:*

Class II: Liquids having a closed cup flash point at or above 100°F (38°C) and below 140°F (60°C).

Class IIIA: Liquids having a closed cup flash point at or above 140°F (60°C) and below 200°F (93°C).

Class IIIB: Liquids having closed cup flash points at or above 200°F (93°C).

Analysis: The material Nox-Rust® 712AM has a flash point of greater than 200°C (392°F), and is classified as a Class IIIB combustible liquid (see attached MSDS).

Analysis: The material Nox-Rust® X128T has a flash point of 105°F, and is classified as a Class II combustible liquid (see attached MSDS).

Note: The LSC materials will be applied in the same form as they are described in their MSDS. The materials will not be mixed or combined with each other or with any other materials during the LSC process, nor does either material require any dilution or thinning with solvents or other chemicals.

B. The Spray Application of Combustible Materials is Governed by Chapter 15 of the IFC

Regulation: *Section 1501.1 (Scope): This chapter shall apply to locations or areas where any of the following activities are conducted:*

- 1. The application of flammable or combustible paint, varnish, lacquer, stain, fiberglass resins or other flammable or combustible liquid applied by means of spray apparatus in continuous or intermittent processes.*

Analysis: Pursuant to Chapter 34 of the IFC, both of the materials used in the LSC are classified as combustible liquids. The LSC will involve the spray application of these materials to the frame rails of certain vehicles. Therefore, the provisions of Chapter 15 must be reviewed for applicability to the LSC process.

C. Location of Spray-finishing Operations

Regulation: *Section 1504.2 (Location of spray-finishing operations): Spray finishing operations conducted in buildings used for Group A, E, I or R occupancies shall be located in a spray room protected with an approved automatic sprinkler system installed in accordance with standard 903.3.1.1 and separated vertically and horizontally from other areas in accordance with the*



International Building Code. In other occupancies, spray-finishing operations shall be conducted in a spray room, spray booth, or spraying space approved for such use.

Exception 1: Automobile undercoating spray operations and spray-on automotive lining operations conducted in areas with approved natural or mechanical ventilation shall be exempt from the provisions of Section 1504 when approved and where utilizing Class IIIA or Class IIIB combustible liquids.

Exception 2: In buildings other than Group A, E, I or R occupancies, approved limited spraying space in accordance with Section 1504.9.

Analysis: Section 1504.2 of the IFC lists the locations in buildings where spray finishing operations may be conducted. Under the IFC, limited spraying spaces may be located in all buildings except those with Group A (Assembly), E (Educational), I (Institutional), or R (Residential) occupancies.

The LSC will take place in existing dealership service areas and not in a building with A, E, I or R occupancies. Because the LSC requires the vehicle to be on a lift to provide sufficient access to the vehicle's frame rails, **it is impractical for the LSC to take place in a spray booth or spray room.**

As described in more detail below, the LSC materials will be applied in one liter increments. The 712AM does not trigger additional spraying space requirements because it is a Class IIIB liquid, and is therefore exempt from the provisions of Section 1504, although it is still subject to the ventilation requirements of Chapter 15. Each liter of the X128T material covers approximately 9 sq ft and is applied in one liter increments. This is why Toyota expects its dealers to conduct the LSC in a limited spraying space that meets all the applicable IFC requirements governing limited spraying spaces, as permitted by Section 1504.9.

LSC will not occur in a spray booth, or spray room. Consistent with our discussions, and because the LSC materials will be applied one liter at a time (with a time delay in between liters to refill the spray gun bottles), the remainder of this letter analyzes the LSC's compliance with the IFC provisions governing "limited spraying spaces".

D. Design and Construction of Approvable Limited Spraying Spaces

Regulation: *Section 1504.9.1 (Job size): The aggregate surface area to be sprayed shall not exceed 9 square feet (0.84 m²).*

Analysis: The LSC materials will be packaged in kits of five 1L bottles per kit, two of the Class IIIB material (the 712AM) and three of the Class II material (the X128T). (Note: One kit will be required to complete the LSC for each vehicle). The materials will be applied separately to separate parts of the frame rails using dedicated spray guns – the 712AM is applied first, to the interior of the frame rails, and then the X128T is applied to the exterior of the frame rails. The materials will be sprayed one liter at a time, with time in between for re-filling the spray bottle, allowing for dispersion of any fumes or mist between the application of each bottle of material.

