

**PE05-019**  
**NISSAN**  
**ATTACHMENT G, H, I, J, K, L,**  
**& M**  
**PART 3 OF 3**

**ATTACHMENT G**

**Warranty Claims search criteria**

Nissan found no applicable paid warranty claims in response to Request No. 5 using the following search criteria in our Warranty Database as of June 1, 2005:

**PNC Code and Description**

B0114 = QUEST 2ND ROW SEAT LEVER

**Word Search In Comments**

The keyword "FINGER" was searched to identify claims that relate to, or may relate to, the alleged defect in the subject vehicle.

**ATTACHMENT H**

**New Vehicle Warranties**



2004

WARRANTY INFORMATION BOOKLET

**WHO IS THE WARRANTOR**

Nissan<sup>1</sup> warrants all parts of your 2004 Nissan vehicle supplied by Nissan, except for those listed elsewhere under the caption "WHAT IS NOT COVERED."

**APPLICABILITY**

This warranty is provided to the original and subsequent owner(s) of a Nissan vehicle originally distributed by Nissan which is originally sold by a Nissan authorized Nissan dealership in the United States (excluding Hawaii), and which is registered in the U.S. and normally operated in the United States (including Alaska and Hawaii), the United States territories (specifically Guam, Saipan, American Samoa, Puerto Rico and the U.S. Virgin Islands), and Canada.

This warranty is generally transferable from the original owner other than a Nissan dealer<sup>2</sup> (OWNER) to subsequent owners of the vehicle at any time ownership of the vehicle is transferred, without any action on your part; except that this warranty is not transferable but is instead void if during the first six months after delivery to the original OWNER: (1) ownership of the vehicle is transferred from the original OWNER, and (2) the vehicle is registered outside of the United States.

Your Nissan vehicle is manufactured to meet U.S. regulations and environmental requirements. With the exception of privately owned vehicles belonging to members of the U.S. military or employees and officers of the United States Government stationed abroad, this warranty does not apply if an otherwise covered vehicle is operated in, or relocated to, a country other than those listed above under this caption, except that it continues to apply if the vehicle is operated in full compliance with its proper use as described in the applicable OWNER'S MANUAL<sup>3</sup> while touring outside of the United States, the U.S. territories or

Canada for a period not exceeding sixty (60) consecutive days or sixty (60) days in any one 12 month period. Subject to the transferability restriction described above, this warranty applies to a relocated vehicle which is returned to, and is registered and normally operated in the United States, the U.S. territories or Canada, except for conditions due to the vehicle's foreign operation, e.g., use of inappropriate fuels or other fluids.

**LIMITATION OF WARRANTIES AND OTHER WARRANTY TERMS AND STATE LAW RIGHTS**

**EXTRA EXPENSES - LIMITATIONS OF DAMAGES**  
This warranty does not cover incidental or consequential damages such as loss of the use of the vehicle, inconvenience or commercial loss.

**ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Nissan does not authorize any person to create for it any other warranty, obligation or liability in connection with this vehicle.

**THE WARRANTY BEGINS**

The warranty period begins on the date the vehicle is delivered to the first retail buyer or put into use, whichever is earlier.

**FOR HOW LONG AND WHAT IS COVERED****I. BASIC COVERAGE**

- The basic coverage period is 36 months or 36,000 miles, whichever comes first.
- This warranty covers any repairs needed to correct defects in materials or workmanship of all parts and components of each new Nissan vehicle supplied by Nissan except for the exceptions or items listed under the caption "WHAT IS NOT COVERED" or as indicated below.

**II. POWERTRAIN COVERAGE**

- The Powertrain coverage period is 60 months or 60,000 miles, whichever comes first.
- This warranty covers any repairs needed to correct defects in materials or workmanship.
- Powertrain coverage applies to components listed below, supplied by Nissan except for those mentioned under the caption "WHAT IS NOT COVERED"

**ENGINE**

Cylinder heads and block and all internal parts, rock covers and oil pan, valve train and hem cover, timing chain and tensioner, oil pump, water pump and ruse pump, fuel injectors, intake and exhaust manifolds and supercharger, flywheel, seals, and gaskets.

**TRANSMISSION AND TRANSAXLE**

Cases and all internal parts, torque converter and converter housing, automatic transmission control module, transfer case and all internal parts, seals and gaskets, clutch cover and housing, and electronic transmission controls.

<sup>1</sup> Nissan indicates Nissan North America, Inc., P.O. Box 191, Garden, California, 90248-0191 which distributes Nissan vehicles in the continental United States.

<sup>2</sup> See the Owner's Manual for information relevant to proper operation of the vehicle, including the recommended uses and fluids.

**DRIVETRAIN**

Drive shafts, final drive housing and all internal parts, propeller shafts, universal joints, bearings, seals and gaskets.

**■ RESTRAINT SYSTEM**

Air bags and related electronic control systems.

**■ CORROSION COVERAGE (PERFORATION FROM CORROSION)**

Any body sheet metal panel supplied by Nissan found to have developed perforation (rust-through) due to corrosion in normal use is covered for 60 months, regardless of mileage, except for those items listed under "WHAT IS NOT COVERED". No additional rust proofing applications are required. Perforation is a condition in which any body sheet metal panel has corroded from one surface through to another.

**■ ORIGINAL EQUIPMENT BATTERY COVERAGE**

The coverage period is 36 months or 36,000 miles, whichever comes first. A defective original equipment battery which is unserviceable within the first 12 months and 36,000 miles will be replaced free of charge. After 12 months but within 24 months and 36,000 miles, you will pay 80% of the replacement battery's suggested retail price plus any applicable taxes. After 24 months but within 36 months and 36,000 miles, you will pay 75% of the replacement battery's suggested retail price plus any applicable taxes. Nissan will pay the rest, including all labor to remove and replace the defective battery.

**■ TOWING COVERAGE**

If your vehicle is inoperative due to the failure of a warranted part, towing service to the nearest authorized Nissan dealer is covered for 36 months or 36,000 miles, whichever comes first.

**■ ADJUSTMENTS**

Service adjustments not usually associated with the replacement of parts, such as wheel alignment, are covered only during the first 12 months or 12,000 miles, whichever comes first.

**■ REFRIGERANT RECHARGE ONLY**

Refrigerant recharge not associated with the repair or replacement of a warranted part is covered only during the first 12 months, regardless of the mileage.

**NO CHARGE**

Warranty repairs will be made at no charge for parts and/or labor (except for batteries and tires, in which case you may pay certain charges as noted above or as described in the applicable tire warranty found later in this booklet). Any needed parts replacement will be made using genuine Nissan or Nissan approved new or remanufactured parts.

**OBTAINING WARRANTY SERVICE**

■ You must take the vehicle to an authorized Nissan dealer in the United States or Canada during regular business hours at your expense in order to obtain warranty service. The names and addresses of authorized Nissan dealers are listed in telephone directories.

■ If you require warranty service outside of the United States (see terms under caption "APPLICABILITY"), contact an authorized Nissan dealer in that country. Note that complaints related to failure to comply with proper use of the vehicle as described in the applicable OWNER'S MANUAL, (including the lack of availability or use of proper fuel and fluids), or the vehicle's lack of compliance with local regulations or environmental requirements of any country (other than the U.S., the listed U.S. territories or Canada) are not covered by this warranty.

**MAINTENANCE AND RECORDS**

As a condition of this warranty, you are responsible for properly using, maintaining and caring for your vehicle as outlined in your OWNER'S MANUAL and your NISSAN SERVICE & MAINTENANCE GUIDE, and maintaining copies of all maintenance records & receipts for review by Nissan. Failure to do so is likely to result in the denial of warranty coverage.

Evidence of the performance of the required maintenance should be kept and presented as proof of such maintenance in connection with related warranty repair. To assist you in maintaining appropriate records, the maintenance log located in your NISSAN SERVICE & MAINTENANCE GUIDE can be used along with supporting repair invoices, receipts and other such records.

(Continued on page 6)  
(See following page for "WHAT IS NOT COVERED.")

**WHAT IS NOT COVERED****DAMAGE, FAILURES OR CORROSION DUE TO ACCIDENTS, MISUSE OR ALTERATIONS**

This warranty does not cover damage, failure or corrosion resulting from:

- Accident, theft, fire, driving through water (including engine water ingestion) or misuse (Proper use is outlined in your OWNER'S MANUAL).
- Alteration, tampering or improper repair.
- Installation of non-Nissan approved accessories or components.
- Improper installation of any Nissan approved or aftermarket accessory or component.
- Glass breakage, unless resulting from defects in material or workmanship.

**ALTERED OR UNCERTAIN ODOMETER MILEAGE**

This warranty does not cover repair of any vehicle or any part of a vehicle of which the odometer mileage has been altered, or the odometer repaired or replaced and the actual vehicle mileage cannot be correctly and readily determined.

**SALVAGE TITLE**

This limited warranty does not apply to any vehicle, and is rendered void if the vehicle is (or ever has been) issued a "salvage" or similar title under any state's law; or has ever been determined to be a "total loss" or equivalent by any insurance company, such as by payment of a cash payment of claim in lieu of repairs because of a determination that the cost of repairs exceeded the actual cash value of the vehicle.

**DAMAGE, FAILURES OR CORROSION FROM ENVIRONMENTAL CONDITIONS**

This warranty does not cover damage, failure or corrosion resulting from:

- Stone chipping, chemical fallout (acid rain), tree sap, salt, hail, wind-storm, lightning, flood or other environmental conditions.
- The items listed below are not covered under corrosion coverage (perforation from corrosion).

- Exhaust system components.
- Corrosion of outer trim parts, such as moldings. However, corrosion of outer trim parts is warranted for 12 months or 12,000 miles, whichever comes first.
- Corrosion other than perforation, such as cosmetic or surface corrosion due to defects in materials or workmanship. This is covered under the Basic Coverage of the New Vehicle Limited Warranty.
- Special bodies or equipment not manufactured or supplied by Nissan.

**DAMAGE, FAILURES OR CORROSION DUE TO LACK OF OR IMPROPER MAINTENANCE**

This warranty does not cover damage, failure or corrosion resulting from:

- Lack of performance of proper maintenance services as outlined in your NISSAN SERVICE & MAINTENANCE GUIDE.
- Use of improper or dirty fuel, fluids or lubricants.
- Use of parts not equivalent in quality or design to parts supplied by Nissan.

**MAINTENANCE SERVICE EXPENSE**

This warranty does not cover normal maintenance services as specified in your NISSAN SERVICE & MAINTENANCE GUIDE such as engine tune-up; cleaning and polishing; wheel alignment; headlight aiming; replacement of filters; replacement of windshield wiper inserts, lubricants, coolant; worn brake shoes, pads, drums and rotors and worn clutch discs.

**SEAT BELTS, TIRES, TRUCK BEDLINERS, AND EMISSION CONTROL SYSTEM**

Seat belts, tires, truck bedliners, and the emission control system are not covered by this warranty, but are covered by separate warranties.

(See following pages for separate warranties which may apply to your Nissan, such as those covering vehicle emissions, seat belts, and tires.)

## WHAT IS COVERED

Nissan\* warrants to correct defects in materials or workmanship in all genuine Nissan replacement parts, Genuine NISMO S-tune parts, and Genuine Nissan accessories, distributed by Nissan North America in the Continental United States, installed and used on Nissan or Infiniti (if an appropriate use and application of the part, accessory, or Genuine NISMO S-tune part) vehicles only, except as described under the caption below, "WHAT IS NOT COVERED."

This warranty covers any repairs needed to correct defects in materials or workmanship.

\*Nissan indicates Nissan North American, Inc., P.O. Box 791, Gardena, California 90248-0791 which distributes and provides consumer services for Nissan Vehicles in the Continental United States.

## HOW LONG IS THE WARRANTY

Except for replacement audio components, this warranty is for 12 months or 12,000 miles from the date of installation or purchase, whichever is earlier. However, the warranty on Genuine Nissan replacement parts, Genuine NISMO S-tune parts, and Genuine Nissan accessories installed in a Nissan or Infiniti vehicle while the vehicle is covered by a Nissan warranty, which would have covered the part had it been installed in the vehicle at manufacture, will not end before the end of that warranty.

## REPLACEMENT AUDIO COMPONENTS

A replacement Radio, Tape Deck, Amplifier or Compact Disc Player/Auto Changer or Cellular Phone supplied by Nissan is covered for 12 months/ unlimited mileage from the time of installation or the balance of the Basic Vehicle Warranty as it applies to audio components, whichever is greater.

## WHAT IS NOT COVERED

This warranty does not cover:

1. Tires, batteries, or truck bedliners. These items are covered by separate warranties.
2. Nissan Motorsports and NISMO R-tune parts, including NISMO Legacy parts are sold "AS IS" without warranties, express or implied unless expressly prohibited from doing so by applicable law, in which case the warranty provided is the minimum required by law.
3. Normal maintenance service and parts replacement as outlined in the maintenance schedule of your OWNER'S MANUAL.
4. Damage or failures of parts resulting from:
  - Misuse (your OWNER'S MANUAL is your guide to proper use).
  - Accident, theft, fire, driving through water resulting in engine water ingestion.
  - Chemical fallout, tree sap, salt, sand, hail, flood or other environmental conditions.
  - Modification or improper repair of the part or of the vehicle in which the part is installed.
  - Use of parts not equivalent in quality or design to parts supplied by Nissan.
  - Lack of performance of required maintenance services as outlined in your OWNER'S MANUAL.
  - Use of improper or dirty fuel, fluids or lubricants.
5. SALVAGE TITLE. This warranty does not cover damage, failures or corrosion to any Nissan replacement part, GENUINE NISMO S-Tune Part, or Genuine Nissan Accessory, installed in the vehicle, if the vehicle is issued a "salvage" or similar title. (This exclusion does not extend to new Genuine Nissan

replacement parts, NISMO S-tune parts or Genuine Nissan accessories, installed in a Nissan or Infiniti vehicle after the issuance of a "salvage" or similar title.)

## WHAT YOU MUST DO

In order to obtain warranty service you must deliver the warranted part or accessory, or the vehicle, on which the part or accessory is installed, to an authorized Nissan or Infiniti dealer in the United States or Canada at your expense with proof of purchase (parts invoice or service repair order from an authorized Nissan or Infiniti dealer). The names and addresses of authorized Nissan and Infiniti dealers are listed in telephone directories.

You must also pay for labor charges to remove and replace the part or accessory if it was not originally installed on your vehicle by an authorized Nissan or Infiniti dealer.

## WHAT NISSAN WILL DO

If the part or accessory to be repaired was originally installed by an authorized Nissan or Infiniti dealer, it will be removed and reinstalled after repair at no charge for parts and labor. If the part or accessory was not installed by an authorized Nissan or Infiniti dealer, the part or accessory will be repaired or exchanged only. Any needed parts replacement or exchange will be made using new or remanufactured parts at Nissan's option.

(Continued on page 39)



**LIMITATION OF WARRANTIES AND  
OTHER WARRANTY TERMS AND  
STATE LAW RIGHTS**

**EXTRA EXPENSES - LIMITATIONS OF  
DAMAGES**

This warranty does not cover incidental or consequential damages such as loss of the use of the vehicle, inconvenience or commercial loss.

ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Nissan does not authorize any person to create for it any other warranty, obligation or liability in connection with this vehicle.

**ATTACHMENT I**

Security Plus service contracts

- Comprehensive protection.
- Designed for new Nissans.
- Backed by Nissan North America, Inc.
- Choice of deductible.
- Transferable if you sell your Nissan.
- Car rental.
- Towing.

NISSAN



THE  
SMART  
CHOICE™

**DISCLAIMER:**

THIS BROCHURE IS NOT A CONTRACT. THE BROCHURE CONTENT IS LIMITED BY SIZE. THE ENTIRE CONTRACT IS INCLUDED IN THE NISSAN SECURITY+PLUS SERVICE AGREEMENT. BE SURE TO READ YOUR SECURITY+PLUS SERVICE AGREEMENT AS ALL BENEFITS ARE SUBJECT TO THE LIMITATIONS, EXCLUSIONS, TERMS AND CONDITIONS OF THE SERVICE AGREEMENT.

**NOTICE:**

In compliance with federal laws, the contents of this brochure should be interpreted and understood within the meaning of a "Service Contract" as defined in Federal Law. (See 16 U.S.C. Sec. 2301 (B).)

\* In Florida, Security+Plus is backed by Nissan Extended Service Corporation, Inc., P.O. Box 181, Gardena, California 90248-0181. License #60062.

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NissanUSA.com

NNA-SQP-CBR-003  
0404, 609M

## THE BEST PROTECTION FOR YOUR NEW NISSAN

Nissan's Security+Plus Vehicle Protection Plan provides you with quality long-term mechanical protection and extra peace of mind.

It covers the most important components of your new Nissan: Engine, Transmission, Steering, Drive Axle Assembly, Electrical, and many more. Repairs to these parts can run as high as \$4000 or more. But with Security+Plus, if a covered part fails, Nissan pays...not you.

Unlike other service agreements, Security+Plus is exclusively for Nissan owners, and backed by Nissan North America, Inc.\*

**NISSAN SECURITY+PLUS: THE SMART CHOICE**

Nissan's Security+Plus Vehicle Protection Plan is designed for new Nissan vehicles—by Nissan—and offers you:

**Cost-effective coverage** up to 7 years, or 100,000 miles, to protect your investment. Guards against loss from the escalating cost of major repairs (including parts and labor).

**Nationwide Nissan repair** at Authorized Nissan dealerships by Nissan-trained technicians. No payment hassles because the dealer is paid directly by Nissan.

**Customer Assistance** available throughout the United States. Just contact your nearest Nissan dealer, or call us at 1-800-NISSAN-1.

**Optional terms of coverage** (years and miles) to fit your driving needs, and an optional zero or \$50 deductible for each eligible component repair.

**Transfer Security+Plus** to a new owner if you sell your Nissan before coverage expires.\*\*

**Convenient and economical coverage**, costing only pennies a day. Your Nissan dealer will be happy to explain the various financing options available to you.

The cost of **genuine Nissan replacement parts** is included for covered repairs—not inferior substitutes.

With over 1550 vehicle components covered, Security+Plus Gold is as close to your Nissan Limited Warranty as you can get.

The Gold Plan's unprecedented level of coverage extends to virtually every aspect of your vehicle's mechanical performance, including the newest high-tech systems. (See inside of brochure).

For added protection and convenience, **Towing and Car Rental Reimbursement** benefits are included.

**Nine Time and Mileage options** to fit your driving needs:

48 months/48,000 miles

48 months/60,000 miles

60 months/60,000 miles

60 months/75,000 miles

60 months/100,000 miles

72 months/75,000 miles

72 months/100,000 miles

84 months/70,000 miles

84 months/100,000 miles

**Security+Plus Gold...a truly superior protection package!**

\* In Florida, Security+Plus is backed by Nissan Extended Service Corporation, Inc., P.O. Box 181, Gardena, California 90248-0181. License # 60062.

\*\* A nominal transfer fee may apply. For details, please refer to the Security+Plus Service Agreement or contact your local Nissan dealer.

GOLD

THE SECURITY+PLUS GOLD PLAN COVERS ALL MAJOR COMPONENTS\*

Security+Plus

THE NISSAN WARRANTY



**ENGINE**

All internal and external engine components including the entire lubrication system and the cooling system. All manifolds, turbochargers and related components. All engine electrical parts. All emission control components. All seals and gaskets.



**TRANSMISSION**

**Automatic Transmission:** All internal and external components including torque converter, flex plate, and all electrical components. All seals and gaskets.

**Manual Transmission:** All internal and external parts. All seals and gaskets.



**DRIVE AXLE**

**Four Wheel Drive Transfer Case:** All internal and external parts. All seals and gaskets.

**Differential:** All internal and external parts. All seals and gaskets.



**STEERING**

All internal and external parts including bushings and bearings. All seals and gaskets.



**BRAKES**

All internal and external parts including ABS (Anti-Lock Braking System) components. All seals and gaskets.



**SUSPENSION**

All internal and external parts including bushings and bearings. All seals and gaskets.



**ELECTRICAL**

All electrical components including wiring harness repairs.



**NISSAN AIR CONDITIONER**

All internal and external parts. All seals and gaskets.

**TOWING**

Reimbursement up to \$100 when required due to the failure of a covered part.

**CAR RENTAL**

Reimbursement for car rental expenses, based on flat-rate repair time, up to \$35 per day, and \$140, 4 days maximum.

\* **COVERAGE SO EXTENSIVE THAT ONLY A FEW ITEMS ARE NOT COVERED:** Maintenance services, tires, wheel balance and alignment, battery, spark plugs and wires, fluids (unless required with covered repair), belts and hoses, wiper blades, A/C recharge (unless required with covered repair) and/or conversion of the A/C system to operate on R134, lubricants and filters (unless required with covered repair), disc brake rotors and drums, brake pads, MacPherson strut inserts/shock absorbers, clutch friction disc and pressure plate, throw out bearing, audio equipment, lenses and bulbs, sealed beams, carpet and upholstery, trim, moldings, glass, bright metal, wheels, body sheet metal, exhaust system, paint and rust, squeaks and rattles, water leaks, wind noise, any component of an electrically-powered vehicle, any and all in-vehicle communications systems, immobilizer key, remote keyless switch assembly, air bag sensors, and all items not covered by the Nissan Limited Warranty or Emissions Warranty. For complete information concerning components covered, and those components which are excluded from coverage, please refer to the Security+Plus Service Agreement or contact your local Nissan dealer.

**OVER 1550 COMPONENTS COVERED**

**ENGINE**

Engine & Internal Components	81
Lubrication & Cooling System	47
Fuel System	81
Manifolds & Turbocharger	37
Engine Electrical	39
Emission Controls	38
Fuel Injection	58
<b>ENGINE SUBTOTAL:</b>	<b>361</b>

**POWER TRAIN**

Clutch, Transmission, Transaxle & Transfer Case	822
Differential & Propeller Shafts	59
<b>POWER TRAIN SUBTOTAL:</b>	<b>381</b>

**STEERING, SUSPENSION, BRAKES**

Steering System	92
Axles & Suspension	154
Brakes	80
<b>STEERING, SUSPENSION, BRAKES SUBTOTAL:</b>	<b>326</b>

**OTHER COMPONENTS**

Electrical	182
Heater & Air Conditioner	110
Body & Interior Components	200
Towing	YES
Car Rental	YES
<b>OTHER COMPONENTS SUBTOTAL:</b>	<b>492</b>
<b>TOTAL</b>	<b>1550</b>

**NISSAN**



# Security+Plus

THE BEST PROTECTION FOR YOUR NEW NISSAN

- Comprehensive protection.
- 24-hour Roadside Assistance.\*
- Trip Interruption.
- Designed for new Nissans.
- Backed by Nissan North America, Inc.
- Choice of deductible.
- Transferable if you sell your Nissan.
- Car rental.
- Towing.

## NISSAN

### DISCLAIMER:

THIS BROCHURE IS NOT A CONTRACT. THE BROCHURE CONTENT IS LIMITED BY SIZE. THE ENTIRE CONTRACT IS INCLUDED IN THE NISSAN SECURITY+PLUS SERVICE AGREEMENT. BE SURE TO READ YOUR SECURITY+PLUS SERVICE AGREEMENT AS ALL BENEFITS ARE SUBJECT TO THE LIMITATIONS, EXCLUSIONS, TERMS AND CONDITIONS OF THE SERVICE AGREEMENT.

### NOTICE:

In compliance with federal laws, the contents of this brochure should be interpreted and understood within the meaning of a "Service Contract" as defined in Federal Law. (See 15 USCS Sec. 2301 (b).)

Roadside Assistance services are administered by Cross Country Motor Club, Inc., Boston, Mass. 02155-6918, except in Alaska, California, Oregon, Wisconsin, and Wyoming where services are provided by Cross Country Motor Club of California, Inc., Boston, Mass. 02155-6918.

\*In Florida, Security+Plus is backed by Nissan Extended Service Corporation, Inc., P.O. Box 181, Gardens, California 90248-0181. License #00062.



GOLD PREFERRED

## THE SMART CHOICE™



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 Nissan USA, Inc.

NNA-SCP-CBR-001  
 0404, 120M

### THE BEST PROTECTION FOR YOUR NEW NISSAN

Nissan's Security+Plus Vehicle Protection Plan provides you with quality long-term mechanical protection, 24-hour Roadside Assistance and extra peace of mind.

It covers the most important components of your new Nissan: Engine, Transmission, Steering, Drive Axle Assembly, Electrical, and many more. Repairs to these parts can run as high as \$4000 or more. But with Security+Plus, if a covered part fails, Nissan pays...not you.

Unlike other service agreements, Security+Plus is exclusively for Nissan owners, and backed by Nissan North America, Inc.

### NISSAN SECURITY+PLUS: THE SMART CHOICE

Nissan's Security+Plus Vehicle Protection Plan is designed for new Nissan vehicles—by Nissan—and offers you:

**Cost-effective coverage** up to 7 years, or 100,000 miles, to protect your investment. Guards against loss from the escalating cost of major repairs (including parts and labor).

**Nationwide Nissan repair** at Authorized Nissan dealerships by Nissan-trained technicians. No payment hassles because the dealer is paid directly by Nissan.

**Customer Assistance** available throughout the United States. Just contact your nearest Nissan dealer, or call us at 1-800-NISSAN-1.

**Optional terms of coverage** (years and miles) to fit your driving needs, and an optional zero or \$50 deductible for each eligible component repair.

**Transfer Security+Plus** to a new owner if you sell your Nissan before coverage expires.\*\*

**Convenient and economical coverage**, costing only pennies a day. Your Nissan dealer will be happy to explain the various financing options available to you.

The cost of **Genuine Nissan replacement parts** is included for covered repairs—not inferior substitutes.

Security+Plus Gold Preferred provides the ultimate in comprehensive mechanical protection for your new Nissan. With over 1550 vehicle components covered, Security+Plus Gold Preferred is as close to your Nissan Limited Warranty as you can get.

The Gold Preferred Plan's unprecedented level of coverage extends to virtually every aspect of your vehicle's mechanical performance including the newest high-tech systems. And for extra protection and convenience, Towing, Car Rental Reimbursement, Trip Interruption, and Roadside Assistance benefits are included.

Seventeen Term and Mileage options to fit your driving needs:

- 24 months/40,000 miles
- 36 months/40,000 miles
- 36 months/45,000 miles
- 36 months/50,000 miles
- 36 months/55,000 miles
- 36 months/60,000 miles
- 36 months/65,000 miles
- 42 months/42,000 miles
- 42 months/53,000 miles
- 48 months/48,000 miles
- 48 months/50,000 miles
- 60 months/60,000 miles
- 60 months/75,000 miles
- 60 months/100,000 miles
- 72 months/75,000 miles
- 72 months/100,000 miles
- 84 months/70,000 miles
- 84 months/100,000 miles

### Security+Plus Gold Preferred is just what the name implies...the best!

\*\* A nominal transfer fee may apply. For details, please refer to the Security+Plus Service Agreement or contact your local Nissan dealer.

\*In Florida, Security+Plus is backed by Nissan Extended Service Corporation, Inc., P.O. Box 181, Gardens, California 90248-0181. License #00062.

GOLD PREFERRED

THE SECURITY+PLUS GOLD PREFERRED PLAN COVERS ALL MAJOR COMPONENTS\*

Security+Plus

VEHICLE PROTECTION PLAN

### ENGINE

All internal and external engine components including the entire lubrication system and the cooling system. All manifolds, turbochargers and related components. All engine electrical parts. All emission control components. All seals and gaskets. Belts and hoses.

### TRANSMISSION

**Automatic Transmission:** All internal and external components including torque converter, flex plate, and all electrical components. All seals, gaskets and hoses.

**Manual Transmission:** All internal and external parts. All seals and gaskets.

### DRIVE AXLE

**Four Wheel Drive Transfer Case:** All internal and external parts. All seals and gaskets.

**Differential:** All internal and external parts. All seals and gaskets.

### STEERING

All internal and external parts including bushings and bearings. All seals and gaskets. Belts and hoses.

### BRAKES

All internal and external parts including ABS (Anti-lock Braking System) components. All seals, gaskets and hoses.

### SUSPENSION

All internal and external parts including bushings and bearings. All seals and gaskets.

### ELECTRICAL

All electrical components including wiring harness repairs.

### NISSAN AIR CONDITIONER

All internal and external parts. All seals and gaskets. Belts and hoses.

### TOWING

Reimbursement up to \$100 when required due to the failure of a covered part or simply call the dedicated 24-hour toll free assistance hotline to arrange for towing service to the nearest Nissan dealership up to \$100 per incident.

### CAR RENTAL

Reimbursement for car rental expenses, based on flat-rate repair time, up to \$35 per day, and \$175, 5 days maximum.

\* COVERAGE SO EXTENSIVE THAT ONLY A FEW ITEMS ARE NOT COVERED: Maintenance services, tire, wheel balance and alignment, battery, spark plugs and wires, fluids (unless required with covered repair), wiper blades, A/C recharge (unless required with covered repair) and/or conversion of the A/C system to operate on R134, lubricants and filters (unless required with covered repair), disc brake rotors and drums, brake pads, MacPherson strut inserts/shock absorbers, clutch friction disc and pressure plate, throw out bearing, audio equipment, lenses and bulbs, sealed beams, carpet and upholstery, trim, moldings, glass, bright metal, wheels, body sheet metal, exhaust system, paint and rust, squeaks and rattles, water leaks, wind noise, any component of an electrically-powered vehicle, any and all in-vehicle communications systems, immobilizer key, remote keyless switch assembly, air bag sensors, and all items not covered by the Nissan Limited Warranty or Emissions Warranty. For complete information concerning components covered, and those components which are excluded from coverage, please refer to the Security+Plus Service Agreement or contact your local Nissan dealer.

OVER 1500 COMPONENTS COVERED

### ROADSIDE ASSISTANCE

In addition to comprehensive mechanical protection, your Security+Plus Gold Preferred Plan offers you the additional peace of mind that comes from 24-hour emergency roadside assistance benefits. In addition to towing, these benefits include:

**Emergency Road Service:** On-site assistance for minor mechanical disablement such as: jump start, flat tire change (with your good spare), delivery of small amounts of gas or other fluids, and other minor repairs.

**Emergency Lockout Service:** On-site repair by an authorized locksmith/lockout service if you lose/break your keys, or if your keys are accidentally locked inside your vehicle.

**"Sign and Drive" Service:** To ensure the maximum in customer convenience, most of these services are provided at no cost to you. (Up to a maximum of \$100 per claim. Deductibles do not apply to Roadside Assistance services.) Simply sign the service invoice, and continue on to your destination.

### TRIP INTERRUPTION

If your vehicle is inoperable due to a covered mechanical breakdown, and you are more than 100 miles from home, your Gold Preferred Plan provides you with trip interruption coverage that includes reimbursement for meals, lodging and alternative transportation, up to \$500 per incident. (Note: Prior authorization from the toll-free assistance center is required.)

NISSAN

**ATTACHMENT J**

Communications to Dealers

**SERVICE BULLETIN**

Classification:

BT04-014

Reference:

NTB04-053

Date:

June 23, 2004

**CUSTOMER SATISFACTION INITIATIVE****APPLIED VEHICLE:** 2004 Quest (V42)**APPLIED VINS:** Refer to Chart A (page 3)**NOTE:** You **MUST** use Service Comm to confirm:

- Bulletin Applicability
- Which upgrades contained in this bulletin need to be performed

For a list of upgrades contained in this bulletin see Chart A (page 3).

**SERVICE INFORMATION**

As part of Nissan's commitment to continually improve both the quality and durability of our products, Nissan is offering owners of 2004 Quests the opportunity to have their vehicle upgraded with a number of production changes that have been incorporated in Quests manufactured after their vehicle was produced. With this Quest Customer Satisfaction Initiative, all Nissan dealers are authorized to perform these service upgrades at no cost to the customer. This Customer Satisfaction Initiative is intended to address any related symptoms a Quest customer may currently be experiencing and, to maximize the driving experience of Quest owners by preventing the related symptoms from occurring in the future.

In order to take advantage of Nissan's Quest Customer Satisfaction Initiative, Nissan Quest owners must contact their Nissan dealer and schedule a service appointment. This Initiative will expire on June 30, 2005, and all related service and upgrades must be completed no later than June 30, 2005.

These upgrades fall into three areas: squeaks and rattles; ease of component operation; and an air conditioning label replacement. The upgrades will include the installation of a noise reduction kit for the sliding doors and structural insulation in the body above the rear door. Additionally, the driver power window switch; shifter lever; 2nd row seat levers; throttle pedal; and ball studs that mount the rear door support struts will be replaced. The reading lamps will be modified to improve operation and an A/C servicing label will be replaced with a new one.



## **SERVICE INFORMATION (Cont'd)**

Depending upon when a specific Quest vehicle was manufactured, one or more of these improvements may already have been installed in the vehicle. Use Service Comm to determine the specific actions required for a vehicle that enters your service area for any reason. Some vehicles may also be affected by the Quest Front Passenger Occupant Detection System (ODS) and the Quest Power Sliding Door Recall Campaign. It is important that you check Service Comm when a Quest owner contacts your dealership to schedule an appointment and, based on the repairs required for the specific vehicle, inform the customer of the length of time the vehicle will be at your dealership.

Nissan is taking this action to ensure Quest owners have continued satisfaction with their vehicle. Please encourage Nissan Quest owners who may be affected by the Quest Customer Satisfaction Initiative to take advantage of this opportunity to improve the performance and durability of their Quest vehicle.

**Chart A**

Service Procedure	PNC	VIN:		Affected Vehicles	Affected Models	Description	See Page
		5N1BV					
		From	To				
A	B0123	300000		43,155	All	Inspect/Upgrade Rear Hatch Hinge Area	6
B	B0115	300000		45,278	All	Replace Rear Hatch Strut Bell Studs	12
C	B0116	300000		18,692	All	Replace A/T Shift Handle	13
D	B0117	300008		3,575	"S"	Replace Driver Door Switch Module	15
E	B0114	300000		36,354	All	Replace Second-Row Seat Adjustment Handles	17
F	B0120	300000		1,756	All	Replace Accelerator Pedal	19
G	B0119	300000		7,452	"S" & "SL"	Upgrade Personal Roof Lamps	21
H	B0121	300888		1,587	All	Install New A/C Specification Label	22
J	B0122	300000		45,741	All	Sliding Door Squeak and Rattle Upgrade	23

**NOTE:** The service procedures jump from "H" to "J". There is no service procedure "I".

## PARTS INFORMATION

### B0114

DESCRIPTION	PART NUMBER	QUANTITY
Second-Row Seat Adjustment Handle (Color Code "K")	88346-5Z000	2
Second-Row Seat Adjustment Handle (Color Code "C")	88346-5Z001	2
Second-Row Seat Adjustment Handle (Color Code "G")	88346-5Z002	2

### B0115

DESCRIPTION	PART NUMBER	QUANTITY
Rear Hatch Strut Ball Stud	90456-7Z010	4

### B0116

DESCRIPTION	PART NUMBER	QUANTITY
A/T Shift Handle	34910-CK007	1

### B0117

DESCRIPTION	PART NUMBER	QUANTITY
Driver Door Control Panel Switch Module	25401-5Z002	1 **

### B0119

No Parts Required		
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### B0120

DESCRIPTION	PART NUMBER	QUANTITY
Accelerator Pedal Assembly	18005-5Z000	1 **

### B0121

DESCRIPTION	PART NUMBER	QUANTITY
A/C Label	27090-5Z001	1 **

### B0122

DESCRIPTION	PART NUMBER	QUANTITY
Sliding Door Squeak and Rattle Kit	82308-5Z000	1

### B0123

DESCRIPTION	PART NUMBER	QUANTITY
Adhesive Cartridge / Mixing Nozzle	60910-5Z000*	1 (per vehicle)

\* Order from your local Parts Distribution Center (PDC).

\*\* Do NOT over-order these parts as only a limited number of vehicles are affected. See Chart A (page 3) for the number of affected vehicles.

## CLAIMS INFORMATION

For each upgrade performed, submit a separate "CM" line claim using the following claims coding information, as appropriate:

"CM" I.D.: B0114

DESCRIPTION	OP CODE	FRT
RPL 2 <sup>nd</sup> ~ Row Seat Adjustment Handles	B01140	0.2 hrs

"CM" I.D.: B0115

DESCRIPTION	OP CODE	FRT
RPL Rear Hatch Strut Ball Studs	B01150	0.2 hrs

"CM" I.D.: B0116

DESCRIPTION	OP CODE	FRT
RPL A/T Shifter Handle	B01160	0.2 hrs

"CM" I.D.: B0117

DESCRIPTION	OP CODE	FRT
RPL Driver Door Control Panel Switch Module	B01170	0.2 hrs

"CM" I.D.: B0119

DESCRIPTION	OP CODE	FRT
Upgrade Roof Lamps	B01190	0.4 hrs

"CM" I.D.: B0120

DESCRIPTION	OP CODE	FRT
RPL Accelerator Pedal	B01200	0.2 hrs

"CM" I.D.: B0121

DESCRIPTION	OP CODE	FRT
RPL A/C Label	B01210	0.2 hrs

"CM" I.D.: B0122

DESCRIPTION	OP CODE	FRT
Install Sliding Doors Squeak & Rattle Kit	B01220	1.6 hrs

"CM" I.D.: B0123

DESCRIPTION	OP CODE	FRT
Apply Structural Adhesive To Rear Hatch Hinge Areas	B01230	0.4 hrs

## SERVICE PROCEDURES

### Procedure A (B0123) - Inspect/Upgrade Rear Hatch Hinge Area

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

#### Inspect Rear Hatch Hinge Area

1. Open the Rear Hatch.
2. Inspect the painted sheet metal surface directly behind (towards the rear of vehicle) each Hinge for crack(s). See Figure A1.

**NOTE:** Use a florescent light to inspect the painted sheet metal surface.

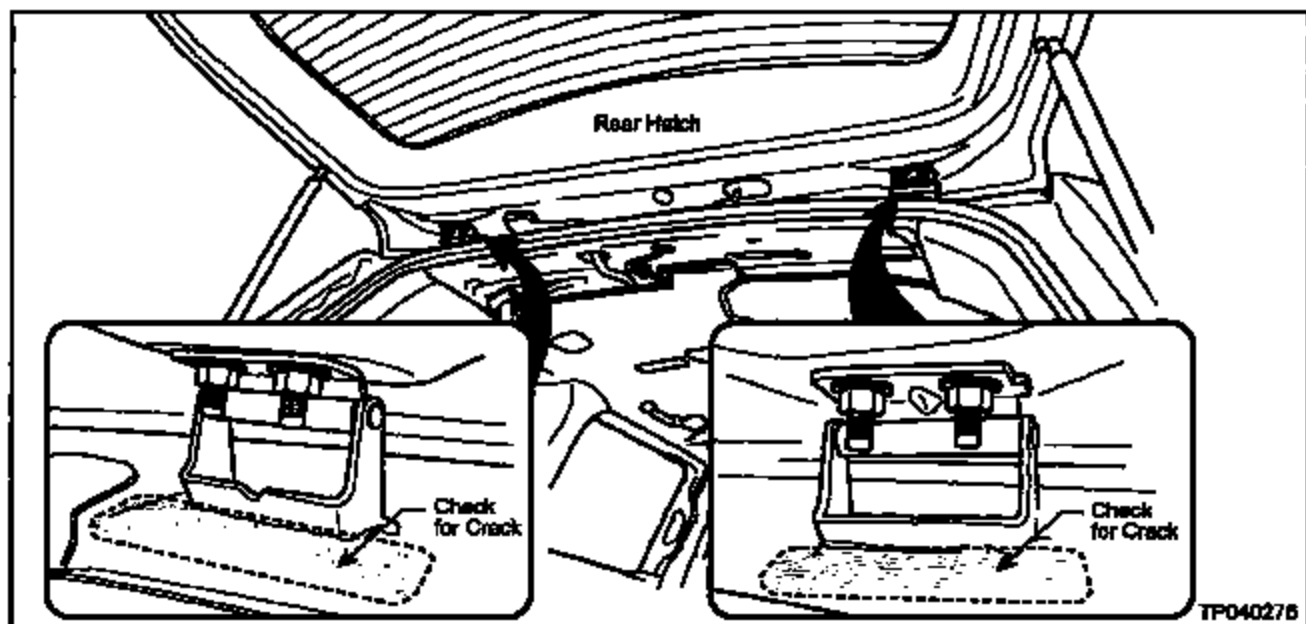


Figure A1

- a. If there is **NO** cracking:
  - Go to the **Apply Structural Adhesive** procedure (next page).
- b. If there is cracking:
  - Call the NNA Assurance Products Claims Call Center for claims authorization.
  - Send the vehicle to the body shop.
  - Then go to the **Apply Structural Adhesive** procedure (next page).

**NOTE:** Make sure all of the applicable upgrades in this bulletin are performed on the vehicle either before or after the body shop activity is completed.

## Apply Structural Adhesive

### CAUTION:

- Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.
- Keep the Structural Adhesive from freezing and excessive heat (100°F).
- Be aware of the expiration date on the Structural Adhesive label.

1. Place some cloth fender covers over the rear area carpeting and rear bumper (see Figure A2).

- Place a clean shop rag on the fender cover. You will need a place to lay down the used adhesive cartridge nozzle and wood spreading stick.

2. Fold the third-row bench seat forward by pulling on the release handle located in the center, backside of the seat.

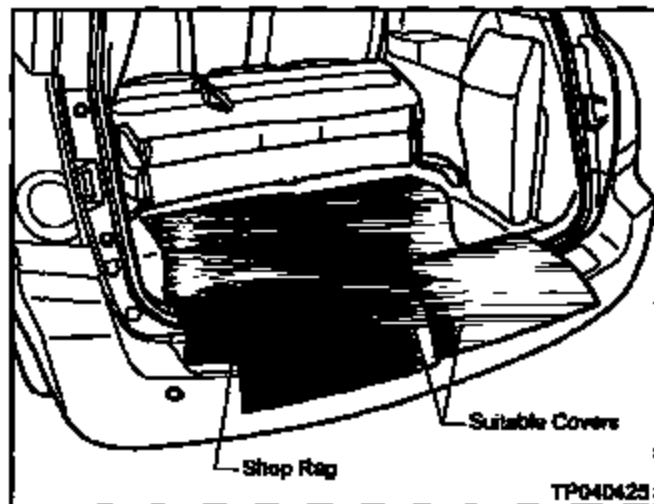


Figure A2

3. Remove the Upper Rear Roof Finisher as follows:

- a. Go to the Seat Belt that stretches from the roof to the third-row bench seat. Disconnect it from the seat buckle.
- b. Gently pull down on the Finisher to release the securing clips (see Figure A3).
- c. Guide the end of the Seat Belt (the one you just disconnected) up through the Finisher.
- d. Disconnect the Vehicle Harness from the Light in the Finisher (see Figure A3).

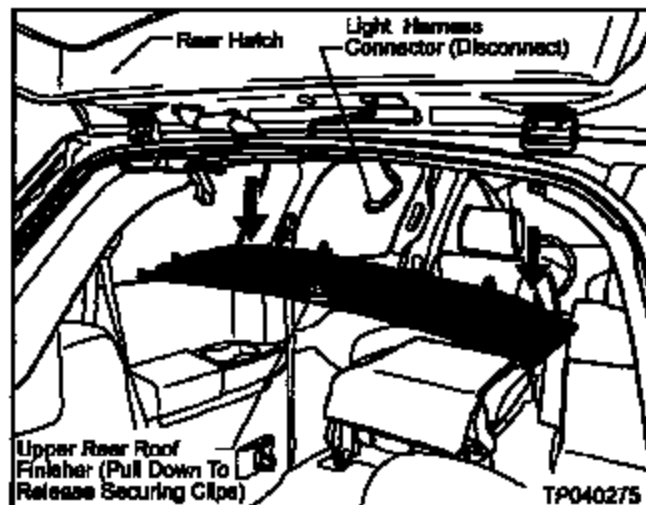


Figure A3

4. Going through the Hinge Mounting Access Holes (see Figure A4), use a clean shop towel to wipe the area around the Nuts/Bolts to remove any dust, dirt, and loose foreign material.
5. Apply protective masking tape:
  - To the bottom edges of the Side Finisher Panels (see Figure A4).
  - Over the Hinge Nuts/Studs (see Figure A4).
  - Around the Seat Belt and Buckle (see Figure A4).

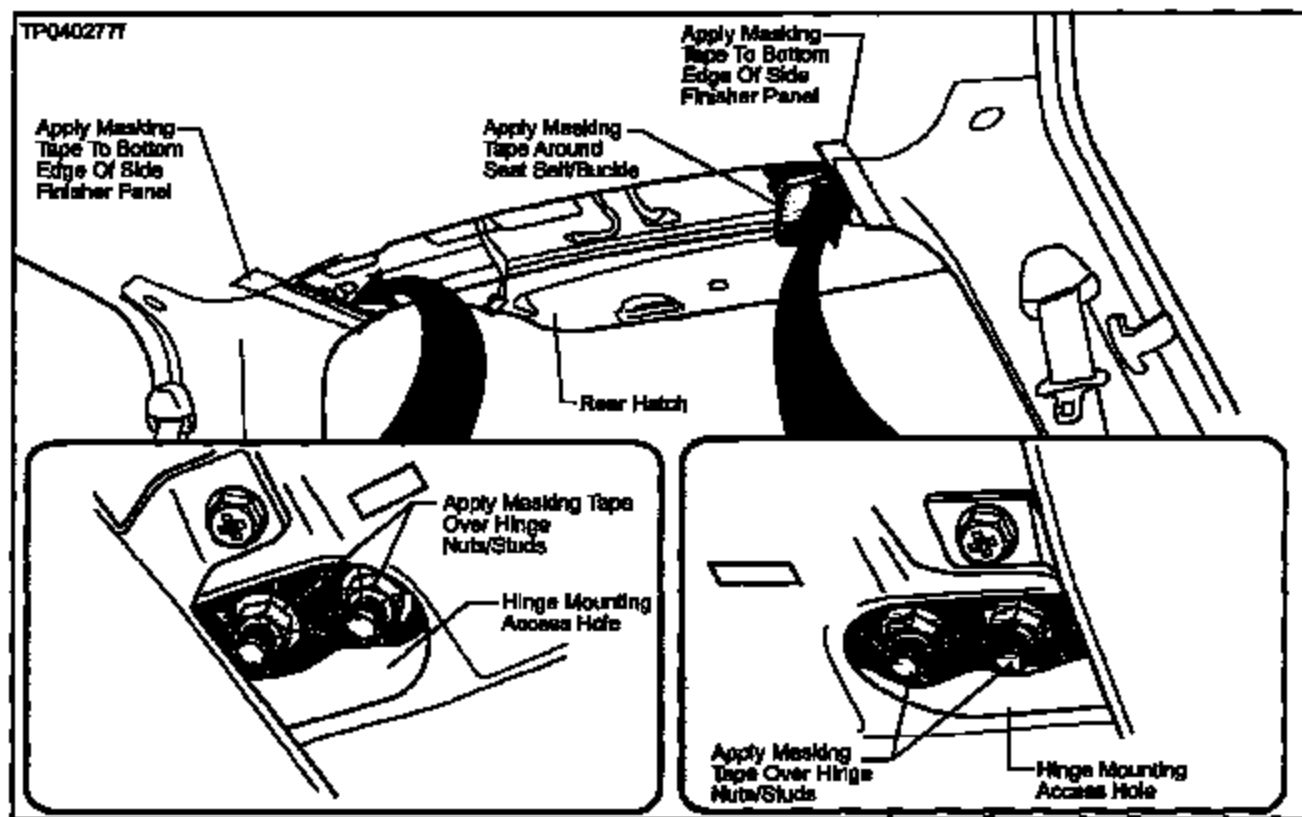


Figure A4

**CAUTION:** Use protective gloves and safety glasses, or a face shield when performing the following steps.

6. Prepare the Pneumatic Adhesive Gun (#J-47243) as follows:

- a. Remove the cap and break off the Adhesive Cartridge Seal Tip (see Figure A5).
- b. Screw the Mixing Nozzle onto the end of the Adhesive Cartridge.

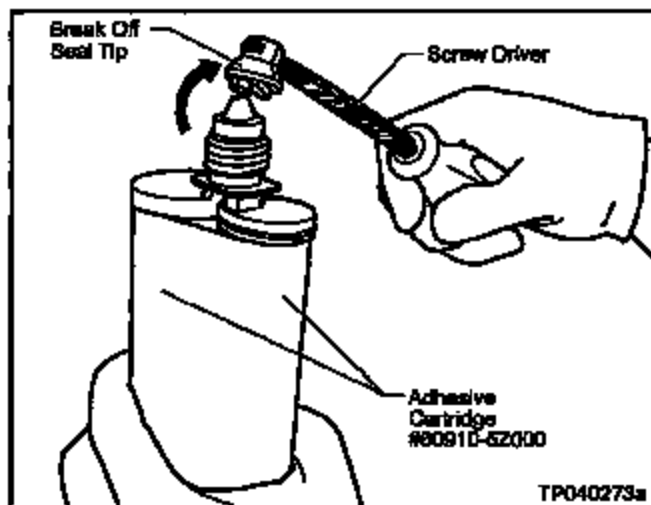


Figure A5

- c. Load the Adhesive Cartridge (with Mixing Nozzle) into the Pneumatic Adhesive Gun. See Figure A6.
- d. Connect shop air to the Pneumatic Adhesive Gun.
  - Make sure the shop supply air does NOT exceed 145 P.S.I.
- e. Set the Adjustment Knob (on the end of the Pneumatic Adhesive Gun) to the middle position. Adjust as needed from this point.

