

TOYOTA

SERVICE BULLETIN

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

VOLUME

10

REFERENCE BODY
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MODEL ALL MODELS

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IRON PARTICLE CONTAMINATION REPAIR

CONDITION:

During rail transportation or extended storage near industrial areas, vehicles may occasionally be subjected to contamination by airborne iron particles shed from either railroad tracks, train wheels, etc., or exposure to heavy machinery facilities.

These particles can adhere to horizontal painted surfaces of vehicles and quickly corrode when combined with moisture. If not immediately recognized and removed from painted surfaces, they become embedded and cause further paint damage.

INSPECTION:

This type of contamination can be identified by the presence of small red or brown particles on the paint surfaces. These particles are often difficult to see on dark color paints, but still can be readily felt when brushing a hand or fingernail across horizontal body surfaces such as hood, roof, or decklid.

CAUTION:

Because of the abrasiveness of these small iron particles, polishing or buffing procedures should not be attempted to repair the paint surface of an affected vehicle. This will result in further paint damage and detract from vehicle appearance.

CORRECTIVE ACTION:

Washing the affected paint surfaces with an oxalic acid solution is the recommended method to dislodge embedded iron particles and remove the surrounding rust stains. ZEP X-20472 "INDUSTRIAL FALLOUT REMOVER" is one of several commercially pre-mixed oxalic acid wash solutions and is very effective in removing iron particle contamination. The correct usage of oxalic acid solutions is described in this bulletin.

IRON PARTICLE CONTAMINATION REPAIR (CONT'D)

GENERAL PRECAUTIONS:

WARNING:

ZEP X-20472 "INDUSTRIAL FALLOUT REMOVER" is an acidic product and rubber gloves, boots, aprons, and eye protection must be worn to protect the clothing and skin of persons performing the acid wash procedure.

CAUTION:

Consult local or state regulations as well as ZEP Manufacturing regarding the handling, use, and disposal of oxalic acid solutions prior to use.

Under no circumstances should acid washing be performed in direct sunlight or acid wash solution be allowed to dry on vehicle surfaces, as staining of plastic, rubber, or painted parts may result.

ACID WASH PROCEDURE:

REQUIRED MATERIALS AND SUPPLIES:

- ZEP X-20472 INDUSTRIAL FALLOUT REMOVER
- Rubber gloves, aprons, boots
- Eye protection
- Sponges or wash mitts
- Pail or bucket

Contact the main office of ZEP Manufacturing Company as listed below to find a local source for ZEP X-20472 "INDUSTRIAL FALLOUT REMOVER."

ZEP MANUFACTURING COMPANY
1310 SEABOARD INDUSTRIAL BLVD., NW.
BOX 2015
ATLANTA, GEORGIA 30301
(404) 350-6235

REPAIR PROCEDURE:

1. Move vehicle out of direct sunlight. Initially rinse with cool water then wash with liquid car wash detergent. Rinse again thoroughly with fresh water.
2. Apply fallout remover liberally to affected surfaces by sponge, terry cloth towel, wash mitt, or hand-pressurized sprayer.
3. Allow fallout remover to remain on vehicle surfaces for at least five (5) minutes. Be sure to re-wet with additional remover if body service begins to dry.

IRON PARTICLE CONTAMINATION REPAIR (CONT'D)

4. Thoroughly rinse vehicle with fresh water.
5. Inspect vehicle carefully both visually and by feel to determine if all iron particles have been removed. Repeat the acid wash application several times if necessary to achieve complete removal.
6. Apply baking soda & water solution (1 teaspoon to 1 quart of water) to vehicle surface to neutralize any remaining acid solution.
7. Perform thorough final rinse on vehicle with fresh water.
8. Dry vehicle with a soft terrycloth towel and apply a non-abrasive, non-silicone glaze to obtain a high-gloss finish.