As discussed above, the Class IIIB material is not subject to additional fire code requirements, so long as it is conducted in an area with adequate natural or mechanical ventilation. The Class II material is subject to the job size requirements governing limited spraying spaces (1504.9); it satisfies these requirements because each liter covers approximately 9 sq ft of the vehicle's frame rails.

Regulation: *Section 1504.9.2 (Frequency): Spraying operations shall not be of a continuous nature.*



Analysis: The LSC is not a continuous spray operation. As described in the attached Overview, at the start of the process each vehicle needs to be manually cleaned, then placed on a lift and otherwise prepped (i.e., remove rear wheels, spare tire, and engine under-cover, mask areas not to be sprayed, etc.). These steps take approximately 1 ¼ hours per vehicle.

After the cleaning and other vehicle preparation steps are completed, the Class IIIB material (the 712AM) is applied separately to each frame rail (one liter per rail). One liter of this material takes approximately 4 minutes to apply. Refilling the 712AM spray gun bottle will take approximately 3 minutes in between the application to each rail. The bottle is filled two separate times, once for each of two liters of 712AM to be applied. Total application time for this Class IIIB material (including time to refill the spray gun bottle) is approximately 15 minutes.

Therefore, the time from the start of the LSC (i.e., the truck being brought into the service bay) until application of the Class II material (the X128T) begins is at least 1.5 hours.

As noted above, one liter of the X128T covers approximately 9 sq ft of frame rail. One liter of this material takes approximately 10-12 minutes to apply. Refilling the X128T spray gun bottle will take approximately 4 minutes (because the X128T is more viscous than the 712AM). The bottle is filled three separate times, once for each of three liters of X128T to be applied. Total application time for the Class II material (including time to refill the spray gun bottle) is approximately 45 minutes.

After the application of the LSC materials is completed, it takes approximately a half an hour for the vehicle to be put back together (e.g., tires put back on, etc.) before the vehicle can be moved out of the bay. In total the LSC takes approximately 2.5-3 hours per vehicle to complete. Of that time, only 36 minutes total is actually spent spraying the Class II material (12 minutes per bottle), with approximately 4 minute delays between each bottle being applied for refilling.

Regulation: *Section 1504.9.3 (Ventilation): Positive mechanical ventilation providing a minimum of six air changes per hour shall be installed. Such system shall meet the requirements of this code for handling flammable vapor areas. Explosion venting is not required.*

Analysis: To ensure that ventilation in the LSC work areas satisfies this requirement, dealers will given detailed instructions to set up the LSC in a work area that has good ventilation (e.g., in a service bay accessed directly from the outside by either a dedicated bay door or man door, or in an existing undercoating area). Additionally, each limited spraying space will be mechanically ventilated by an explosion proof fan (or some other preexisting system). The fan will ventilate directly outdoors through the nearby open bay door or a nearby man-door. The volume ventilated by the fan is the space partitioned off with temporary partitions (assumed dimensions of partitioned area 12 ft (width), by 30 ft (depth) by 12 ft (height) – or 4,320 cu ft).¹ To achieve six air changes per hour (25,920 cfh) will require a minimum fan size of approximately 500 CFM.

Analysis: In addition to complying with the ventilation requirements applicable to limited spraying spaces, we do not believe that the LSC operations will result in a flammable vapor area because:

- The LSC materials are viscous and will be applied with a very high transfer efficiency spray gun – the Vaupel HSDR 3300. This spray gun has been demonstrated by the manufacturer and an independent third-party laboratory to be 99% and 93% efficient in

¹ Specific partition height, width and depth will vary somewhat dealer-by-dealer based on their specific physical configuration.



application of the two LSC materials to the interior and exterior of the frame rails, respectively; as a result, there will be little to no overspray from the LSC.

- The number of vehicles sprayed each day under the LSC will be limited, and a significant portion of the time devoted to each vehicle involves preparation steps rather than actual spraying; and
- The materials will be sprayed one liter at a time, with time in between for re-filling the spray bottle, allowing dispersion of any fumes or mist between the application of each bottle of material.

Regulation: *Section 1504.9.4 (Electrical wiring): Electrical wiring within 10 feet (3048 mm) of the floor and 20 feet (6096 mm) horizontally of the limited spraying space shall be designed for Class I Division 2 location in accordance with the [National Electrical Code].*

Analysis: Dealers will be instructed to disconnect or remove any electrical wiring not meeting the above minimum requirements, or will be instructed to install compliant wiring as appropriate.