**CAUTION:** Make sure you wear suitable eye protection.

- f. Slowly pull the trigger on the Adhesive Gun to fill the Mixing Nozzle with adhesive (until the "Purge" section of the Adhesive Cartridge is pushed into the Mixing Nozzle). See Figure A6.

**IMPORTANT:** Use only the amount marked off as "Purge" to:

- Fill the Mixing Nozzle.
- Apply some adhesive to a piece of cardboard to make sure the mixture is correct.

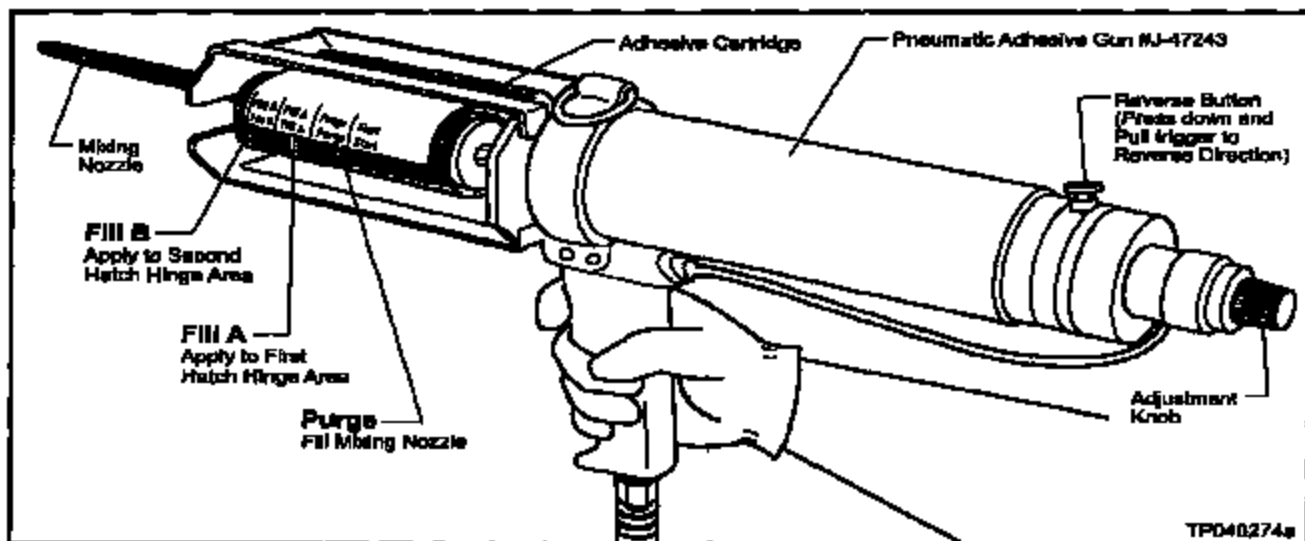


Figure A6

**NOTE:** To reverse the Adhesive Gun, press down on the Reverse Button and pull on the trigger.



7. Apply the Structural Adhesive #60910-5Z000 as follows:

**CAUTION:** Do NOT get the Adhesive on the:

- Hinge Nuts/Bolts (use masking tape to protect)
- Surrounding body sheet metal (use fender covers, etc. to protect)
- Interior panels, carpet, upholstery, etc. (use tape, fender covers, etc. to protect)

**Passenger Side Rear Hatch Hinge: (Use "Fill A" of Adhesive Cartridge ONLY)**

a. Going through the Hinge Mounting Access Hole, apply Adhesive until "Fill A" of the Cartridge is completely pushed out. See Figure A7.

- Make sure the Adhesive covers the edge of the Reinforcement (see Cross Section View in Figure A7).
- Use a wood stick (tongue depressor) to remove any voids (air pockets) and pack the adhesive around the back of the hinge. Do NOT get adhesive on Nuts/Studs.

**IMPORTANT:** When applying adhesive, make sure you leave enough room to get a socket wrench onto the Hinge Nuts (for future service work).

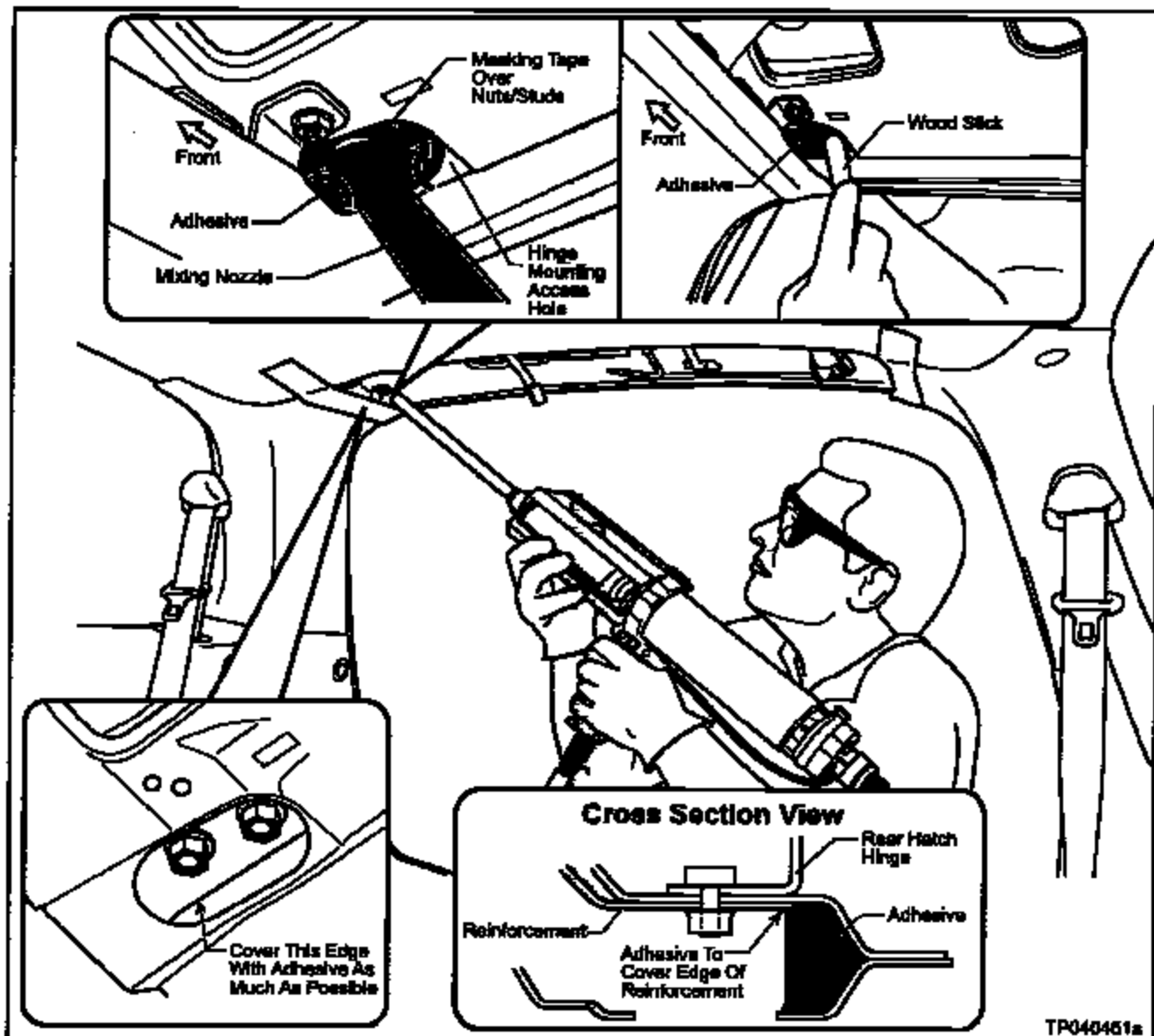


Figure A7

### Driver Side Rear Hatch Hinge: (Use "Fill B" of Adhesive Cartridge ONLY)

- a. Going through the Hinge Mounting Access Hole, apply Adhesive until "Fill B" of the Cartridge is completely pushed out. See Figure A8.
  - Make sure the Adhesive covers the edge of the Reinforcement (see Cross Section View in Figure A8).
  - Use a wood stick (tongue depressor) to remove any voids (air pockets) and pack the adhesive around the back of the hinge. Do NOT get adhesive on Nuts/Studs.

**IMPORTANT:** When applying adhesive, make sure you leave enough room to get a socket wrench onto the Hinge Nuts (for future service work).

8. Remove all masking tape.

9. Re-install the Upper Rear Roof Finisher in the reverse order it was removed.

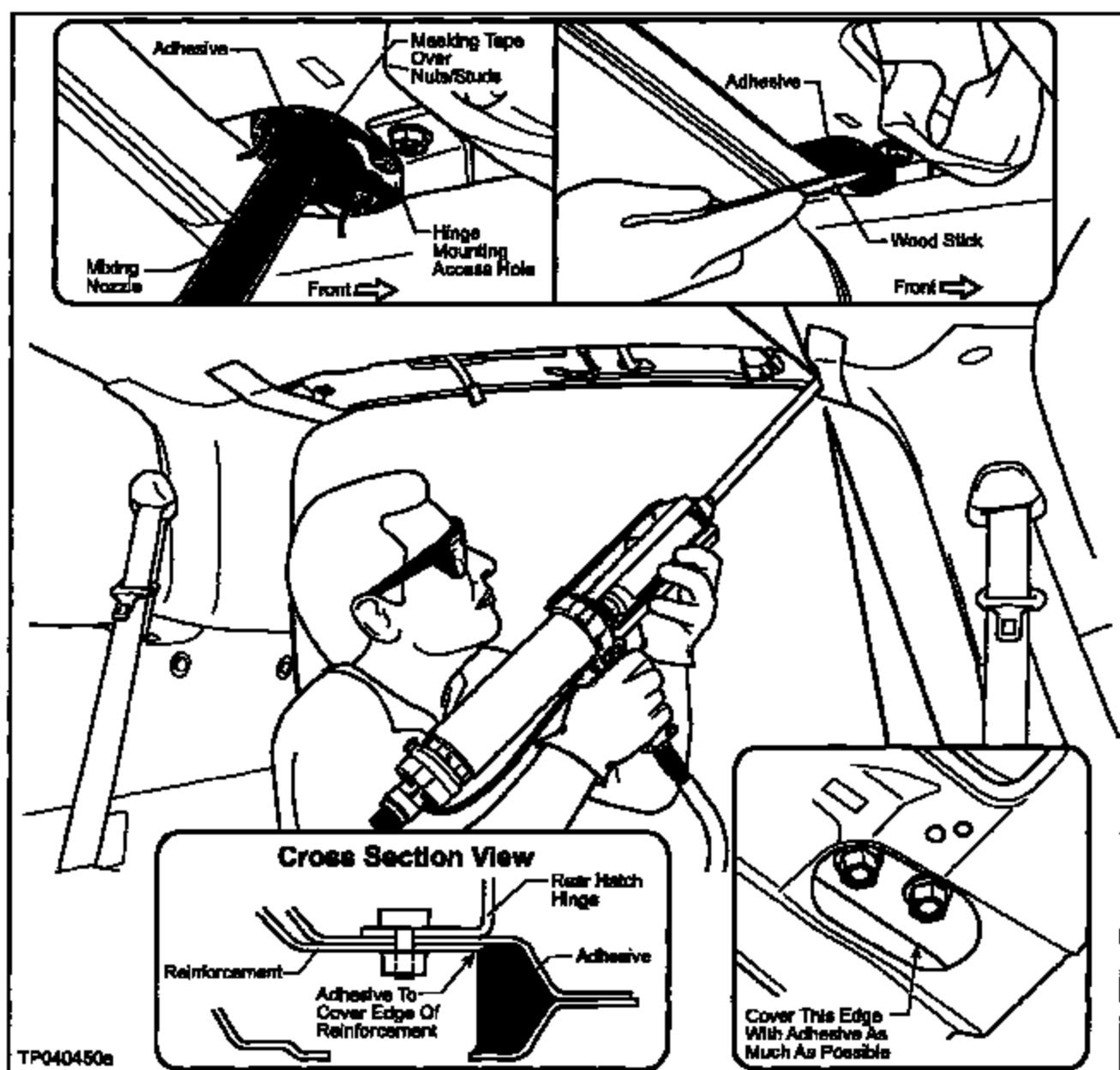


Figure A8

## **Procedure B (B0115) - Replace Rear Hatch Strut Ball Studs**

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

1. Replace all the Ball Studs for the left & right Rear Hatch Struts as follows:

**NOTE:** Perform the following procedure on one Rear Hatch Strut at a time.

- a. Open the Rear Hatch and insert a suitable support device (such as a Screw Jack) between the Hatch and the shop floor.

### **CAUTION:**

- Proper support is important: the weight of the Rear Hatch door requires two (2) fully charged Gas Filled Struts to hold it open. One (1) strut, even with the motor and arm attached (if applicable), will not hold the rear hatch door open.
- Be careful not to damage the paint and trim when inserting the support device.

- b. Use a small flat-blade screwdriver to carefully pry out (part way) the Spring Clip at both Strut Ball Joints (see Figure B1). Don't remove the Clips completely.

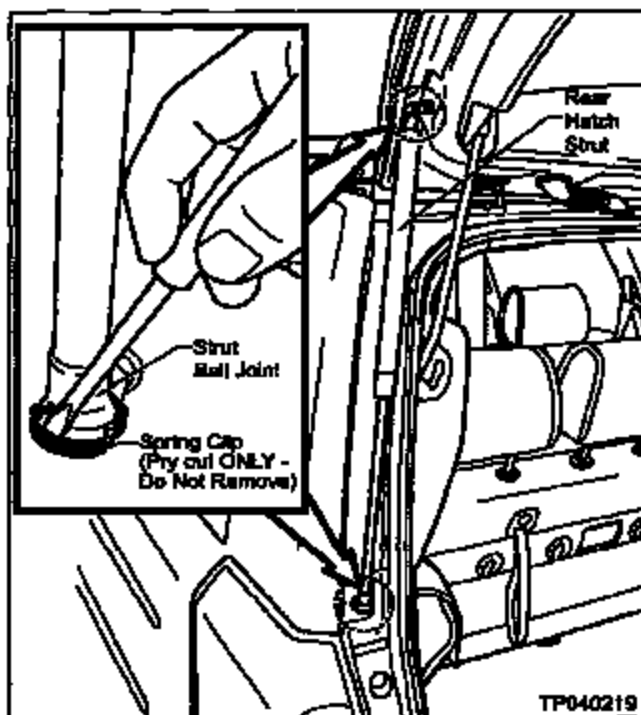


Figure B1

- c. Pull out (towards the rear of the vehicle) on the Strut Ball Joints to release it from the Ball Studs.
- d. Remove the Strut from the vehicle.

- e. Replace both Strut Ball Studs (see Figure B2).

- Remove any rubber sealant residue around the Body Threaded Hole.
- Tighten the Strut Ball Studs to:  
**15.7 - 18.6 N-m (1.6 - 1.9 kg-m,  
11.6 - 13.7 ft-lb).**

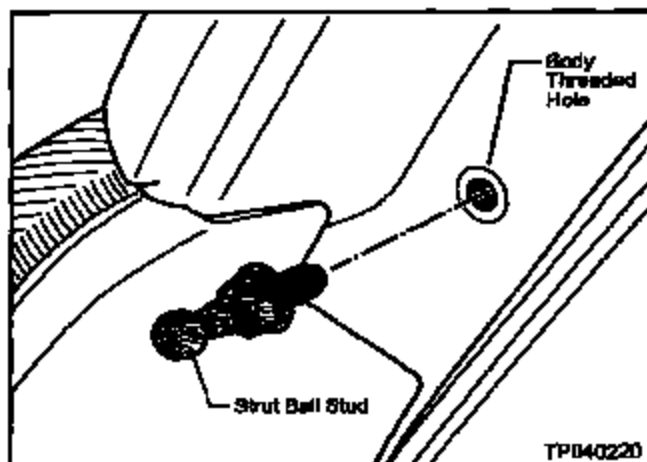


Figure B2

- f. Re-install the Rear Hatch Strut.

## **Procedure C (B0116) - Replace A/T Shift Handle**

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

1. Replace the A/T Shift Handle as follows:

- a. At the base of the A/T Shift Handle, slide the Plastic Cover down to reach the Release Clip (see Figure C1).

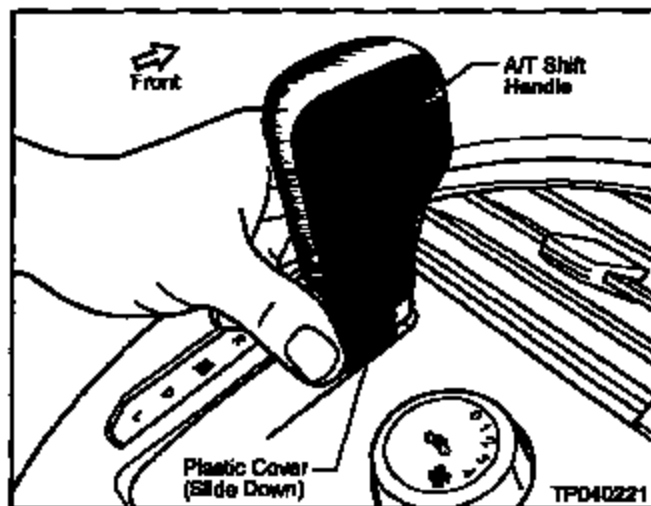


Figure C1

- b. Use a small flat blade screwdriver to carefully release the A/T Shift Handle Lock Clip (see Figure C2).

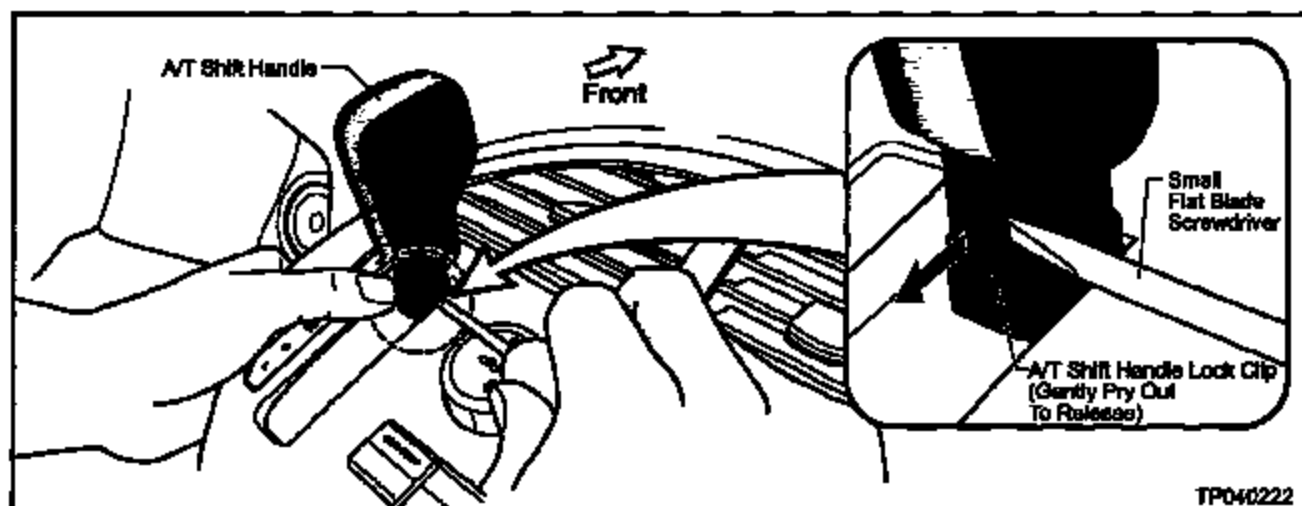


Figure C2

c. Now remove the A/T Shift Handle by lifting it straight UP (see Figure C3).

- Write "NG" on the old part and then discard it.

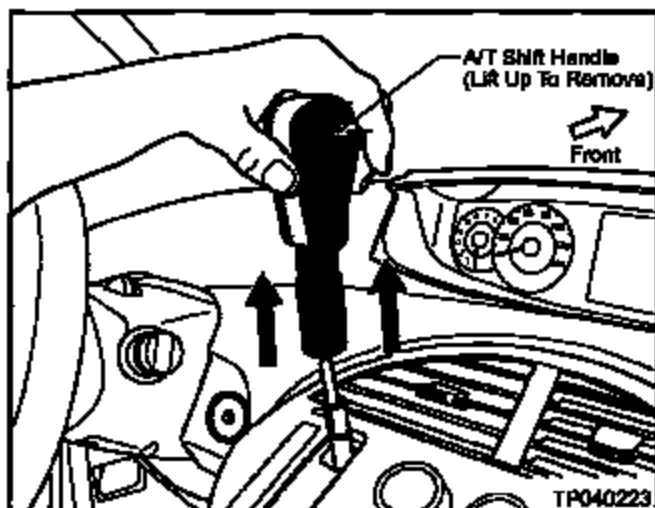


Figure C3

d. Install the new A/T Shift Handle.

- Press down on the new Handle until it "Clicks" (see Figure C4). The "Click" means that it is locked into position.
- At the base of the A/T Shift Handle, slide the Plastic Cover up so it covers the Release Clip.
- Confirm the new Shift Handle can not be removed by pulling up on it.
- Make sure the new Shift Handle operates properly and that all gears can be selected.
- Confirm the Over-Drive (O/D) Switch (on the A/T Shift Handle) operates properly.

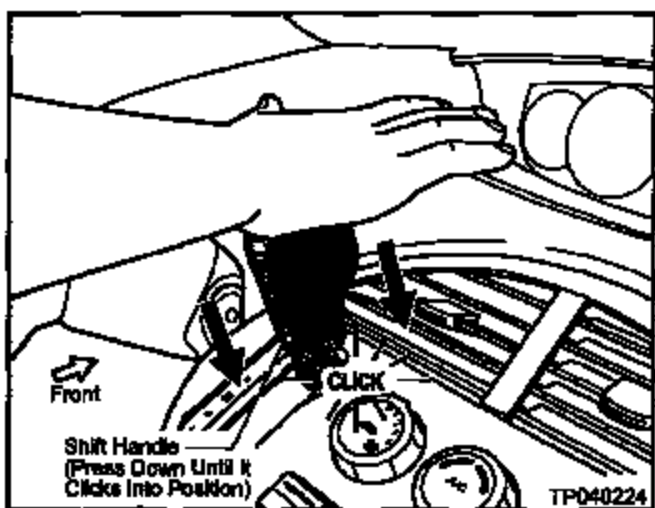


Figure C4

## Procedure D (B0117) - Replace Driver Door Switch Module

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

1. Replace the Driver Door Switch Module as follows:

- a. Remove the Plastic Cap and Screw from the Driver Door Switch Control Panel (see Figure D1).

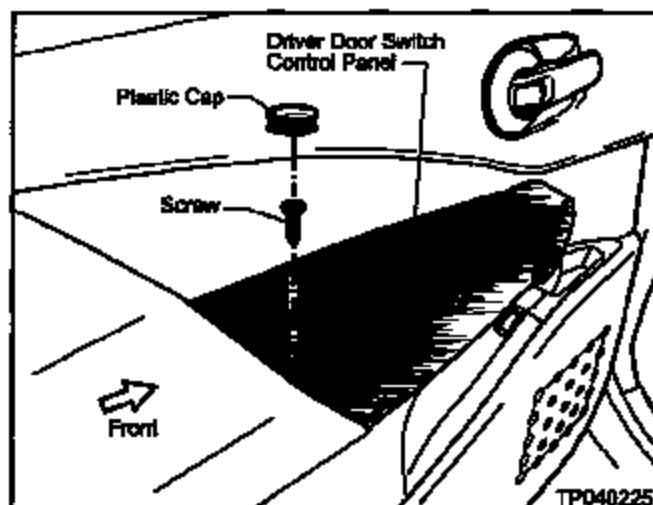


Figure D1

- b. Lift the rear of the Driver Door Switch Control Panel **UP** first. Then pull **REARWARD** to release the securing clip at the front of the panel. Turn the panel over and disconnect the Wire Harness Connectors (see Figure D2).

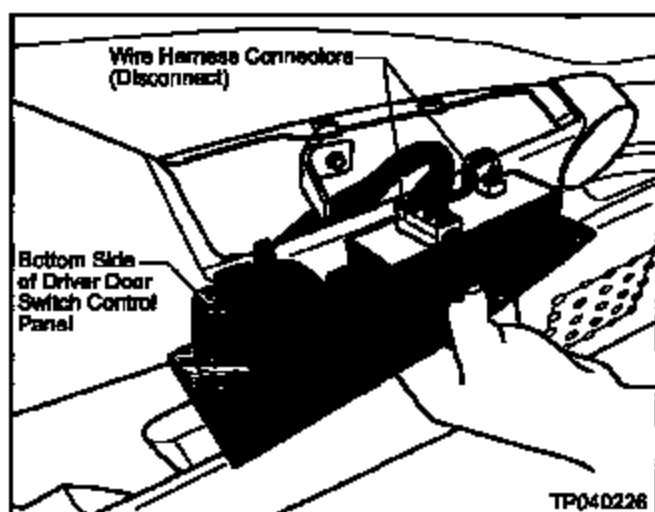


Figure D2

- c. Use a small flat blade screwdriver to release the four Plastic Clips from the Switch Module (see Figure D3).

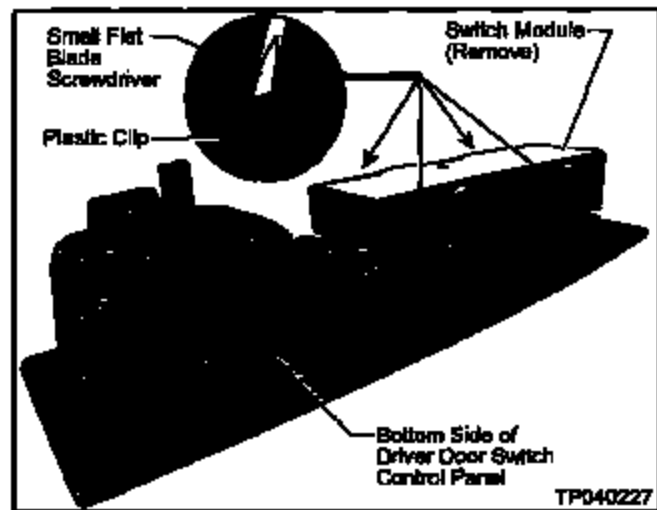


Figure D3

- d. Remove the Switch Module from the Control Panel (see Figure D4).
- Write "NG" on the old part and then discard it.
- e. Install the new Switch Module in the reverse order the old one was removed.
- f. Re-Install the Door Switch Control Panel in the reverse order you removed it.
- Make sure all the switches operate properly.

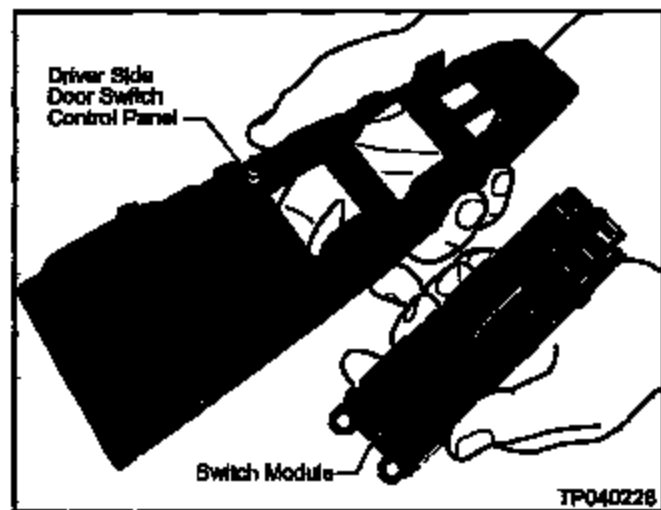


Figure D4

## **Procedure E (B0114) - Replace Second-Row Seat Adjustment Handles**

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

1. Move the second-row seats to the upright position.

2. Replace the Adjustment Handles as follows:

**NOTE:** Perform the following procedures on one Adjustment Handle at a time.

- a. Remove the Mounting Screw from the Inboard Seat Finisher, then release the Finisher from the attachment points (see Figure E1[A]).
- b. Carefully remove the Inboard Seat Finisher (see Figure E1 [B]).

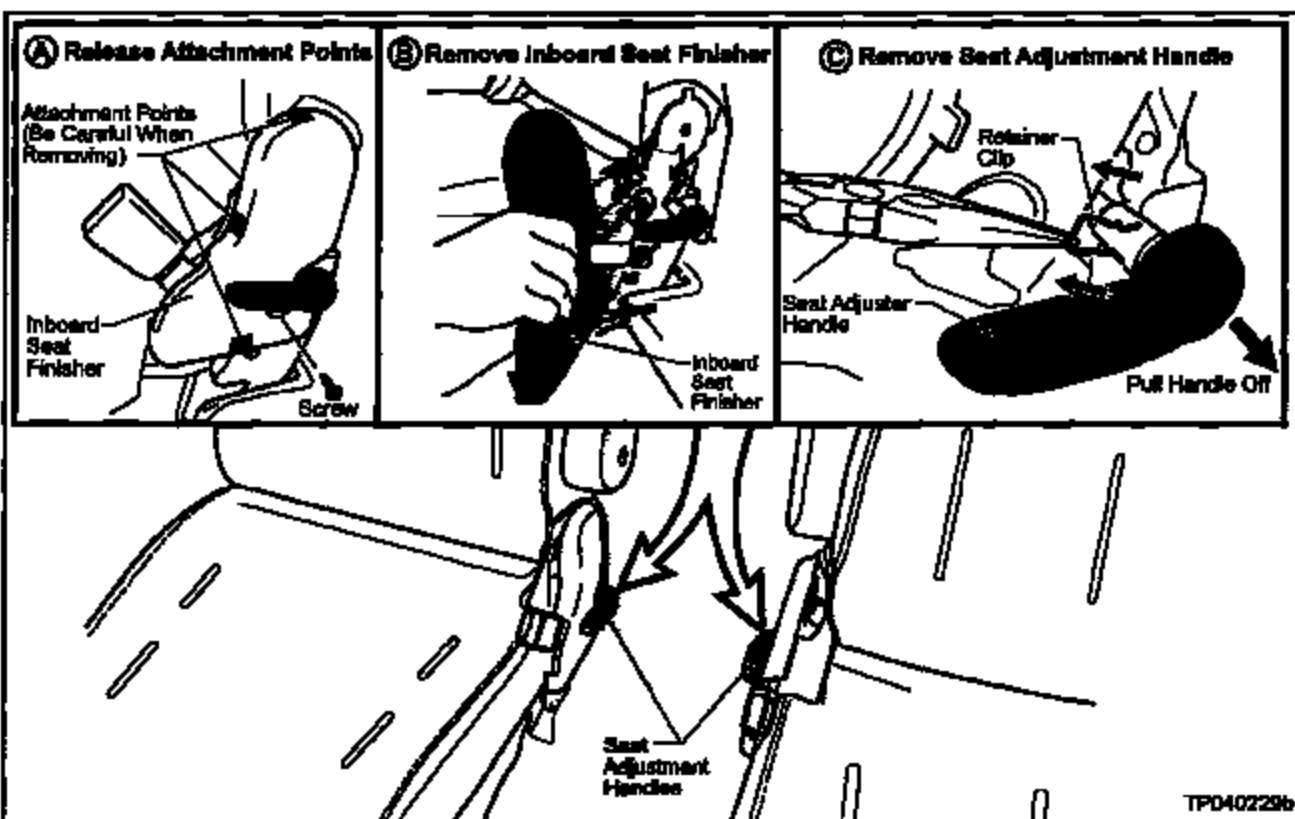


Figure E1

- c. Use needle nose pliers or a "hook" type tool to remove the Retainer Clip from the Seat Adjustment Handle. See Figure E1[C].
  - d. Carefully pull the Adjustment Handle off of the splined seat adjustment shaft. See Figure E1[C].
- Write "NG" on the old part and then discard it.



- e. Re-install the Inboard Seat Finisher and Screw.
- f. Install the new Adjustment Handle.
- Make sure the handle is properly positioned (points straight up). See Figure E2.
  - Then push the new handle onto the splined seat adjustment shaft until it clicks (locks) into place.

**NOTE:** The new Handle comes with a new Retainer Clip.

- g. Make sure the Adjustment Handle operates properly.

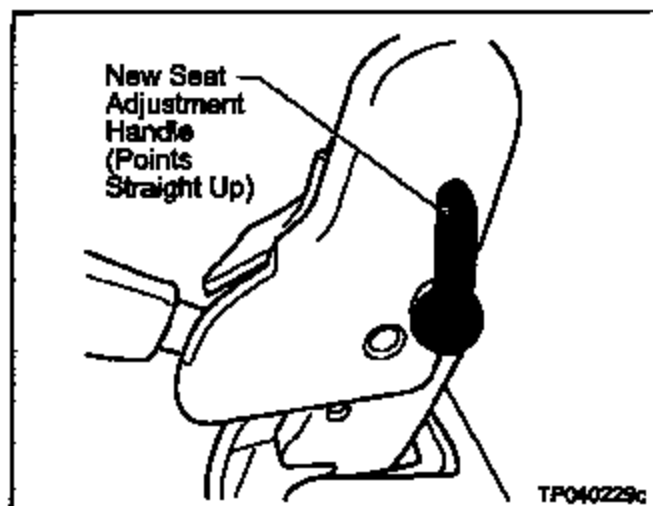


Figure E2

## **Procedure F (B0120) – Replace Accelerator Pedal**

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

### **Vehicles With Adjustable Foot Pedal Assembly**

**NOTE:** For vehicles without the Adjustable Foot Pedal Assembly, go to the next page.

1. Make sure the Ignition key is in the OFF position.
2. Use the Foot Pedal Adjustment Switch (see Figure F1) to move the Pedal Assembly all the way towards the FRONT of the vehicle.
3. Disconnect the Vehicle Harness Connector from the Electronic Throttle Control (ETC) Assembly (see Figure F2).
  - To release the connector, press the release button (on the connector). See Figure F2.
4. Use the Foot Pedal Adjustment Switch to re-position the Pedal Assembly as needed to remove the three ETC mounting Nuts and Bolts (next step).
5. Remove and discard the three ETC mounting Nuts and Bolts (see Figure F2).
6. Remove the ETC Assembly.
  - Write "NG" on the old part and then discard it.
7. Using the new Nuts and Bolts, install the new ETC Assembly.
8. Tighten the Nuts/Bolts to 7 - 11 N-m (0.71 - 1.12 kg-m, 5.16 - 8.11 ft-lb.).
9. Re-connect the Vehicle Wire Harness to the new ETC Assembly. Re-position Pedal Assembly as needed to do this.
10. Confirm the Adjustable Foot Pedal Assembly operates properly.
11. Start the vehicle and confirm the ETC properly operates.
12. Use Consult to check for stored Self Diagnosis APP SEN codes.
  - Clear codes P2122 and P2127, if present.

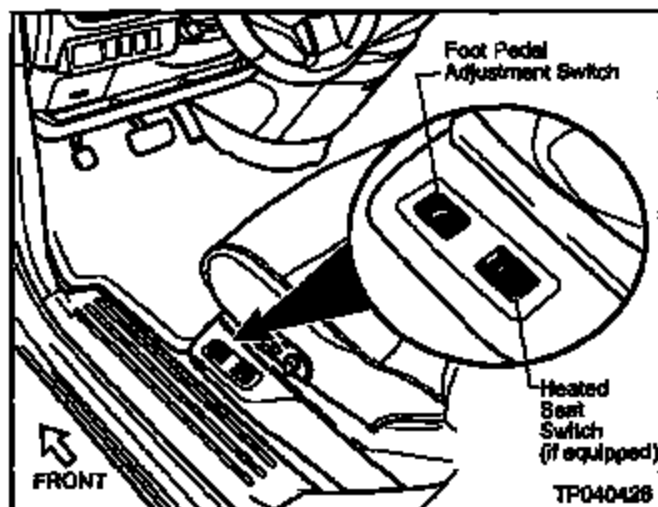


Figure F1

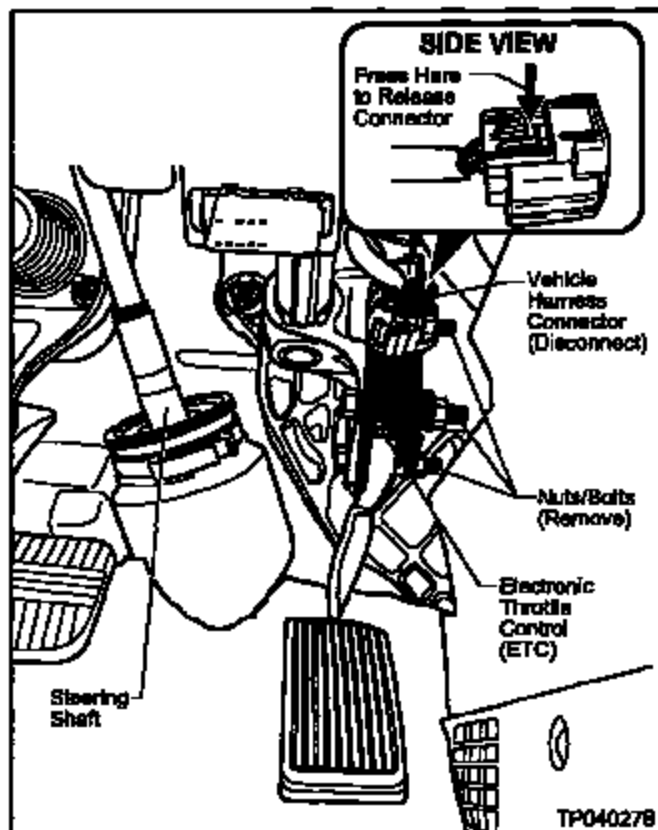


Figure F2

## **Vehicles Without Adjustable Foot Pedal Assembly**

1. Make sure the ignition key is in the OFF position.
2. Disconnect the Vehicle Harness Connector from the Electronic Throttle Control (ETC) Assembly (see Figure F3).
  - To release the connector, press the release button (on the connector). See Figure F3.
3. Remove and discard the three ETC mounting Nuts and Bolts (see Figure F3).

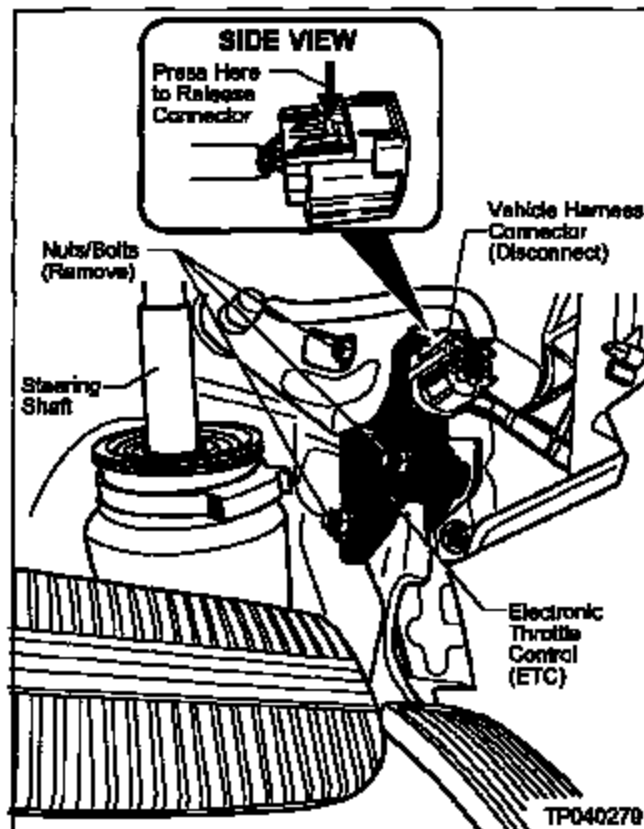


Figure F3

4. Remove the ETC Assembly.
  - Write "NG" on the old part and then discard it.
5. Using the new Nuts and Bolts, install the new ETC Assembly.  
**NOTE:** For ease of installation, the new top bolt can be installed in the reverse direction.
6. Tighten the Nuts/Bolts to 7 - 11 N-m (0.71 - 1.12 kg-m, 5.16 - 8.11 ft-lb.).
7. Re-connect the Vehicle Wire Harness to the new ETC Assembly.
8. Start the vehicle and confirm the ETC operates properly.
9. Use Consult to check for stored Self Diagnosis APP SEN codes.
  - Clear codes P2122 and P2127, if present.

## **Procedure G (B0119) – Upgrade Personal Roof Lamps**

Upgrade all four of the Personal Roof Lamps located in the head-liner as follows:

### **Lamp Upgrade (4 Lamps)**

1. Remove the Personal Lamp Assembly by carefully pulling it out of the headliner (see Figure G1).
2. Disconnect the Vehicle Harness from the Lamp Assembly.

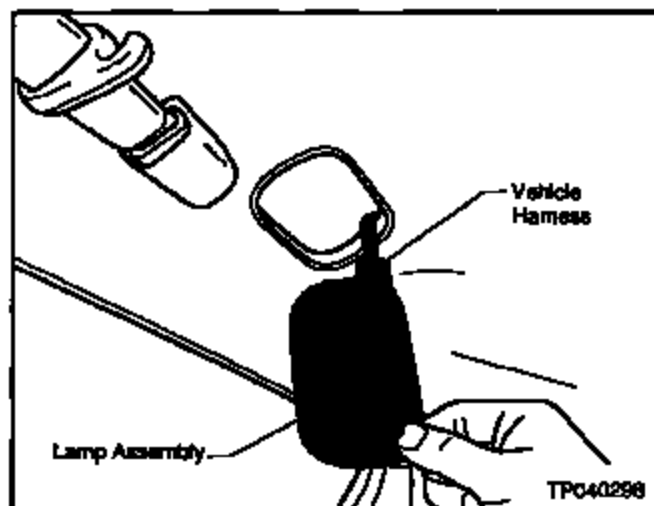


Figure G1

3. Use a small screwdriver to separate/open the circuit (on the Lamp) at the location shown in Figure G2.
  - First, pry off the Plastic Button (see Figure G2).
  - Then, bend the Metal Tab UP to create an open circuit (see Figure G2).
4. Re-install the Lamp Assembly.

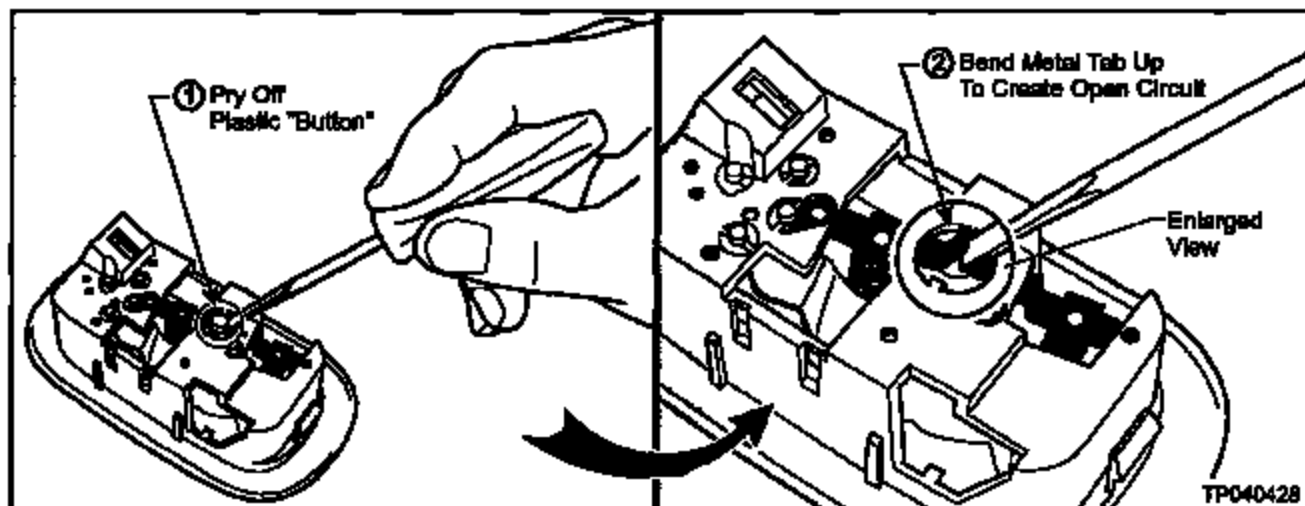


Figure G2

## Procedure H (B0121) – Install New A/C Specification Label

1. Install a new A/C Specification Label as follows (see Figure H1).
  - a. Clean the surface of the old A/C Specification Label with Isopropyl Alcohol and let it dry.
  - b. Install the new A/C Specification Label on top of the old label.

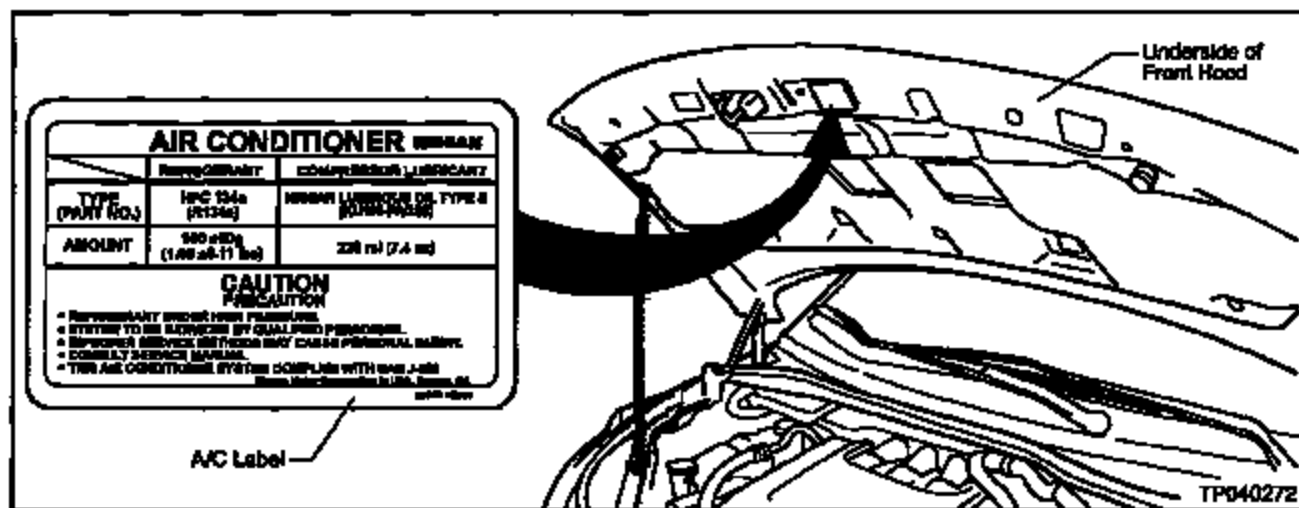


Figure H1

## Procedure J (B0122) - Sliding Door Squeak and Rattle Upgrade

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

Use the following procedure to install the below Sliding Door Squeak and Rattle Kit P/N 82308-5Z000 on both sliding doors.

**NOTE:** Do NOT perform this procedure:

- While the vehicle is on a hoist

OR

- Just after the vehicle was on a hoist

The vehicle must be driven and allowed to "settle" before performing this procedure.

**NOTE:** The parts contained in the Squeak and Rattle Kit are for BOTH sliding doors.

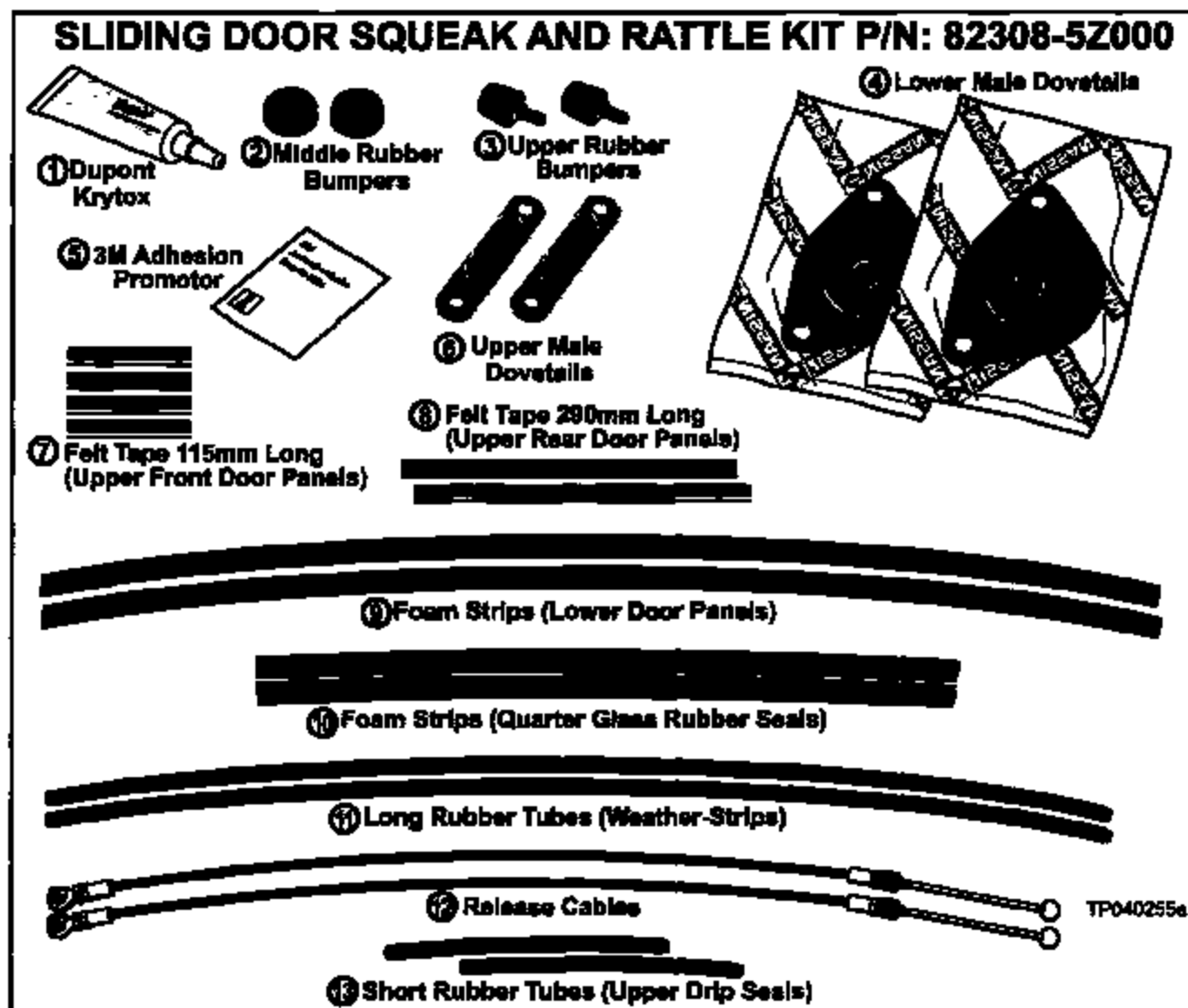


Figure J1

### Preliminary Steps (Steps 1 through 4 apply to "SL" and "SE" Models ONLY)

1. Write down all radio station presets.
2. Turn the ignition switch to the OFF position.
3. Turn the Power Sliding Door Main Power Switch to the OFF position (see Figure J2).
4. Disconnect the negative battery cable.

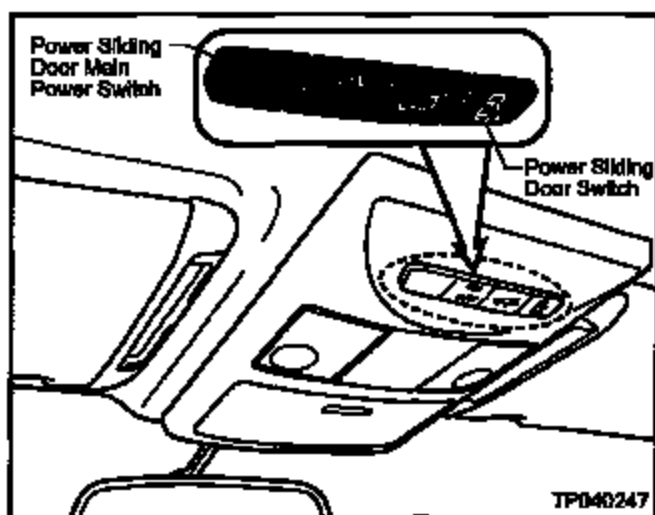


Figure J2

### Replace Rubber Bumpers

5. Open the Sliding Doors. Leave them open for now.
6. Remove and discard the Upper and Middle Rubber Bumpers (see Figure J3).
  - Use a counter-clockwise twisting and pulling motion to remove the old Rubber Bumpers.
7. Install the new Upper and Middle Rubber Bumpers from the kit (see #2 and #3 in Figure J1).
  - Apply some silicone lubricant to the backside of the new Rubber Bumpers to help with installation.
  - Use a clockwise twisting and pushing motion to install the new Rubber Bumpers.

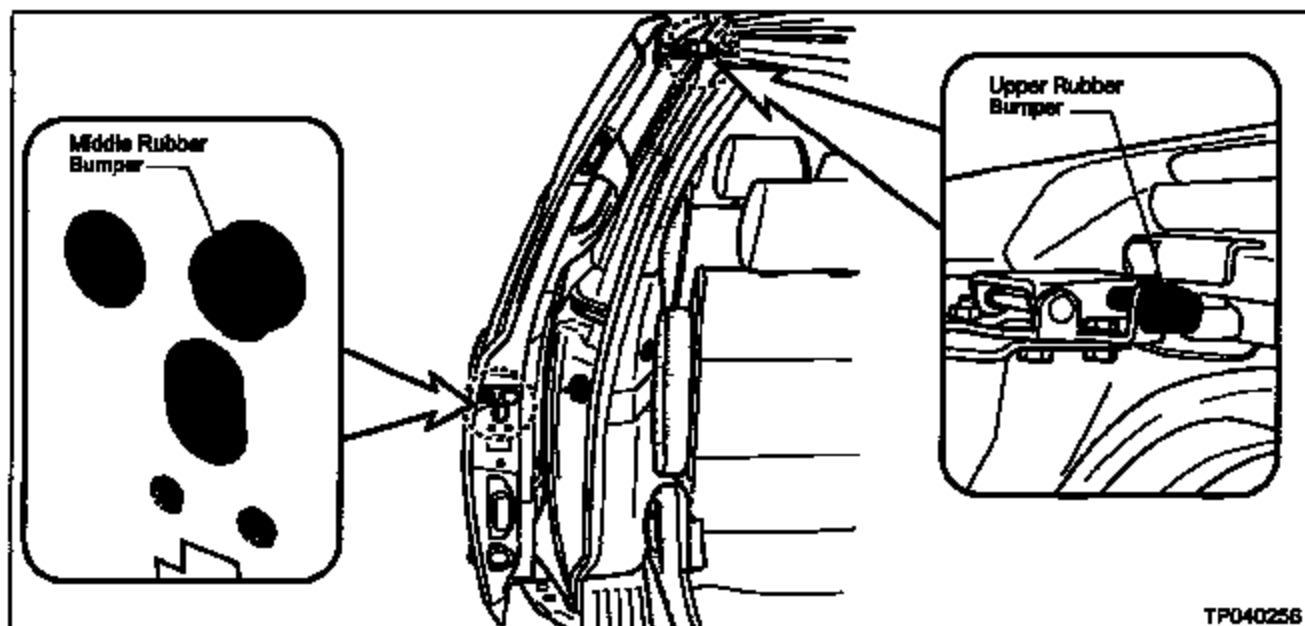


Figure J3

## Install Foam Strip To Underside Of Each Quarter Glass Front Edge Rubber Seal

8. Install the Foam Strip (#10 in Figure J1) to the underside of the Quarter Glass Front Edge Rubber Seal as follows:

### CAUTION:

- Do NOT get the Adhesion Promoter on the vehicle paint or interior trim, upholstery, etc. as permanent damage can occur.
- Refer to the attached Material Safety Data Sheets for proper use and handling.

**NOTE:** Perform the following steps on BOTH Quarter Glass Front Edge Rubber Seals at one time. The Adhesion Promoter applicator pad starts to dry out once the sealed packet is opened.

- a. Apply protective tape (such as masking tape) to the painted surface below/around the Rubber Seal (both sides).
- b. Wipe down the underside of the Rubber Seal with a clean, dry cloth to remove dust, dirt, and debris (both sides).
- c. Apply the Adhesion Promoter (see #5 in Figure J1) to the underside of the Rubber Seal (both sides). See Figure J4.
  - The Adhesion Promoter prepares the surface so the Foam Strip can be installed (next step).

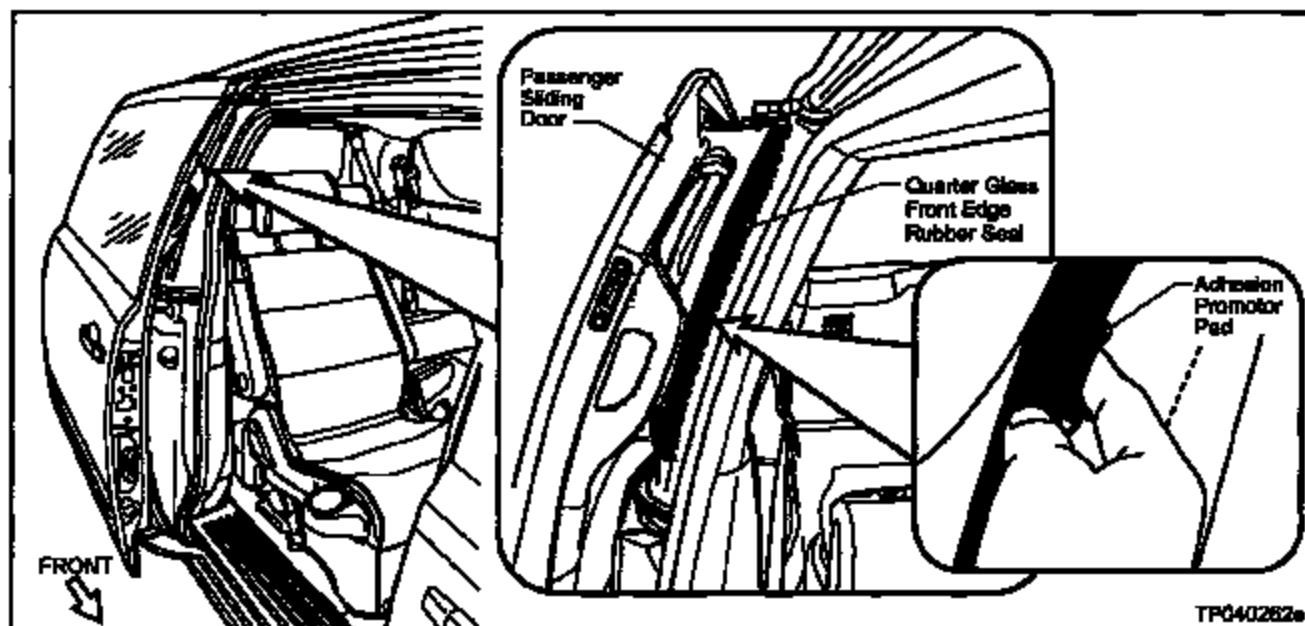


Figure J4



- d. After the Adhesion Promoter is dry to the touch, peel off the self-adhesive strip and install the Foam Strip (#10 in Figure J1) to the underside, front (leading) edge of the Rubber Seal (see Figure J5).

Make sure the Foam Strip:

- Is applied starting at the top of the Seal. See detail view in Figure J5.
- Follows the shape/angle (front edge) at the top of the Rubber Seal. See detail view in Figure J5.

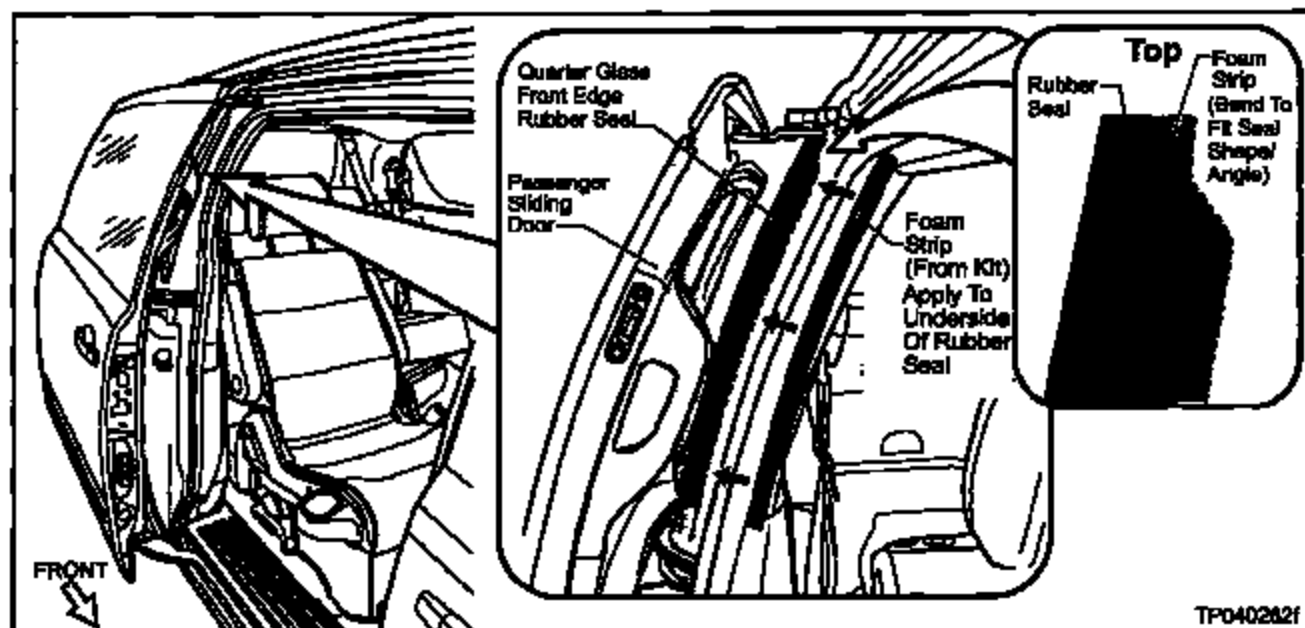


Figure J5

TP040282f

## Insert Rubber Tubes Into Sliding Door Weather-strip And Upper Body Drip Seal

9. At the existing Weather-Strip vent hole located below or to the rear (towards the rear of the vehicle) of the Body Hole, carefully cut a 6 mm long slot (towards the front of the vehicle). See Figure J6.

- You will be installing a Rubber Tube (from the kit) into this slot.

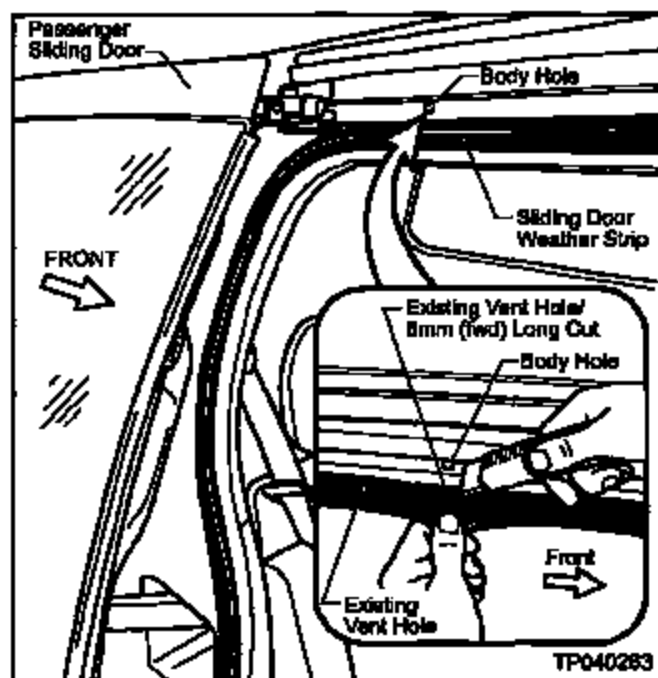


Figure J6

10. Squirt some Silicone Lubricant through the other Weather-strip Vent Hole (rearward of the hole you just cut) so the Rubber Tube can be easily inserted (see Figure J7).

### NOTE:

- Do NOT squirt the Silicone through the hole that you cut. You will be applying Weather-strip Cement to this location later.
- Squirt the silicone in the hole for about 2 seconds.

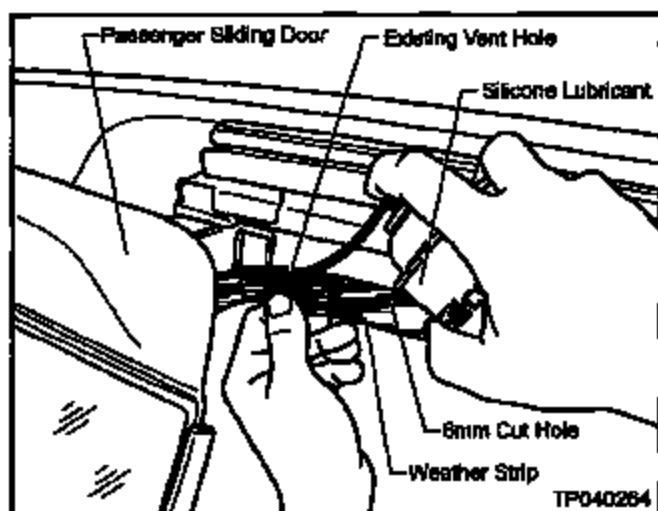


Figure J7

11. Cut both ends of the Long Rubber Tube (#11 in Figure J1) at a 45 degree angle (see Figure J8).

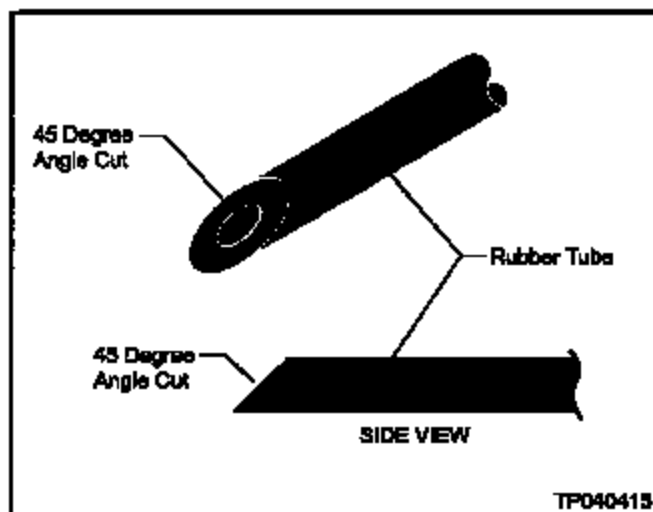


Figure J8

12. Insert the end of the tube through the cut hole and into the Weather-strip as shown in Figure J9.

- Make sure the end of the Rubber Tube is flush with the cut hole opening.

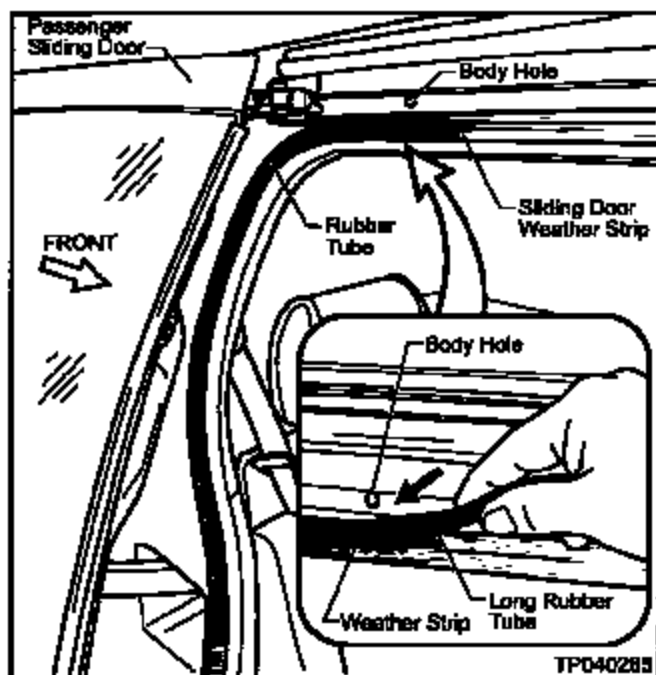


Figure J9

13. Apply Weather-strip Cement to the end of the Rubber Tube/cut hole (see Figure J10).

- Make sure you apply enough Cement to glue the Tube in place and fill the hole.
- Wipe off any excess visible cement for a "finished" surface look.

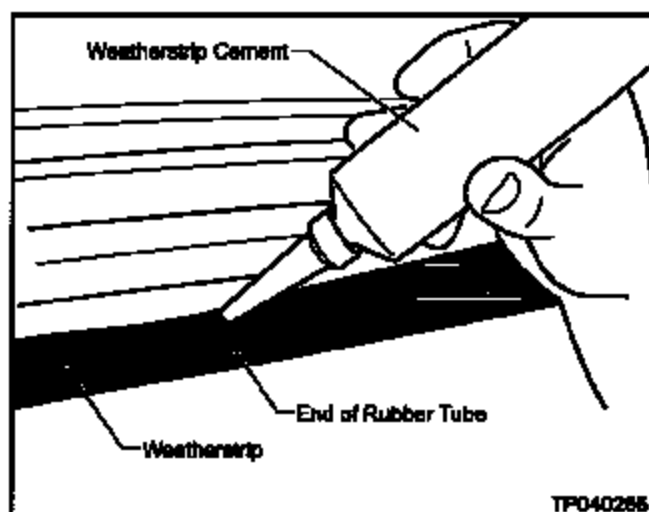


Figure J10

14. Cut one end of the short Rubber Tube (#13 in Figure J1) at a 45 degree angle, then insert the cut end of the tube into the end of the Upper Body Drip Seal as shown in Figure J11.

- Make sure the Rubber Tube does not hang out of the Drip Seal (see Figure J11).
- Apply Weather-strip Cement to the end of the Rubber Tube/Drip Seal.
- Make sure you apply enough Cement to glue the Tube in place and fill the hole.
- Wipe off any excess visible cement for a "finished" surface look.

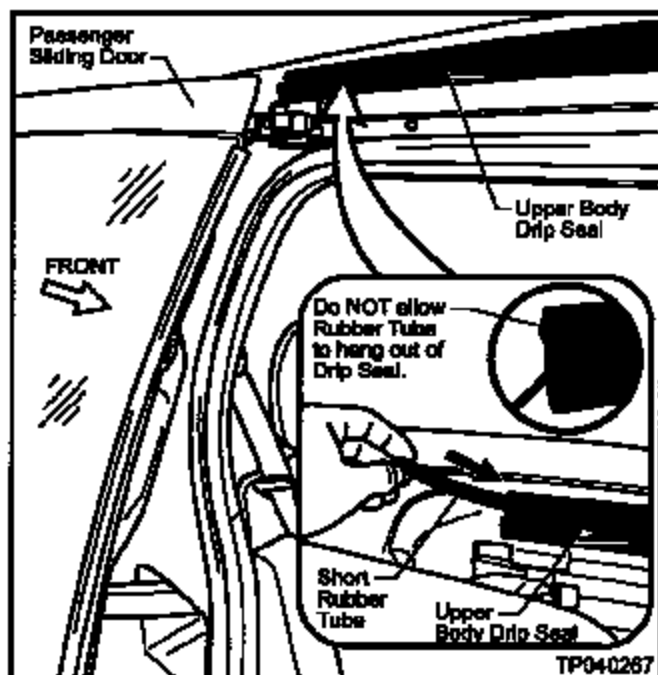


Figure J11

## Replace Sliding Door Inside Push Button Release Cable

15. Remove the Upper Finisher from the Sliding Door (see Figure J12).

- Use a Plastic Pry Tool (J-48534\* or equivalent) to release the securing clips (see Figure J12).

\* Essential Tool shipped to dealers and to be stored in drawer number 4 of the STSS.

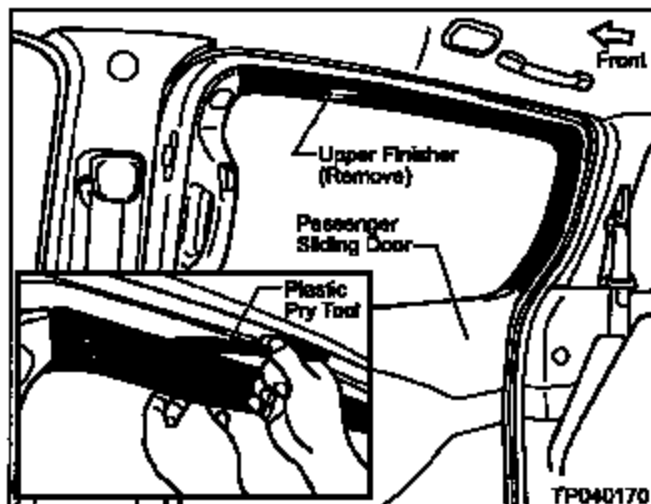


Figure J12

16. Remove the Sliding Door Inner Panel (see Figure J13) as follows:

- Take note of the Clip locations.
- The Clip in the upper front corner of the Door Inner Panel is a "Christmas Tree" type Clip. Be careful when you remove it. It will need to be re-used.
- The part number for this Clip is 76995-D1000.

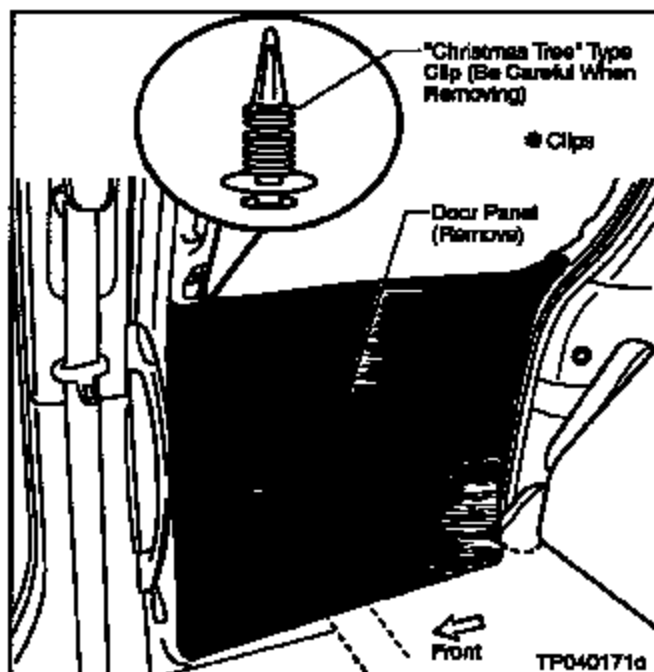


Figure J13

- a. Use a suitable Pry Tool to carefully release the Securing Clips along the front edge of the Inner Door Panel (see Figure J14).

**CAUTION:** Be careful not to damage the paint/plastic. Use duct tape on the end of the Pry Tool (see Figure J14).

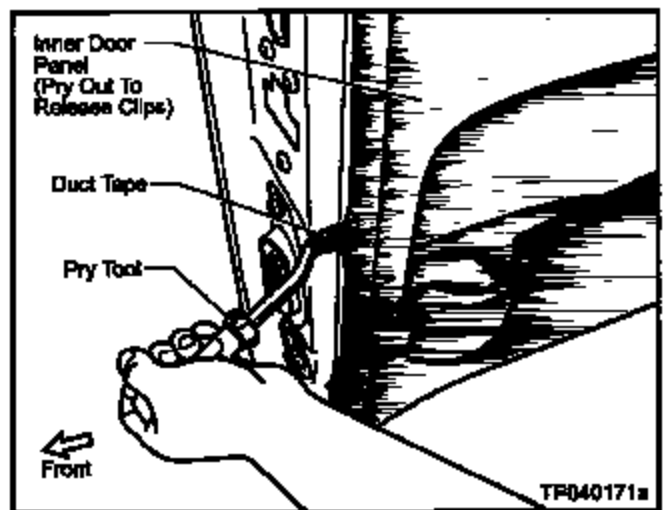


Figure J14

- b. Carefully pull out on the Inner Door Panel to release all remaining securing clips (see Figure J15).
- c. Remove the panel and place it in a clean, safe location.



Figure J15

17. Roll the Inner Vapor Barrier/Insulator back (see Figure J16) as follows:

- You need to do this so you can get to the Sliding Door Latch Assembly.

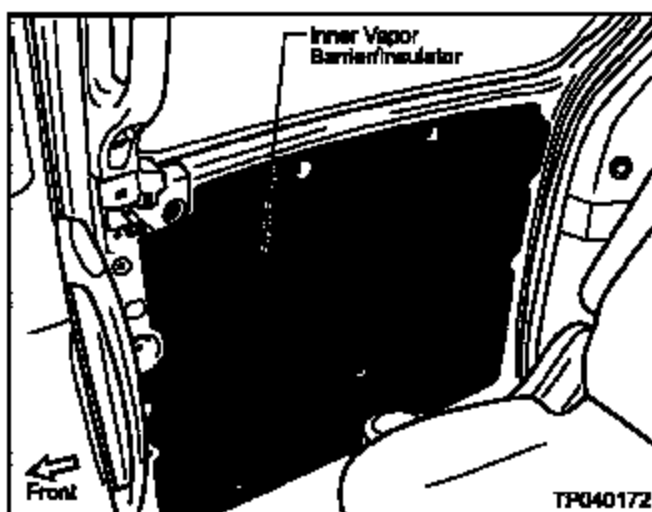


Figure J16

a. Starting at the front vertical end of the Sliding Door, use a razor knife to carefully cut the adhesive that holds the Vapor Barrier/Insulator to the door (see Figure J17).

- ONLY cut the adhesive back to about the middle of the door.

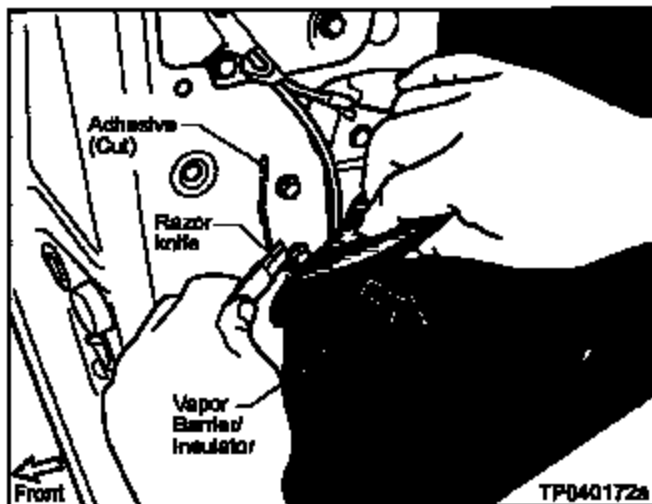


Figure J17

- b. Now, roll the Vapor Barrier/Insulator back and wedge it between the door and the body (see Figure J18).

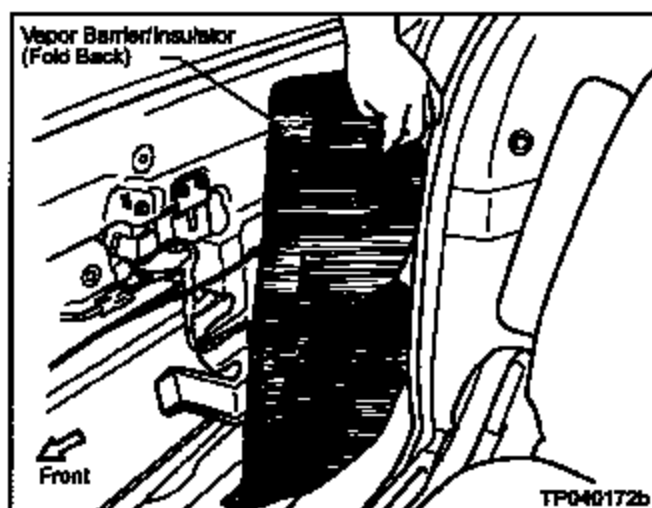


Figure J18

18. Remove the two Screw Covers from the Sliding Door Handle using a Plastic Pry Tool (J-46534\* or equivalent). See Figure J19.

\* Essential Tool shipped to dealers and stored in draw number 4 of the STSS.

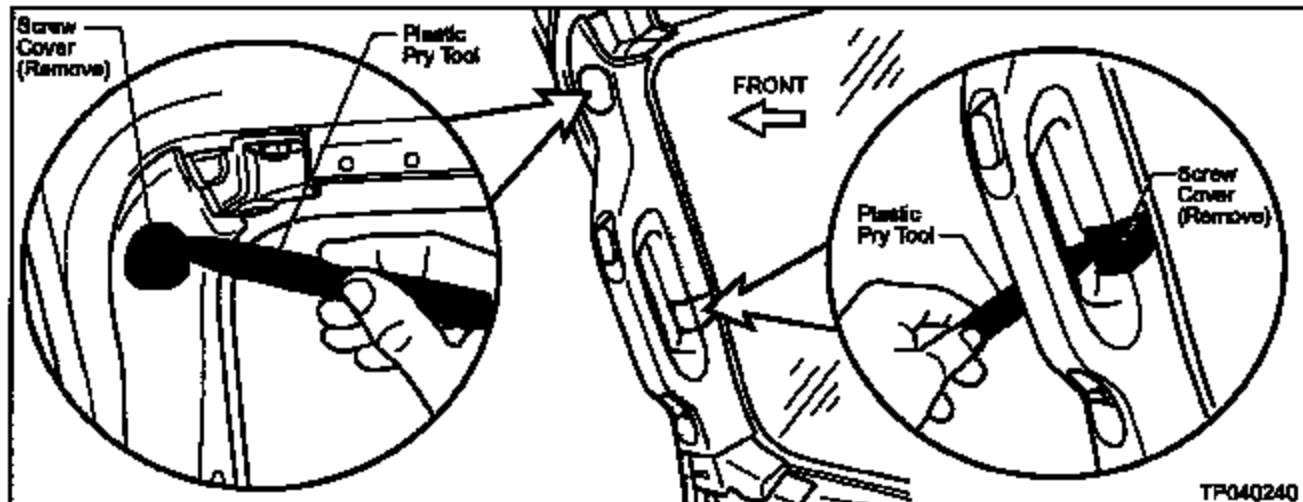


Figure J19



19. Remove five Bolts that secure the Sliding Door Handle (see Figure J20).

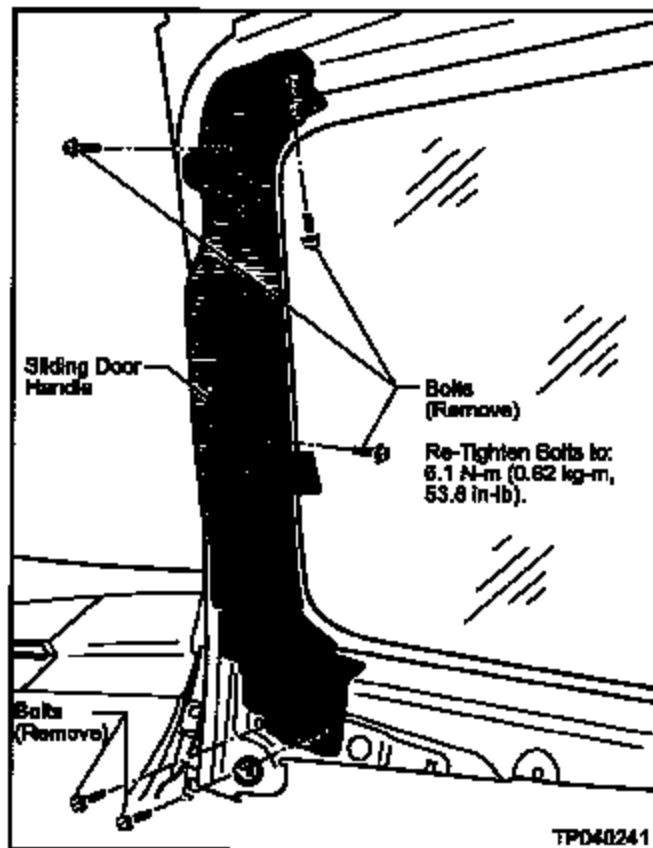


Figure J20

20. Carefully pull DOWN and OUT on the Sliding Door Handle to release it from the hook clips (see Figure J21).

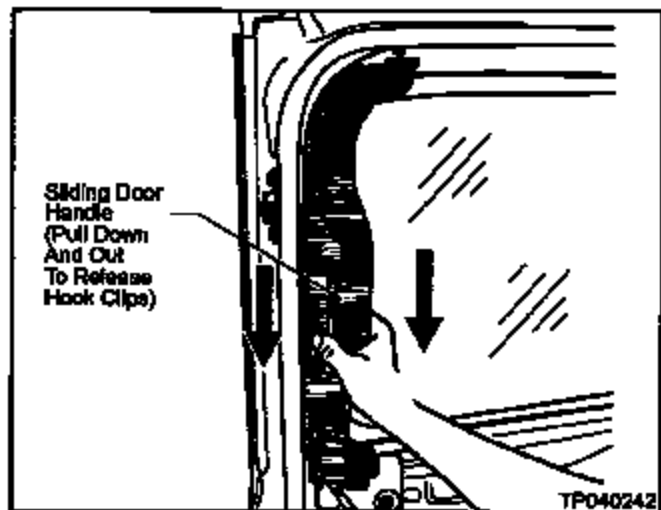


Figure J21

21. Replace the Inside Push Button Release Cable as follows:

**CAUTION:** Be careful not to bend the cables too much as they can kink.

- Remove the Cable Sheath End from the Pull Handle Assembly using needle-nose pliers (see Figure J22).
- Remove the Ball-End of the Cable from the Push Button Assembly (see Figure J22).

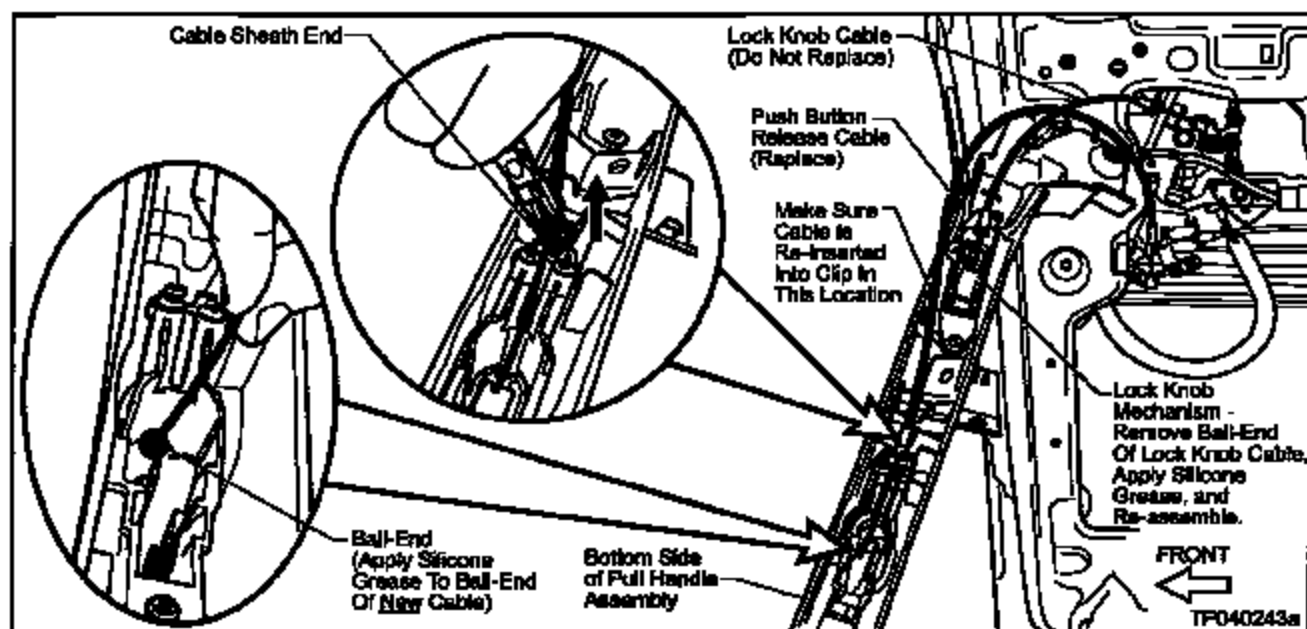


Figure J22

22. Disconnect the other end of the Push Button Release Cable from the Door Latch Assembly Lever (using needle-nose pliers). Release the cable from the Cable Clip. See Figure J23.

**NOTE:** To help prevent a cable kink, also disconnect the Lock Knob Cable from the Door Latch Assembly Lever (see Figure J23).

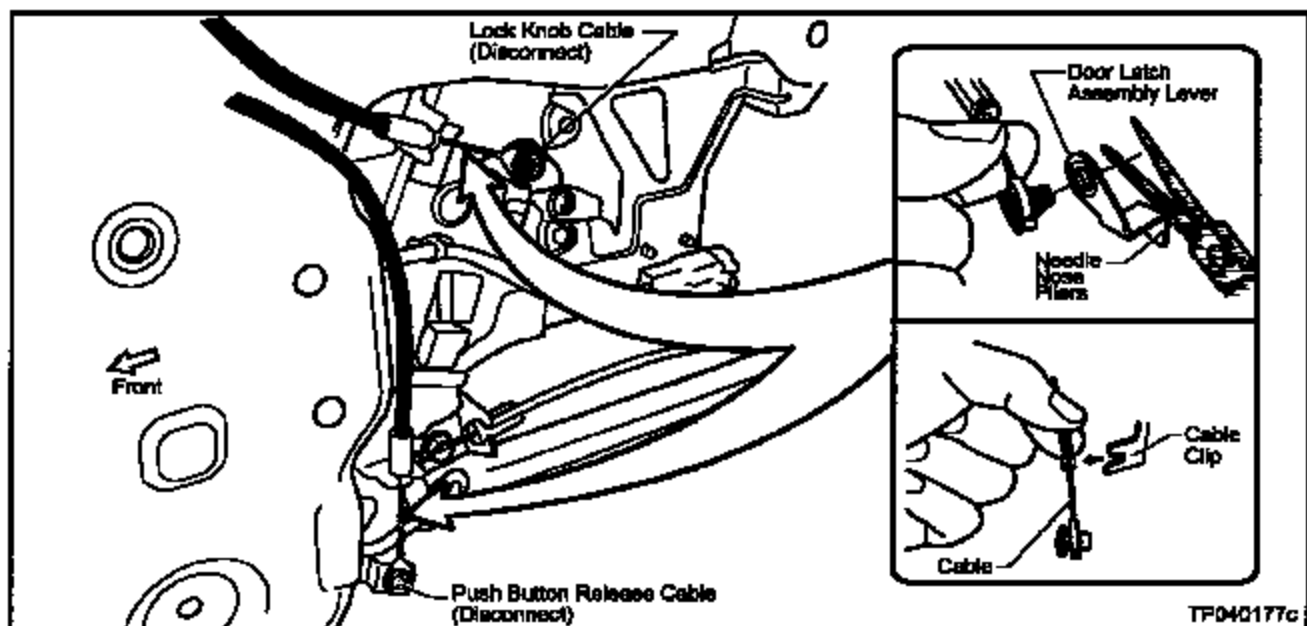
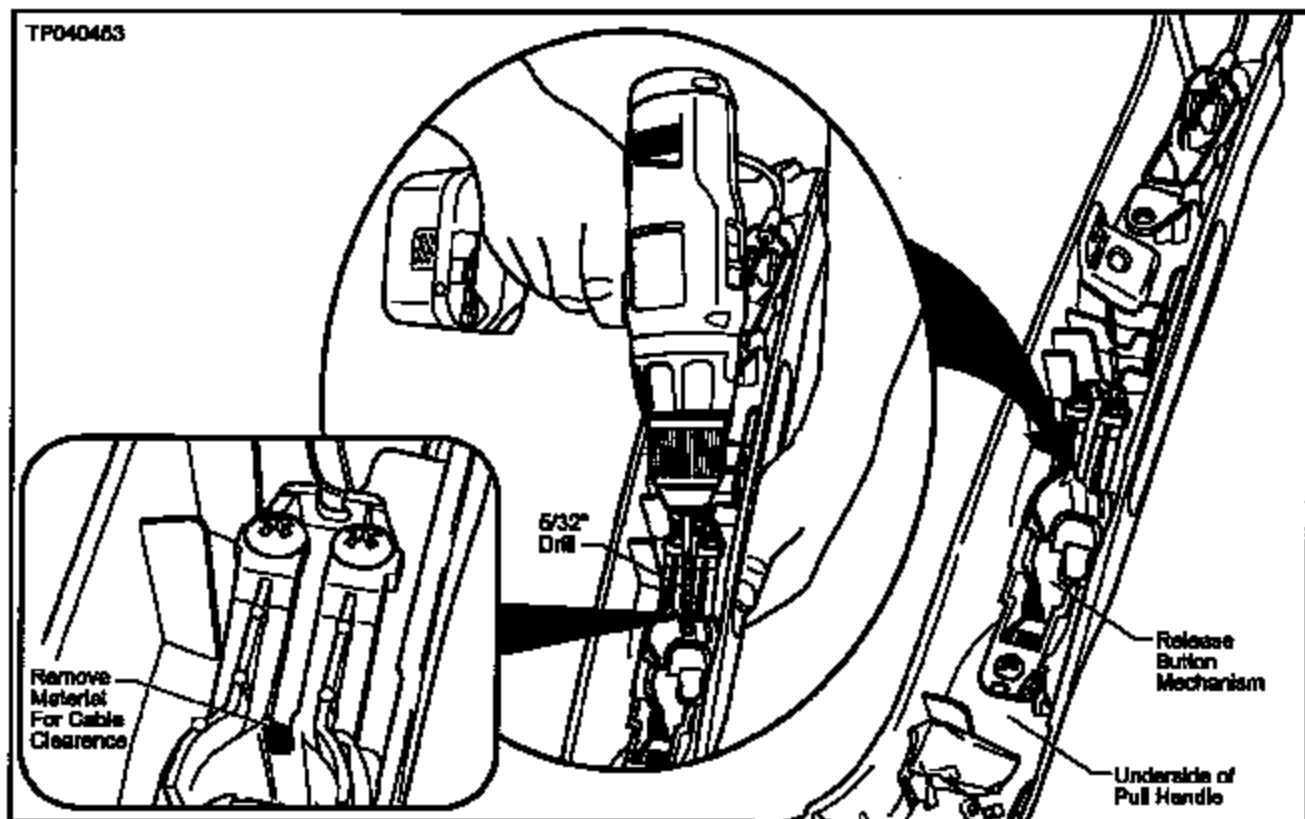


Figure J23

23. At the location shown in Figure J24, use a drill motor with a 5/32" drill bit to remove material for additional cable clearance.

- Make sure you remove enough material so there is NO cable contact.

**CAUTION:** Do NOT allow the removed material to get into the Release Button Mechanism.



J24

24. Install the new Release Cable (#12 in Figure J1) in the reverse order you removed the old one.

- Make sure the Release Cable is re-connected to the Door Latch Assembly Lever.
- Make sure the Cable is re-inserted into the Clip next to the Lock Knob Mechanism (see Figure J22).
- Apply Silicone Grease to the Ball-End of the new cable (see Figure J22).

25. Remove the Ball-End of the Lock Knob Cable, apply Silicone Grease, and re-assemble (see Figure J22).

- Make sure the Lock Knob Cable is re-connected to the Door Latch Assembly Lever.
- Make sure both Cables (Release and Lock Knob Cables) are inserted into the slots at the bottom of the Pull Handle finisher.

26. Re-Install the Sliding Door Pull Handle Assembly In the reverse order you removed it.

- Tighten the Bolts to: 6.1 N-m (4.5 ft-lb).

27. Confirm the door lock, unlock, and release functions properly operate.

## Install Felt Tape And Foam Strip On Both Door Panels

**NOTE:** You'll use the Felt Tape and Foam Strip from the Squeak & Rattle Kit to do this procedure.

28. Use a clean, dry towel to remove any dirt, dust, debris from the areas that will have Felt Tape and the Foam Strip installed.
29. Install Felt Tape (#7 and #8 in Figure J1) to the upper front and upper rear sections of the Door Panel (see Figure J25).
  - Make sure the Felt Tape is placed 1mm from the outer edge of the Door Panel (see **Detail View A** in Figure J25).
30. Install the Foam Strip (#9 in Figure J1) along the lower edge of the Door Panel (see Figure J25).
  - Make sure the adhesive-side of the Foam Strip is applied to the lower vertical surface of the Door Panel (see **Detail View B** in Figure J25).
31. Use Service Comm to see if the Power Sliding Door Latch Actuator repair (RU401) needs to be performed on the vehicle your working on. If so, perform this repair before you re-assemble the Door Panel and Upper Finisher (next step).
32. Confirm proper operation of: all applicable sliding door electrical power switches, exterior door handle, and inside push button.
33. Re-assemble the Door Panel and Upper Finisher in the reverse order of removal.