E. In addition to meeting the minimum requirements for limited spraying spaces, the following additional precaution will be taken in accordance with IFC requirements for spraying spaces, as outlined in Section 1504.

Regulation: *Section 1504.4.1: Portable fire extinguishers complying with Section 906 shall be provided for spraying areas in accordance with the requirements for an extra (high) hazard occupancy.*

Analysis: Dealerships will be instructed to ensure that fire extinguishers are in the vicinity of the spraying space. Because the LSC will take place in a limited spraying space expected to be significantly smaller than 1000 sq ft, dealerships will be instructed to provide at least one appropriately rated portable fire extinguisher within 75 feet of the LSC operation.²

VII. CONCLUSION

Under the Indiana Fire Code, the LSC program is subject to the requirements of the IFC Chapter 15, which contains the specific requirements applicable to the spray application of combustible materials. Consistent with our discussion on August 31st, the analysis above demonstrates that the LSC program is in compliance with the International Fire Code requirements governing the spray application of combustible liquids in an approvable limited spraying space. Dealers will be provided with detailed instructions and technical support on how to conduct the spraying operation in a manner that is compliant with all IFC requirements applicable to limited spraying spaces.

Please also refer to the LSC Overview and the Material Safety Data Sheets attached to this letter. If you have any questions, please do not hesitate to call.

Very truly yours,

Douglas R. Anderson

Doug Anderson
Manager, Code Advisory Group

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² IFC Table 906.3(1).

Limited Service Campaign ("LSC") Overview

The LSC is not a continuous spray operation. As described below, there are a number of activities that must occur before spraying is started, and even after it has commenced the spraying operation is interrupted repeatedly to allow for refilling of the spray guns' 1 liter spray bottle and for switching between spraying the interior (Class IIIB) and the exterior (Class II) material.

LSC PROCESS STEP 1 - VEHICLE PREPARATION

- **Preparing the Vehicle Frame:**
 - Vehicle preparation requires no chemicals, solvents, or oils.
 - Pressure wash frame rails (if necessary). This will be absolutely necessary in the winter to remove salt, etc.
 - Place vehicle on lift (Exhibit A).
 - If vehicle work area is within 20 feet of an adjacent bay, install partition (with 12" opening at the bottom) around the LSC work area.
 - Remove rear wheels, spare tire, and engine under-cover.
 - Mask areas where LSC materials will not be applied.
 - Where necessary, place non-combustible coverings on floor.
 - Manually scrape and scrub underside of vehicle to remove any debris or rust (Exhibit B).
 - 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 - MATERIALS AND THEIR APPLICATION

- **Applying Materials to the Vehicle Frame**
 - Application of the materials will begin after the vehicle preparation step (Exhibit C). 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 (1 kit per vehicle) – a kit contains five one-liter (1L) plastic bottles (shaped like standard engine oil bottles).
 - Two liters of the first of the materials – Nox-Rust® 712AM – are applied to the interior of the vehicle frame rails. Nox-Rust® 712AM: Flash Point >200° C (392° F) (Class IIIB combustible; HMIS fire hazard rating of 1).
 - The 2 liters of 712AM material (Class IIIB) are applied one liter at a time. It takes approximately 4 minutes to apply each liter. Filling the 712AM spray gun bottle

between liters takes approximately 3 minutes. The spray bottle on the 712AM spray gun has to be filled two separate times to complete the application of the 712AM. Total application time for this Class IIIB material (including time to refill the spray gun bottle) is approximately 15 minutes.

- Three liters of the second material – Nox-Rust® X128T – are applied to the exterior of the vehicle frame rails. Nox-Rust® X128T: Flash Point 105° F (Class II combustible; 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.**
- The 3 liters of X128T material (Class II) are applied one liter at a time. It takes approximately 10-12 minutes to apply each liter. Filling the X128T spray gun bottle between liters takes approximately 4 minutes (because the X128T is more viscous than the 712AM). The spray bottle on the X128T spray gun has to be filled three separate times to complete the application of the X128T. Total application time for the Class II material (including time to refill the spray gun bottle) is approximately 45 minutes. Each liter of X128T covers approximately 9 sq ft of frame rail.
- 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.
- Spraying both the Class IIIB and Class II materials takes approximately 1 hour to complete.