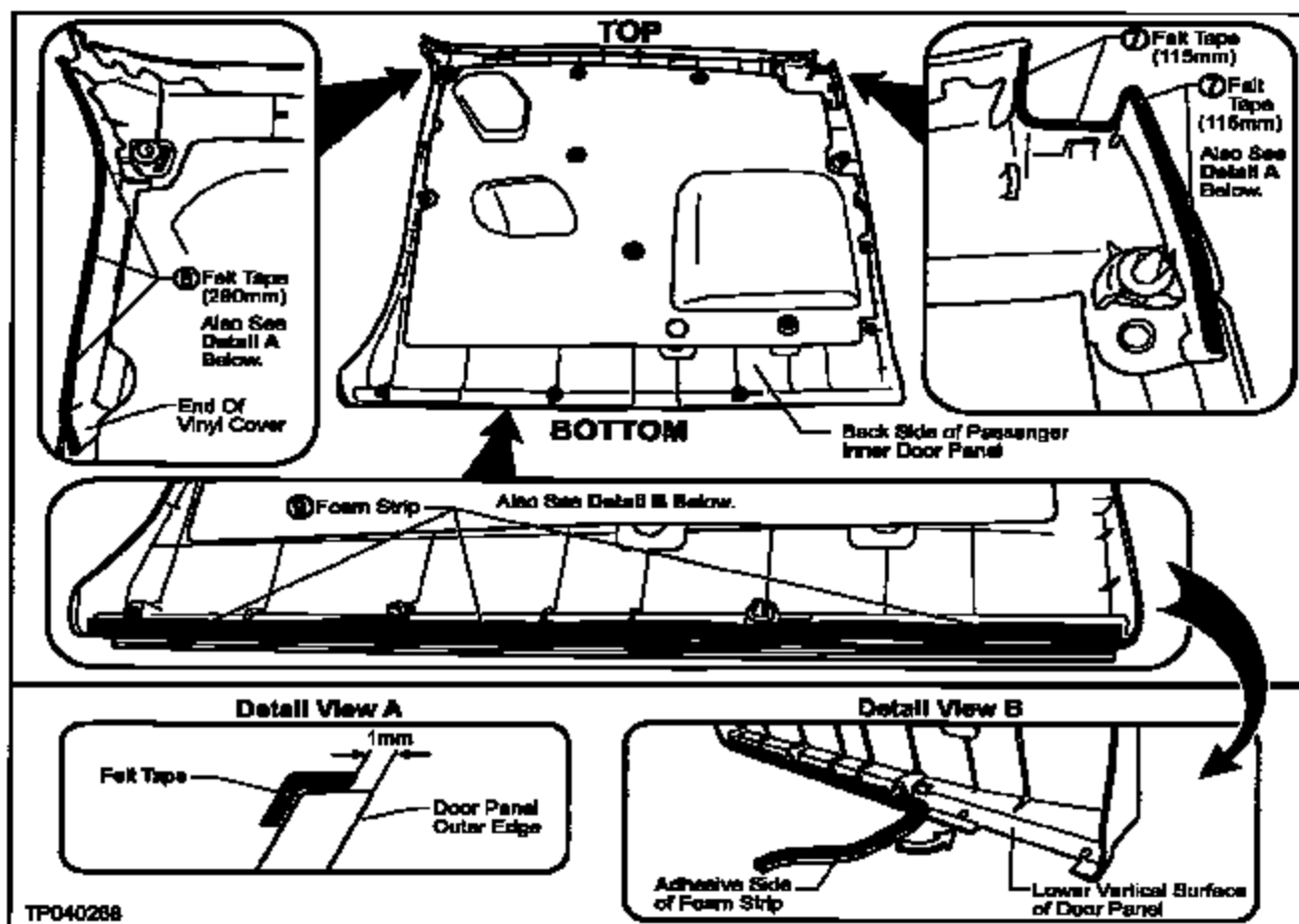


Figure J25

## Replace And Adjust Dovetails

34. Replace both the Upper and Lower Male Dovetails (#4 and #6 in Figure J1) on the front end of the Sliding Door (see Figure J26). Make sure the arrow (on the Dovetails) points towards the outside of the vehicle.

- Tighten the Male Dovetail mounting screws to 6.8 – 10.8 N-m (5 – 8 ft-lb).

35. Loosen the following 3 items just enough so they are still snug but can re-align themselves when the door is closed and opened (see Figure J26).

- Upper Female Dovetail (on the "B" Pillar)
- Lower Female Dovetail (on the "B" Pillar)
- Sliding Door Switch Plate Connector (on the front end of the Sliding Door)

36. Close and open the door 3 times so the above 3 items can align themselves.

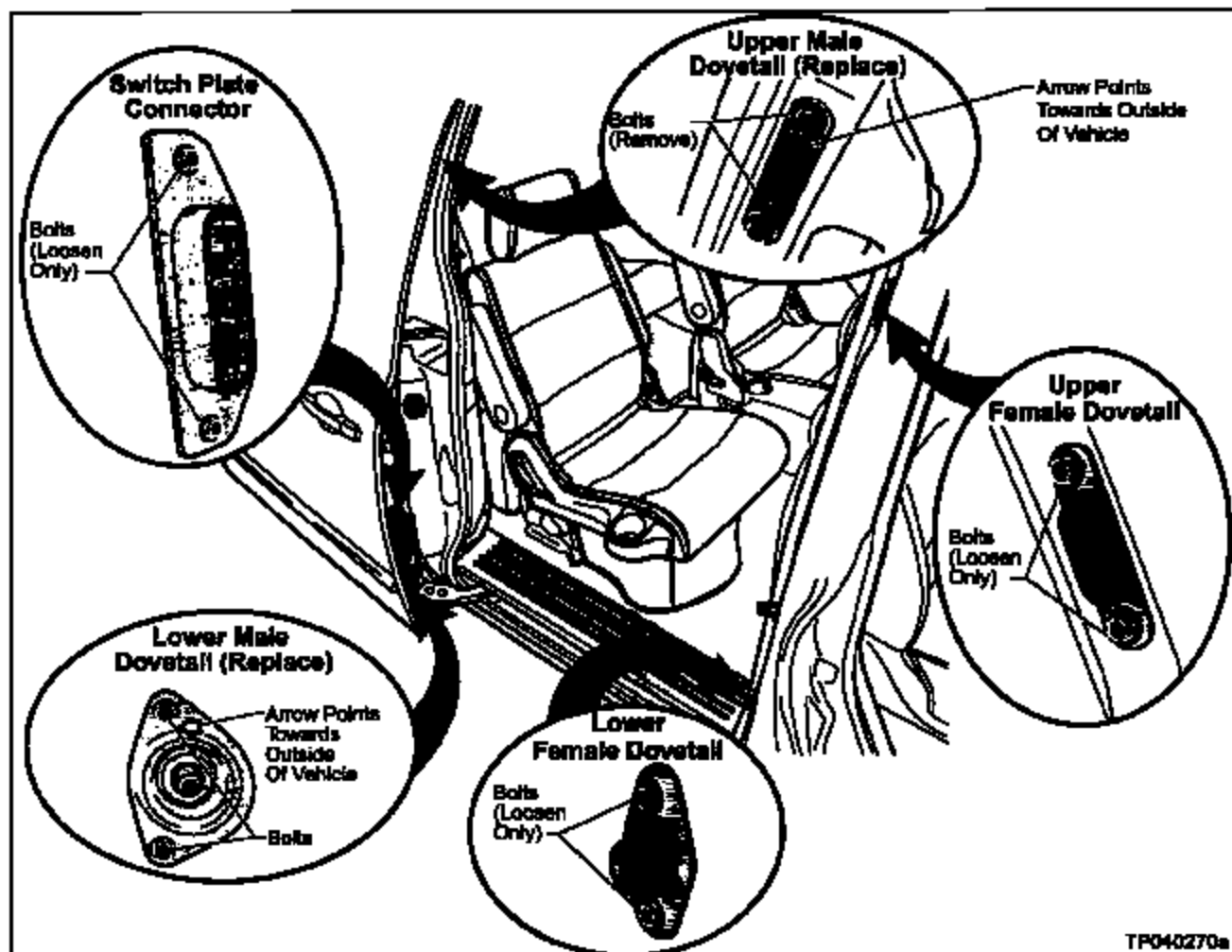


Figure J26

37. Check the alignment of the upper and lower Dovetails (see Figure J27).

**NOTE:** Check dovetail alignment with the front door open.

- a. If the alignment is NOT correct and there is sticking or binding, and the Dovetail(s) is at its maximum adjustable position (all the way up, down, in, or out), refer to the "BL" section (Door Fitting Adjustment) of the applicable Service Manual for proper Sliding Door adjustment and fit procedures. Then proceed with the **Check Upper Sliding Door Exterior Fit** procedure (next page).
- b. If the alignment is correct and there is no sticking or binding, continue with the **Check Upper Sliding Door Exterior Fit** procedure (next page).

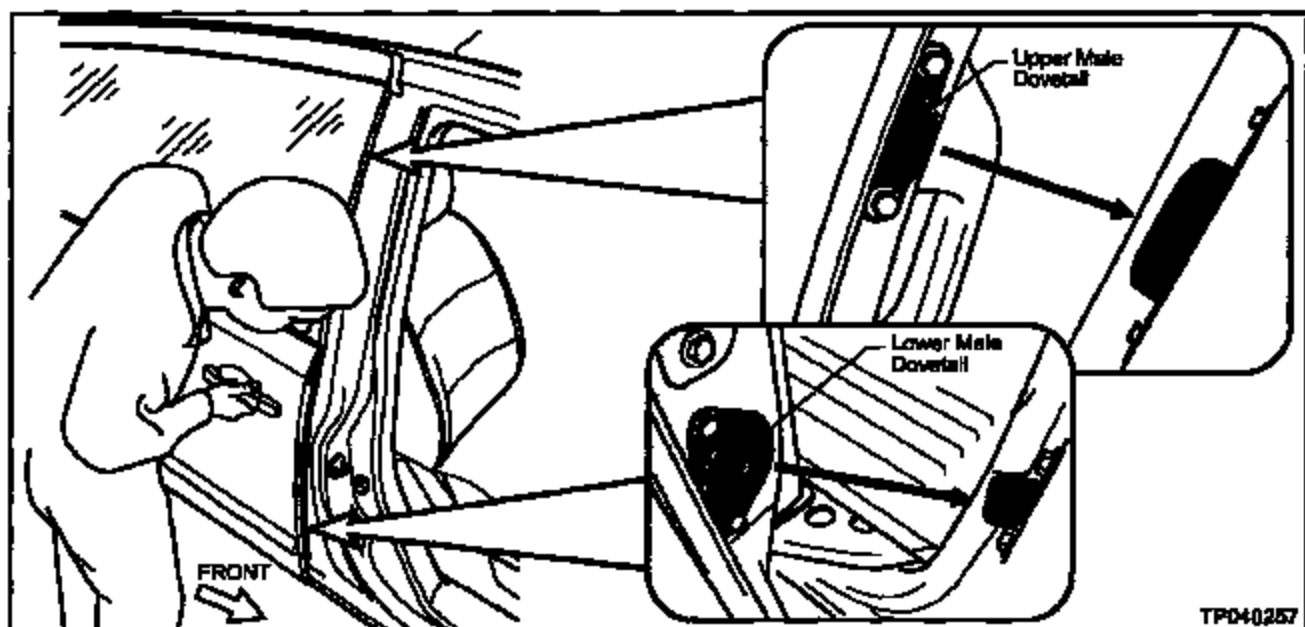


Figure J27

## Check Upper Sliding Door Exterior Fit

38. Check the exterior fit of the Upper Sliding Door to the Roof and Front Door (see Figure J28).

- If the exterior fit is NOT flush, perform the **Adjust Upper Sliding Door** procedure (below).

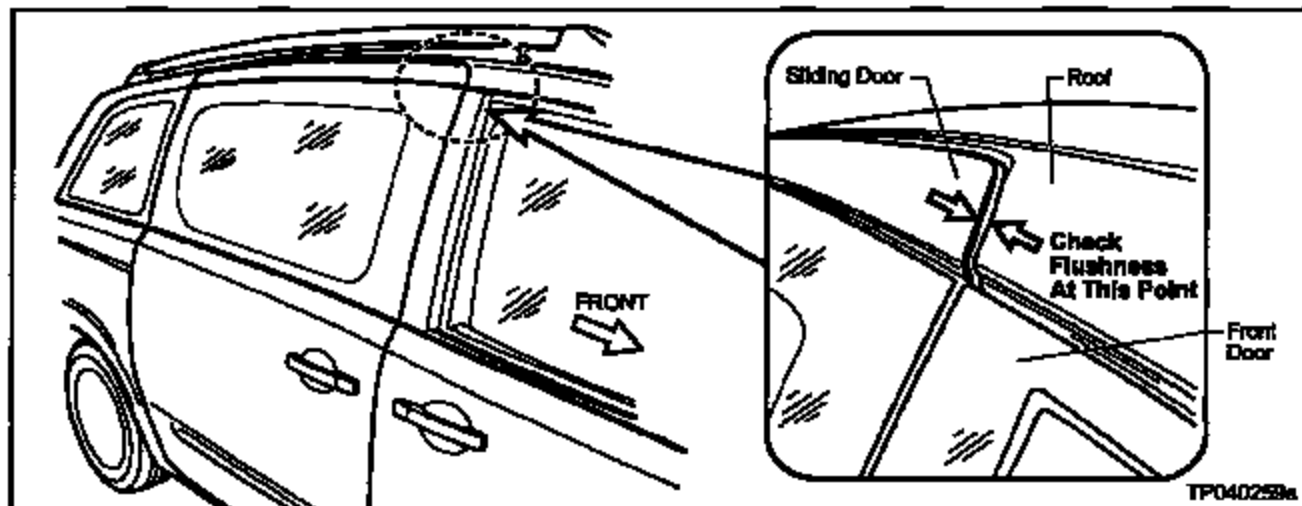


Figure J28

## Adjust Upper Sliding Door

39. Loosen one Nut and two Bolts at the Upper Roller Bracket (see Figure J29).

40. Adjust the Upper Sliding Door until:

- The Sliding Door exterior panel is flush with the Roof and Front Door exterior panel.

**NOTE:** The flushness of the panels may differ between vehicles. Adjust the panels as flush as possible.

41. Re-tighten the Nut and Bolts to:

- 5.0 - 6.4 N-m (3.7 - 4.7 ft-lb)

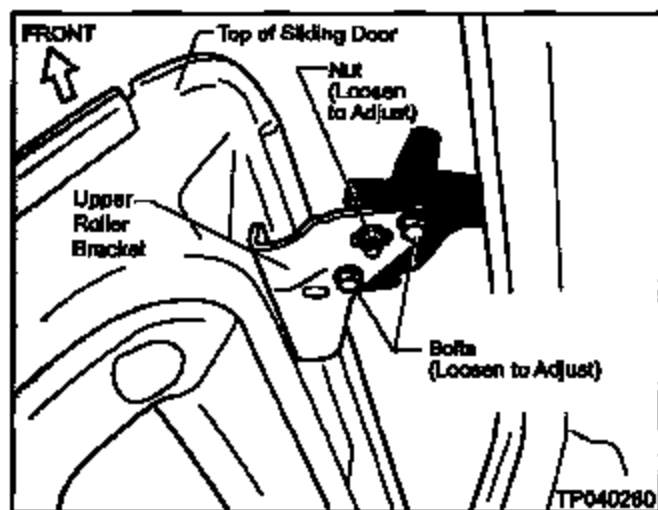


Figure J29

## Check Door Striker to Latch Clearance (Very Important Part Of This Procedure)

42. Check the clearance at two points:

- Between the front Striker and Latch (see Figure J30).
- Between the Rear Striker and Latch (see Figure J31).
  - a. If either the front or rear Striker clearance is incorrect (as shown in Figure J30 and J31), continue with the **Adjust Door Strikers** procedure (next page).
  - b. If both the front and rear Striker clearances are correct (as shown in Figure J30 and J31), continue with the **Check Sliding Door Glass to Quarter Glass Alignment** procedure (page 44).

**NOTE:** Worn coating on the Striker usually means the Striker/Latch clearance is incorrect.

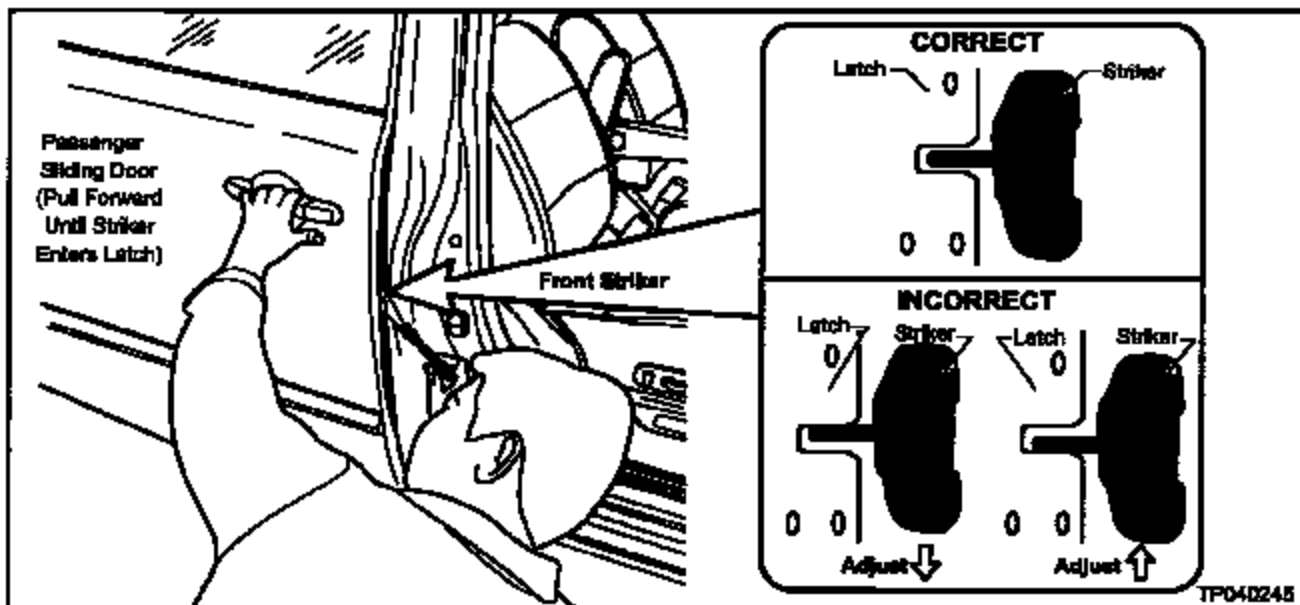


Figure J30 (Front Striker)

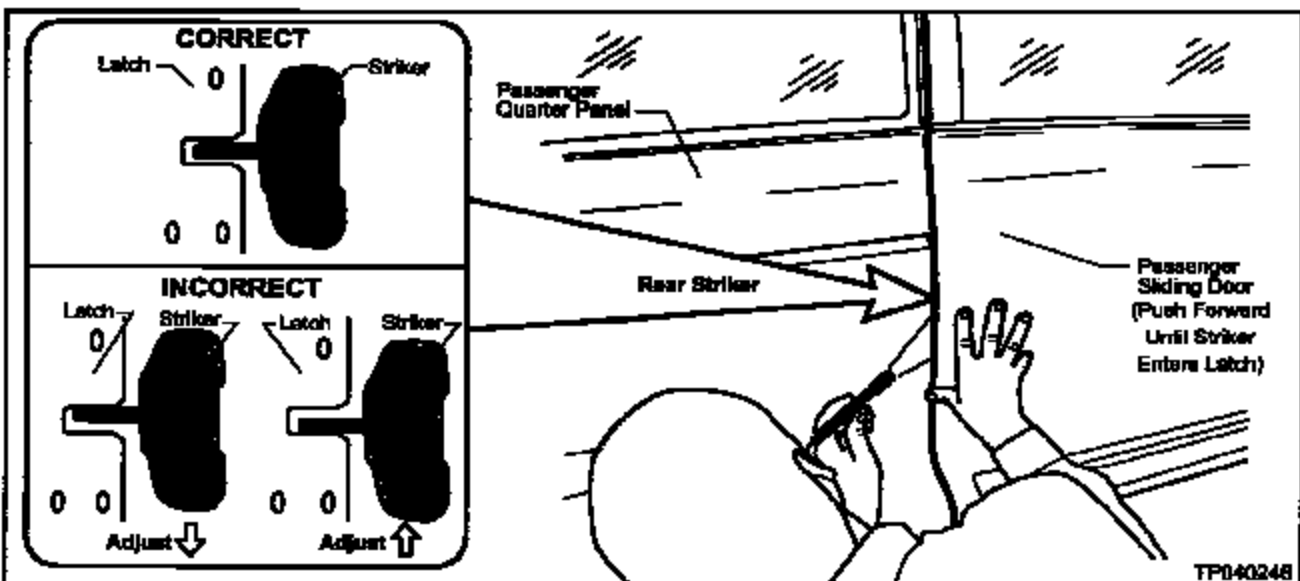


Figure J31 (Rear Striker)



## Adjust Door Strikers

43. Adjust the front and rear Door Striker clearance as follows:

- a. Close and open the door 3 times to allow the upper/lower Female Dovetails and the Switch Plate Connector to re-align themselves.
- b. Loosen the Door Striker mounting Screws (Torx T40).
- c. Adjust the clearance:
  - Between the front Striker and Latch (see Figure J30).
  - Between the Rear Striker and Latch (see Figure J31).

**NOTE:** Make sure the Sliding Door is as flush as possible with the Quarter Panel at the Striker/Latch area.

### **NOTE:**

- If the Striker is hard to move, the inner "floating nut plate" may be stuck.
  - To free up the floating nut plate, carefully use a hammer and wood block to hit the Striker in several directions.
  - Be careful NOT to damage the Striker or the surrounding paint and body panels.
- d. Tighten the Striker Screws to 12.7 – 15.7 N-m (9.4 – 11.6 ft-lb).
  - e. Apply white grease to the front and rear Latch Assemblies.
    - Wipe off any excess grease on the strikers.

44. Again, close and open the door 3 times to allow the upper/lower Female Dovetails and the Switch Plate Connector to re-align themselves.

45. Tighten the:

- Upper and lower Female Dovetails Bolts to 6.8 – 10.8 N-m (5 – 8 ft-lb). See Figure J32.
- Switch Plate Connector Bolts to 6.8 – 10.8 N-m (5 – 8 ft-lb). See Figure J32.

**NOTE:**

- Make sure you hold the Dovetails/Connector in place while you tighten the Bolts.
- If somehow they move out of place, loosen the Bolts to "hand-tight", open/close the door 3 times, and then re-tighten the Bolts.

**IMPORTANT:** If any further adjustments are made or parts are replaced, the complete adjustment procedure must be repeated.

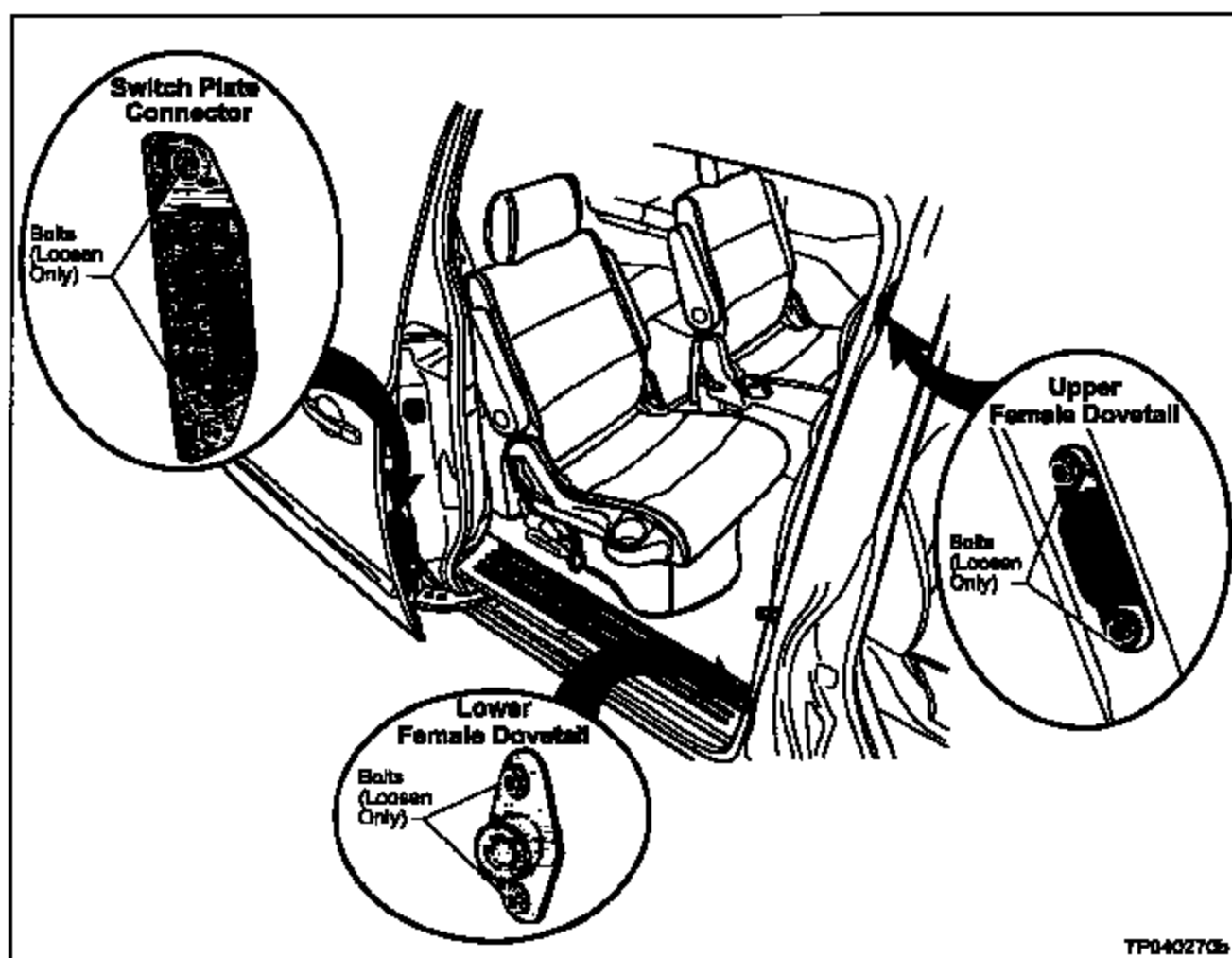


Figure J32

## Check Sliding Door Glass to Quarter Glass Alignment

46. Make sure the Sliding Door Glass to Quarter Glass Alignment is as flush as possible (see Figure J33).

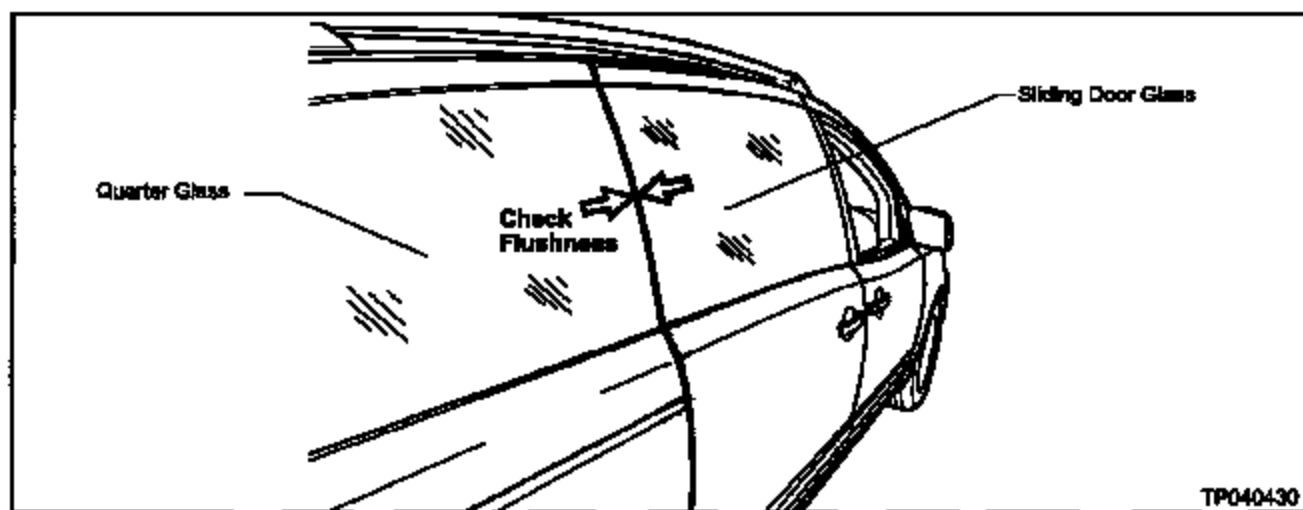


Figure J33

### NOTE:

- The rear of the Sliding Door may be slightly higher due to the insertion of the Rubber Tubes in the Weather-strip and Upper Door Drip Seal.
- If the Rear Quarter Glass is not flush with the Sliding Door, loosen the two Quarter Glass Mounting Screws (under the Quarter Glass Front Edge Rubber Seal – see Figure J34) and adjust the Glass for proper flushness. Use a Plastic Pry Tool to hold the glass out while tightening the Mounting Screws (see Figure J34). Tighten the Quarter Glass Mounting Screws to 2.0 – 3.0 N-m (17.7 – 26.5 in-lb).
- The flushness of the glass may vary between vehicles. Adjust the glass as flush as possible.

**CAUTION:** Make sure the Sliding Door does not contact the Glass when it is quickly opened and closed.

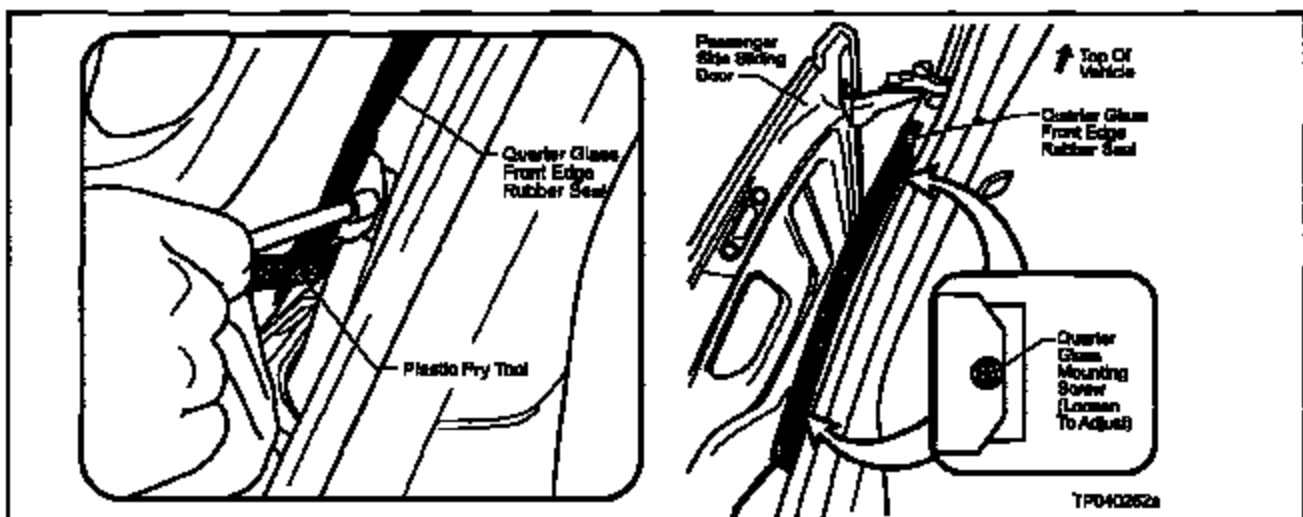


Figure J34

## Apply Krytox<sup>®</sup> Lubricant To Weather-Strips And Seals

47. Use a clean, dry towel to remove all dirt/debris from (See Figure J35):

- The Parting Seal on the front edge of the Sliding Door
- Upper Body Drip Seal
- Sliding Door Weather-Strip
- Quarter Glass Front Edge Rubber Seal

48. Apply Krytox lubricant (#1 in Figure J1) to the above noted Weather-Strip and Seals.

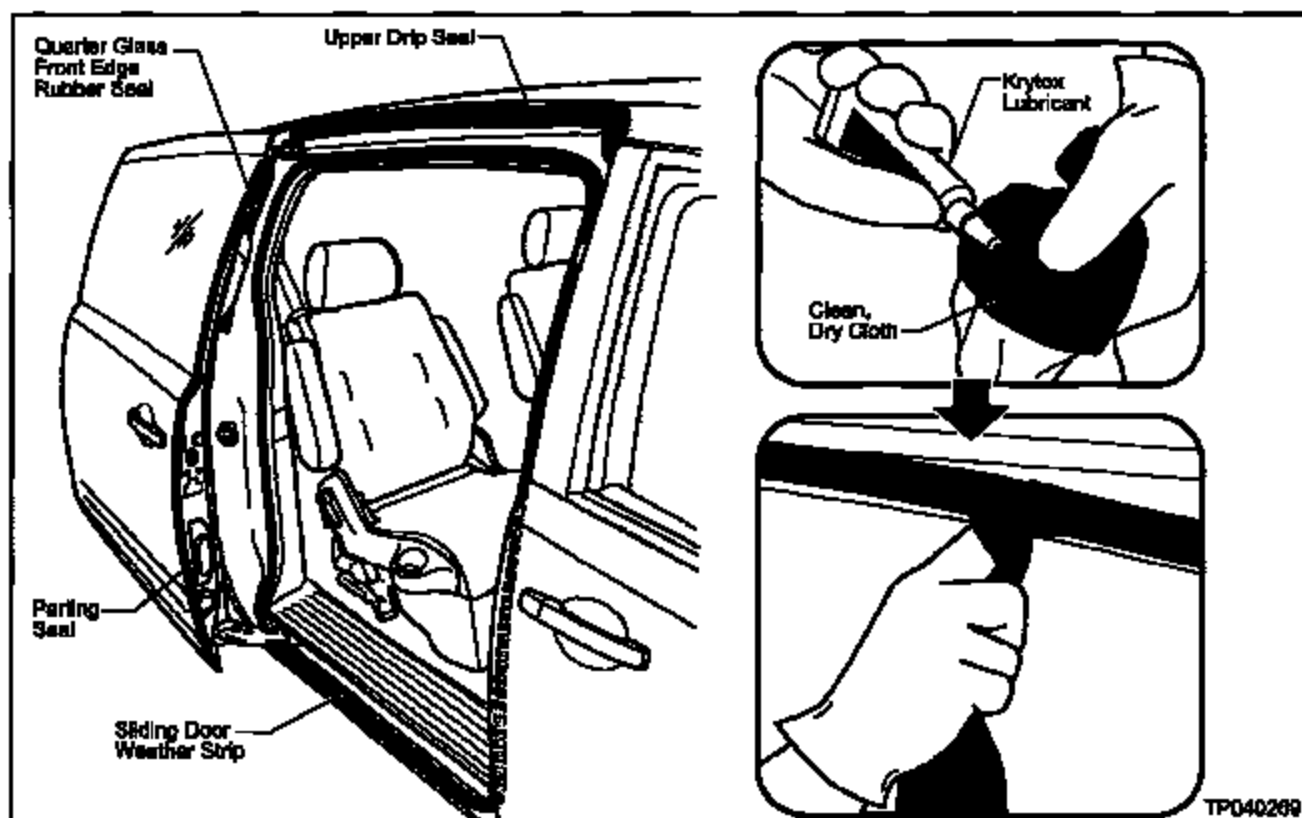


Figure J35

**NOTE:** Now perform the above procedures on the other Sliding Door.

### "Re-Initialize" Power Sliding Door (if applicable)

49. Close the Sliding Doors.
50. Make sure the Power Sliding Door Main Power Switch is OFF (see Figure J36).
51. Reconnect the negative battery cable.
52. Make sure the Child Safety Lever (on the front end of the sliding door) is OFF.

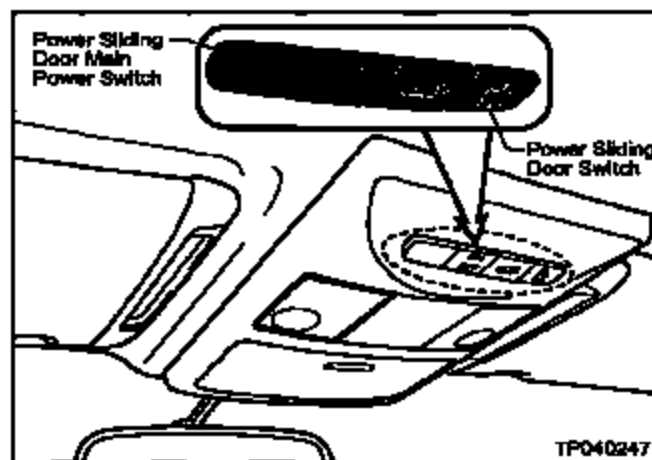


Figure J36

53. **Manually** open the Sliding Doors to the fully open position.
54. Turn the Power Sliding Door Main Power Switch ON.
55. Press and hold the Power Sliding Door Switch until the door is fully closed and latched. Then release the switch.
56. Press and hold the Power Sliding Door Switch until the door is fully opened. Then release the switch.
57. Press and hold the Power Sliding Door Switch until the door is fully closed and latched.

### Check Sliding Door Operation

58. Perform the Sliding Door final check as follows:
  - a. Make sure the Sliding Door properly:
    - opens
    - closes
    - latches
    - stops and reverses if an obstruction is detected (power sliding door only)
  - b. Make sure the Child Safety Lever operates properly.
  - c. Confirm proper operation of: all applicable sliding door electrical power switches, exterior door handle, and inside push button/lock knob.

**NOTE:** If the above listed Sliding Door functions do not operate properly, refer to the BL section of the Service Manual for further diagnosis.

### Final Steps

59. If applicable, reprogram all radio station presets.
60. If applicable, reset the clock.
61. If applicable, reset the Sunroof memory as follows:

- a. Push the Sunroof Tilt Switch in the tilt DOWN position (repeat as necessary) until the Sunroof is fully closed. See Figure J37.
- b. Then, push and hold the Sunroof Tilt Switch (see Figure J37) in the tilt DOWN position for more than 2 seconds.
- c. Reset is complete.

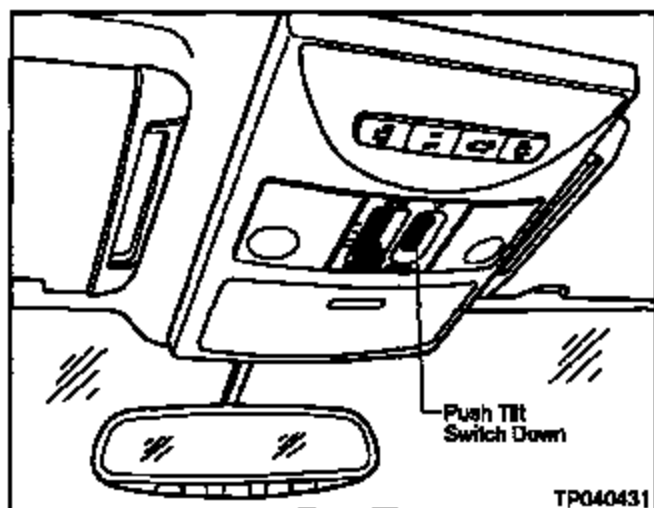


Figure J37

62. Road test the vehicle to confirm the upgrade is successful.

# Material Safety Data Sheets (MSDS)

## Structural Adhesive (Rear Hatch Hinge Area)



Engineered Sealing and Structural Solutions for the Automotive Industry  
160 McLean Drive • Box 308 • Romeo, MI 48065  
Main 1-586-336-1600 • Sales 1-586-336-1700 • Fax 1-586-336-1699

### MATERIAL SAFETY DATA SHEET

#### Section I

Product Number/Description L-0504, Part A  
Manufacturer's Name L. & L. Products, Inc.  
Emergency Telephone Number (586) 336-3520, after 5 pm (586) 336-1600  
Hazardous Material Description none  
Chemical Family Epoxy  
Formula Complex

#### Section II - Hazardous Ingredients

Chemical Name/CAS No.	Percent by weight	<input type="checkbox"/> OSHA	Exposure limit <input checked="" type="checkbox"/> ACGIH	<input type="checkbox"/> MFGS
1.				
2.				
3.				

#### Section III - Physical Data

Boiling Range	<u>greater than 200°C</u>	Specific Gravity (at RT)	<u>0.82 - 1.02 g/cc</u>
Solid Content	<u>TBD %</u>	VOC, EPA 24 method	<u>TBD lb./gal.</u>
Vapor Pressure (at RT)	<u>N/AP</u>	Percent Volatile by Volume	<u>TBD</u>
Vapor Density	<u>N/AP</u>	Evaporation Rate	<u>N/AP</u>
pH at Full Strength	<u>neutral</u>	Solubility in Water	<u>N/AP</u>
Appearance and Odor	<u>reddish-viscous liquid, plastic like odor</u>		

### MATERIAL SAFETY DATA SHEET

DCCJH 2-12-04

TP040253

### Section IV - Fire and Explosion Hazard Data

Flash Point greater than 200°C Flammable Limits not determined  
Extinguishing Media Dry chemical, water spray, foam, CO<sub>2</sub>  
Special Fire & Explosion Hazards Avoid fumes from decomposing material  
Special Firefighting Procedures Water spray or foam may help absorb fumes from decomposing material

### Section V - Health Hazard Data

Threshold Limit Value not determined  
Effects of Overexposure None observed; do not eat; avoid excessive or prolonged skin contact as some sensitive individuals might experience some skin or eye irritation; avoid fumes generated from hot material during curing or bonding process.  
Emergency & First Aid Procedures None special; remove from contact if irritation occurs; remove to fresh air if overcome by fumes.

### Section VI - Reactivity Data

NFPA - Health - not established Flammability - not established Instability - not established  
Conditions to Avoid None special Incompatibility Strong oxidizing agents  
Hazardous Decomposition Products Metal oxides, hydrocarbons, oxidized hydrocarbons, CO, CO<sub>2</sub>, SO<sub>2</sub>, NO<sub>x</sub>  
Hazardous Polymerization Will not occur

### Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled Pick up and use unless contaminated, then remove to trash container.  
Waste Disposal Method Incinerate or landfill as permitted by local regulations  
EPA Hazardous Substance Category Not applicable

DCC.KH 2-12-94

**MATERIAL SAFETY DATA SHEET**

TP040254



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### Section VIII - Special Protection Information

Respiratory Protection Not required  
Ventilation Local exhaust is recommended when heating material  
Protective Gloves Cotton Eye Protection Not required  
Other Protective Equipment Not required

### Section IX - Special Precautions

Precautions to Be Taken in Handling & Storage Store at ambient conditions; wash hands after handling  
Other Precautions none known

### Section X

Toxicological Information Evidence of ingredient MSDS only  
Effects on Skin Some sensitive individuals might experience some skin irritation  
Effects on Eyes Some sensitive individuals might experience some eye irritation  
Labeling Information Not required  
SARA 313: This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.

Completed by  
Name & Title Debbie Chalton, MSDS Coordinator  
L & L Products, Inc.  
Telephone/Fax Number (586) 336-3523 (586) 336-3540  
Date Issued 02/12/04  
Last Revised \_\_\_\_\_

DCC-KH 2-12-04

TP040232





Engineered Sealing and Structural Solutions for the Automotive Industry  
160 McLean Drive • Box 308 • Romeo, MI 48065  
Main 1-586-336-1600 • Sales 1-586-336-1700 • Fax 1-586-336-1699

## MATERIAL SAFETY DATA SHEET

### Section I

Product Number/Description L-0504, Part B  
Manufacturer's Name L & L Products, Inc.  
Emergency Telephone Number (586) 336-3320, after 5 pm (586) 336-1600  
Hazardous Material Description none  
Chemical Family Amine  
Formula Complex

### Section II - Hazardous Ingredients

Chemical Name/CAS No.	Percent by weight	<input type="checkbox"/> OSHA	Exposure limit <input checked="" type="checkbox"/> ACGIH	<input type="checkbox"/> MFGS
1.				
2.				
3.				
4.				

### Section III - Physical Data

Boiling Range	<u>greater than 200°C</u>	Specific Gravity (at RT)	<u>0.86 - 1.06 g/cc</u>
Solid Content	<u>TBD %</u>	VOC, EPA 24 method	<u>TBD lb./gal.</u>
Vapor Pressure (at RT)	<u>N/AP</u>	Percent Volatile by Volume	<u>TBD</u>
Vapor Density	<u>N/AP</u>	Evaporation Rate	<u>N/AP</u>
pH at Full Strength	<u>neutral</u>	Solubility in Water	<u>N/AP</u>
Appearance and Odor	<u>off white/gray viscous liquid, plastic like odor</u>		

DCC-KH 2-10-04

TP040251



Engineered Sealing and Structural Solutions for the Automotive Industry  
160 McLean Drive • Box 308 • Romeo, MI 48065  
Main 1-586-336-1600 • Sales 1-586-336-1700 • Fax 1-586-336-1699

## MATERIAL SAFETY DATA SHEET

### Section IV - Fire and Explosion Hazard Data

Flash Point greater than 200°C Flammable Limits not determined  
Extinguishing Media Dry chemical, water spray, foam, CO<sub>2</sub>  
Special Fire & Explosion Hazards Avoid fumes from decomposing material  
Special Firefighting Procedures Water spray or foam may help absorb fumes from decomposing material

### Section V - Health Hazard Data

Threshold Limit Value not determined  
Effects of Overexposure None observed; do not eat; avoid excessive or prolonged skin contact as some sensitive individuals might experience some skin or eye irritation; avoid fumes generated from hot material during curing or bonding process.  
Emergency & First Aid Procedures None special; remove from contact if irritation occurs; remove to fresh air if overcome by fumes.

### Section VI - Reactivity Data

NFPA - Health - not established Flammability - not established Instability - not established  
Conditions to Avoid None special Incompatibility Strong oxidizing agents  
Hazardous Decomposition Products Metal oxides, hydrocarbons, oxidized hydrocarbons, CO, CO<sub>2</sub>, SO<sub>x</sub>, NO<sub>x</sub>  
Hazardous Polymerization Will not occur

### Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled Pick up and use unless contaminated, then remove to trash container.  
Waste Disposal Method Incinerate or landfill as permitted by local regulations  
EPA Hazardous Substance Category Not applicable

DCC.KH 2-10-84

TP040252



Engineered Sealing and Structural Solutions for the Automotive Industry  
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Main 1-586-336-1600 • Sales 1-586-336-1700 • Fax 1-586-336-1699

## MATERIAL SAFETY DATA SHEET

### Section VIII - Special Protection Information

Respiratory Protection Not required  
Ventilation Local exhaust is recommended when bearing material  
Protective Gloves Cotton                      Eye Protection Not required  
Other Protective Equipment Not required

### Section IX - Special Precautions

Precautions to Be Taken in Handling & Storage Store at ambient conditions; wash hands after handling  
Other Precautions none known

### Section X

Toxicological Information Evidence of ingredient MSDS only  
Effects on Skin Some sensitive individuals might experience some skin irritation  
Effects on Eyes Some sensitive individuals might experience some eye irritation  
Labeling Information Not required  
SARA 313: This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.

Completed by  
Name & Title

Debbie Chalton, MSDS Coordinator  
L & L Products, Inc.

Telephone/Fax Number

(586) 336-3523                      (586) 336-3540

Date Issued

02/12/04

Last Revised

DCC-KH 2-10-04

TP040249

# 3M Adhesion Promoter

**MATERIAL SAFETY DATA SHEET**      **3M**  
**3M Center**  
**St. Paul, Minnesota**  
**55144-1000**  
**1-800-364-3577 or (651) 737-6501 (24 hours)**

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- 2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

**DIVISION:**    **AUTOMOTIVE DIVISION**  
                   **AUTOMOTIVE AFTERMARKET**

**TRADE NAME:**  
**3M Brand Adhesion Promoter #4298 and #6396**

**ID NUMBER/U.P.C.:**  
 41-3700-9534-5                    -                    -                    70-0705-3070-7    00-21200-64192-3  
 70-0705-3071-5    00-21200-64193-0    70-0705-3072-3    00-21200-64194-7  
 70-0705-3073-1    00-21200-64195-4    70-0705-3074-9    00-21200-64196-1  
 70-0705-7300-4    00-21200-64194-7    70-0706-9842-1    00-21200-27571-5  
 70-0706-9843-9    00-51131-06396-9    70-0706-9865-2    00-21200-27571-5  
 70-0706-9866-0    00-21200-27571-5    70-0706-9872-8    00-21200-31830-6

**ISSUED:** September 27, 1999  
**SUPERSEDES:** November 26, 1997  
**DOCUMENT:** 07-1193-7

1. INGREDIENT	C.A.S. NO.	PERCENT	
CYCLOHEXANE.....	110-82-7	45	- 55
XYLENE.....	1330-20-7	25	- 35
ETHYL ALCOHOL.....	64-17-5	5	- 10
ETHYLBENZENE.....	100-41-4	3	- 7
ETHYL ACETATE.....	141-78-6	1	- 5
ACRYLATE POLYMER (MITSUBI 04499600-5984P).....	TradeSecret	1	- 5
2,5-FURANDIONE, REACTION PRODUCTS WITH POLYPROPYLENE, CHLORINATED.....	68609-36-9	1	- 5
ISOPROPYL ALCOHOL.....	67-63-0		< 1
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER.....	25068-38-6		< 0.5
METHYL ALCOHOL.....	67-56-1		< 0.5
CHLOROBENZENE.....	108-90-7		< 0.5
BENZENE.....	71-43-2		< 0.1

This product contains the following toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:

- CYCLOHEXANE
- XYLENE
- ETHYLBENZENE
- METHYL ALCOHOL

Abbreviations: N/D - Not Determined    N/A - Not Applicable    CA - Approximately

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1. INGREDIENT	C.A.S. NO.	PERCENT
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CHLOROBENZENE  
BENZENE

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2. PHYSICAL DATA

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BOILING POINT:..... 170 - 280 F  
                                    Estimated, based on composition  
VAPOR PRESSURE:..... ca. 68 mmHg  
                                    calculated at 25 deg C  
VAPOR DENSITY:..... ca. .0043 g/cc  
                                    calculated at 100 deg C  
EVAPORATION RATE:..... ca. 6.4 xylene=1  
                                    calculated  
SOLUBILITY IN WATER:..... ca. 10 %  
SPECIFIC GRAVITY:..... ca. 0.82 g/ml  
PERCENT VOLATILE:..... ca. 94 %  
pH:..... ca. 5.5  
VISCOSITY:..... 30 - 40 centipoise  
MELTING POINT:..... N/A

APPEARANCE AND ODOR:  
Liquid, yellow, solvent odor

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3. FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT:..... ca. -4 F OC  
                                    ASTM D92  
FLAMMABLE LIMITS - LEL:..... ca. 1 %  
                                    calculated  
FLAMMABLE LIMITS - UEL:..... ca. 6 %  
                                    calculated  
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:  
Water spray, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:  
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

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**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Vapors may travel long distances along the ground or floor to an ignition source and flash back.

**NFPA HAZARD CODES:** HEALTH: 2 FIRE: 3 REACTIVITY: 0  
**UNUSUAL REACTION HAZARD:** none

**OSHA FIRE HAZARD CLASS:** Class IB Flammable Liquid

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4. REACTIVITY DATA

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**STABILITY:** Stable

**INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:**

Heat, Sparks and/or Flames.

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon Monoxide and Carbon Dioxide.

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5. ENVIRONMENTAL INFORMATION

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**SPILL RESPONSE:**

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Contain spill. Evacuate unprotected personnel from hazard area. Cover with absorbent material. Cover spill area with Light Water Brand or other AIC foam. (For further information on AIC foam usage, contact 3M Fire Protection Systems.) Collect using non-sparking tools. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in an approved metal container. Seal the container.

**RECOMMENDED DISPOSAL:**

Incinerate in a permitted hazardous waste incinerator. Combustion products will include HCl.

**ENVIRONMENTAL DATA:**

Not determined.

**REGULATORY INFORMATION:**

Volatile Organic Compounds: ca. 750 gms/liter South Coast Air Quality Mgmt Dist Method Calculated.

VOC Less H<sub>2</sub>O & Exempt Solvents: ca. 755 gms/liter South Coast Air Quality

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

TP040320

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5. ENVIRONMENTAL INFORMATION (continued)

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Mgmt Dist Method Calculated.

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

EPCRA HAZARD CLASS:

FIRE HAZARD: Yes PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

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6. SUGGESTED FIRST AID

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EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

IF SWALLOWED:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

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7. PRECAUTIONARY INFORMATION

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EYE PROTECTION:

Avoid eye contact with vapor, spray, or mist. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: fluoroelastomer (Viton).

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

TP040321

7. PRECAUTIONARY INFORMATION (continued)

RECOMMENDED VENTILATION:

Local exhaust is required for operations using large amounts of material. Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid prolonged breathing of vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator, full-face organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Keep container closed when not in use.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed. Flammable liquid and vapor. Keep away from heat, sparks, open flame, and other sources of ignition. No smoking while handling this material. Avoid static discharge.

OTHER PRECAUTIONARY INFORMATION:

For industrial or professional use only.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
CYCLOHEXANE.....	300	PPM	TWA	ACGIH	
CYCLOHEXANE.....	300	PPM	TWA	OSHA	
XYLENE.....	100	PPM	TWA	ACGIH	
XYLENE.....	150	PPM	STEL	ACGIH	
XYLENE.....	100	PPM	TWA	OSHA	
XYLENE.....	150	PPM	STEL	OSHA	
ETHYL ALCOHOL.....	1000	PPM	TWA	ACGIH	
ETHYL ALCOHOL.....	1000	PPM	TWA	OSHA	
ETHYLBENZENE.....	100	PPM	TWA	ACGIH	
ETHYLBENZENE.....	125	PPM	STEL	ACGIH	
ETHYLBENZENE.....	100	PPM	TWA	OSHA	
ETHYLBENZENE.....	125	PPM	STEL	OSHA	
ETHYL ACETATE.....	400	PPM	TWA	ACGIH	
ETHYL ACETATE.....	400	PPM	TWA	OSHA	
ACRYLATE POLYMER (NJTSRN 04499600-5984P).....	NONE	NONE	NONE	NONE	
2,5-FURANDIONE, REACTION PRODUCTS WITH POLYPROPYLENE, CHLORINATED....	NONE	NONE	NONE	NONE	

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

TP040322



EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
ISOPROPYL ALCOHOL.....	400	PPM	TWA	ACGIH	
ISOPROPYL ALCOHOL.....	500	PPM	STEL	ACGIH	
ISOPROPYL ALCOHOL.....	400	PPM	TWA	OSHA	
ISOPROPYL ALCOHOL.....	500	PPM	STEL	OSHA	
4,4'-ISOPROPYLDENEDIPHENOL- EPICHLOROHYDRIN POLYMER.....	NONE	NONE	NONE	NONE	
METHYL ALCOHOL.....	200	PPM	TWA	ACGIH	Y
METHYL ALCOHOL.....	250	PPM	STEL	ACGIH	Y
METHYL ALCOHOL.....	200	PPM	TWA	OSHA	Y
METHYL ALCOHOL.....	250	PPM	STEL	OSHA	Y
CHLOROBENZENE.....	10	PPM	TWA	ACGIH	
CHLOROBENZENE.....	75	PPM	TWA	OSHA	
BENZENE.....	2.5	PPM	STEL	ACGIH	Y
BENZENE.....	0.5	PPM	TWA	ACGIH	Y
BENZENE.....	1	PPM	TWA	OSHA	
BENZENE.....	5	PPM	STEL	OSHA	
BENZENE.....	0.5	PPM	TWA	OSHA	

OSHA ACTION LEVEL

\* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

B. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

Moderate Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, itching, and dryness.

INHALATION:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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8. HEALTH HAZARD DATA (continued)

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Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

**IF SWALLOWED:**

Gastrointestinal Effects: signs/symptoms generally will include abdominal pain.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

**CANCER:**

WARNING: Contains a chemical which can cause cancer. (71-43-2) (NTP human carcinogen, IARC human carcinogen 1, OSHA listed carcinogen, ACGIH suspected human carcinogen A2, Calif. Proposition 65)

**REPRODUCTIVE/DEVELOPMENTAL TOXINS:**

WARNING: Contains a chemical which can cause birth defects and male reproductive harm. (71-43-2)

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SECTION CHANGE DATES

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HEADING

SECTION CHANGED SINCE November 26, 1997 ISSUE

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

TP040324

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The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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# 3M

## Adhesion Promoter 06396

### For Plastic Trim Attachment

Technical Data Sheet

March 2003

Supersedes Technical Data Sheet dated July 2002

**General Description** 3M™ Adhesion Promoter 06396 is a liquid primer used to improve the adhesion of 3M™ Automotive Attachment Tapes to most low surface energy plastic materials as well as injection-molded body side moldings and claddings used for automotive exterior trims. This would include common low surface energy plastics used for automotive interior and exterior trim applications (TPO, PPO, PP, PC, PC + ABS, etc.). Since formulations and surface energies can vary for these types of materials, each application should be verified through testing. 3M adhesion promoter 06396 is specifically formulated to be used on plastic parts with 3M™ Acrylic Foam Tapes and 3M™ Acrylic Plus Tapes (3M part numbers 06377, 06378, 06380, 06381, 06382, 06383, 06384, 06385, 06386 and 06397) for automotive applications.

<b>Physical Properties</b>	<b>Components</b>	Cyclohexane, xylene, ethyl alcohol, ethylbenzene, ethyl acetate, acrylic polymer, chlorinated polyolefins, isopropyl alcohol  Contains less than 0.5% of the following: bisphenol a-epichlorohydrin copolymer, methyl alcohol, chlorobenzene
	<b>Solids</b>	Approximately 5%
	<b>Color</b>	Straw
	<b>Viscosity</b>	25 Centipoise maximum
	<b>Flashpoint</b>	-4°F (-20°C)
	<b>Drying Time</b>	30-90 seconds
	<b>Density</b>	3.1 kg (6.8 lb) per gallon
	<b>Availability</b>	Sponge applicator packet - 2.5 cc
	<b>Coverage</b>	Approximately 150 in <sup>2</sup> per sponge applicator packet

**Safety Procedures** Observe proper handling precautions as outlined in the material safety data sheet (MSDS), which is available on request. The website address for 3M MSDSs is [www.3M.com/msds](http://www.3M.com/msds). If necessary, the 3M 24-hour emergency response telephone number is 1-800-364-3577 or 651-737-6501.

**Shelf Life** Shelf life is one year from date of receipt by customer when stored in the original container at 4°C - 38°C (40°F - 100°F) and 0 - 95% relative humidity. Storage at lower temperatures for short periods will not affect product performance if the primer is warmed to recommended temperatures before application.

TP040316

## Technical Data Sheet 06396

Page 2

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**Surface Preparation** The bonding surface should be clean and dry. Contaminated surfaces should be cleaned with an untreated, lint-free cloth and 3M<sup>®</sup> General Purpose Adhesive Cleaner (Part No. 08984) or 3M<sup>®</sup> Prep Solvent 70 Low VOC Cleaner (Part No. 08973). Follow this by wiping with another untreated, lint-free cloth and isopropyl alcohol. Observe precautions for solvent handling.

---

**Application Procedure** 3M<sup>®</sup> Adhesion Promoter 06396 is supplied in an easy-to-use sponge applicator packet. The liquid contents of the packet should be completely used as soon as possible after opening. Hold packet upright and avoid squeezing an opened packet to prevent spillage of liquid contents. The packet can be opened by tearing across the top of the packet at the notches. This will expose the sponge applicator. *Do not remove the sponge or squeeze a freshly opened packet.* Handling the bottom section of the packet should enable application of 3M adhesion promoter 06396 with no mess.

Apply a thin, uniform coating to the bonding surface, using the minimum amount that will fully coat the surface. A wet coating thickness of 0.002 inch or less ensures a good application. Although drying times may vary due to temperature and/or humidity, a drying time of 30-90 seconds results with a coating of this thickness. The primer should be dry before applying tape. For best results, apply tape immediately after primer application or no more than one hour after primer application. Be sure the primer surface remains free from contaminants prior to tape application.

---

**Clean Up** 3M adhesion promoter 06396 can be cleaned up with methylethyl ketone (MEK) or acetone solvents (be careful with solvents on plastics). Vigorous scrubbing may be required. To prevent cosmetic damage to visible surfaces, be sure to apply the promoter or any solvents only to areas that will be fully covered by the part.

**Caution:** When using solvents for cleanup, use the precautionary measures recommended in the MSDS for the solvent.

**IMPORTANT NOTICE:** All statements and technical information in this literature are based on tests 3M believes are reliable. 3M does not warrant or guarantee the accuracy or completeness of this information. 3M warrants that the products described in this literature will be free from defects in material or manufacture when shipped. 3M MAKES NO OTHER WARRANTIES REGARDING THESE PRODUCTS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Because there are many factors that can affect the use and performance of these products, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate these products to determine whether they are fit for a particular purpose, suitable for the user's method of application, and meet the user's performance specifications and expectations.

**Limitation of Remedies and Liability:** If any product described in this literature is defective, the exclusive remedy, at 3M's option, will be to refund the purchase price of or to replace the defective product. 3M IS NOT LIABLE FOR ANY OTHER LOSS OR DAMAGES, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR INABILITY TO USE THESE PRODUCTS REGARDLESS OF LEGAL THEORY.

**Automotive Aftermarket Division**

3M Center, Building 223-6N-01  
St. Paul, MN 55144-1000  
www.3M.com/automotive

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TP040317



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont  
Material Safety Data Sheet

Page 1

-----  
"KRYTOX" GPL-10X FLUORINATED OILS  
5635APP Revised 18-JAN-2001  
-----

-----  
CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
-----

Material Identification

"Krytox" is a registered trademark of DuPont.

Corporate MSDS Number : DU002678  
Grade : X Indicates Base Oil Viscosity Grade

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont  
1007 Market Street  
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.  
302-774-1000)  
Transport Emergency : CHEMTREC 1-800-424-9300 (outside U.S.  
703-527-3887)  
Medical Emergency : 1-800-441-3637 (outside the U.S.  
302-774-1000)

-----  
COMPOSITION/INFORMATION ON INGREDIENTS  
-----

Components

Material CAS Number %  
Perfluoroalkylether 60164-51-4 100  
-----

-----  
HAZARDS IDENTIFICATION  
-----

\* Potential Health Effects

Skin contact may cause reddening of the skin. The product was not a skin irritant or skin sensitizer in a 100 person human patch test.

Based on data from animal tests, eye contact may cause eye irritation with discomfort, tearing or blurring of vision.

Inhalation of fluorine containing compounds released as decomposition products from overheated or burning product may cause lung irritation and pulmonary edema which require medical treatment.

TP040326

## (HAZARDS IDENTIFICATION - Continued)

## Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

-----  
FIRST AID MEASURES  
-----

## \* First Aid

## INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

## SKIN CONTACT

The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

## EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

## INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

## Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

-----  
FIRE FIGHTING MEASURES  
-----

## Flammable Properties

Flash Point : Does not ignite  
Method : FMOC

Non-combustible

## Extinguishing Media

As appropriate for combustibles in area.

TP848327

## (FIRE FIGHTING MEASURES - Continued)

## Fire Fighting Instructions

Wear self-contained breathing apparatus. Wear full protective equipment.

Decomposition at flame temperatures may form toxic fluorine compounds. Avoid breathing decomposition products.

-----  
ACCIDENTAL RELEASE MEASURES  
-----

## Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

## Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

## Accidental Release Measures

Place in container for disposal. Remove source of heat and flame.

-----  
HANDLING AND STORAGE  
-----

## Handling (Personnel)

Perfluoropolyether oils are considered to be inert and of low toxicity. However, as with all lubricants it is important to observe correct hygiene practices. Avoid contact with eyes. Avoid contact with skin. Wash thoroughly after handling.

## Storage

Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Keep away from heat and flames to avoid decomposition products.



-----  
**EXPOSURE CONTROLS/PERSONAL PROTECTION**  
-----**Engineering Controls**

Keep container tightly closed.

Use ventilation when the oil is heated above 550 degF. Keep away from heat and flames.

**Personal Protective Equipment****EYE/FACE PROTECTION**

Wear safety glasses or coverall; chemical splash goggles.

**RESPIRATOR**

Wear NIOSH approved respiratory protection as appropriate.

**PROTECTIVE CLOTHING**

Where there is potential for skin contact have available and wear as appropriate, impervious gloves, apron, pants, and jacket.

**Exposure Guidelines****Exposure Limits****"KRYTOX" GPL-10X FLUORINATED OILS**

PEL (OSHA) : None Established  
TLV (ACGIH) : None Established

-----  
**PHYSICAL AND CHEMICAL PROPERTIES**  
-----**Physical Data**

Solubility in Water : Negligible WT%  
pH : Neutral  
Odor : Odorless  
Form : Liquid, Viscous oil  
Color : Colorless  
Specific Gravity : 1.86-1.91 @ 24 deg C (75 deg F)  
Pour Point : -57 to -37.7 deg C (-70.6 to -35.9 deg F)

-----  
STABILITY AND REACTIVITY  
-----

## Chemical Stability

Stable.

## Incompatibility with Other Materials

None reasonably foreseeable.

## Decomposition

Heating above 350 degC (662 degF) may form potentially toxic fluorine compounds. Depolymerization may occur in the presence of some metal oxides at temperatures above 288 degC (550 degF). Decomposition occurs at increasing rates as temperature is raised above 355 degC (670 degF).

## Polymerization

Polymerization will not occur.

-----  
TOXICOLOGICAL INFORMATION  
-----

## \* Animal Data

## Perfluoroalkylether:

Inhalation 4 hour ALC:	>19.54 mg/L in rats
Skin Absorption ALD:	>17,000 mg/kg in rabbits
Oral ALD:	>25,000 mg/kg in rats

The product is a mild skin and eye irritant, but is not a skin sensitizer in tests on animals. A single inhalation exposure caused nonspecific effects such as respiratory irritation. Exposure to thermal decomposition products produced irritation, irregular respiration, tremors and increased liver weight. Repeated inhalation exposures to 10, 100, or 1000 mg/m<sup>3</sup> caused increased lung weights and microscopic particle-laden macrophages in the lungs and lymph nodes; this was an expected pulmonary response to high aerosol concentrations of an inert material. No animal test reports are available to define carcinogenic, developmental, or reproductive hazards. Tests have shown that the product did not cause genetic damage in bacterial cell cultures.

-----  
DISPOSAL CONSIDERATIONS  
-----

## Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

-----  
TRANSPORTATION INFORMATION  
-----

## Shipping Information

Not Regulated as a hazardous material by DOT, IMO, or IATA.

-----  
REGULATORY INFORMATION  
-----

## U.S. Federal Regulations

TSCA Inventory Status : Reported/Included.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes  
Chronic : No  
Fire : No  
Reactivity : No  
Pressure : No

-----  
OTHER INFORMATION  
-----

## NFPA, NPCA-EMIS

NPCA-EMIS Rating  
Health : 1  
Flammability : 0  
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

-----  
The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : MEDE Coordinator  
Address : DuPont Chemical Solutions Enterprise  
Wilmington, DE 19898  
Telephone : 800-441-7515

TP040331

(Continued)

# Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS

## **OWNER'S LETTER**

Dear Nissan Owner,

At Nissan, we take pride in the quality of our products, and your satisfaction is vitally important to us. During the course of ongoing Quest production several product enhancements were incorporated into Quests built after your Quest was manufactured. While you may never experience the conditions that prompted these improvements, we would like to offer you the opportunity to have your vehicle upgraded free of charge.

These upgrades for your Quest fall into three areas: squeaks and rattles; ease of component operation; and an air conditioning label replacement. The upgrades will include the installation of a noise reduction kit for the sliding doors and structural insulation in the body above the rear door. Additionally, your dealer will replace the driver power window switch; shifter lever; 2<sup>nd</sup> row seat levers; throttle pedal; and ball studs that mount the rear door support struts. The reading lamps will be modified to improve operation and an A/C servicing label will be replaced with a new one. Depending upon when your Quest was manufactured, one or more of these improvements may already have been installed in your vehicle. Your Nissan dealer will be informed of the specific actions required for your vehicle and has been authorized to perform all that apply.

Nissan is conducting the Quest Customer Satisfaction Initiative to ensure your continued confidence and satisfaction with your Quest. We hope that you will take prompt advantage of the Quest Customer Satisfaction Initiative by scheduling your appointment as soon as possible. In addition, if you have previously paid for any of the repairs or upgrades covered by this initiative, Nissan will reimburse you for any reasonable, documented expenses. (Please call 1-800-753-9781 to make a claim.)

**Please also note that all upgrades which are part of the Quest Customer Satisfaction Initiative MUST be completed no later than June 30, 2005.**

Again, therefore, you are urged to schedule an appointment at your earliest convenience. Please bring this notice with you when you arrive for your appointment.

We at Nissan look forward to serving your automotive needs now and for many years to come. Thank you for your cooperation. We are indeed sorry for any inconvenience this may cause you.

**NISSAN NORTH AMERICA**



# SERVICE BULLETIN

Classification:

BT04-014a

Reference:

NTB04-053a

Date:

October 27, 2004

## CUSTOMER SATISFACTION INITIATIVE

**IMPORTANT: THIS BULLETIN HAS BEEN REVISED.**

The Power Sliding Door Re-Initialization procedure was revised.

Please use this bulletin (NTB04-053a) ONLY.

Discard all previous copies of NTB04-053.

**APPLIED VEHICLE:** 2004 Quest (V42)

**APPLIED VINS:** Refer to Chart A (page 3)

**NOTE:** You **MUST** use Service Comm to confirm:

- Bulletin Applicability
- Which upgrades contained in this bulletin need to be performed

For a list of upgrades contained in this bulletin see Chart A (page 3).

### SERVICE INFORMATION

As part of Nissan's commitment to continually improve both the quality and durability of our products, Nissan is offering owners of 2004 Quests the opportunity to have their vehicle upgraded with a number of production changes that have been incorporated in Quests manufactured after their vehicle was produced. With this Quest Customer Satisfaction Initiative, all Nissan dealers are authorized to perform these service upgrades at no cost to the customer. This Customer Satisfaction Initiative is intended to address any related symptoms a Quest customer may currently be experiencing and, to maximize the driving experience of Quest owners by preventing the related symptoms from occurring in the future.

In order to take advantage of Nissan's Quest Customer Satisfaction Initiative, Nissan Quest owners must contact their Nissan dealer and schedule a service appointment. This initiative will expire on June 30, 2005, and all related service and upgrades must be completed no later than June 30, 2005.

## **SERVICE INFORMATION (Cont'd)**

These upgrades fall into three areas: squeaks and rattles; ease of component operation; and an air conditioning label replacement. The upgrades will include the installation of a noise reduction kit for the sliding doors and structural insulation in the body above the rear door. Additionally, the driver power window switch; shifter lever; 2nd row seat levers; throttle pedal; and ball studs that mount the rear door support struts will be replaced. The reading lamps will be modified to improve operation and an A/C servicing label will be replaced with a new one.

Depending upon when a specific Quest vehicle was manufactured, one or more of these improvements may already have been installed in the vehicle. Use Service Comm to determine the specific actions required for a vehicle that enters your service area for any reason. Some vehicles may also be affected by the Quest Front Passenger Occupant Detection System (ODS) and the Quest Power Sliding Door Recall Campaign. It is important that you check Service Comm when a Quest owner contacts your dealership to schedule an appointment and, based on the repairs required for the specific vehicle, inform the customer of the length of time the vehicle will be at your dealership.

Nissan is taking this action to ensure Quest owners have continued satisfaction with their vehicle. Please encourage Nissan Quest owners who may be affected by the Quest Customer Satisfaction Initiative to take advantage of this opportunity to improve the performance and durability of their Quest vehicle.

## Chart A

Service Procedure	PNC	VIN:		Affected Vehicles	Affected Models	Description	See Page
		5N1BV From	To				
A	B0123	300000		43,155	All	Inspect/Upgrade Rear Hatch Hinge Area	6
B	B0116	300000		45,278	All	Replace Rear Hatch Strut Ball Studs	12
C	B0116	300000		18,662	All	Replace AT Shift Handle	13
D	B0117	300008		3,575	"S"	Replace Driver Door Switch Module	15
E	B0114	300000		36,364	All	Replace Second-Row Seat Adjustment Handles	17
F	B0120	300000		1,756	All	Replace Accelerator Pedal	19
G	B0119	300000		7,452	"S" & "SL"	Upgrade Personal Roof Lamps	21
H	B0121	300888		1,597	All	Install New A/C Specification Label	22
J	B0122	300000		45,741	All	Sliding Door Squeak and Rattle Upgrade	23

**NOTE:** The service procedures jump from "H" to "J". There is no service procedure "I".



**PARTS INFORMATION****B0114**

DESCRIPTION	PART NUMBER	QUANTITY
Second-Row Seat Adjustment Handle (Color Code "K")	88346-5Z000	2
Second-Row Seat Adjustment Handle (Color Code "C")	88346-5Z001	2
Second-Row Seat Adjustment Handle (Color Code "G")	88346-5Z002	2

**B0115**

DESCRIPTION	PART NUMBER	QUANTITY
Rear Hatch Strut Ball Stud	90456-7Z010	4

**B0116**

DESCRIPTION	PART NUMBER	QUANTITY
A/T Shift Handle	34910-CK007	1

**B0117**

DESCRIPTION	PART NUMBER	QUANTITY
Driver Door Control Panel Switch Module	25401-5Z002	1 **

**B0119**

No Parts Required		
-------------------	--	--

**B0120**

DESCRIPTION	PART NUMBER	QUANTITY
Accelerator Pedal Assembly	18005-5Z000	1 **

**B0121**

DESCRIPTION	PART NUMBER	QUANTITY
A/C Label	27090-5Z001	1 **

**B0122**

DESCRIPTION	PART NUMBER	QUANTITY
Sliding Door Squeak and Rattle Kit	82308-5Z000	1

**B0123**

DESCRIPTION	PART NUMBER	QUANTITY
Adhesive Cartridge / Mixing Nozzle	80910-5Z000*	1 (per vehicle)

\* Order from your local Parts Distribution Center (PDC).

\*\* Do NOT over-order these parts as only a limited number of vehicles are affected. See Chart A (page 3) for the number of affected vehicles.

## CLAIMS INFORMATION

For each upgrade performed, submit a separate "CM" line claim using the following claims coding information, as appropriate:

### "CM" I.D.: B0114

DESCRIPTION	OP CODE	FRT
RPL 2 <sup>nd</sup> – Row Seat Adjustment Handles	B01140	0.2 hrs

### "CM" I.D.: B0115

DESCRIPTION	OP CODE	FRT
RPL Rear Hatch Strut Ball Studs	B01150	0.2 hrs

### "CM" I.D.: B0116

DESCRIPTION	OP CODE	FRT
RPL A/T Shifter Handle	B01160	0.2 hrs

### "CM" I.D.: B0117

DESCRIPTION	OP CODE	FRT
RPL Driver Door Control Panel Switch Module	B01170	0.2 hrs

### "CM" I.D.: B0119

DESCRIPTION	OP CODE	FRT
Upgrade Roof Lamps	B01190	0.4 hrs

### "CM" I.D.: B0120

DESCRIPTION	OP CODE	FRT
RPL Accelerator Pedal	B01200	0.2 hrs

### "CM" I.D.: B0121

DESCRIPTION	OP CODE	FRT
RPL A/C Label	B01210	0.2 hrs

### "CM" I.D.: B0122

DESCRIPTION	OP CODE	FRT
Install Sliding Doors Squeak & Rattle Kit	B01220	1.6 hrs

### "CM" I.D.: B0123

DESCRIPTION	OP CODE	FRT
Apply Structural Adhesive To Rear Hatch Hinge Areas	B01230	0.4 hrs

## SERVICE PROCEDURES

### Procedure A (B0123) - Inspect/Upgrade Rear Hatch Hinge Area

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

#### Inspect Rear Hatch Hinge Area

1. Open the Rear Hatch.
2. Inspect the painted sheet metal surface directly behind (towards the rear of vehicle) each Hinge for crack(s). See Figure A1.

**NOTE:** Use a florescent light to inspect the painted sheet metal surface.

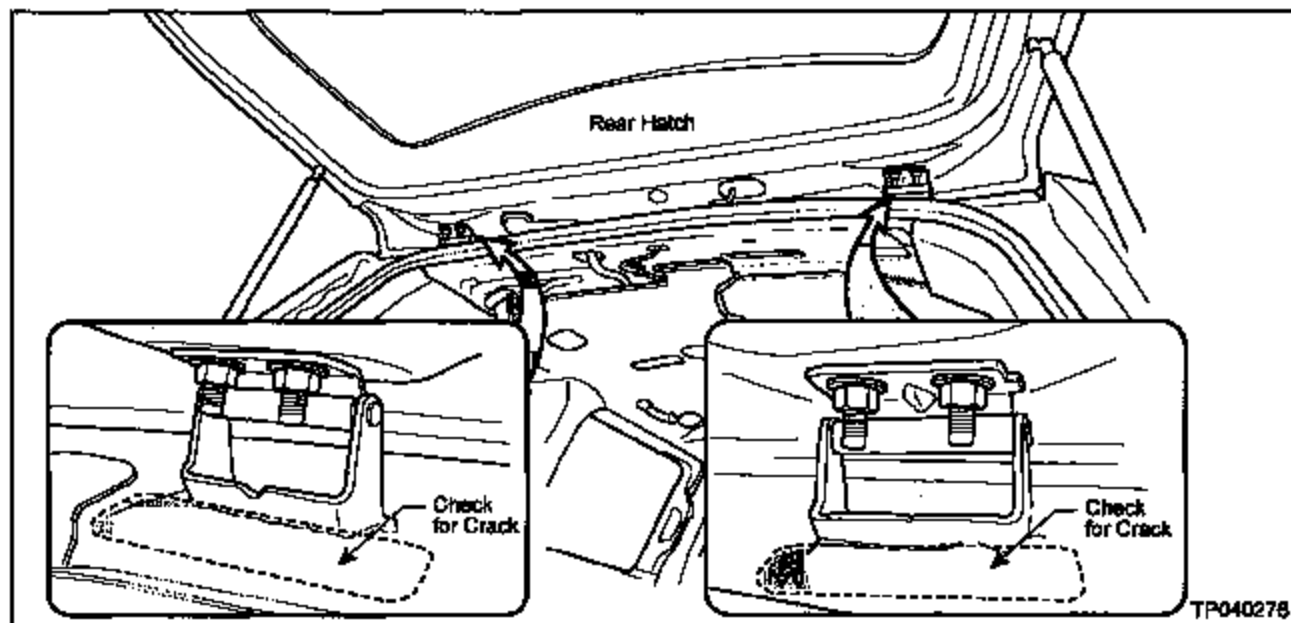


Figure A1

- a. If there is **NO** cracking:
  - Go to the **Apply Structural Adhesive** procedure (next page).
- b. If there **is** cracking:
  - Call the NNA Assurance Products Claims Call Center for claims authorization.
  - Send the vehicle to the body shop.
  - Then go to the **Apply Structural Adhesive** procedure (next page).

**NOTE:** Make sure all of the applicable upgrades in this bulletin are performed on the vehicle either before or after the body shop activity is completed.

## Apply Structural Adhesive

### CAUTION:

- Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.
- Keep the Structural Adhesive from freezing and excessive heat (100°F).
- **Do NOT use Structural Adhesive that has expired. Make sure you check the expiration date on the Structural Adhesive label before you use it.**

1. Place some cloth fender covers over the rear area carpeting and rear bumper (see Figure A2).

- Place a clean shop rag on the fender cover. You will need a place to lay down the used adhesive cartridge nozzle and wood spreading stick.

2. Fold the third-row bench seat forward by pulling on the release handle located in the center, backside of the seat.

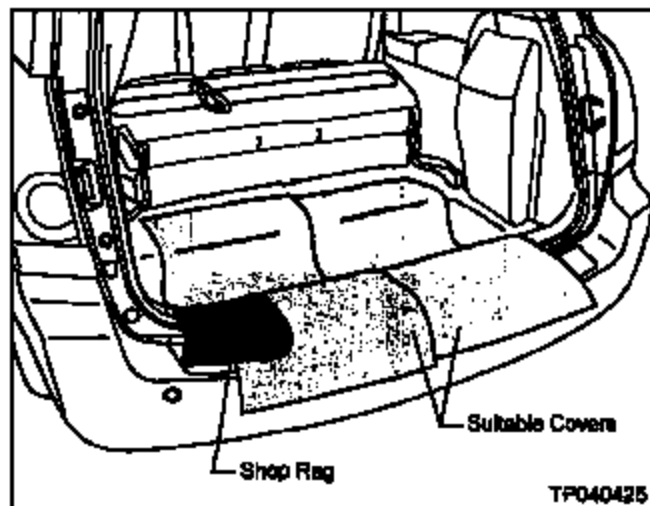


Figure A2

3. Remove the Upper Rear Roof Finisher as follows:

- a. Go to the Seat Belt that stretches from the roof to the third-row bench seat. Disconnect it from the seat buckle.
- b. Gently pull down on the Finisher to release the securing clips (see Figure A3).
- c. Guide the end of the Seat Belt (the one you just disconnected) up through the Finisher.
- d. Disconnect the Vehicle Harness from the Light in the Finisher (see Figure A3).

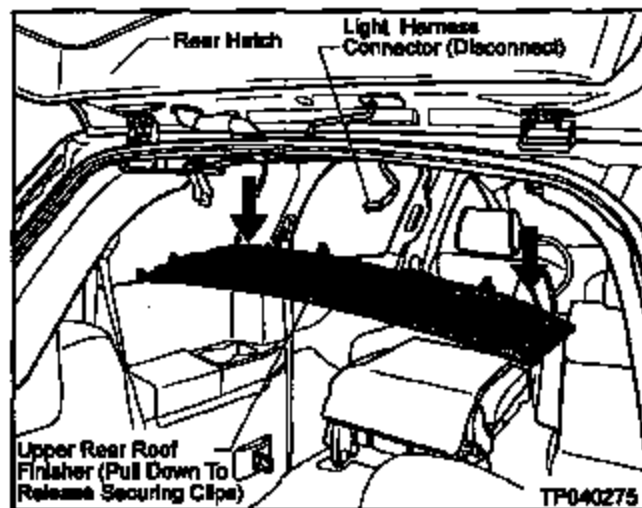


Figure A3

4. Going through the Hinge Mounting Access Holes (see Figure A4), use a clean shop towel to wipe the area around the Nuts/Bolts to remove any dust, dirt, and loose foreign material.
5. Apply protective masking tape:
  - To the bottom edges of the Side Finisher Panels (see Figure A4).
  - Over the Hinge Nuts/Studs (see Figure A4).
  - Around the Seat Belt and Buckle (see Figure A4).

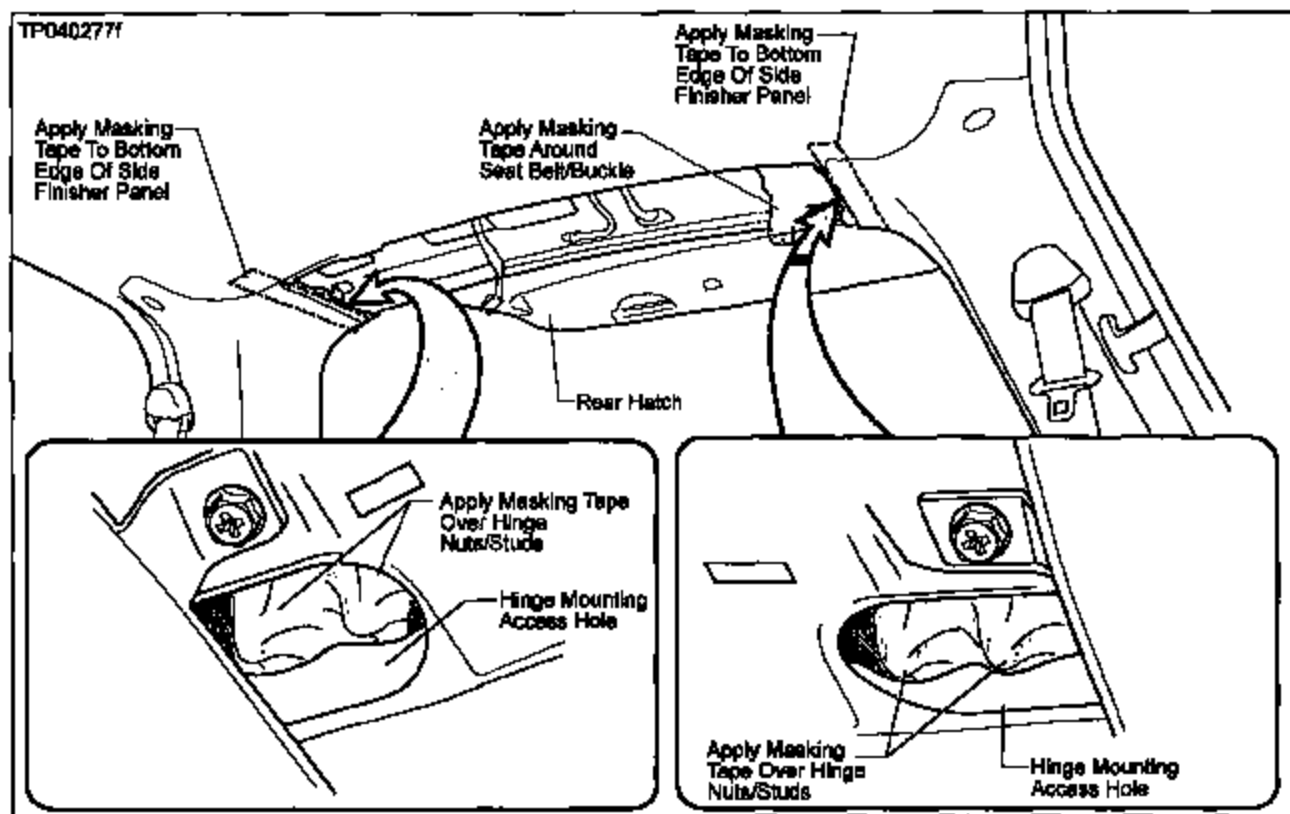


Figure A4

**CAUTION:** Use protective gloves and safety glasses, or a face shield when performing the following steps.

6. Prepare the Pneumatic Adhesive Gun (#J-47243) as follows:

- a. Remove the cap and break off the Adhesive Cartridge Seal Tip (see Figure A5).
- b. Screw the Mixing Nozzle onto the end of the Adhesive Cartridge.

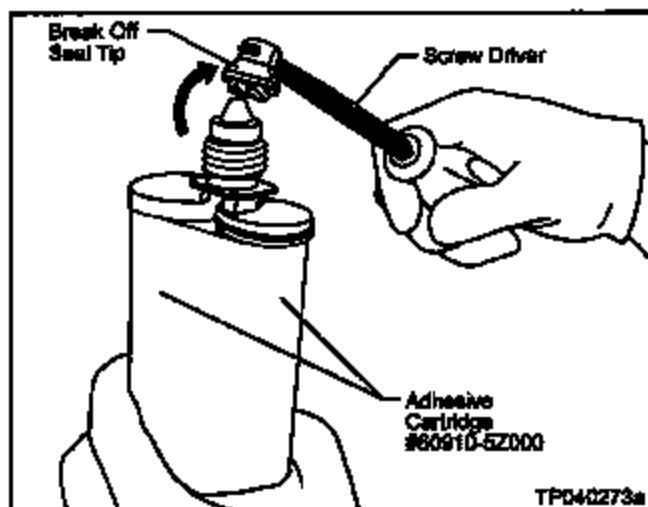


Figure A5

- c. Load the Adhesive Cartridge (with Mixing Nozzle) into the Pneumatic Adhesive Gun. See Figure A6.
- d. Connect shop air to the Pneumatic Adhesive Gun.
  - Make sure the shop supply air does NOT exceed 145 P.S.I.
- e. Set the Adjustment Knob (on the end of the Pneumatic Adhesive Gun) to the middle position. Adjust as needed from this point.

**CAUTION:** Make sure you wear suitable eye protection.

- f. Slowly pull the trigger on the Adhesive Gun until the "Purge" section of the Adhesive Cartridge is pushed through the Mixing Nozzle (see Figure A6) and on to a piece of cardboard to make sure the mixture is correct (dark pink color).

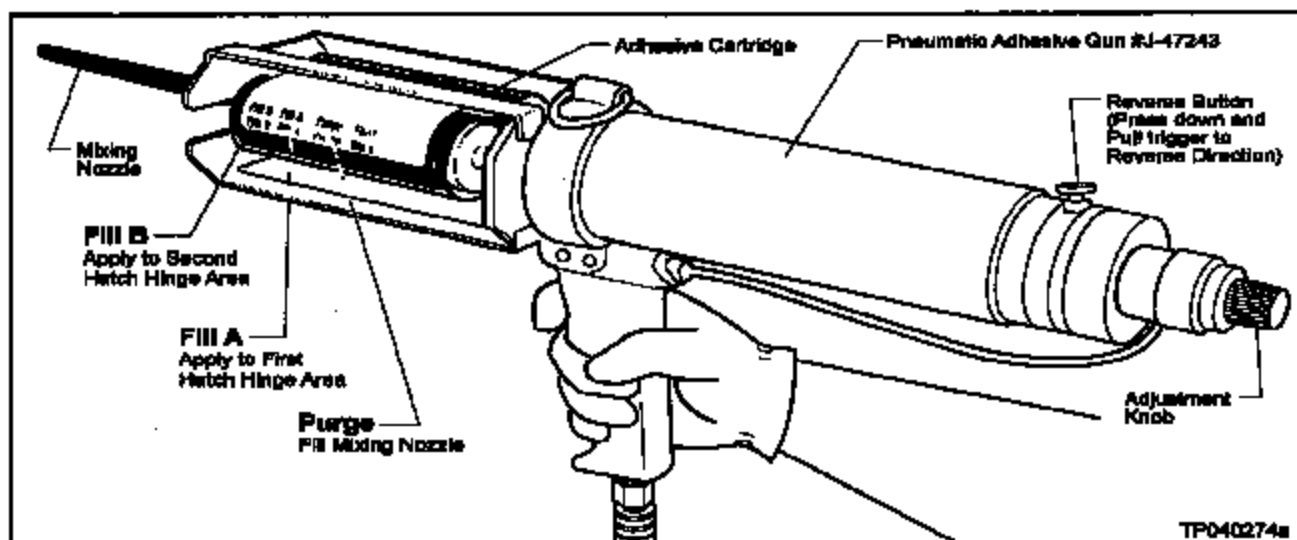


Figure A6

**NOTE:** To reverse the Adhesive Gun, press down on the Reverse Button and pull on the trigger.

7. Apply the Structural Adhesive #80910-5Z000 as follows:

**CAUTION:** Do NOT get the Adhesive on the:

- Hinge Nuts/Bolts (use masking tape to protect)
- Surrounding body sheet metal (use fender covers, etc. to protect)
- Interior panels, carpet, upholstery, etc. (use tape, fender covers, etc. to protect)

**Passenger Side Rear Hatch Hinge: (Use "Fill A" of Adhesive Cartridge ONLY)**

a. Going through the Hinge Mounting Access Hole, apply Adhesive until "Fill A" of the Cartridge is completely pushed out. See Figure A7.

- Make sure the Adhesive covers the edge of the Reinforcement (see **Cross Section View** in Figure A7).
- Use a wood stick (tongue depressor) to remove any voids (air pockets) and pack the adhesive around the back of the hinge. Do NOT get adhesive on Nuts/Studs.

**IMPORTANT:** When applying adhesive, make sure you leave enough room to get a socket wrench onto the Hinge Nuts (for future service work).

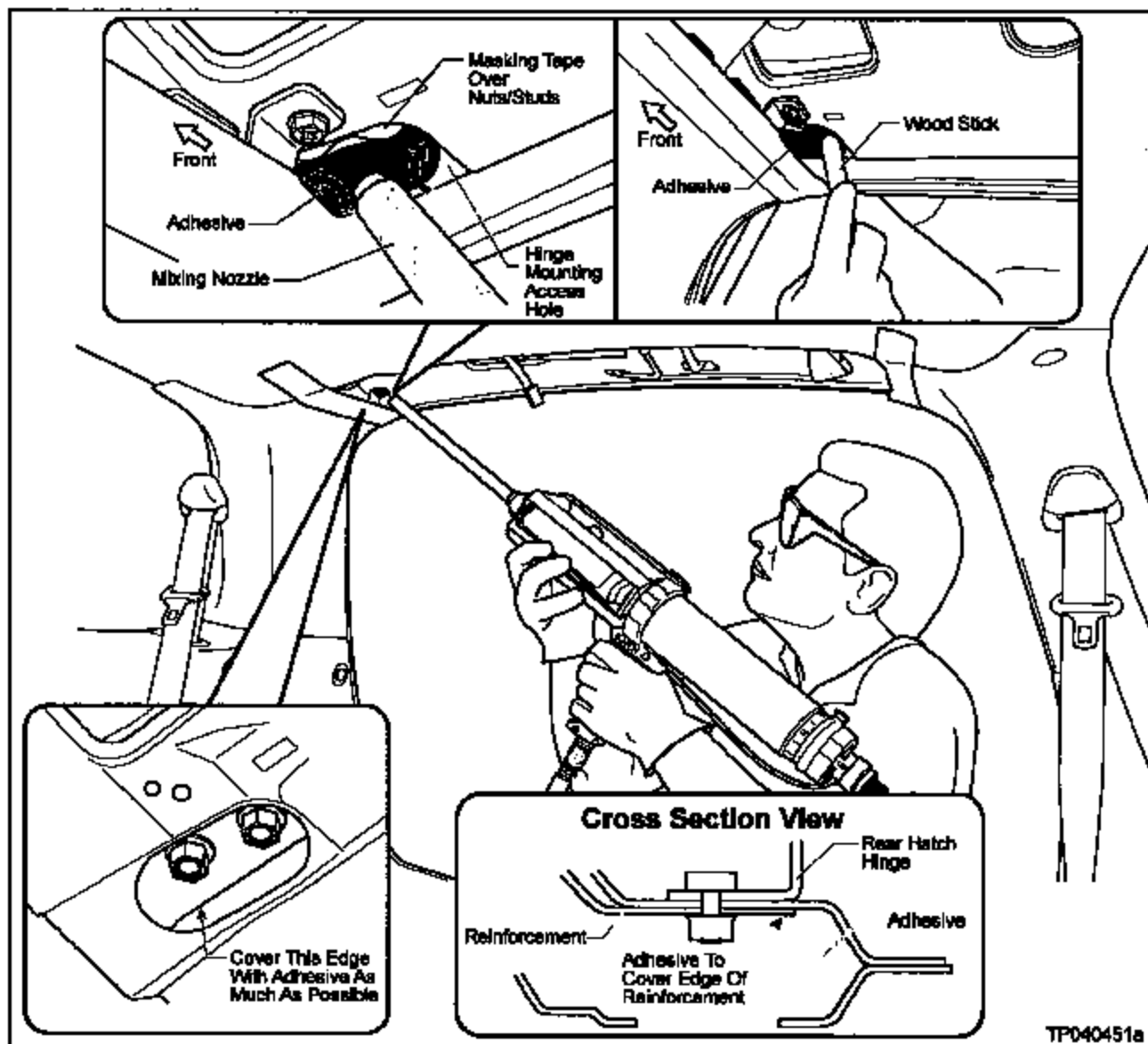


Figure A7

**Driver Side Rear Hatch Hinge: (Use "Fill B" of Adhesive Cartridge ONLY)**

- a. Going through the Hinge Mounting Access Hole, apply Adhesive until "Fill B" of the Cartridge is completely pushed out. See Figure A8.
    - Make sure the Adhesive covers the edge of the Reinforcement (see Cross Section View in Figure A8).
    - Use a wood stick (tongue depressor) to remove any voids (air pockets) and pack the adhesive around the back of the hinge. Do NOT get adhesive on Nuts/Studs.
- IMPORTANT:** When applying adhesive, make sure you leave enough room to get a socket wrench onto the Hinge Nuts (for future service work).

8. Remove all masking tape.

9. Re-install the Upper Rear Roof Finisher in the reverse order it was removed.

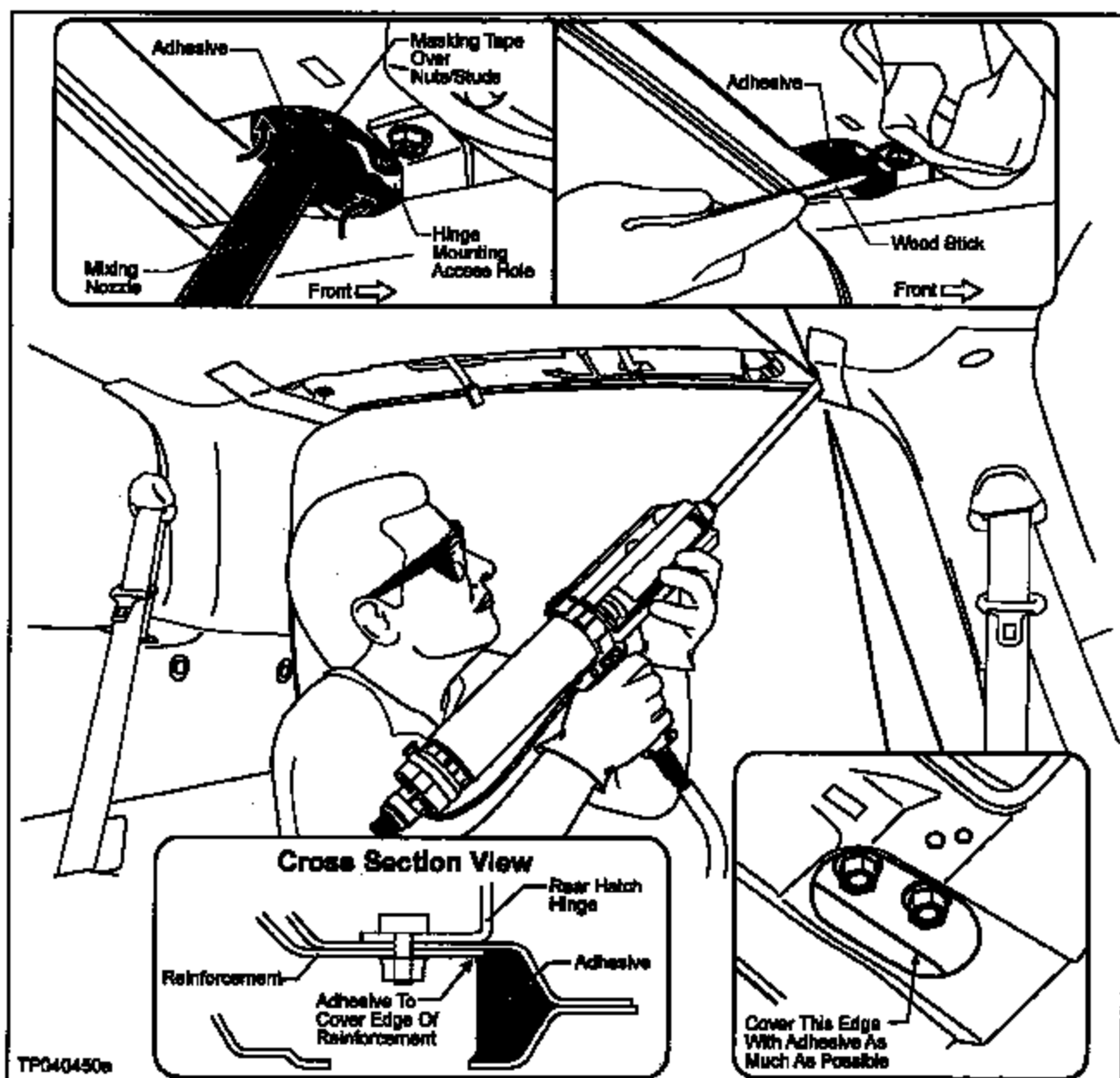


Figure A8



## **Procedure B (B0115) - Replace Rear Hatch Strut Ball Studs**

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

1. Replace all the Ball Studs for the left & right Rear Hatch Struts as follows:

**NOTE:** Perform the following procedure on one Rear Hatch Strut at a time.

- a. Open the Rear Hatch and insert a suitable support device (such as a Screw Jack) between the Hatch and the shop floor.