LSC PROCESS STEP 3 – Process Completion

- After the application of the LSC materials is completed, it takes approximately a half an hour for the vehicle to be put back together (e.g., tires put back on, etc.) before the vehicle can be moved out of the bay.
- In total the LSC takes approximately 2.5-3 hours per vehicle. Of that time, approximately 1 ¾ hours is spent prepping or reassembling the vehicle and only 36 minutes is actually spent spraying the Class II material (12 minutes per bottle), with approximately 4 minute delays between each bottle for refilling.

LSC PROCESS OPERATIONS SUMMARY

- **The LSC will be conducted consistent with IFC requirements:**
 - Each limited spraying space will be mechanically ventilated with an explosion proof fan providing a minimum of 6 air changes per hour in the enclosed area of the limited spraying space.
 - The materials are nonflammable.
 - There will be no open flames or spark-producing equipment or appliances within 20 feet of the LSC operation.

- There will be no drying, curing, or fusion apparatus within 20 feet of the LSC operation.
- There will be properly rated fire extinguishers provided within 75 feet of the LSC spraying space.
- Any combustible floor construction in the spraying area will be covered with Fire Retardant Poly Sheeting (e.g., TRM 'WEATHER-ALL' Flame Retardant Film).

All LSC materials will be stored within the total quantity limits allowed by the IFC for all Class II and Class IIIB materials.