**CAUTION:**

- Proper support is important: the weight of the Rear Hatch door requires two (2) fully charged Gas Filled Struts to hold it open. One (1) strut, even with the motor and arm attached (if applicable), will not hold the rear hatch door open.
- Be careful not to damage the paint and trim when inserting the support device.

- b. Use a small flat-blade screwdriver to carefully pry out (part way) the Spring Clip at both Strut Ball Joints (see Figure B1). Don't remove the Clips completely.

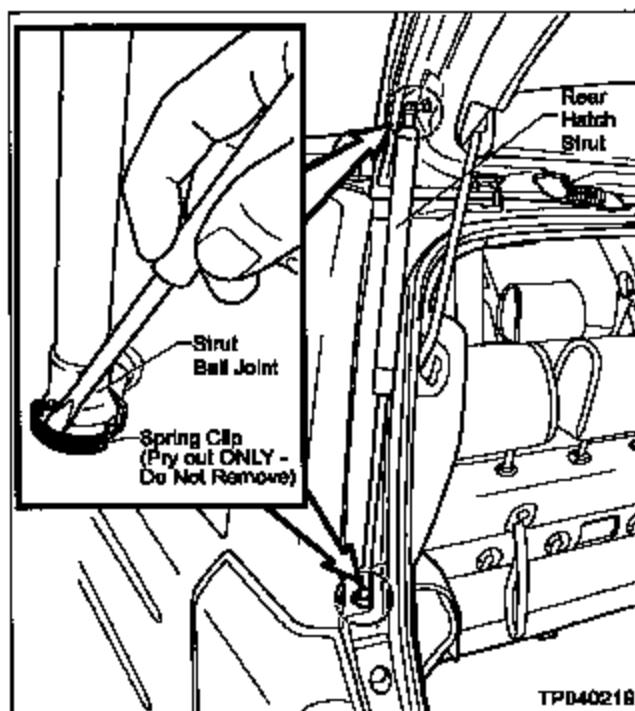


Figure B1

- c. Pull out (towards the rear of the vehicle) on the Strut Ball Joints to release it from the Ball Studs.
- d. Remove the Strut from the vehicle.

- e. Replace both Strut Ball Studs (see Figure B2).

- Remove any rubber sealant residue around the Body Threaded Hole.
- Tighten the Strut Ball Studs to:  
**15.7 - 18.6 N-m (1.6 - 1.9 kg-m,  
11.5 - 13.7 ft-lb).**

- f. Re-install the Rear Hatch Strut.

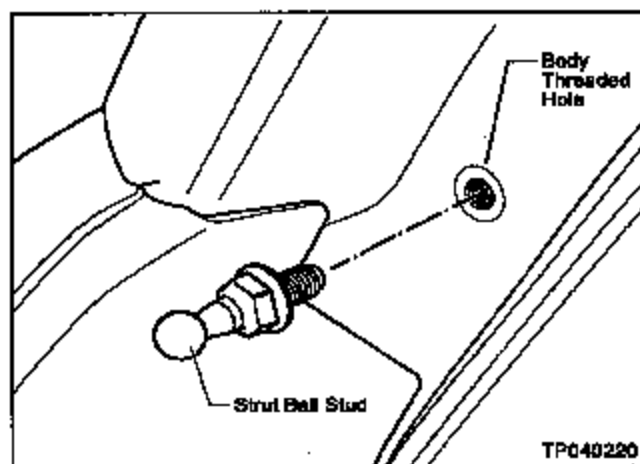


Figure B2

## **Procedure C (B0116) - Replace A/T Shift Handle**

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

1. Replace the A/T Shift Handle as follows:

- a. At the base of the A/T Shift Handle, slide the Plastic Cover down to reach the Release Clip (see Figure C1).

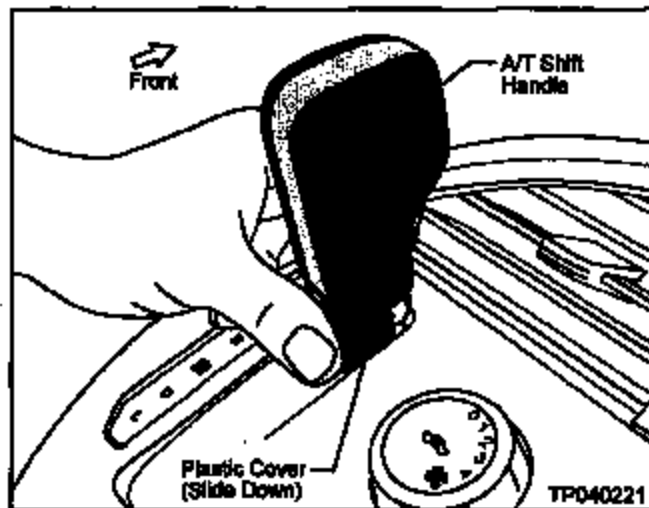


Figure C1

- b. Use a small flat blade screwdriver to carefully release the A/T Shift Handle Lock Clip (see Figure C2).

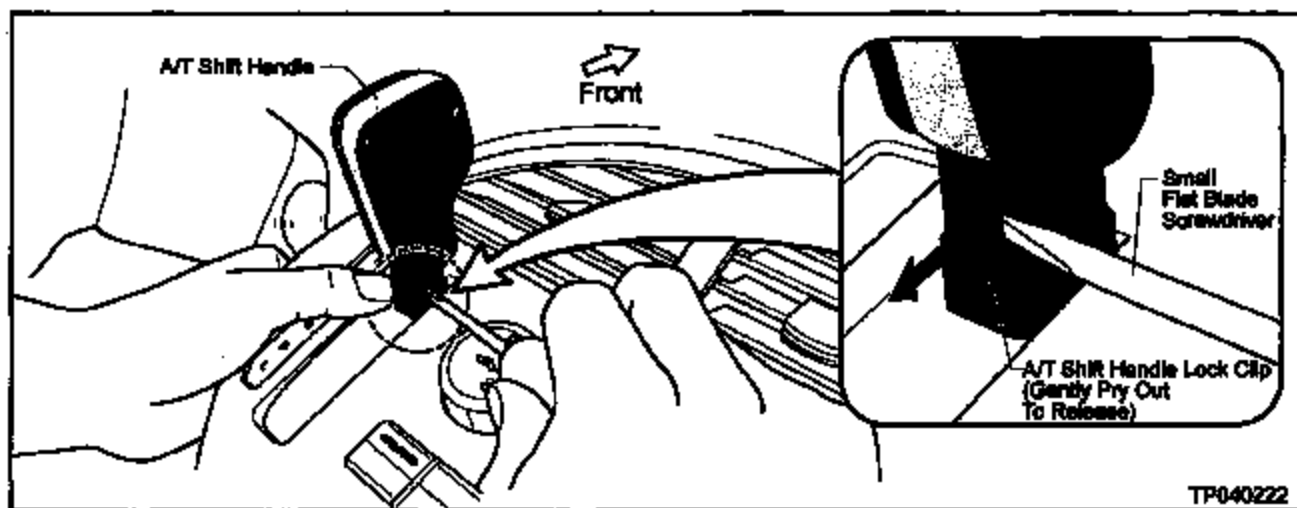


Figure C2

c. Now remove the A/T Shift Handle by lifting it straight UP (see Figure C3).

- Write "NG" on the old part and then discard it.

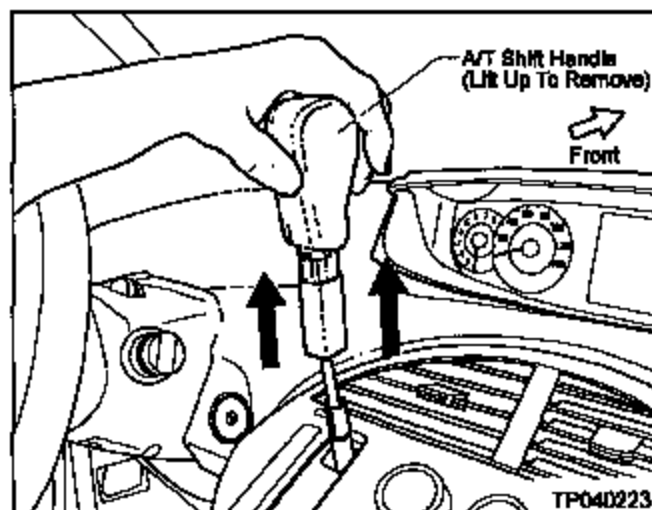


Figure C3

d. Install the new A/T Shift Handle.

- Press down on the new Handle until it "Clicks" (see Figure C4). The "Click" means that it is locked into position.
- At the base of the A/T Shift Handle, slide the Plastic Cover up so it covers the Release Clip.
- Confirm the new Shift Handle can not be removed by pulling up on it.
- Make sure the new Shift Handle operates properly and that all gears can be selected.
- Confirm the Over-Drive (O/D) Switch (on the A/T Shift Handle) operates properly.

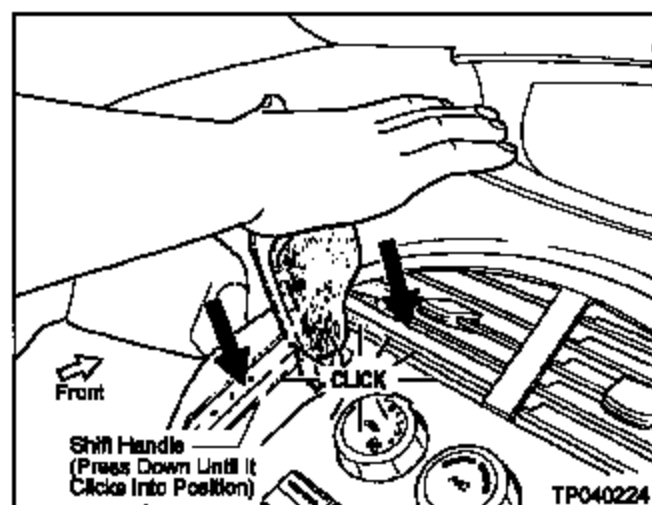


Figure C4

## Procedure D (B0117) - Replace Driver Door Switch Module

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

1. Replace the Driver Door Switch Module as follows:

- a. Remove the Plastic Cap and Screw from the Driver Door Switch Control Panel (see Figure D1).

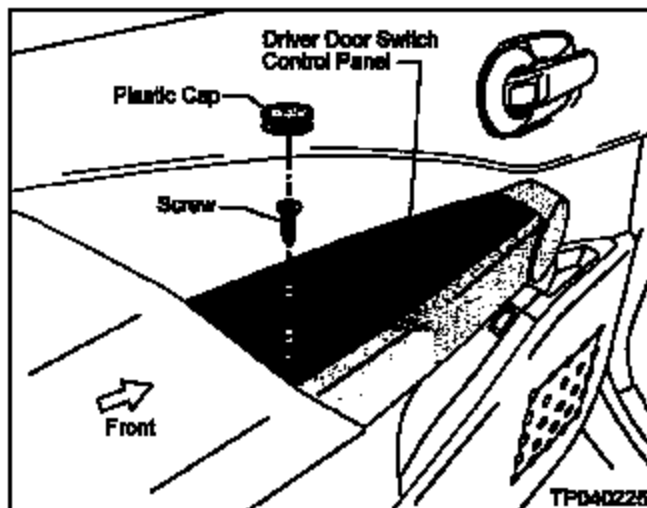


Figure D1

- b. Lift the rear of the Driver Door Switch Control Panel **UP** first. Then pull **REARWARD** to release the securing clip at the front of the panel. Turn the panel over and disconnect the Wire Harness Connectors (see Figure D2).

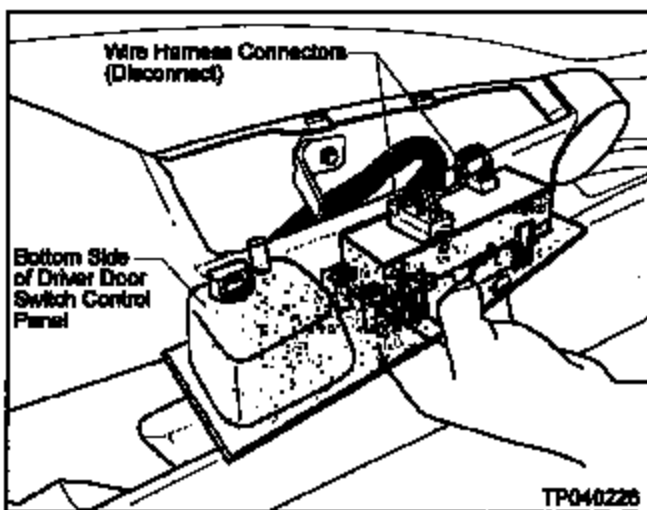


Figure D2

- c. Use a small flat blade screwdriver to release the four Plastic Clips from the Switch Module (see Figure D3).

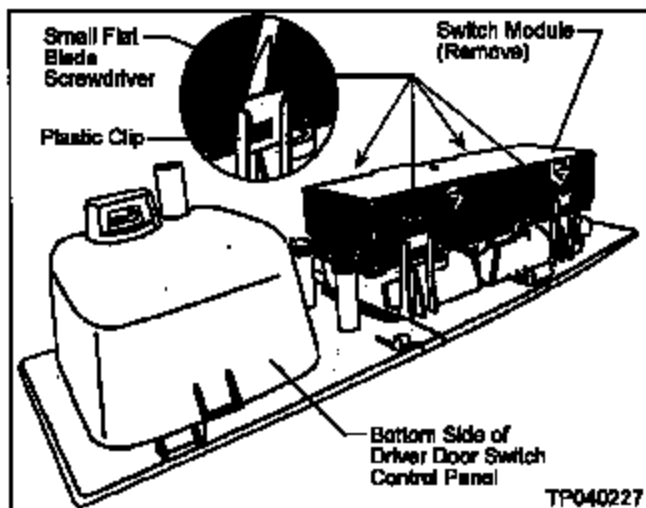


Figure D3

- d. Remove the Switch Module from the Control Panel (see Figure D4).
- Write "NG" on the old part and then discard it.
- e. Install the new Switch Module in the reverse order the old one was removed.
- f. Re-install the Door Switch Control Panel in the reverse order you removed it.
- Make sure all the switches operate properly.

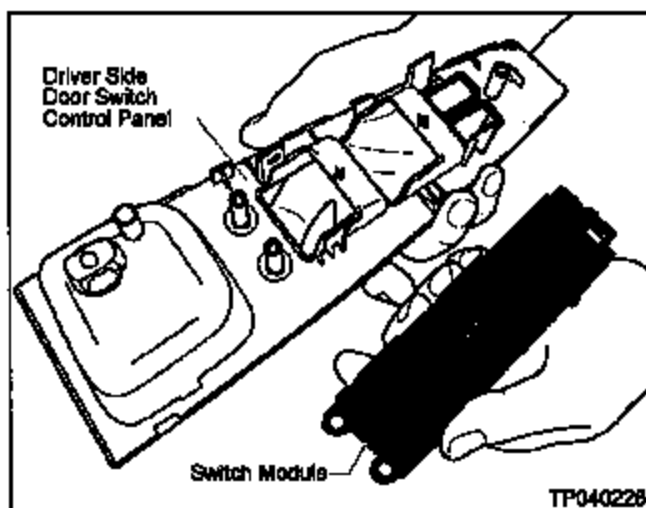


Figure D4

## **Procedure E (B0114) - Replace Second-Row Seat Adjustment Handles**

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

1. Move the second-row seats to the upright position.
2. Replace the Adjustment Handles as follows:

**NOTE:** Perform the following procedure on one Adjustment Handle at a time.

- a. Remove the Mounting Screw from the Inboard Seat Finisher, then release the Finisher from the attachment points (see Figure E1[A]).
- b. Carefully remove the Inboard Seat Finisher (see Figure E1 [B]).

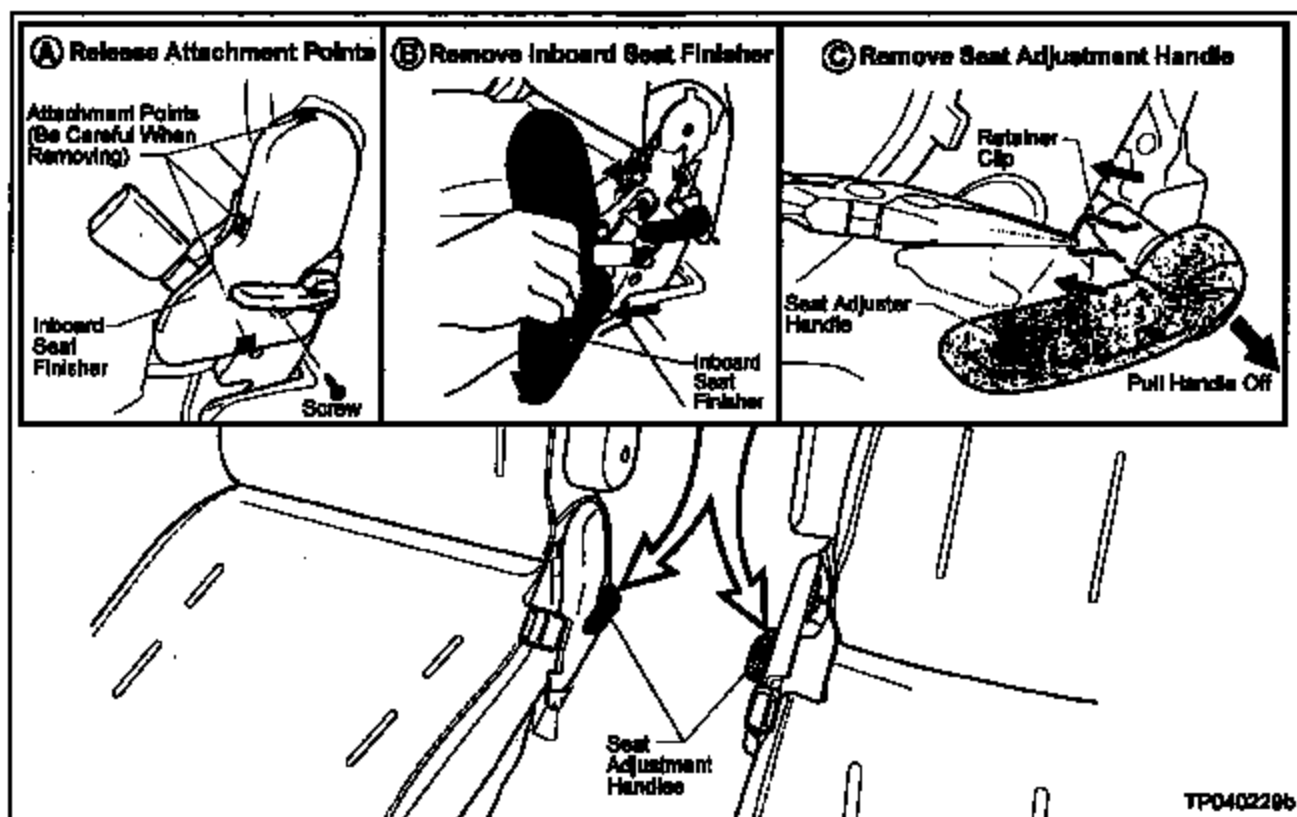


Figure E1

- c. Use needle nose pliers or a "hook" type tool to remove the Retainer Clip from the Seat Adjustment Handle. See Figure E1[C].
  - d. Carefully pull the Adjustment Handle off of the splined seat adjustment shaft. See Figure E1[C].
- Write "NG" on the old part and then discard it.

- e. Re-install the Inboard Seat Finisher and Screw.
- f. Install the new Adjustment Handle.
- Make sure the handle is properly positioned (points straight up). See Figure E2.
  - Then push the new handle onto the splined seat adjustment shaft until it clicks (locks) into place.

**NOTE:** The new Handle comes with a new Retainer Clip.

- g. Make sure the Adjustment Handle operates properly.

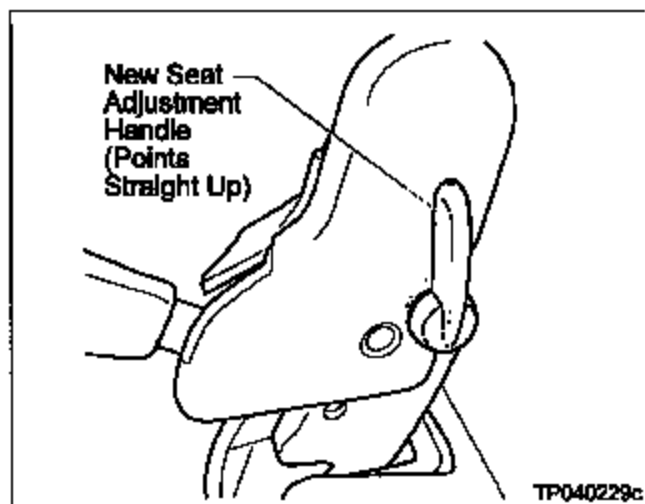


Figure E2

## Procedure F (B0120) – Replace Accelerator Pedal

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

### Vehicles With Adjustable Foot Pedal Assembly

**NOTE:** For vehicles without the Adjustable Foot Pedal Assembly, go to the next page.

1. Make sure the ignition key is in the OFF position.
2. Use the Foot Pedal Adjustment Switch (see Figure F1) to move the Pedal Assembly all the way towards the FRONT of the vehicle.
3. Disconnect the Vehicle Harness Connector from the Electronic Throttle Control (ETC) Assembly (see Figure F2).
  - To release the connector, press the release button (on the connector). See Figure F2.
4. Use the Foot Pedal Adjustment Switch to re-position the Pedal Assembly as needed to remove the three ETC mounting Nuts and Bolts (next step).
5. Remove and discard the three ETC mounting Nuts and Bolts (see Figure F2).
6. Remove the ETC Assembly.
  - Write "NG" on the old part and then discard it.
7. Using the new Nuts and Bolts, install the new ETC Assembly.
8. Tighten the Nuts/Bolts to 7 - 11 N-m (0.71 - 1.12 kg-m, 5.16 - 8.11 ft-lb.).
9. Re-connect the Vehicle Wire Harness to the new ETC Assembly. Re-position Pedal Assembly as needed to do this.
10. Confirm the Adjustable Foot Pedal Assembly operates properly.
11. Start the vehicle and confirm the ETC properly operates.
12. Use Consult to check for stored Self Diagnosis APP SEN codes.
  - Clear codes P2122 and P2127, if present.

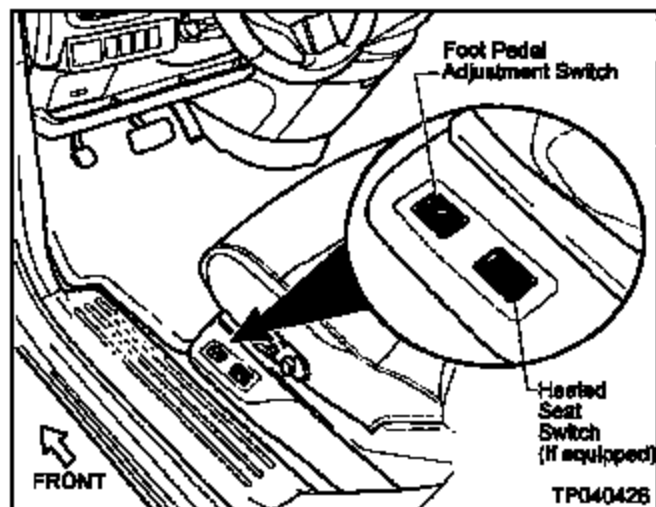


Figure F1

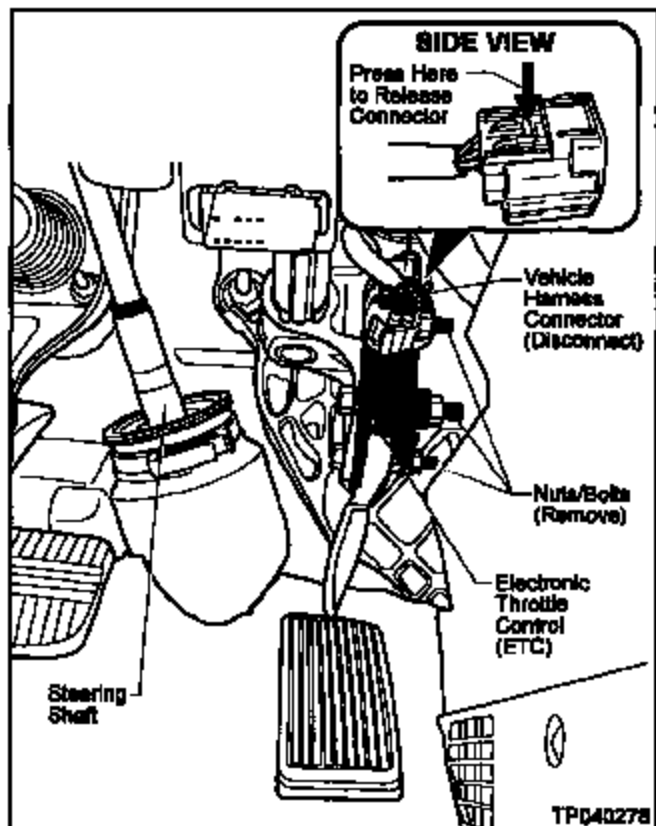


Figure F2



## **Vehicles Without Adjustable Foot Pedal Assembly**

1. Make sure the Ignition key is in the OFF position.
2. Disconnect the Vehicle Harness Connector from the Electronic Throttle Control (ETC) Assembly (see Figure F3).
  - To release the connector, press the release button (on the connector). See Figure F3.
3. Remove and discard the three ETC mounting Nuts and Bolts (see Figure F3).

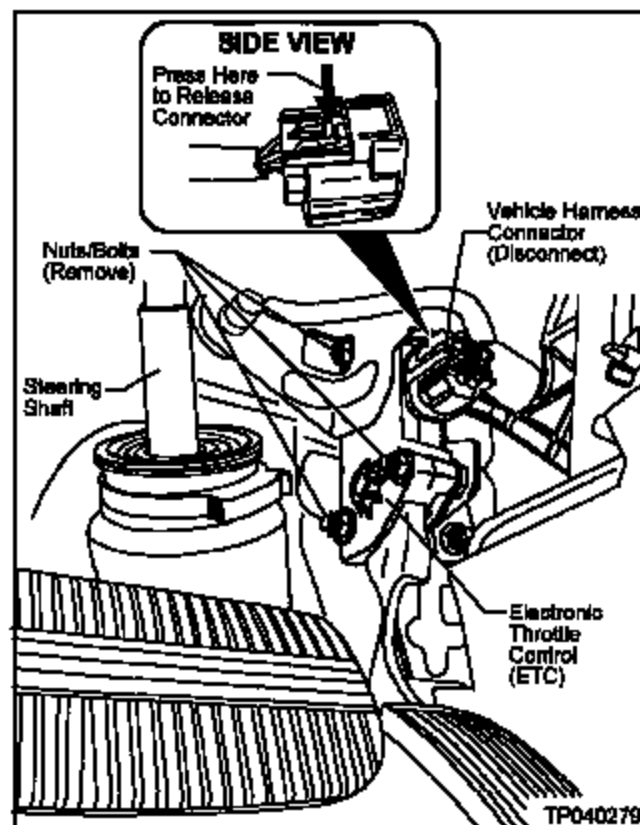


Figure F3

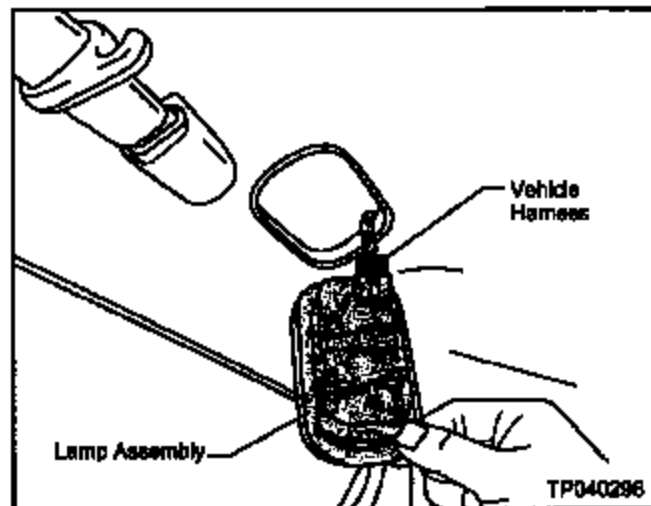
4. Remove the ETC Assembly.
  - Write "NG" on the old part and then discard it.
5. Using the new Nuts and Bolts, install the new ETC Assembly.  
**NOTE:** For ease of installation, the new top bolt can be installed in the reverse direction.
6. Tighten the Nuts/Bolts to 7 - 11 N-m (0.71 - 1.12 kg-m, 5.16 - 8.11 ft-lb.).
7. Re-connect the Vehicle Wire Harness to the new ETC Assembly.
8. Start the vehicle and confirm the ETC operates properly.
9. Use Consult to check for stored Self Diagnosis APP SEN codes.
  - Clear codes P2122 and P2127, if present.

## **Procedure G (B0119) – Upgrade Personal Roof Lamps**

Upgrade all four of the Personal Roof Lamps located in the head-liner as follows:

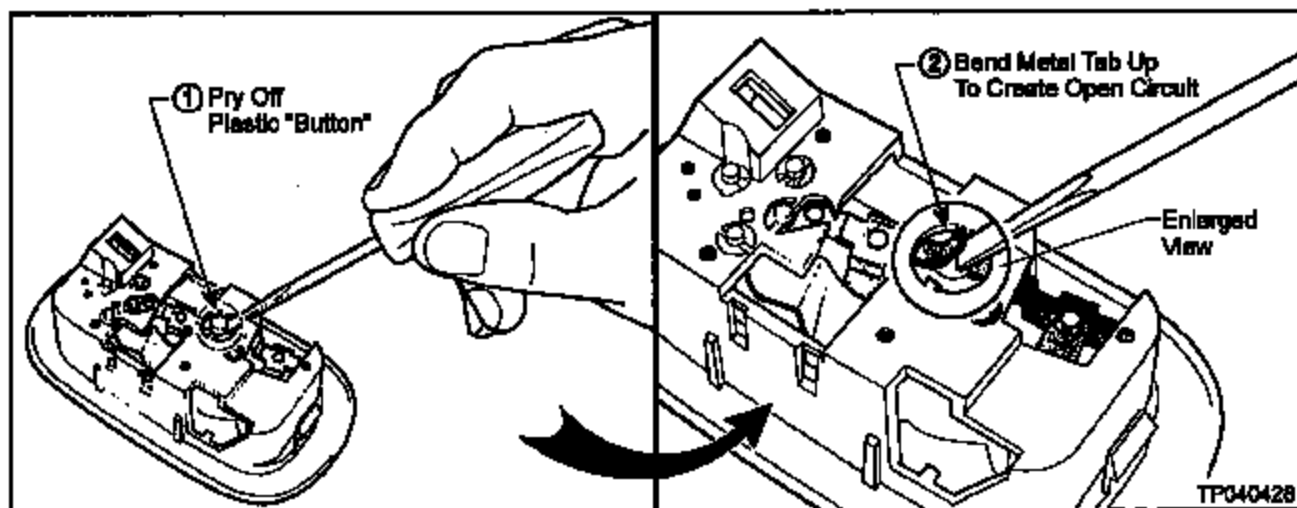
### **Lamp Upgrade (4 Lamps)**

1. Remove the Personal Lamp Assembly by carefully pulling it out of the headliner (see Figure G1).
2. Disconnect the Vehicle Harness from the Lamp Assembly.



**Figure G1**

3. Use a small screwdriver to separate/open the circuit (on the Lamp) at the location shown in Figure G2.
  - First, pry off the Plastic Button (see Figure G2).
  - Then, bend the Metal Tab UP to create an open circuit (see Figure G2).
4. Re-Install the Lamp Assembly.



**Figure G2**

## Procedure H (B0121) – Install New A/C Specification Label

1. Install a new A/C Specification Label as follows (see Figure H1).
  - a. Clean the surface of the old A/C Specification Label with Isopropyl Alcohol and let it dry.
  - b. Install the new A/C Specification Label on top of the old label.

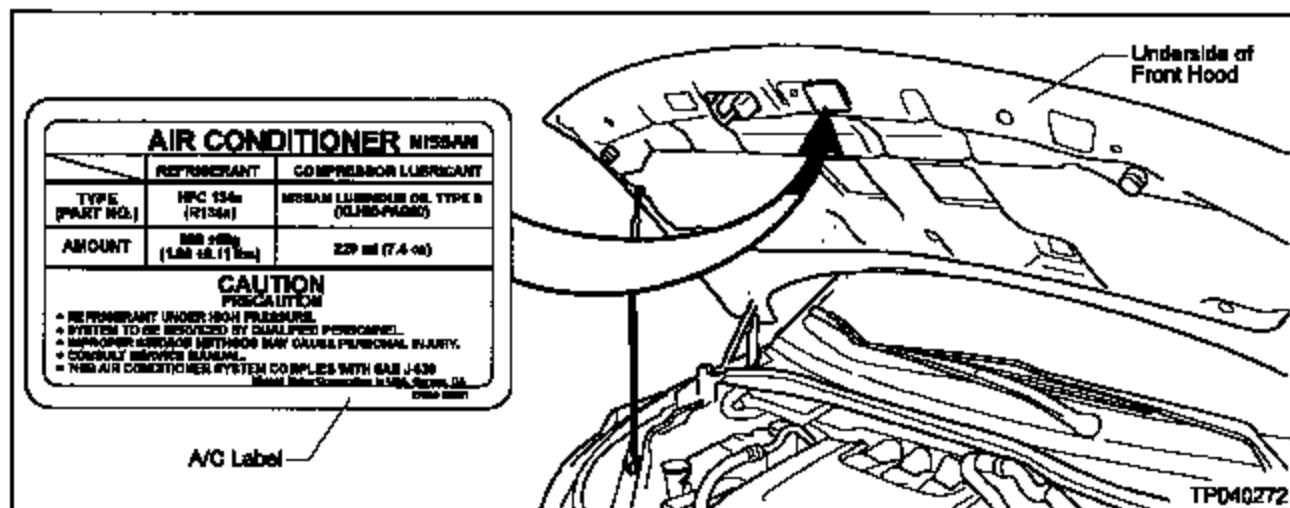


Figure H1

## **Procedure J (B0122) - Sliding Door Squeak and Rattle Upgrade**

**CAUTION:** Use suitable covers to protect upholstery, carpet, paint, etc. when performing this service procedure.

Use the following procedure to install the below Sliding Door Squeak and Rattle Kit P/N 82308-5Z000 on both sliding doors.

**NOTE:** Do NOT perform this procedure:

- While the vehicle is on a hoist

OR

- Just after the vehicle was on a hoist

The vehicle must be driven and allowed to "settle" before performing this procedure.

**NOTE:** The parts contained in the Squeak and Rattle Kit are for BOTH sliding doors.

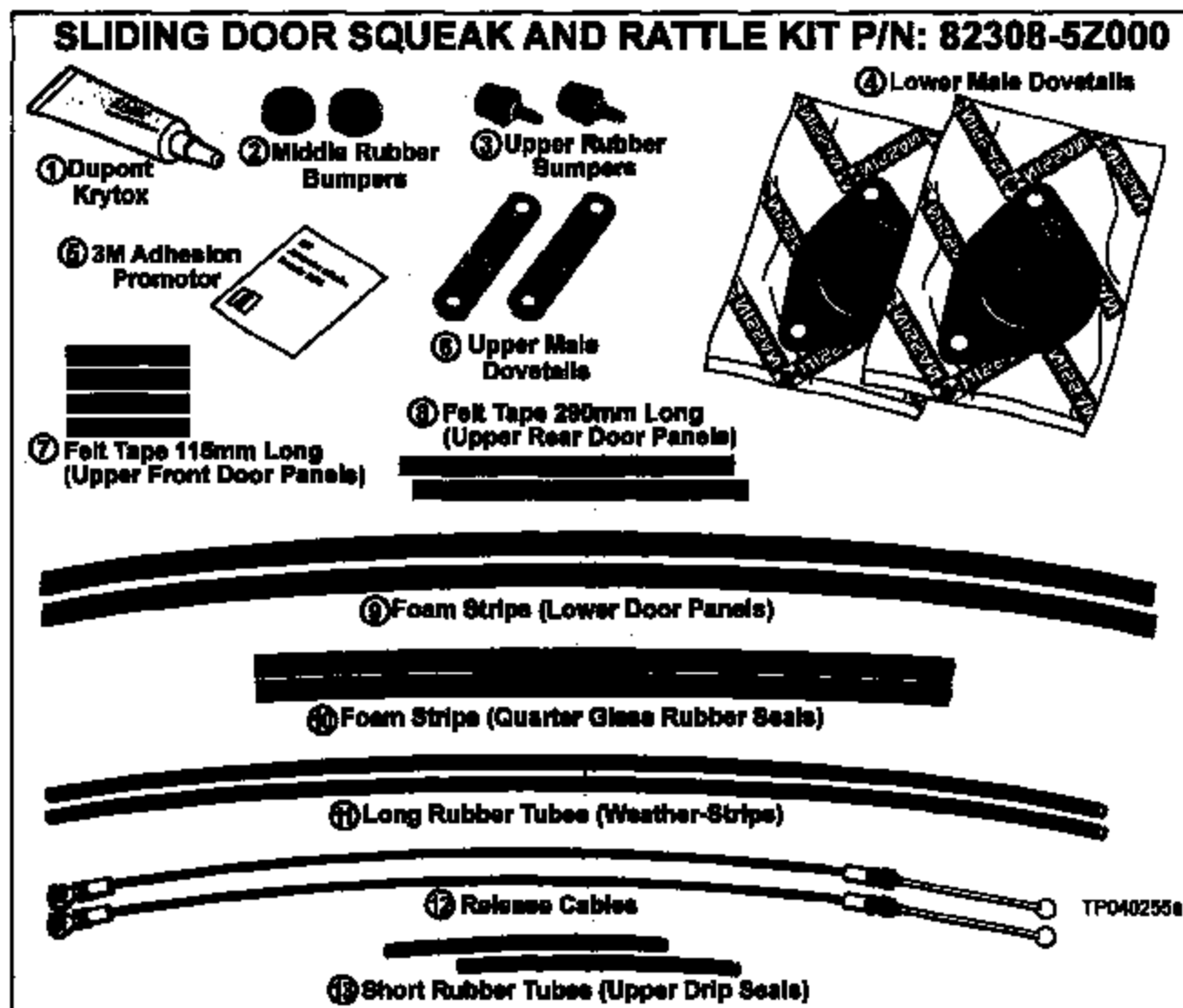


Figure J1

### Preliminary Steps (Steps 1 through 4 apply to "SL" and "SE" Models ONLY)

1. Write down all radio station presets.
2. Turn the ignition switch to the OFF position.
3. Turn the Power Sliding Door Main Power Switch to the OFF position (see Figure J2).
4. Disconnect the negative battery cable.

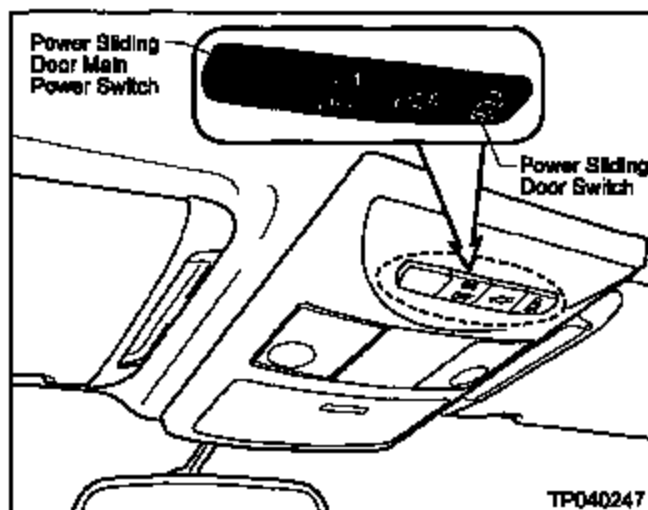


Figure J2

### Replace Rubber Bumpers

5. Open the Sliding Doors. Leave them open for now.
6. Remove and discard the Upper and Middle Rubber Bumpers (see Figure J3).
  - Use a counter-clockwise twisting and pulling motion to remove the old Rubber Bumpers.
7. Install the new Upper and Middle Rubber Bumpers from the kit (see #2 and #3 in Figure J1).
  - Apply some silicone lubricant to the backside of the new Rubber Bumpers to help with installation.
  - Use a clockwise twisting and pushing motion to install the new Rubber Bumpers.

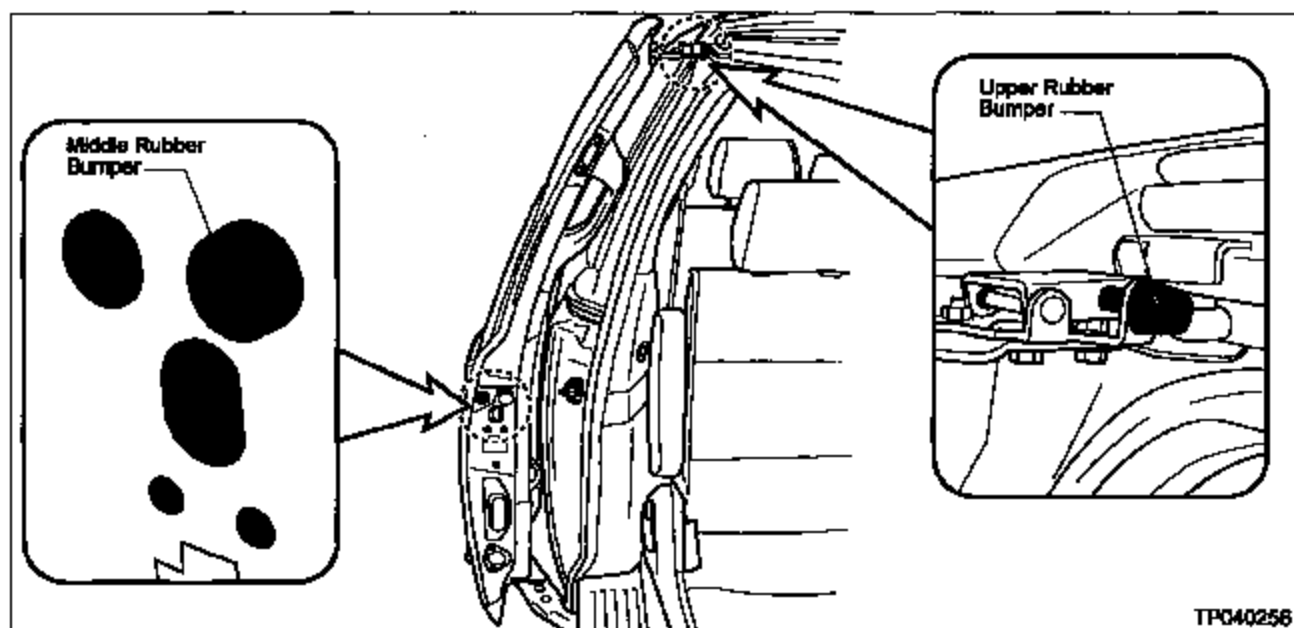


Figure J3

## Install Foam Strip To Underside Of Each Quarter Glass Front Edge Rubber Seal

8. Install the Foam Strip (#10 in Figure J1) to the underside of the Quarter Glass Front Edge Rubber Seals as follows:

### CAUTION:

- Do NOT get the Adhesion Promoter on the vehicle paint or interior trim, upholstery, etc. as permanent damage can occur.
- Refer to the attached Material Safety Data Sheets for proper use and handling.

**NOTE:** Perform the following steps on BOTH Quarter Glass Front Edge Rubber Seals at one time. The Adhesion Promoter applicator pad starts to dry out once the sealed packet is opened.

- a. Apply protective tape (such as masking tape) to the painted surface below/around the Rubber Seal (both sides).
- b. Wipe down the underside of the Rubber Seal with a clean, dry cloth to remove dust, dirt, and debris (both sides).
- c. Apply the Adhesion Promoter (see #5 in Figure J1) to the underside of the Rubber Seal (both sides). See Figure J4.
  - The Adhesion Promoter prepares the surface so the Foam Strip can be installed (next step).

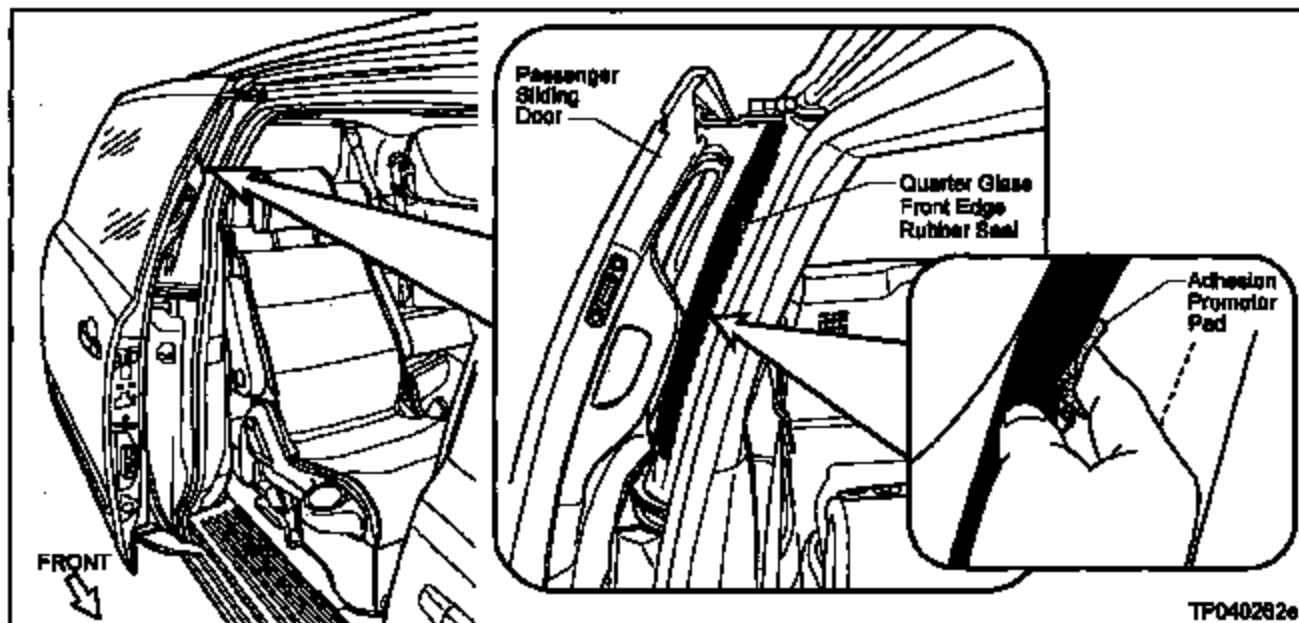


Figure J4

- d. After the Adhesion Promoter is dry to the touch, peel off the self-adhesive strip and install the Foam Strip (#10 in Figure J1) to the underside, front (leading) edge of the Rubber Seal (see Figure J5).

Make sure the Foam Strip:

- Is applied starting at the top of the Seal. See detail view in Figure J5.
- Follows the shape/angle (front edge) at the top of the Rubber Seal. See detail view in Figure J5.

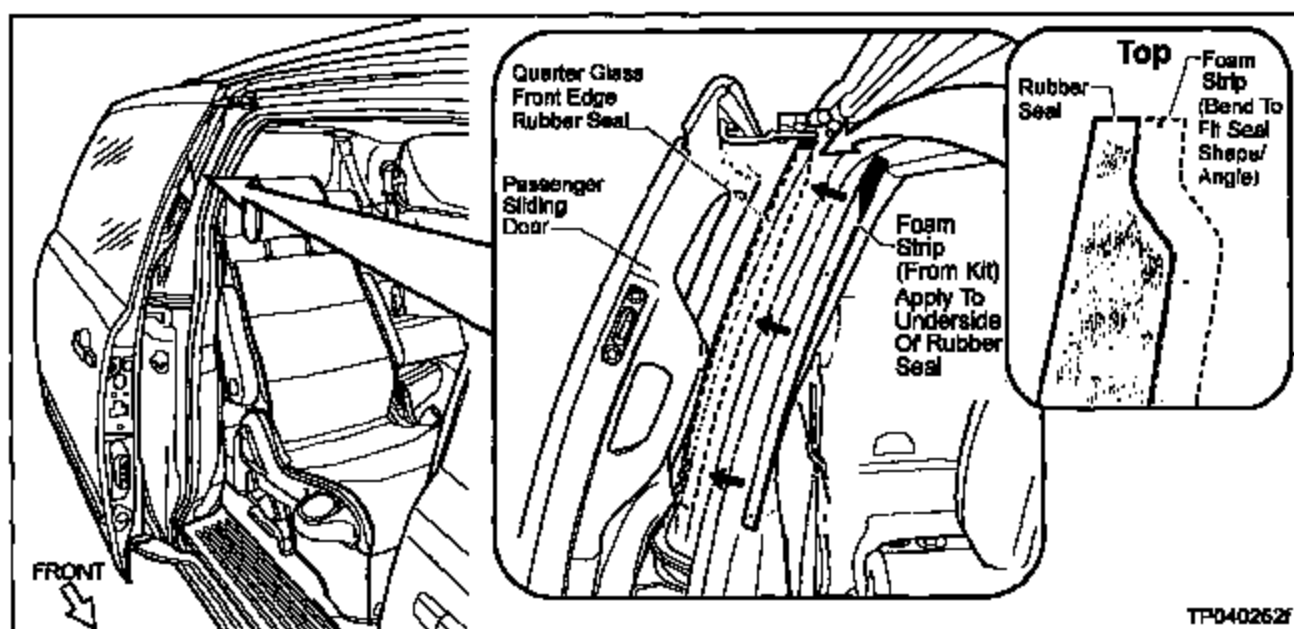


Figure J5

## Insert Rubber Tubes Into Sliding Door Weather-strip And Upper Body Drip Seal

9. At the existing Weather-Strip vent hole located below or to the rear (towards the rear of the vehicle) of the Body Hole, carefully cut a 6 mm long slot (towards the front of the vehicle). See Figure J6.

- You will be installing a Rubber Tube (from the kit) into this slot.

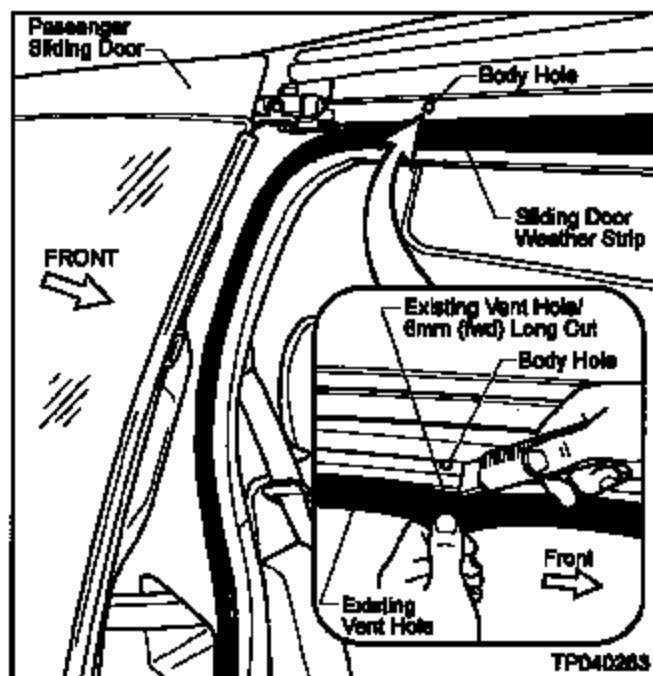


Figure J6

10. Squirt some Silicone Lubricant through the other Weather-strip Vent Hole (rearward of the hole you just cut) so the Rubber Tube can be easily inserted (see Figure J7).

### NOTE:

- Do NOT squirt the Silicone through the hole that you cut. You will be applying Weather-strip Cement to this location later.
- Squirt the silicone in the hole for about 2 seconds.

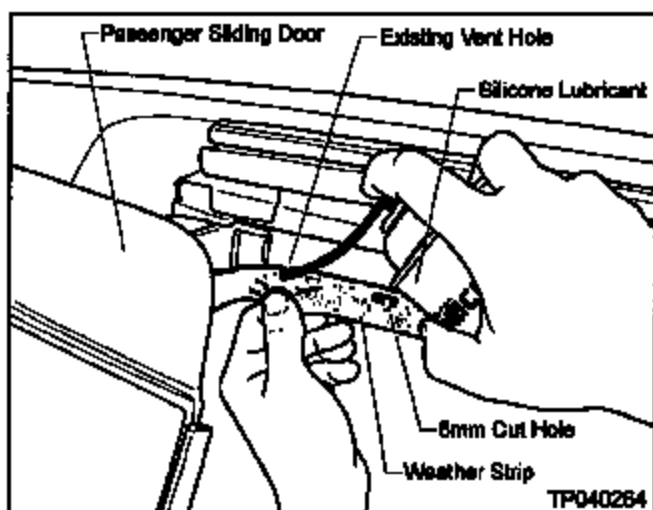


Figure J7



11. Cut both ends of the Long Rubber Tube (#11 in Figure J1) at a 45 degree angle (see Figure J8).

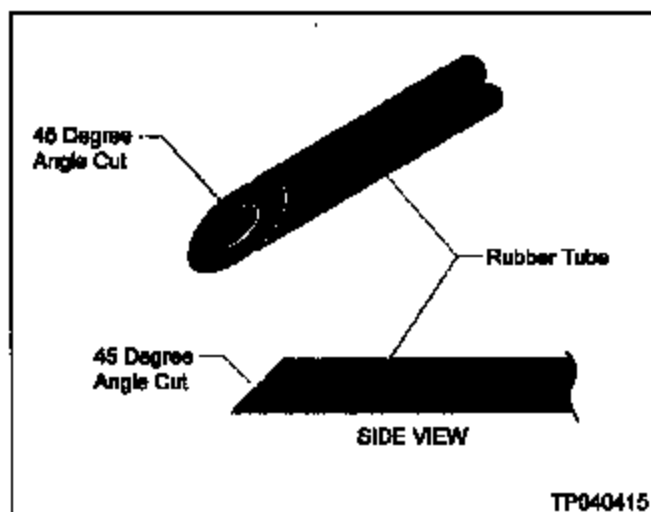


Figure J8

12. Insert the end of the tube through the cut hole and into the Weather-strip as shown in Figure J9.

- Make sure the end of the Rubber Tube is flush with the cut hole opening.

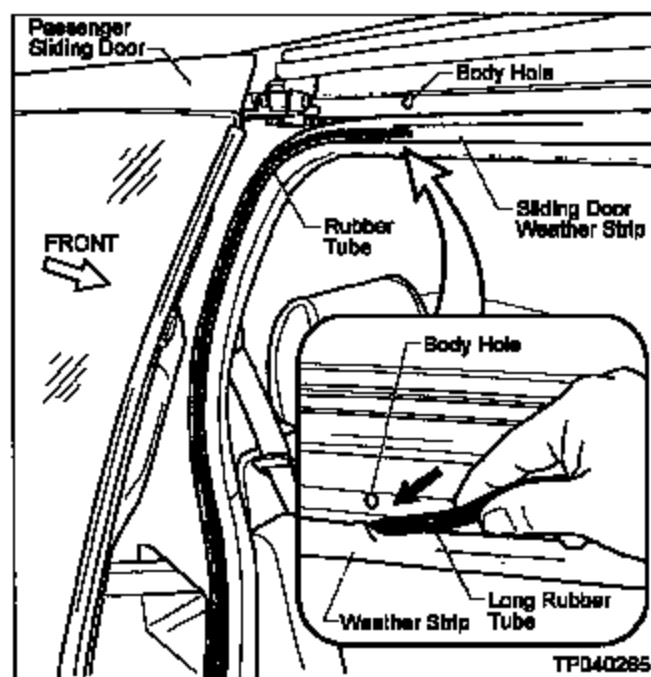


Figure J9

13. Apply Weather-strip Cement to the end of the Rubber Tube/cut hole (see Figure J10).

- Make sure you apply enough Cement to glue the Tube in place and fill the hole.
- Wipe off any excess visible cement for a "finished" surface look.

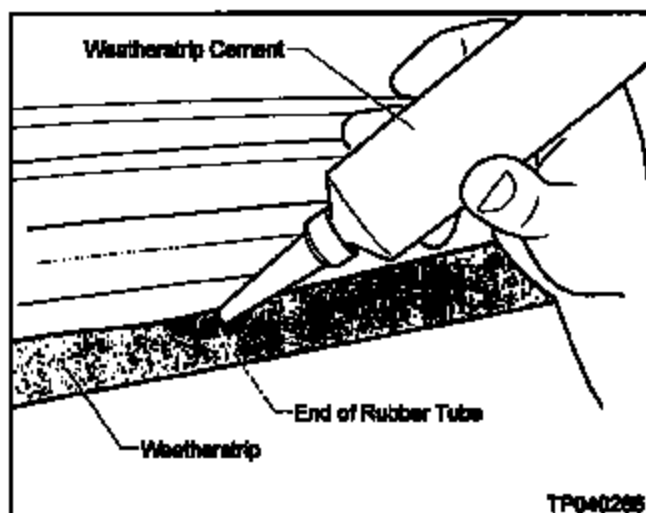


Figure J10

14. Cut one end of the short Rubber Tube (#13 in Figure J1) at a 45 degree angle, then insert the cut end of the tube into the end of the Upper Body Drip Seal as shown in Figure J11.

- Make sure the Rubber Tube does not hang out of the Drip Seal (see Figure J11).
- Apply Weather-strip Cement to the end of the Rubber Tube/Drip Seal.
- Make sure you apply enough Cement to glue the Tube in place and fill the hole.
- Wipe off any excess visible cement for a "finished" surface look.

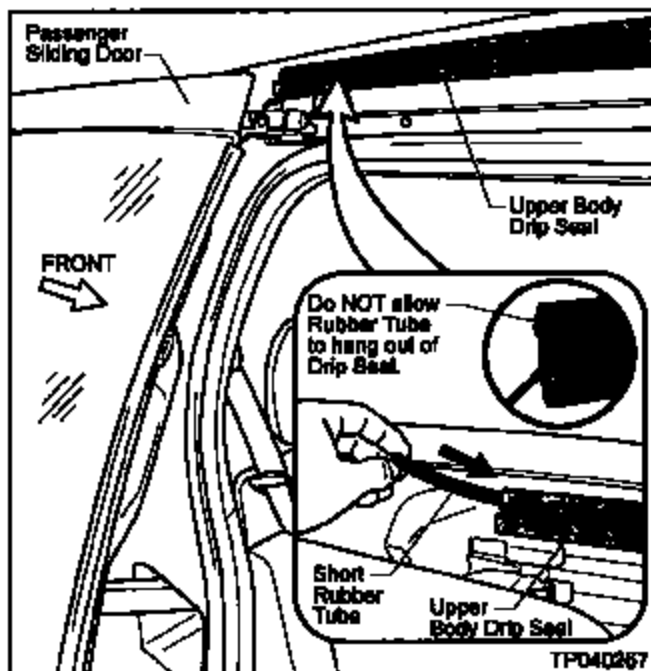


Figure J11

## Replace Sliding Door Inside Push Button Release Cable

15. Remove the Upper Finisher from the Sliding Door (see Figure J12).

- Use a Plastic Pry Tool (J-46534\* or equivalent) to release the securing clips (see Figure J12).

\* Essential Tool shipped to dealers and to be stored in drawer number 4 of the STSS.

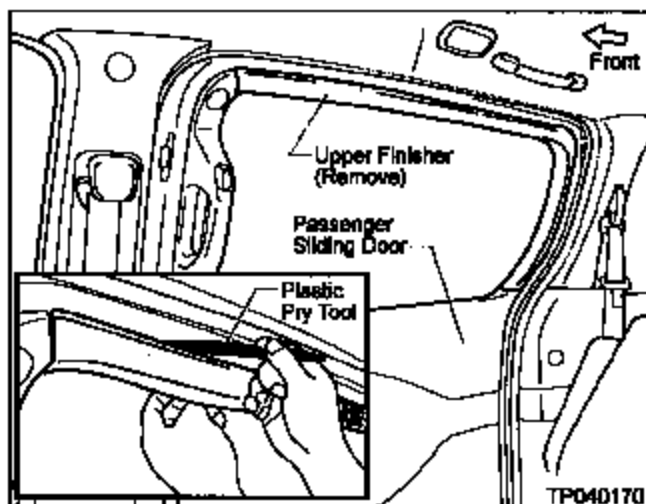


Figure J12

16. Remove the Sliding Door Inner Panel (see Figure J13) as follows:

- Take note of the Clip locations.
- The Clip in the upper front corner of the Door Inner Panel is a "Christmas Tree" type Clip. Be careful when you remove it. It will need to be re-used.
- The part number for this Clip is 76995-D1000.

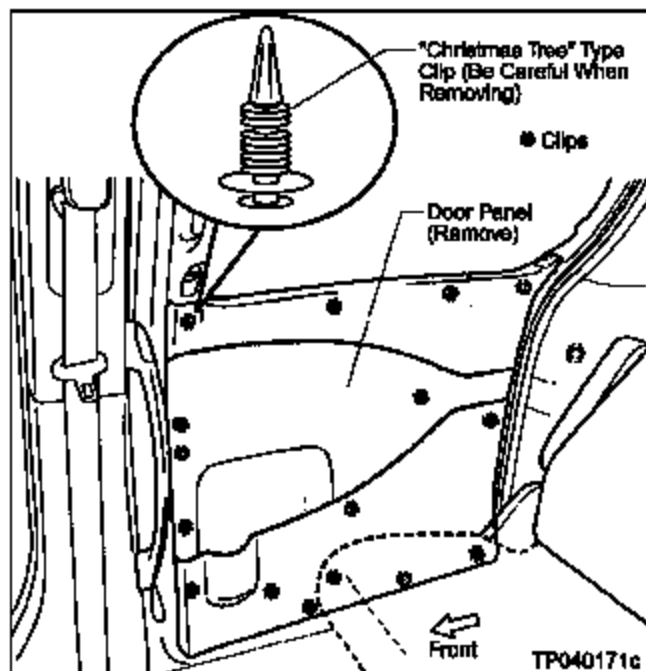


Figure J13

- a. Use a suitable Pry Tool to carefully release the Securing Clips along the front edge of the Inner Door Panel (see Figure J14).

**CAUTION:** Be careful not to damage the paint/plastic. Use duct tape on the end of the Pry Tool (see Figures J14).

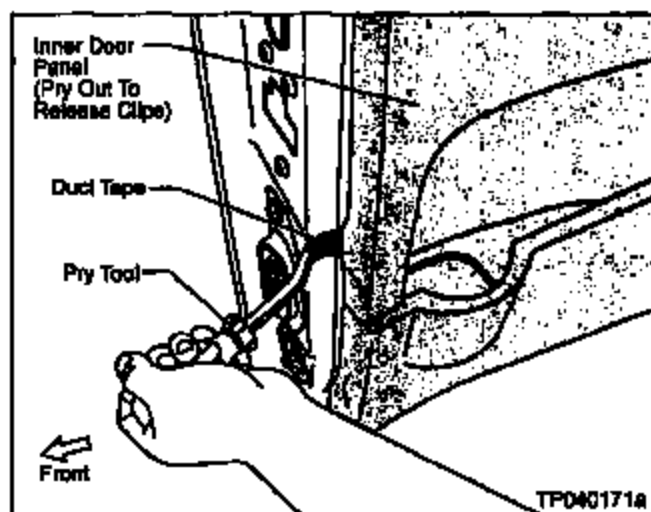


Figure J14

- b. Carefully pull out on the Inner Door Panel to release all remaining securing clips (see Figure J15).
- c. Remove the panel and place it in a clean, safe location.

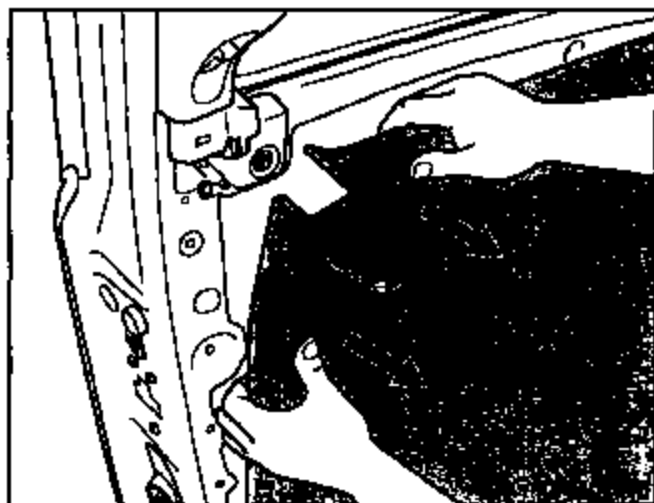


Figure J15

17. Roll the Inner Vapor Barrier/Insulator back (see Figure J16) as follows:

- You need to do this so you can get to the Sliding Door Latch Assembly.

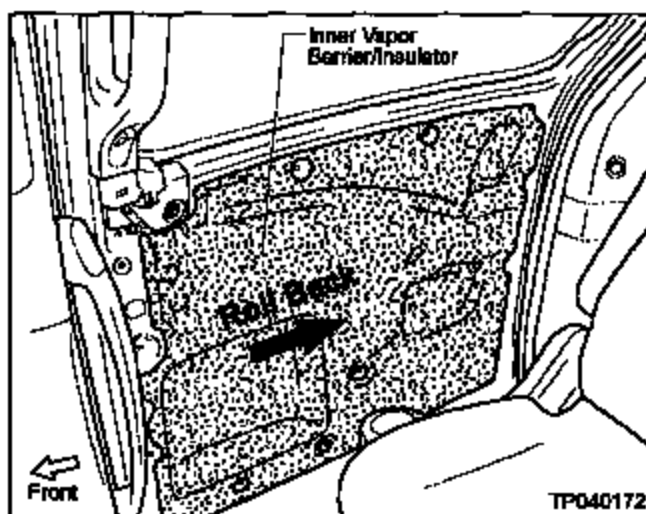


Figure J16

a. Starting at the front vertical end of the Sliding Door, use a razor knife to carefully cut the adhesive that holds the Vapor Barrier/Insulator to the door (see Figure J17).

- **ONLY** cut the adhesive back to about the middle of the door.

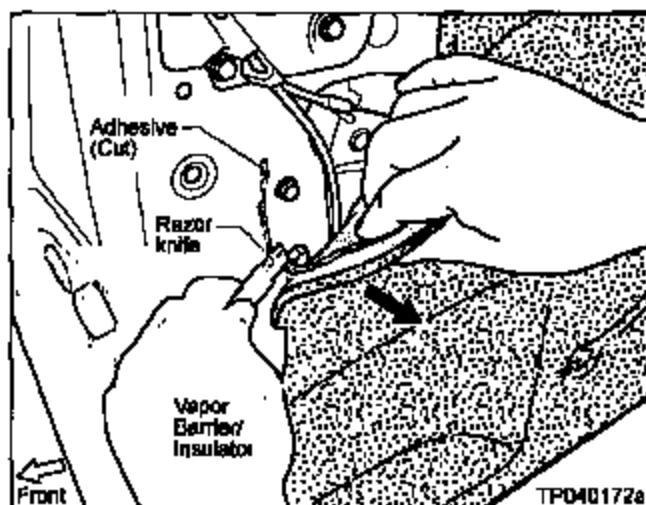


Figure J17

- b. Now, roll the Vapor Barrier/Insulator back and wedge it between the door and the body (see Figure J18).

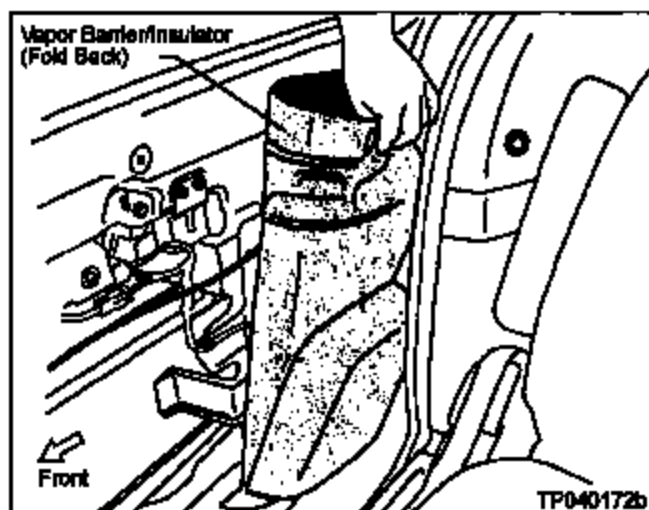


Figure J18

18. Remove the two Screw Covers from the Sliding Door Handle using a Plastic Pry Tool (J-46534\* or equivalent). See Figure J19.

\* Essential Tool shipped to dealers and stored in draw number 4 of the STSS.

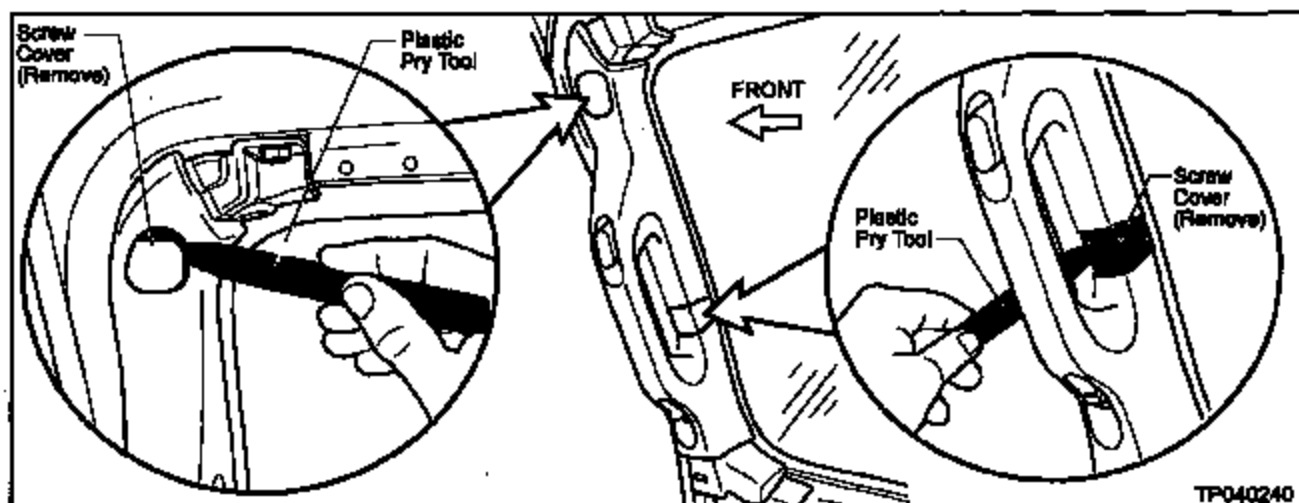


Figure J19

19. Remove five Bolts that secure the Sliding Door Handle (see Figure J20).

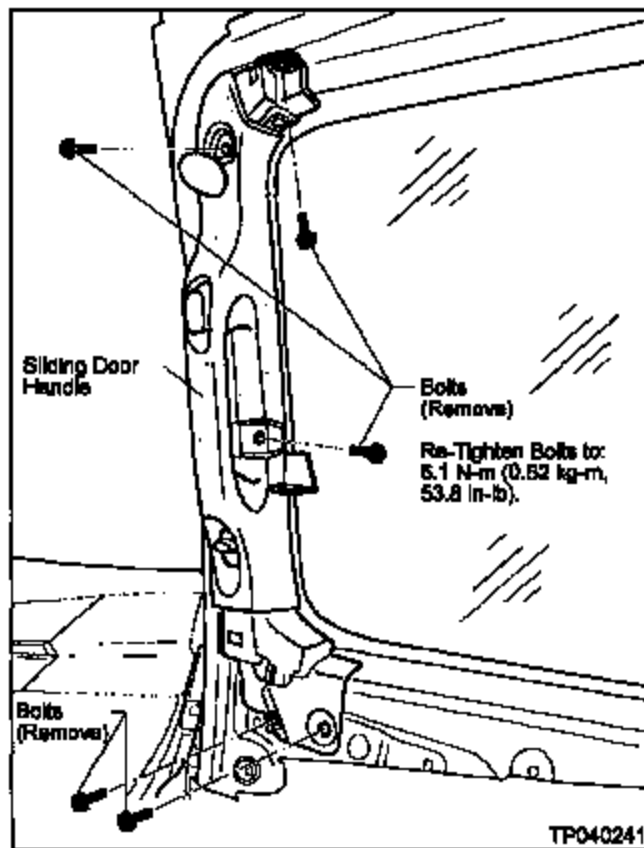


Figure J20

20. Carefully pull DOWN and OUT on the Sliding Door Handle to release it from the hook clips (see Figure J21).

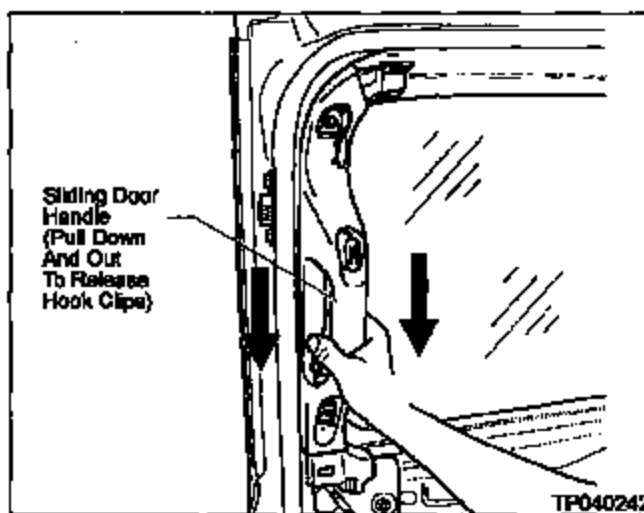


Figure J21

21. Replace the inside Push Button Release Cable as follows:

**CAUTION:** Be careful not to bend the cables too much as they can kink.

- a. Remove the Cable Sheath End from the Pull Handle Assembly using needle-nose pliers (see Figure J22).
- b. Remove the Ball-End of the Cable from the Push Button Assembly (see Figure J22).

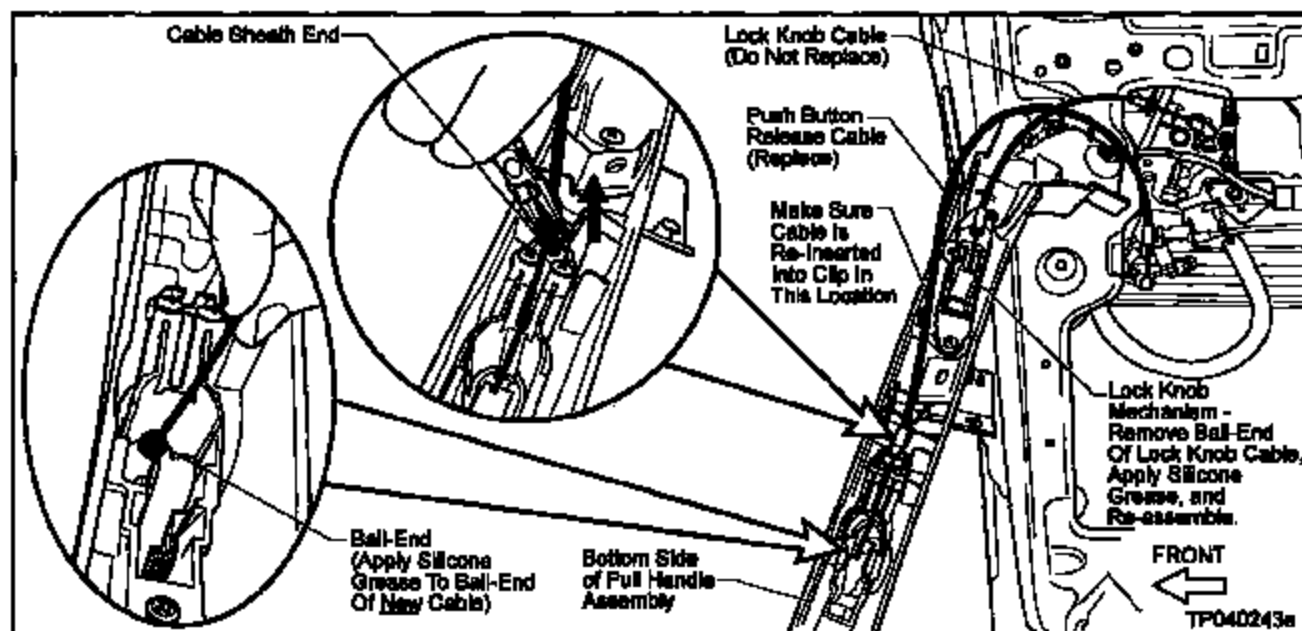


Figure J22

22. Disconnect the other end of the Push Button Release Cable from the Door Latch Assembly Lever (using needle-nose pliers). Release the cable from the Cable Clip. See Figure J23.

**NOTE:** To help prevent a cable kink, also disconnect the Lock Knob Cable from the Door Latch Assembly Lever (see Figure J23).

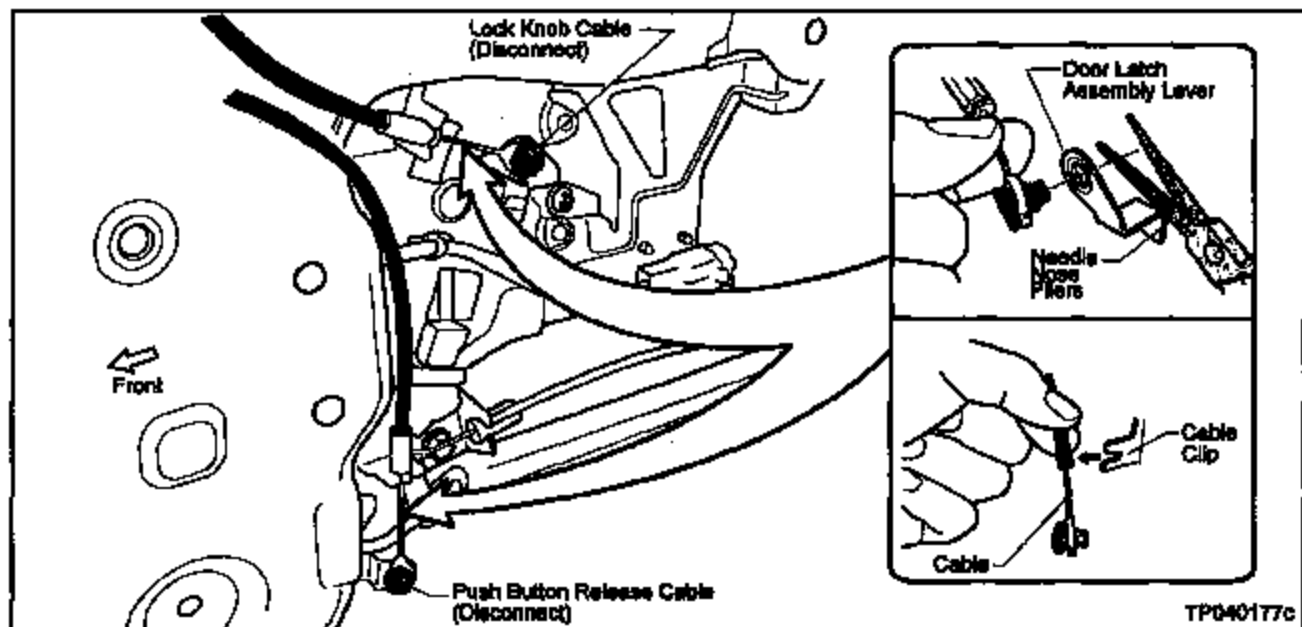


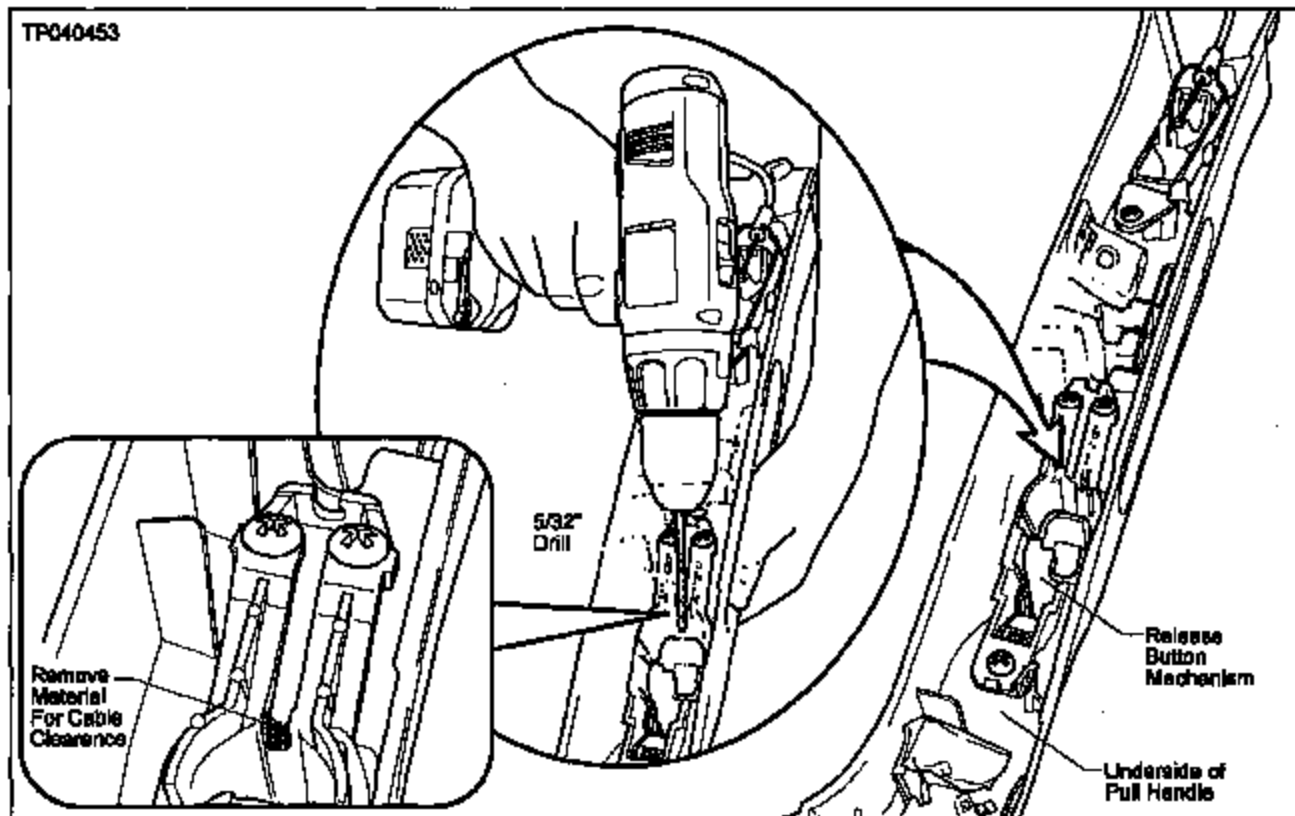
Figure J23



23. At the location shown in Figure J24, use a drill motor with a 5/32" drill bit to remove material for additional cable clearance.

- Make sure you remove enough material so there is NO cable contact.

**CAUTION:** Do NOT allow the removed material to get into the Release Button Mechanism.



J24

24. Install the new Release Cable (#12 in Figure J1) in the reverse order you removed the old one.

- Make sure the Release Cable is re-connected to the Door Latch Assembly Lever.
- Make sure the Cable is re-inserted into the Clip next to the Lock Knob Mechanism (see Figure J22).
- Apply Silicone Grease to the Ball-End of the new cable (see Figure J22).

25. Remove the Ball-End of the Lock Knob Cable, apply Silicone Grease, and re-assemble (see Figure J22).

- Make sure the Lock Knob Cable is re-connected to the Door Latch Assembly Lever.
- Make sure both Cables (Release and Lock Knob Cables) are inserted into the slots at the bottom of the Pull Handle finisher.

26. Re-install the Sliding Door Pull Handle Assembly In the reverse order you removed it.

- Tighten the Bolts to: 6.1 N-m (4.5 ft-lb).

27. Confirm the door lock, unlock, and release functions properly operate.

## Install Felt Tape And Foam Strip On Both Door Panels

**NOTE:** You'll use the Felt Tape and Foam Strip from the Squeak & Rattle Kit to do this procedure.

28. Use a clean, dry towel to remove any dirt, dust, debris from the areas that will have Felt Tape and the Foam Strip installed.
29. Install Felt Tape (#7 and #8 in Figure J1) to the upper front and upper rear sections of the Door Panel (see Figure J25).
  - Make sure the Felt Tape is placed 1mm from the outer edge of the Door Panel (see Detail View A in Figure J25).
30. Install the Foam Strip (#9 in Figure J1) along the lower edge of the Door Panel (see Figure J25).
  - Make sure the adhesive-side of the Foam Strip is applied to the lower vertical surface of the Door Panel (see Detail View B in Figure J25).
31. Use Service Comm to see if the Power Sliding Door Latch Actuator repair (RU401) needs to be performed on the vehicle your working on. If so, perform this repair before you re-assemble the Door Panel and Upper Finisher (next step).
32. Confirm proper operation of: all applicable sliding door electrical power switches, exterior door handle, and inside push button.
33. Re-assemble the Door Panel and Upper Finisher in the reverse order of removal.

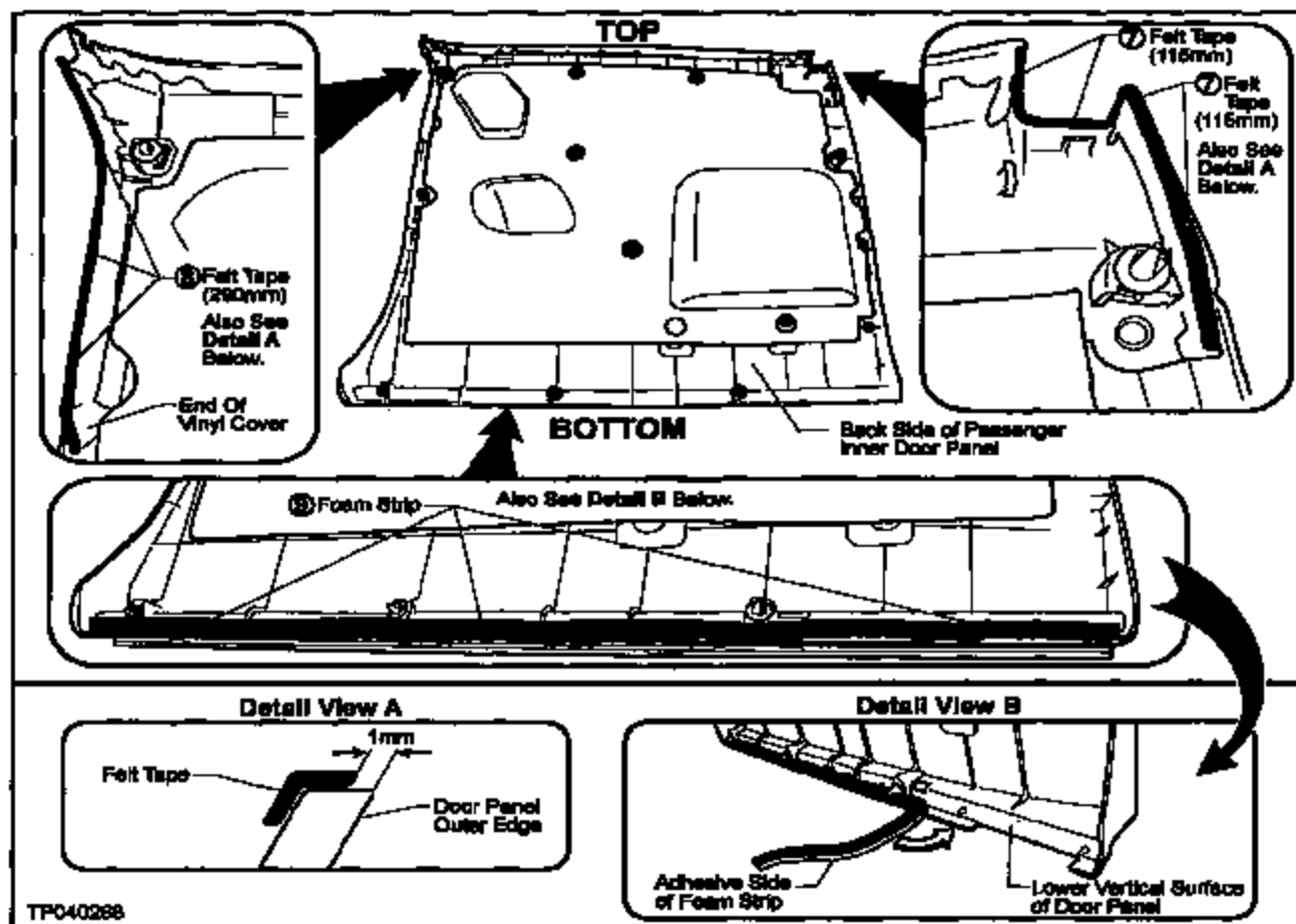


Figure J25

## Replace And Adjust Dovetails

34. Replace both the Upper and Lower Male Dovetails (#4 and #6 in Figure J1) on the front end of the Sliding Door (see Figure J26). Make sure the arrow (on the Dovetails) points towards the outside of the vehicle.

- Tighten the Male Dovetail mounting screws to 6.8 ~ 10.8 N-m (5 ~ 8 ft-lb).

35. Loosen the following 3 items just enough so they are still snug but can re-align themselves when the door is closed and opened (see Figure J26).

- Upper Female Dovetail (on the "B" Pillar)
- Lower Female Dovetail (on the "B" Pillar)
- Sliding Door Switch Plate Connector (on the front end of the Sliding Door)

36. Close and open the door 3 times so the above 3 items can align themselves.

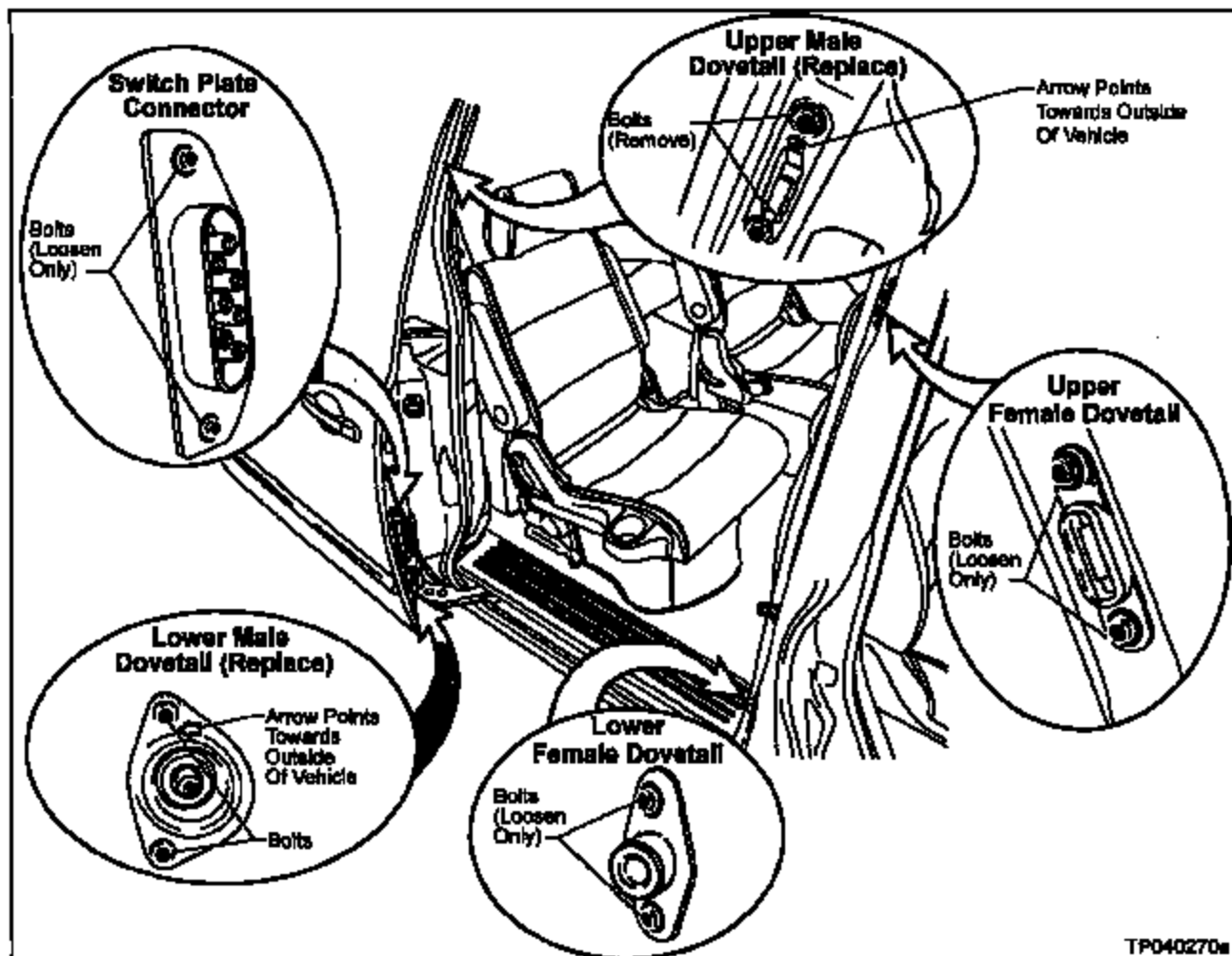


Figure J26

37. Check the alignment of the upper and lower Dovetails (see Figure J27).

**NOTE:** Check dovetail alignment with the front door open.

- a. If the alignment is NOT correct and there is sticking or binding, and the Dovetail(s) is at its maximum adjustable position (all the way up, down, in, or out), refer to the "BL" section (Door Fitting Adjustment) of the applicable Service Manual for proper Sliding Door adjustment and fit procedures. Then proceed with the **Check Upper Sliding Door Exterior Fit** procedure (next page).
- b. If the alignment is correct and there is no sticking or binding, continue with the **Check Upper Sliding Door Exterior Fit** procedure (next page).

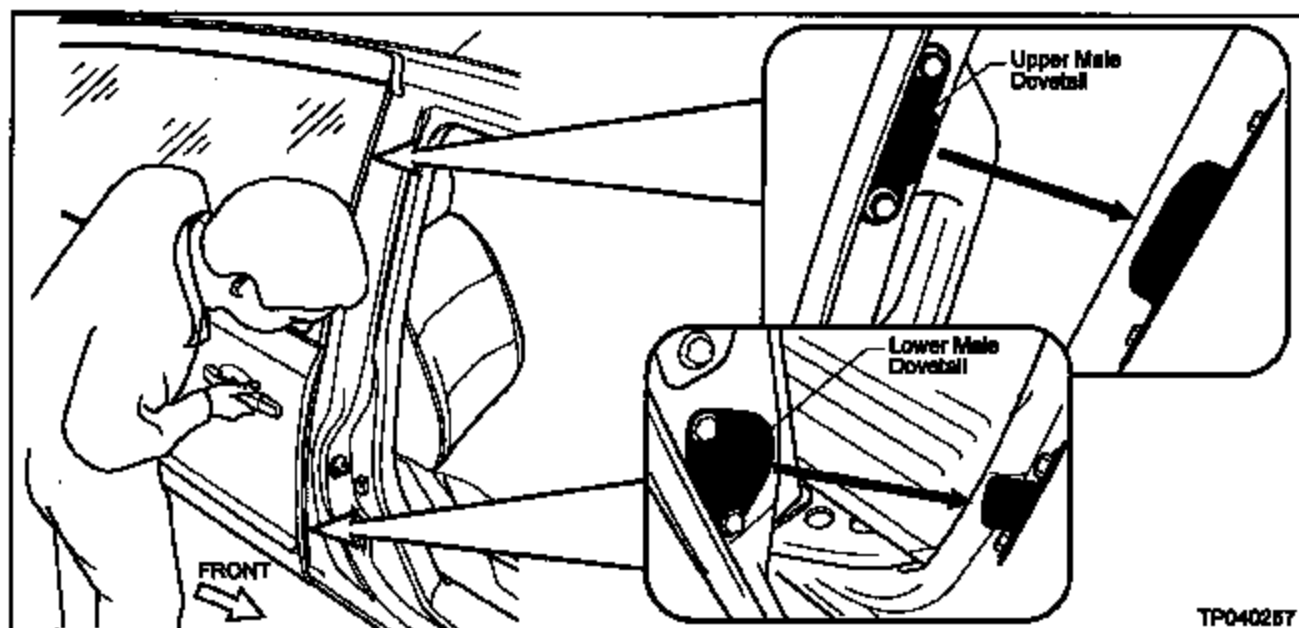


Figure J27

## Check Upper Sliding Door Exterior Fit

38. Check the exterior fit of the Upper Sliding Door to the Roof and Front Door (see Figure J28).

- If the exterior fit is NOT flush, perform the **Adjust Upper Sliding Door** procedure (below).

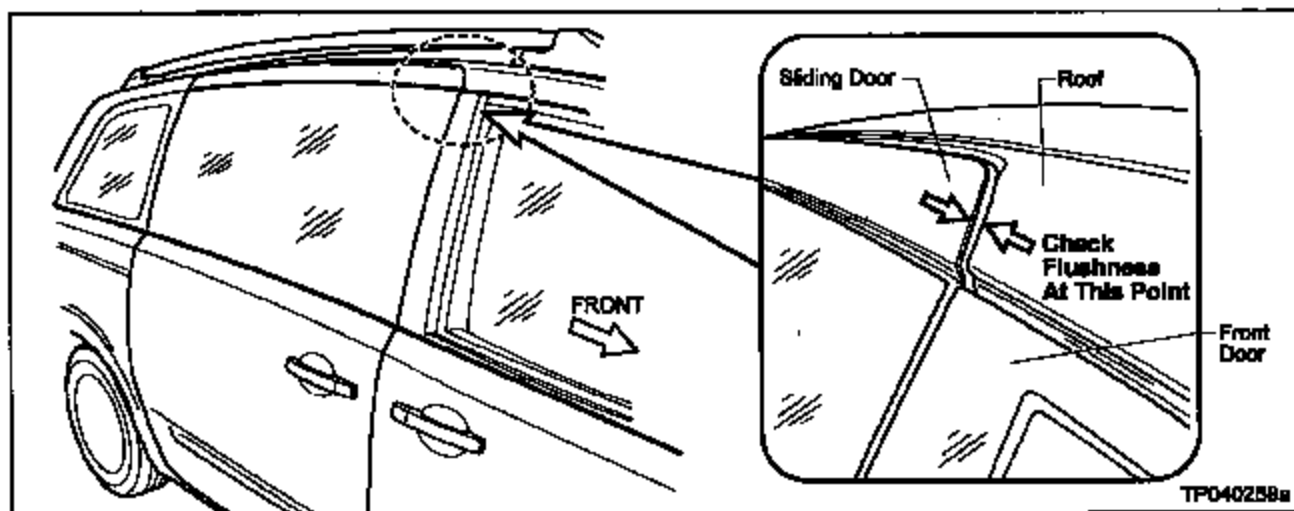


Figure J28

## Adjust Upper Sliding Door

39. Loosen one Nut and two Bolts at the Upper Roller Bracket (see Figure J29).

40. Adjust the Upper Sliding Door until:

- The Sliding Door exterior panel is flush with the Roof and Front Door exterior panel.