Exhibit A: Vehicle Setup

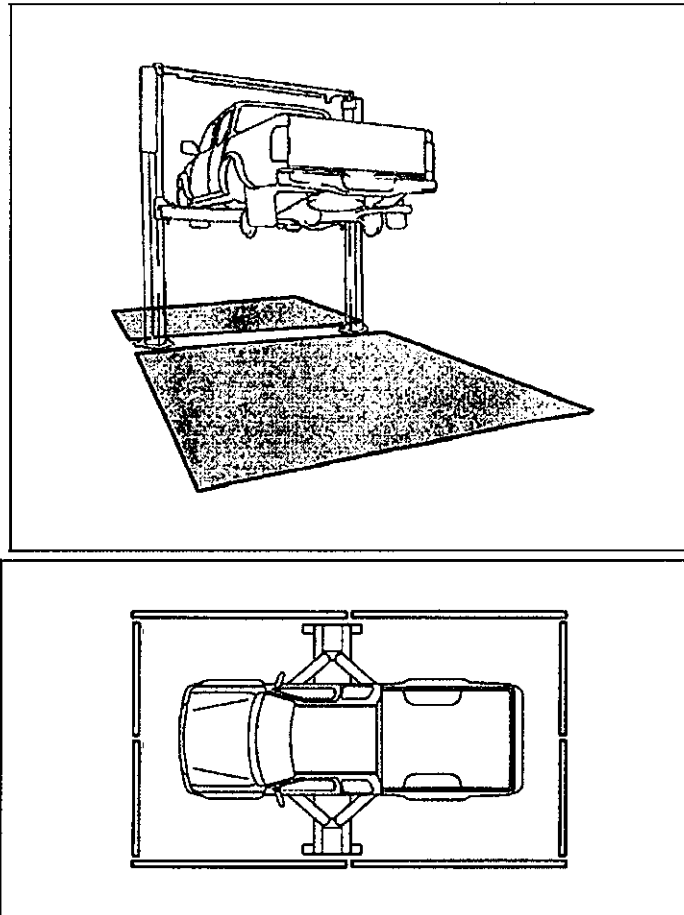


Exhibit B: Vehicle Preparation

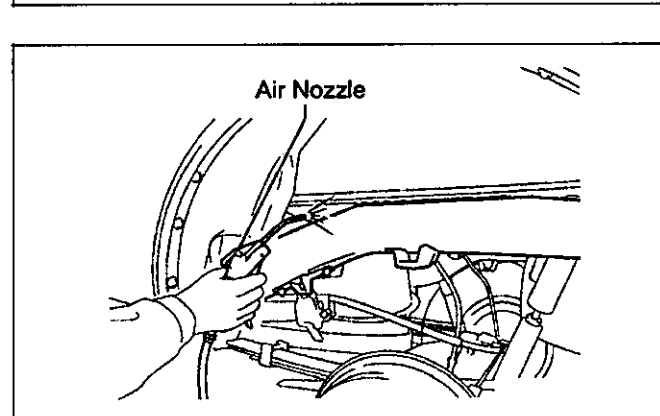
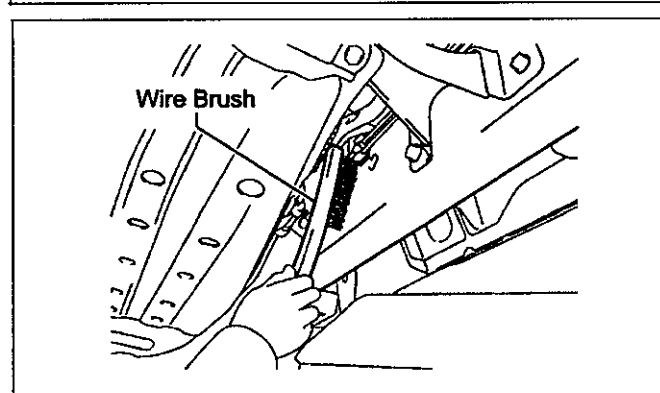
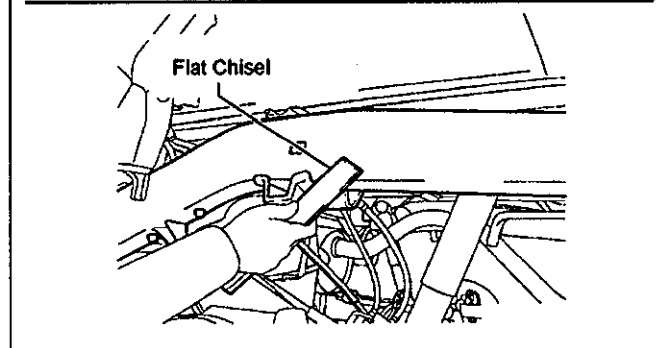
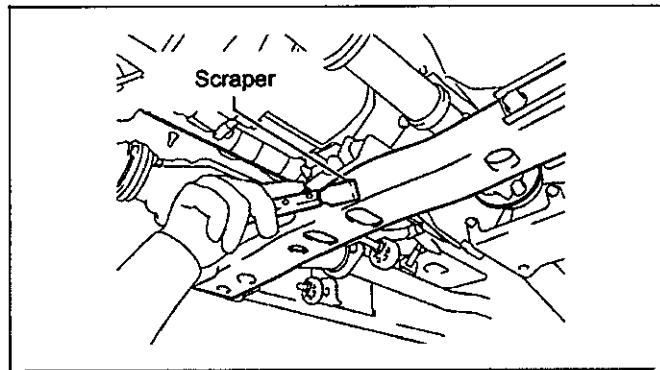
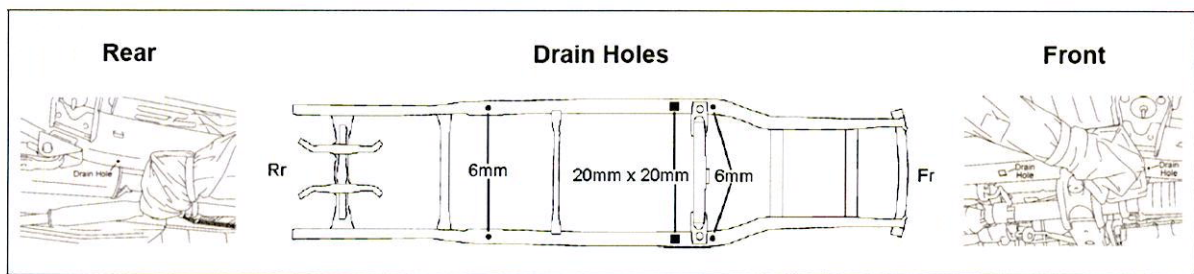
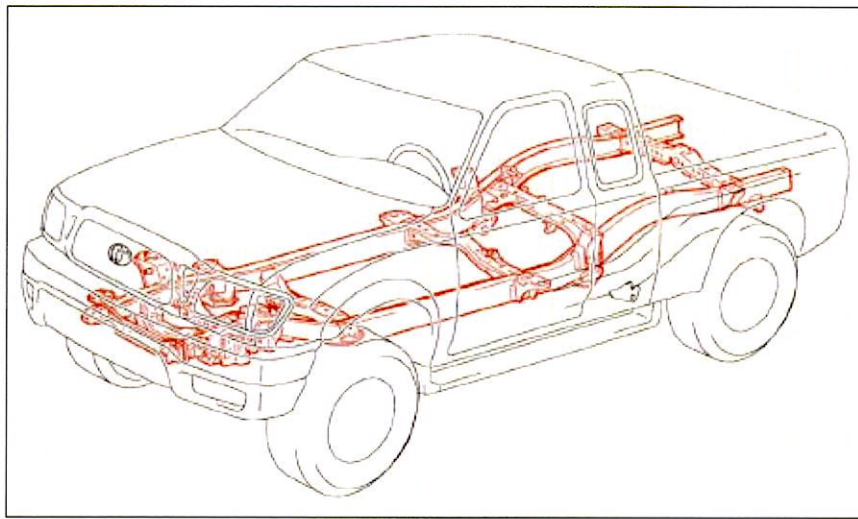


Exhibit C: Application Locations



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REGULATED
WASTE MGMT

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

The waste produced as a result of the LSC operations may qualify as regulated hazardous waste (e.g., excess LSC materials, clean up rags, etc.), because the LSC materials are combustible (i.e., they are assumed to qualify as regulated "hazardous" waste). However, the LSC is not expected to impact your dealership's waste generator status (e.g., whether you are a Small Quantity Generator or a Conditionally Exempt Small Quantity Generator of regulated waste) because the quantities of regulated waste generated by the LSC operations should be relatively small assuming that:

- 1) **You store the spray guns properly when they are not in use as described in the Technical Instructions** (so that the spray guns do not need to be cleaned, which would generate waste); and
- 2) **You reuse the LSC tarps (floor coverings) and work area partitions** (so as to avoid frequent disposal of these items which would generate larger quantities of waste, which may impact your generator status).

If you do the two things above, then the only regulated waste produced by the LSC would consist of rags used to clean the LSC work area and any excess quantities of the LSC materials. These materials should be handled in the same manner as other regulated waste at your dealership. This section provides a brief overview of the regulated waste requirements applicable to dealerships generally.

Regulatory Note Regarding LSC Tarps and Partitions: The tarps/partitions used during the LSC process should be handled like other regulated waste when you dispose of them. The weight of these tarps counts against the monthly regulated waste management limits noted in Section 2 below. Given their size and weight, the tarps/partitions could represent a large quantity of waste if disposed of frequently and could impact your compliance with the limits noted below. Therefore, we recommend that you reuse the tarps and other materials used to create the partitions described in the **Technical Instructions**.

1. IF YOU ARE ALREADY A **SMALL QUANTITY GENERATOR (SQG)** (I.E., BECAUSE YOU GENERATE MORE THAN 220 POUNDS OF REGULATED WASTE PER MONTH OR ACCUMULATE MORE THAN 2,200 POUNDS OF REGULATED WASTE AT ANY ONE TIME), YOU CAN STOP READING AS YOU ARE LIKELY ALREADY FAMILIAR WITH THE REQUIREMENTS NOTED BELOW. THE LSC SHOULD NOT IMPACT YOUR GENERATOR STATUS. (SEE NOTE ABOVE)
2. FOR ALL OTHER DEALERSHIPS, IF YOU GENERATE REGULATED WASTE, YOU **MUST** HAVE NOTIFIED THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND HAVE AN UP-TO-DATE EPA SITE IDENTIFICATION NUMBER (“EPA NUMBER”). THE WASTE HANDLER ID REQUIREMENT DOES NOT APPLY ACROSS YOUR ENTIRE DEALERSHIP, BUT TO EACH LOCATION AT YOUR DEALERSHIP WITH A SEPARATE MAILING ADDRESS.
3. IF YOU ARE NOT A SMALL QUANTITY GENERATOR, AND **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, THE LSC SHOULD NOT IMPACT YOUR GENERATOR STATUS.

- a. Your dealership will not have to become a registered SQG (and thereby be subject to additional requirements) if you stay below the two registered SQG triggers:
 - (1) Generate no more than 220 pounds of regulated waste in a calendar month; and
 - (2) Accumulate no more than 2,200 pounds of regulated waste at any one time.

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 and its own EPA ID Number.

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 OR IF IT HAS BEEN BLENDED, MIXED, COMMINGLED OR OTHERWISE TREATED WITH ANY HAZARDOUS WASTE.

- a. Waste oil and used oil should not be blended, mixed, commingled, or otherwise treated with any other hazardous waste. If it is, it must be counted against the applicable regulated waste limit note above.