**NOTE:** The flushness of the panels may differ between vehicles. Adjust the panels as flush as possible.

41. Re-tighten the Nut and Bolts to:

- 5.0 - 6.4 N-m (3.7 - 4.7 ft-lb)

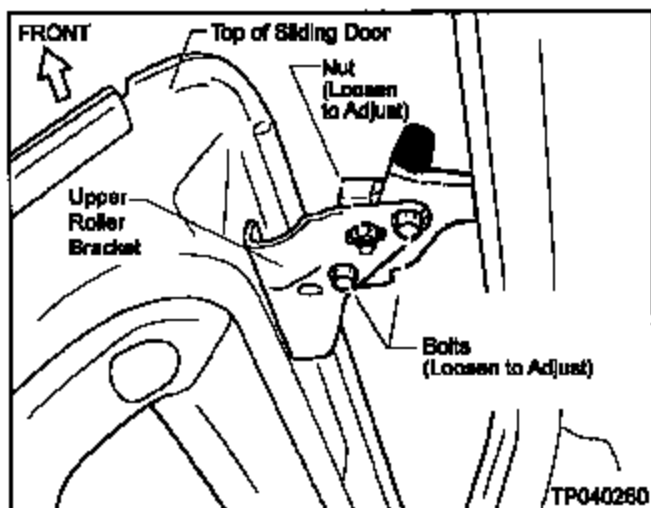


Figure J29

## Check Door Striker to Latch Clearance (Very Important Part Of This Procedure)

42. Check the clearance at two points:

- Between the front Striker and Latch (see Figure J30).
- Between the Rear Striker and Latch (see Figure J31).
  - a. If either the front or rear Striker clearance is incorrect (as shown in Figure J30 and J31), continue with the **Adjust Door Strikers** procedure (next page).
  - b. If both the front and rear Striker clearances are correct (as shown in Figure J30 and J31), continue with the **Check Sliding Door Glass to Quarter Glass Alignment** procedure (page 44).

**NOTE:** Worn coating on the Striker usually means the Striker/Latch clearance is incorrect.

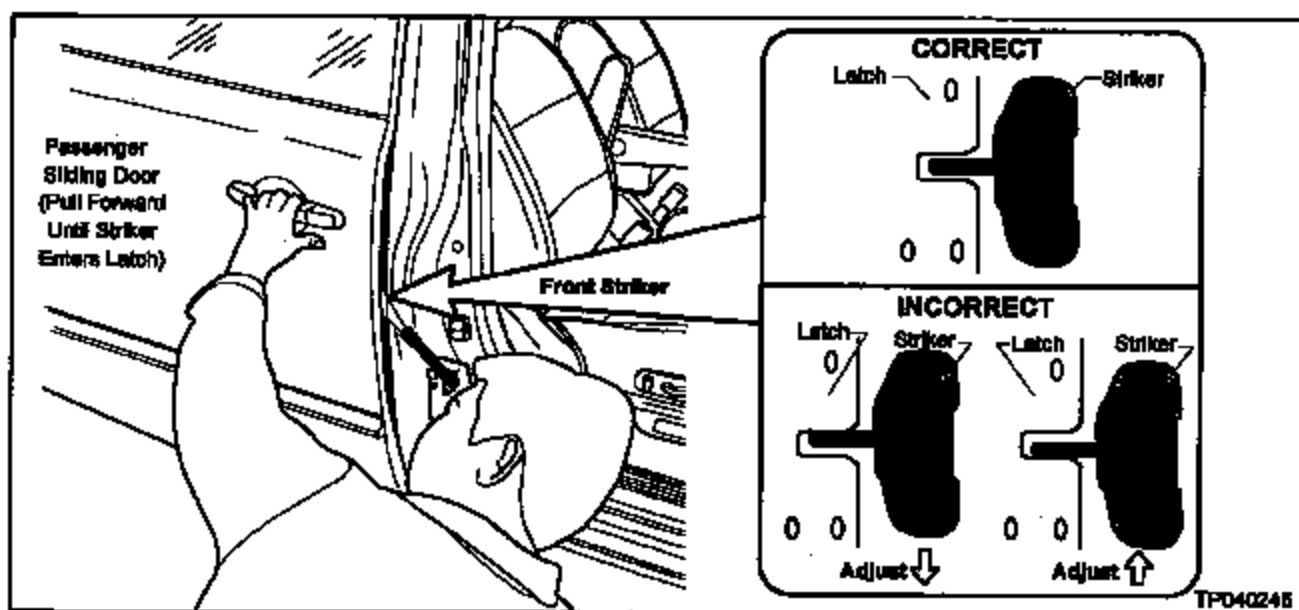


Figure J30 (Front Striker)

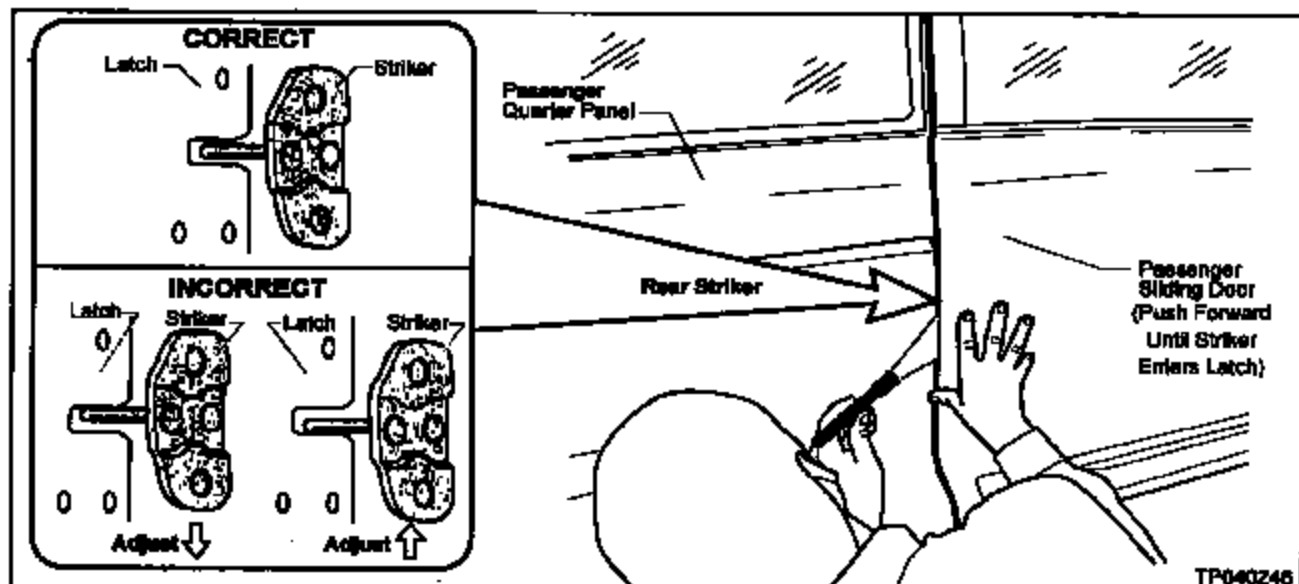


Figure J31 (Rear Striker)

## **Adjust Door Strikers**

43. Adjust the front and rear Door Striker clearance as follows:

- a. Close and open the door 3 times to allow the upper/lower Female Dovetails and the Switch Plate Connector to re-align themselves.
- b. Loosen the Door Striker mounting Screws (Torx T40).
- c. Adjust the clearance:
  - Between the front Striker and Latch (see Figure J30).
  - Between the Rear Striker and Latch (see Figure J31).

**NOTE:** Make sure the Sliding Door is as flush as possible with the Quarter Panel at the Striker/Latch area.

### **NOTE:**

- If the Striker is hard to move, the Inner "floating nut plate" may be stuck.
  - To free up the floating nut plate, carefully use a hammer and wood block to hit the Striker in several directions.
  - Be careful NOT to damage the Striker or the surrounding paint and body panels.
- d. Tighten the Striker Screws to 12.7 – 15.7 N-m (9.4 – 11.6 ft-lb).
  - e. Apply white grease to the front and rear Latch Assemblies.
    - Wipe off any excess grease on the strikers.

44. Again, close and open the door 3 times to allow the upper/lower Female Dovetails and the Switch Plate Connector to re-align themselves.

45. Tighten the:

- Upper and lower Female Dovetails Bolts to 6.8 – 10.8 N-m (5 – 8 ft-lb). See Figure J32.
- Switch Plate Connector Bolts to 6.8 – 10.8 N-m (5 – 8 ft-lb). See Figure J32.

**NOTE:**

- Make sure you hold the Dovetails/Connector in place while you tighten the Bolts.
- If somehow they move out of place, loosen the Bolts to "hand-tight", open/close the door 3 times, and then re-tighten the Bolts.

**IMPORTANT:** If any further adjustments are made or parts are replaced, the complete adjustment procedure must be repeated.

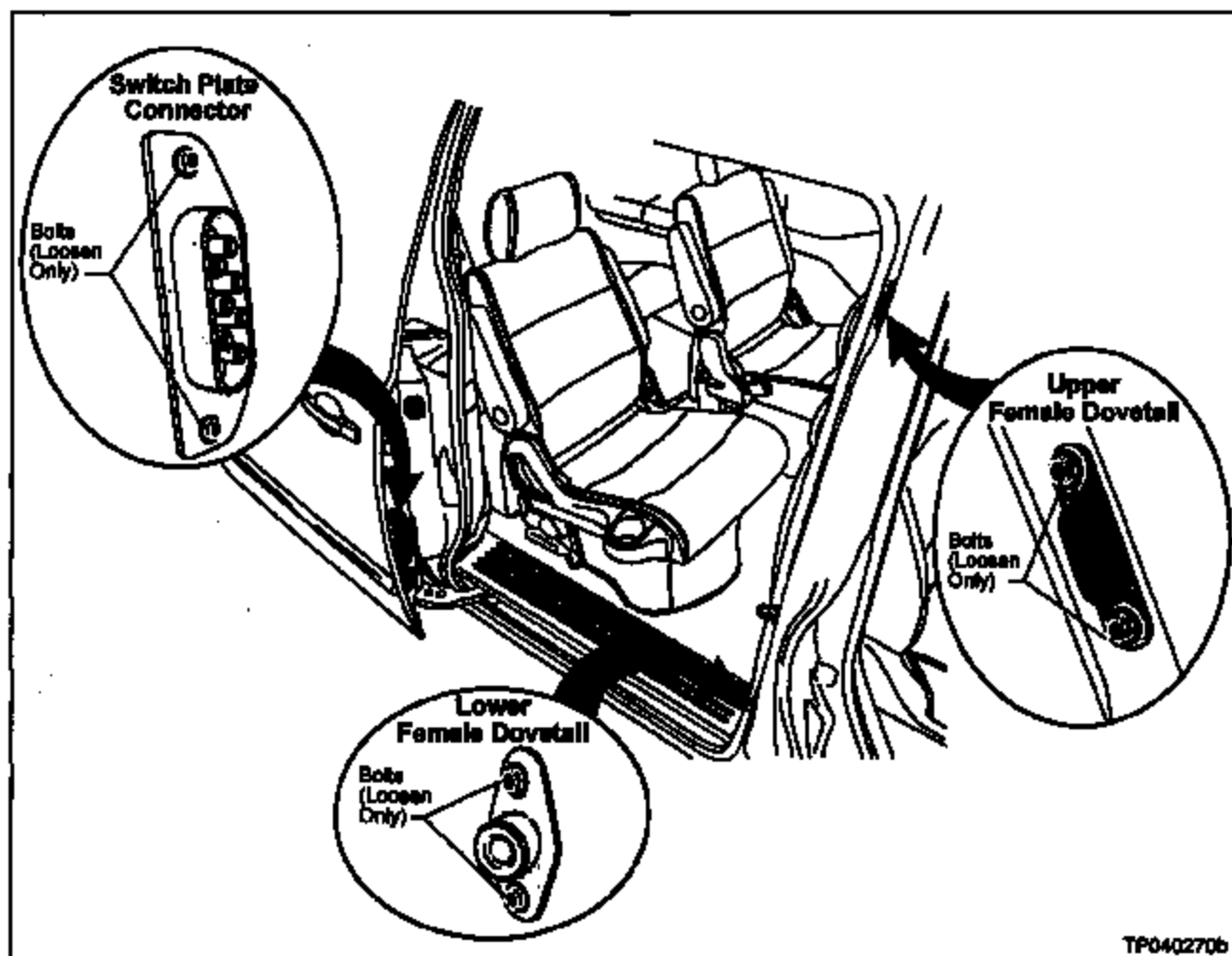


Figure J32



## Check Sliding Door Glass to Quarter Glass Alignment

46. Make sure the Sliding Door Glass to Quarter Glass Alignment is as flush as possible (see Figure J33).

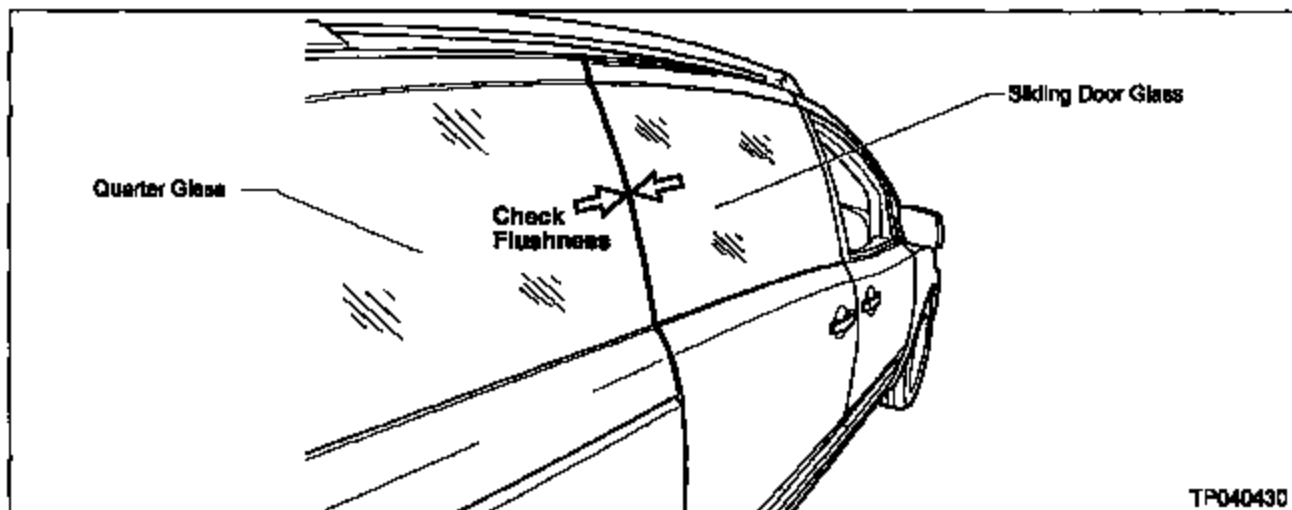


Figure J33

### NOTE:

- The rear of the Sliding Door may be slightly higher due to the insertion of the Rubber Tubes in the Weather-strip and Upper Door Drip Seal.
- If the Rear Quarter Glass is not flush with the Sliding Door, loosen the two Quarter Glass Mounting Screws (under the Quarter Glass Front Edge Rubber Seal – see Figure J34) and adjust the Glass for proper flushness. Use a Plastic Pry Tool to hold the glass out while tightening the Mounting Screws (see Figure J34). Tighten the Quarter Glass Mounting Screws to 2.0 – 3.0 N-m (17.7 – 26.5 in-lb).
- The flushness of the glass may vary between vehicles. Adjust the glass as flush as possible.

**CAUTION:** Make sure the Sliding Door does not contact the Glass when it is quickly opened and closed.

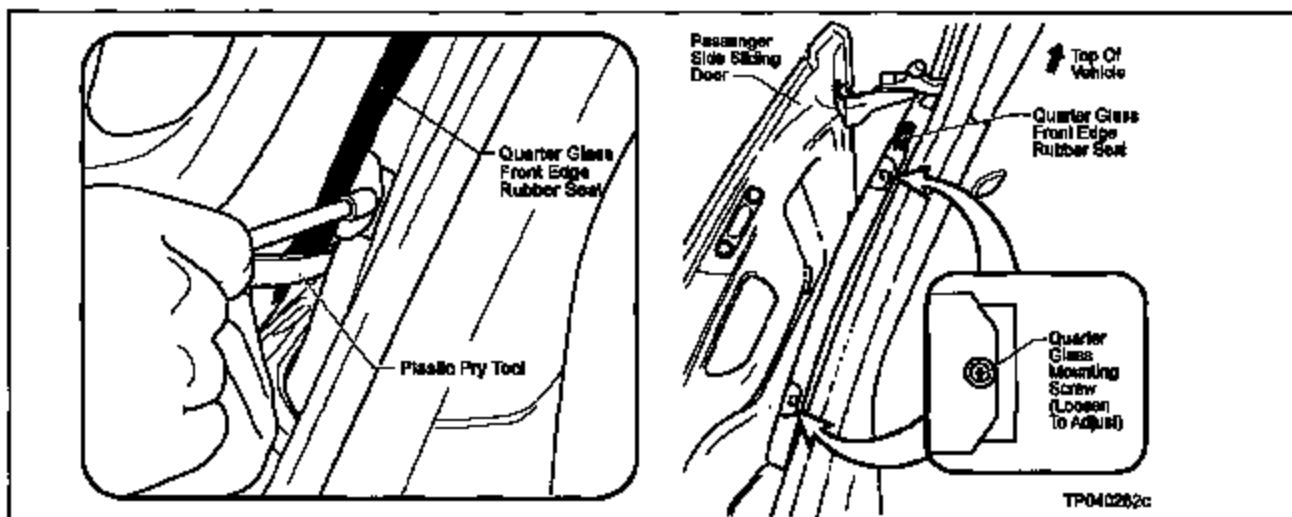


Figure J34

## Apply Krytox<sup>®</sup> Lubricant To Weather-Strips And Seals

47. Use a clean, dry towel to remove all dirt/debris from (See Figure J35):

- The Parting Seal on the front edge of the Sliding Door
- Upper Body Drip Seal
- Sliding Door Weather-Strip
- Quarter Glass Front Edge Rubber Seal

48. Apply Krytox lubricant (#1 in Figure J1) to the above noted Weather-Strip and Seals.

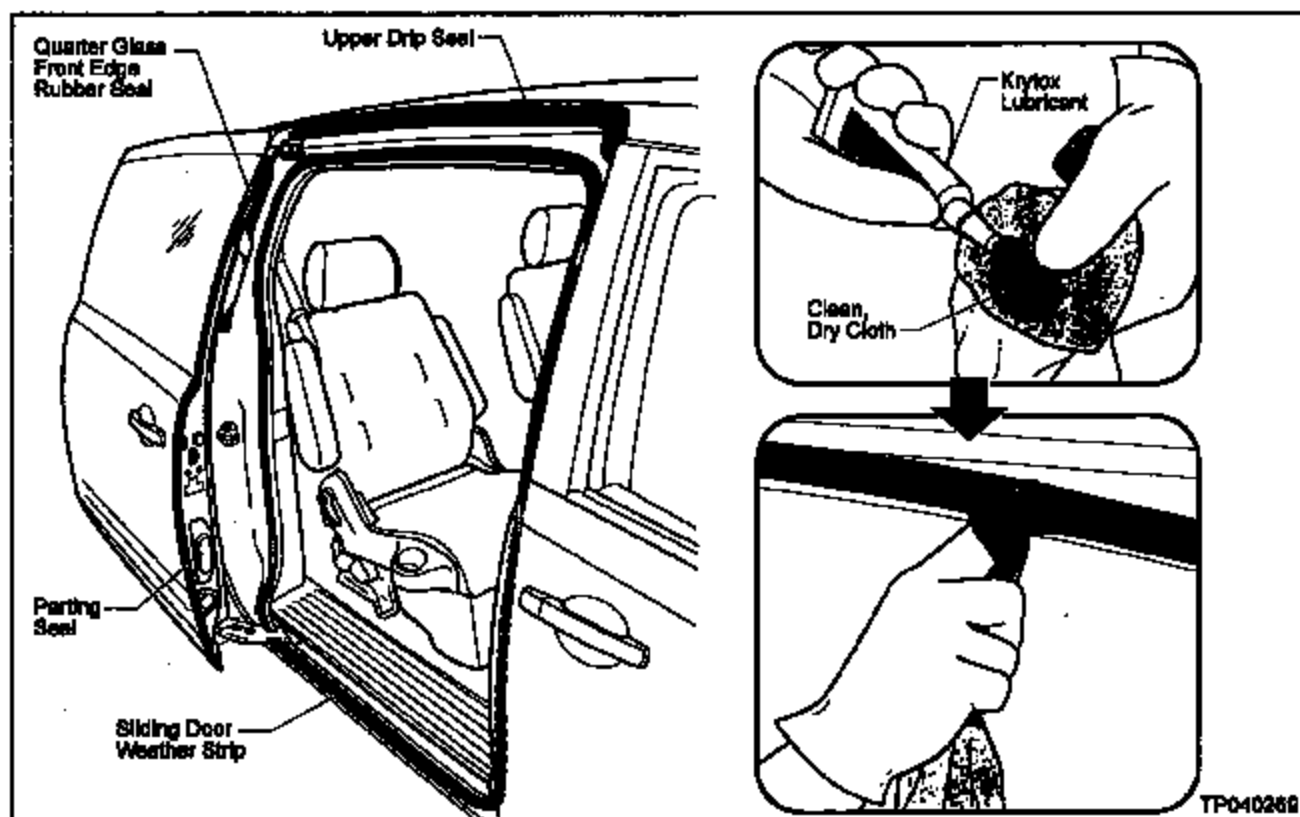


Figure J35

**NOTE:** Now perform the above procedures on the other Sliding Door.

## "Re-Initialize" Power Sliding Door (If applicable)

**NOTE:** The following procedure is for one sliding door. It must be repeated (if needed) on a second door.

49. Open the sliding door.

50. Turn the ignition key ON.

51. Turn the Automatic Door Main Switch OFF (see Figure J36).

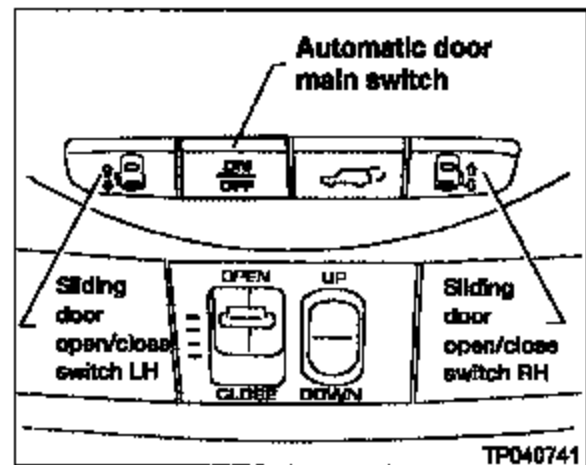


Figure J36

52. Within 3 seconds after step 51, press the sliding door B-pillar switch (LH or RH, depending on which door you are initializing) 10 times within 10 seconds.

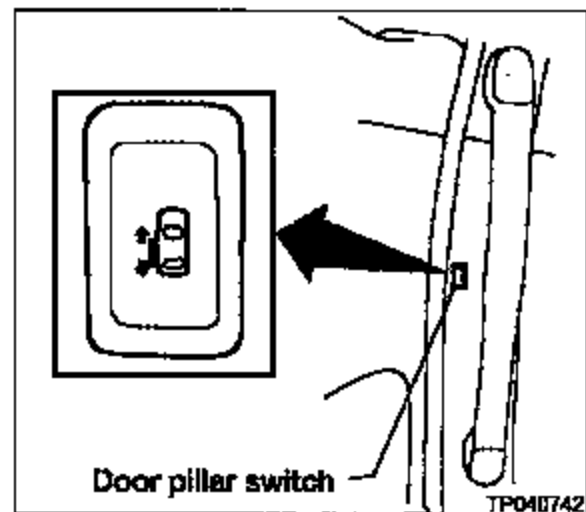


Figure J37

53. Within 3 seconds after step 52, turn the ignition key OFF → ON.

- You should hear three (3) sliding door warning chimes.
- The three chimes indicate the controller has entered initialization mode.
- Normal door functions are disabled during initialization.

54. Turn the Automatic Door Main Switch ON (see Figure J38).

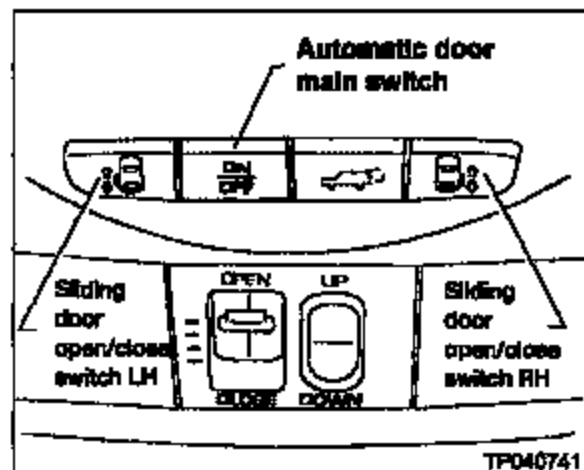


Figure J38

55. Press and hold the driver's overhead Sliding Door Open / Close Switch (LH or RH, depending on which door you are initializing) until the sliding door completely closes and stops; then release the switch.

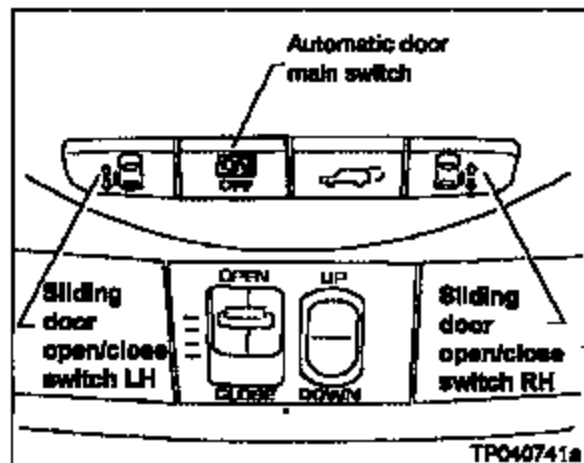


Figure J39

56. Press and hold the same sliding door switch again, until the door completely opens and stops; then release the switch. (Same switch as step 55.)

57. Press and hold the same switch again, until the door completely closes and stops; then release the switch. (Same switch as step 55 and 56.)

58. Turn the ignition key OFF. One sliding door is now initialized.

- The initialized door will now operate normally.
- If needed, repeat steps 49 through 58 for a second sliding door.

## Check Sliding Door Operation

59. Perform the Sliding Door final check as follows:

- a. Make sure the Sliding Door properly:
  - opens
  - closes
  - latches
  - stops and reverses if an obstruction is detected (power sliding door only)
- b. Make sure the Child Safety Lever operates properly.
- c. Confirm proper operation of: all applicable sliding door electrical power switches, exterior door handle, and inside push button/lock knob.

**NOTE:** If the above listed Sliding Door functions do not operate properly, refer to the BL section of the Service Manual for further diagnosis.

## Final Steps

60. If applicable, reprogram all radio station presets.

61. If applicable, reset the clock.

62. If applicable, reset the Sunroof memory as follows:

- a. Push the Sunroof Tilt Switch in the tilt DOWN position (repeat as necessary) until the Sunroof is fully closed. See Figure J40.
- b. Then, push and hold the Sunroof Tilt Switch (see Figure J40) in the tilt DOWN position for more than 2 seconds.
- c. Reset is complete.

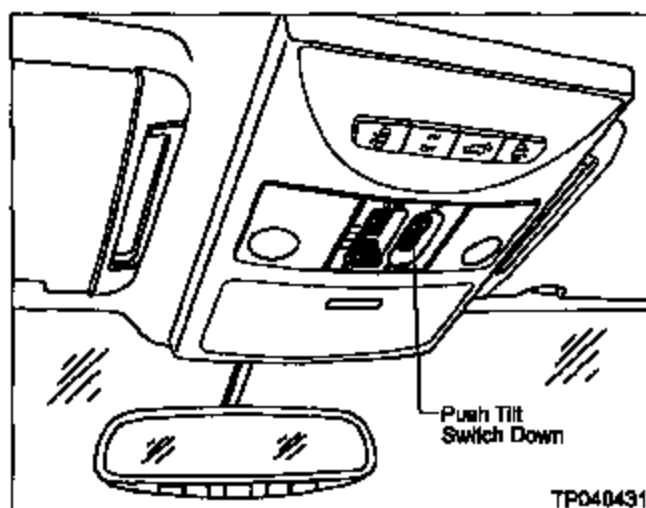


Figure J40

63. Road test the vehicle to confirm the upgrade is successful.

# Material Safety Data Sheets (MSDS)

## Structural Adhesive (Rear Hatch Hinge Area)



Engineered Sealing and Structural Solutions for the Automotive Industry  
160 McLean Drive • Box 308 • Romeo, MI 48065  
Main 1-586-336-1600 • Sales 1-586-336-1700 • Fax 1-586-336-1699

### MATERIAL SAFETY DATA SHEET

#### Section I

Product Number/Description L-0504, Part A  
Manufacturer's Name L & L Products, Inc.  
Emergency Telephone Number (586) 336-3520, after 5 pm (586) 336-1600  
Hazardous Material Description none  
Chemical Family Epoxy  
Formula Complex

#### Section II - Hazardous Ingredients

Chemical Name/CAS No.	Percent by weight	<input type="checkbox"/> OSHA	Exposure limit <input checked="" type="checkbox"/> ACGIH	<input type="checkbox"/> MFGS
1.				
2.				
3.				

#### Section III - Physical Data

Boiling Range <u>greater than 200°C</u>	Specific Gravity (at RT) <u>0.82 - 1.02 g/cc</u>
Solid Content <u>TBD %</u>	VOC, EPA 24 method <u>TBD lb./gal.</u>
Vapor Pressure (at RT) <u>N/AP</u>	Percent Volatile by Volume <u>TBD</u>
Vapor Density <u>N/AP</u>	Evaporation Rate <u>N/AP</u>
pH at Full Strength <u>neutral</u>	Solubility in Water <u>N/AP</u>
Appearance and Odor <u>reddish-viscous liquid, plastic like odor</u>	

### MATERIAL SAFETY DATA SHEET

DCC.KH 2-12-04

TP040253



Engineered Sealing and Structural Solutions for the Automotive Industry  
160 McLean Drive • Box 308 • Romeo, MI 48065  
Main 1-586-336-1600 • Sales 1-586-336-1700 • Fax 1-586-336-1699

#### Section IV - Fire and Explosion Hazard Data

Flash Point greater than 200°C Flammable Limits not determined

Extinguishing Media Dry chemical, water spray, foam, CO<sub>2</sub>

Special Fire & Explosion Hazards Avoid fumes from decomposing material

Special Firefighting Procedures Water spray or foam may help absorb fumes from decomposing material

#### Section V - Health Hazard Data

Threshold Limit Value not determined

Effects of Overexposure None observed; do not eat; avoid excessive or prolonged skin contact as some sensitive individuals might experience some skin or eye irritation; avoid fumes generated from hot material during curing or bonding process.

Emergency & First Aid Procedures None special; remove from contact if irritation occurs; remove to fresh air if overcome by fumes.

#### Section VI - Reactivity Data

NFPA - Health - not established Flammability - not established Instability - not established

Conditions to Avoid None special Incompatibility Strong oxidizing agents

Hazardous Decomposition Products Metal oxides, hydrocarbons, oxidized hydrocarbons, CO, CO<sub>2</sub>, SO<sub>x</sub>, NO<sub>x</sub>

Hazardous Polymerization Will not occur

#### Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled Pick up and use unless contaminated, then remove to trash container.

Waste Disposal Method Incinerate or landfill as permitted by local regulations

EPA Hazardous Substance Category Not applicable

DCC.KH 2-12-04

**MATERIAL SAFETY DATA SHEET**

TP040254



Engineered Sealing and Structural Solutions for the Automotive Industry  
160 McLain Drive • Box 308 • Romo, MI 48065  
Main 1-586-336-1600 • Sales 1-586-336-1700 • Fax 1-586-336-1699

### Section VIII - Special Protection Information

Respiratory Protection Not required  
Ventilation Local exhaust is recommended when heating material  
Protective Gloves Cotton Eye Protection Not required  
Other Protective Equipment Not required

### Section IX - Special Precautions

Precautions to Be Taken in Handling & Storage Store at ambient conditions; wash hands after handling  
Other Precautions nons known

### Section X

Toxicological Information Evidence of ingredient MSDS only  
Effects on Skin Some sensitive individuals might experience some skin irritation  
Effects on Eyes Some sensitive individuals might experience some eye irritation  
Labeling Information Not required  
SARA 313: This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.

Completed by Name & Title	<u>Debbie Chalton, MSDS Coordinator</u> <u>L &amp; L Products, Inc.</u>
Telephone/Fax Number	<u>(586) 336-3523 (586) 336-3540</u>
Date Issued	<u>02/12/04</u>
Last Revised	<u></u>

DCC-KH 2-12-04

TP040250





Engineered Sealing and Structural Solutions for the Automotive Industry  
160 McLean Drive • Box 308 • Romeo, MI 48065  
Main 1-586-336-1600 • Sales 1-586-336-1700 • Fax 1-586-336-1699

## MATERIAL SAFETY DATA SHEET

### Section I

Product Number/Description L-0504, Part B  
Manufacturer's Name L & L Products, Inc.  
Emergency Telephone Number (586) 336-3520, after 5 pm (586) 336-1600  
Hazardous Material Description none  
Chemical Family Amine  
Formula Complex

### Section II - Hazardous Ingredients

Chemical Name/CAS No.	Percent by weight	<input type="checkbox"/> OSHA	Exposure limit <input checked="" type="checkbox"/> ACGIH	<input type="checkbox"/> MFGS
1.				
2.				
3.				
4.				

### Section III - Physical Data

Boiling Range <u>greater than 200°C</u>	Specific Gravity (at RT) <u>0.86 - 1.06 g/cc</u>
Solid Content <u>TBD %</u>	VOC, EPA 24 method <u>TBD lb./gal.</u>
Vapor Pressure (at RT) <u>N/AP</u>	Percent Volatile by Volume <u>TBD</u>
Vapor Density <u>N/AP</u>	Evaporation Rate <u>N/AP</u>
pH at Full Strength <u>neutral</u>	Solubility in Water <u>N/AP</u>
Appearance and Odor <u>off white/gray viscous liquid, plastic like odor</u>	

DOC.KH 2-10-04

TP040251



Engineered Sealing and Structural Solutions for the Automotive Industry  
160 McLean Drive • Box 308 • Romeo, MI 48065  
Main 1-586-336-1600 • Sales 1-586-336-1700 • Fax 1-586-336-1699

## MATERIAL SAFETY DATA SHEET

### Section IV - Fire and Explosion Hazard Data

Flash Point greater than 200°C Flammable Limits not determined

Extinguishing Media Dry chemical, water spray, foam, CO<sub>2</sub>

Special Fire & Explosion Hazards Avoid fumes from decomposing material

Special Firefighting Procedures Water spray or foam may help absorb fumes from decomposing material

### Section V - Health Hazard Data

Threshold Limit Value not determined

Effects of Overexposure None observed; do not eat; avoid excessive or prolonged skin contact as some sensitive individuals might experience some skin or eye irritation; avoid fumes generated from hot material during curing or bonding process.

Emergency & First Aid Procedures None special; remove from contact if irritation occurs; remove to fresh air if overcome by fumes.

### Section VI - Reactivity Data

NFPA - Health - not established Flammability - not established Instability - not established

Conditions to Avoid None special Incompatibility Strong oxidizing agents

Hazardous Decomposition Products Metal oxides, hydrocarbons, oxidized hydrocarbons, CO, CO<sub>2</sub>, SO<sub>x</sub>, NO<sub>x</sub>

Hazardous Polymerization Will not occur

### Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled Pick up and use unless contaminated, then remove to trash container.

Waste Disposal Method Incinerate or landfill as permitted by local regulations

EPA Hazardous Substance Category Not applicable

DCC.KH 2-10-04

TP040252



Engineered Sealing and Structural Solutions for the Automotive Industry  
160 McLean Drive • Box 308 • Romeo, MI 48065  
Main 1-586-336-1600 • Sales 1-586-336-1700 • Fax 1-586-336-1699

## MATERIAL SAFETY DATA SHEET

### Section VIII - Special Protection Information

Respiratory Protection Not required  
Ventilation Local exhaust is recommended when handling material  
Protective Gloves Cotton Eye Protection Not required  
Other Protective Equipment Not required

### Section IX - Special Precautions

Precautions to Be Taken in Handling & Storage Store at ambient conditions; wash hands after handling  
Other Precautions none known

### Section X

Toxicological Information Evidence of ingredient MSDS only  
Effects on Skin Some sensitive individuals might experience some skin irritation  
Effects on Eyes Some sensitive individuals might experience some eye irritation  
Labeling Information Not required  
SARA 313: This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.

Completed by Name & Title	<u>Debbie Chalton, MSDS Coordinator</u> <u>L &amp; L Products, Inc.</u>
Telephone/Fax Number	<u>(586) 336-3523</u> <u>(586) 336-3540</u>
Date Issued	<u>02/12/04</u>
Last Revised	<u></u>

DCC-KH 2-10-04

TP040249

# 3M Adhesion Promoter

MATERIAL SAFETY DATA SHEET  
3M  
3M Center  
St. Paul, Minnesota  
55144-1000  
1-800-364-3577 or (651) 737-6501 (24 hours)

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DIVISION: AUTOMOTIVE DIVISION  
AUTOMOTIVE AFTERMARKET

TRADE NAME:

3M Brand Adhesion Promoter #4298 and #6396

ID NUMBER/U.P.C.:

41-3700-9534-5	-	-	70-0705-3070-7	00-21200-64192-3
70-0705-3071-5	00-21200-64193-0		70-0705-3072-3	00-21200-64194-7
70-0705-3073-1	00-21200-64195-4		70-0705-3074-9	00-21200-64196-1
70-0705-7300-4	00-21200-64194-7		70-0706-9842-1	00-21200-27571-5
70-0706-9843-9	00-51131-06396-9		70-0706-9865-2	00-21200-27571-5
70-0706-9866-0	00-21200-27571-5		70-0706-9872-8	00-21200-31830-6

ISSUED: September 27, 1999

SUPERSEDES: November 26, 1997

DOCUMENT: 07-1193-7

1. INGREDIENT	C.A.S. NO.	PERCENT
CYCLOHEXANE.....	110-82-7	45 - 55
XYLENE.....	1330-20-7	25 - 35
ETHYL ALCOHOL.....	64-17-5	5 - 10
ETHYLBENZENE.....	100-41-4	3 - 7
ETHYL ACETATE.....	141-78-6	1 - 5
ACRYLATE POLYMER (NUTS# 04499600-5984P).....	TradeSecret	1 - 5
2,5-FURANDIONE, REACTION PRODUCTS WITH POLYPROPYLENE, CHLORINATED.....	68609-36-9	1 - 5
ISOPROPYL ALCOHOL.....	67-63-0	< 1
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER.....	25068-38-6	< 0.5
METHYL ALCOHOL.....	67-56-1	< 0.5
CHLOROBENZENE.....	108-90-7	< 0.5
BENZENE.....	71-43-2	< 0.1

This product contains the following toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:

CYCLOHEXANE  
XYLENE  
ETHYLBENZENE  
METHYL ALCOHOL

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

TP040318

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1. INGREDIENT	C.A.S. NO.	PERCENT
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CHLOROBENZENE  
 BENZENE

---

2. PHYSICAL DATA

---

BOILING POINT:..... 170 - 280 F  
   Estimated, based on composition  
 VAPOR PRESSURE:..... ca. 68 mmHg  
   calculated at 25 deg C  
 VAPOR DENSITY:..... ca. .0043 g/cc  
   calculated at 100 deg C  
 EVAPORATION RATE:..... ca. 6.4 xylene-1  
   calculated  
 SOLUBILITY IN WATER:..... ca. 10 %  
 SPECIFIC GRAVITY:..... ca. 0.82 g/ml  
 PERCENT VOLATILE:..... ca. 94 %  
 pH:..... ca. 5.5  
 VISCOSITY:..... 30 - 40 centipoise  
 MELTING POINT:..... N/A

APPEARANCE AND ODOR:  
 Liquid, yellow, solvent odor

---

3. FIRE AND EXPLOSION HAZARD DATA

---

FLASH POINT:..... ca. -4 F OC  
   ASTM D92  
 FLAMMABLE LIMITS - LEL:..... ca. 1 %  
   calculated  
 FLAMMABLE LIMITS - UEL:..... ca. 6 %  
   calculated  
 AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:  
 Water spray, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:  
 Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

---

Abbreviations: N/D - Not Determined    N/A - Not Applicable    CA - Approximately

---

3. FIRE AND EXPLOSION HAZARD DATA (continued)

---

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors may travel long distances along the ground or floor to an ignition source and flash back.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 3 REACTIVITY: 0  
UNUSUAL REACTION HAZARD: none

OSHA FIRE HAZARD CLASS: Class IB Flammable Liquid

---

4. REACTIVITY DATA

---

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:  
Heat, Sparks and/or Flames.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:  
Carbon Monoxide and Carbon Dioxide.

---

5. ENVIRONMENTAL INFORMATION

---

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Contain spill. Evacuate unprotected personnel from hazard area. Cover with absorbent material. Cover spill area with Light Water Brand or other AIC foam. (For further information on AIC foam usage, contact 3M Fire Protection Systems.) Collect using non-sparking tools. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in an approved metal container. Seal the container.

RECOMMENDED DISPOSAL:

Incinerate in a permitted hazardous waste incinerator. Combustion products will include HCl.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: ca. 750 gms/liter South Coast Air Quality Mgmt Dist Method Calculated.  
VOC Less H2O & Exempt Solvents: ca. 755 gms/liter South Coast Air Quality

---

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

TP040320

---

5. ENVIRONMENTAL INFORMATION (continued)

---

Mgmt Dist Method Calculated.

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

EPCRA HAZARD CLASS:

FIRE HAZARD: Yes PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

---

6. SUGGESTED FIRST AID

---

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

IF SWALLOWED:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

---

7. PRECAUTIONARY INFORMATION

---

EYE PROTECTION:

Avoid eye contact with vapor, spray, or mist. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: fluoroelastomer (Viton).

---

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

TP040321

7. PRECAUTIONARY INFORMATION (continued)

RECOMMENDED VENTILATION:

Local exhaust is required for operations using large amounts of material. Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid prolonged breathing of vapors. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor respirator, full-face organic vapor respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Keep container closed when not in use.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed. Flammable liquid and vapor. Keep away from heat, sparks, open flame, and other sources of ignition. No smoking while handling this material. Avoid static discharge.

OTHER PRECAUTIONARY INFORMATION:

For industrial or professional use only.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
CYCLOHEXANE.....	300	PPM	TWA	ACGIH	
CYCLOHEXANE.....	300	PPM	TWA	OSHA	
XYLENE.....	100	PPM	TWA	ACGIH	
XYLENE.....	150	PPM	STEL	ACGIH	
XYLENE.....	100	PPM	TWA	OSHA	
XYLENE.....	150	PPM	STEL	OSHA	
ETHYL ALCOHOL.....	1000	PPM	TWA	ACGIH	
ETHYL ALCOHOL.....	1000	PPM	TWA	OSHA	
ETHYLBENZENE.....	100	PPM	TWA	ACGIH	
ETHYLBENZENE.....	125	PPM	STEL	ACGIH	
ETHYLBENZENE.....	100	PPM	TWA	OSHA	
ETHYLBENZENE.....	125	PPM	STEL	OSHA	
ETHYL ACETATE.....	400	PPM	TWA	ACGIH	
ETHYL ACETATE.....	400	PPM	TWA	OSHA	
ACRYLATE POLYMER (NUTSRN 04499600-5984P).....	NONE	NONE	NONE	NONE	
2,5-FURANDIONE, REACTION PRODUCTS WITH POLYPROPYLENE, CHLORINATED....	NONE	NONE	NONE	NONE	

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

TP040322



EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
ISOPROPYL ALCOHOL.....	400	PPM	TWA	ACGIH	
ISOPROPYL ALCOHOL.....	500	PPM	STEL	ACGIH	
ISOPROPYL ALCOHOL.....	400	PPM	TWA	OSHA	
ISOPROPYL ALCOHOL.....	500	PPM	STEL	OSHA	
4,4'-ISOPROPYLIDENEDIPHENOL- EPICHLOROHYDRIN POLYMER.....	NONE	NONE	NONE	NONE	
METHYL ALCOHOL.....	200	PPM	TWA	ACGIH	Y
METHYL ALCOHOL.....	250	PPM	STEL	ACGIH	Y
METHYL ALCOHOL.....	200	PPM	TWA	OSHA	Y
METHYL ALCOHOL.....	250	PPM	STEL	OSHA	Y
CHLOROBENZENE.....	10	PPM	TWA	ACGIH	
CHLOROBENZENE.....	75	PPM	TWA	OSHA	
BENZENE.....	2.5	PPM	STEL	ACGIH	Y
BENZENE.....	0.5	PPM	TWA	ACGIH	Y
BENZENE.....	1	PPM	TWA	OSHA	
BENZENE.....	5	PPM	STEL	OSHA	
BENZENE.....	0.5	PPM	TWA	OSHA	

OSHA ACTION LEVEL

\* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

Moderate Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, itching, and dryness.

INHALATION:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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8. HEALTH HAZARD DATA (continued)

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Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED:

Gastrointestinal Effects: signs/symptoms generally will include abdominal pain.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

CANCER:

WARNING: Contains a chemical which can cause cancer. (71-43-2) (NTP human carcinogen, IARC human carcinogen 1, OSHA listed carcinogen, ACGIH suspected human carcinogen A2, Calif. Proposition 65)

REPRODUCTIVE/DEVELOPMENTAL TOXINS:

WARNING: Contains a chemical which can cause birth defects and male reproductive harm. (71-43-2)

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SECTION CHANGE DATES

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HEADING SECTION CHANGED SINCE November 26, 1997 ISSUE

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

TP040324

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The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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# 3M

## Adhesion Promoter 06396

### For Plastic Trim Attachment

Technical Data Sheet

March 2003

Supersedes Technical Data Sheet dated July 2002

**General Description** 3M<sup>®</sup> Adhesion Promoter 06396 is a liquid primer used to improve the adhesion of 3M<sup>®</sup> Automotive Attachment Tapes to most low surface energy plastic materials as well as injection-molded body side moldings and claddings used for automotive exterior trims. This would include common low surface energy plastics used for automotive interior and exterior trim applications (TPO, PPO, PP, PC, PC + ABS, etc.). Since formulations and surface energies can vary for these types of materials, each application should be verified through testing. 3M adhesion promoter 06396 is specifically formulated to be used on plastic parts with 3M<sup>®</sup> Acrylic Foam Tapes and 3M<sup>®</sup> Acrylic Plus Tapes (3M part numbers 06377, 06378, 06380, 06381, 06382, 06383, 06384, 06385, 06386 and 06397) for automotive applications.

<b>Physical Properties</b>	<b>Components</b>	Cyclohexane, xylene, ethyl alcohol, ethylbenzene, ethyl acetate, acrylic polymer, chlorinated polyolefins, isopropyl alcohol  Contains less than 0.5% of the following: bisphenol a-epichlorohydrin copolymer, methyl alcohol, chlorobenzene
	<b>Solids</b>	Approximately 5%
	<b>Color</b>	Straw
	<b>Viscosity</b>	25 Centipoise maximum
	<b>Flashpoint</b>	-4°F (-20°C)
	<b>Drying Time</b>	30-90 seconds
	<b>Density</b>	3.1 kg (6.8 lb) per gallon
	<b>Availability</b>	Sponge applicator packet - 2.5 oz
	<b>Coverage</b>	Approximately 150 in <sup>2</sup> per sponge applicator packet

**Safety Procedures** Observe proper handling precautions as outlined in the material safety data sheet (MSDS), which is available on request. The website address for 3M MSDSs is [www.3M.com/msds](http://www.3M.com/msds). If necessary, the 3M 24-hour emergency response telephone number is 1-800-364-3577 or 651-737-6501.

**Shelf Life** Shelf life is one year from date of receipt by customer when stored in the original container at 4°C - 38°C (40°F - 100°F) and 0 - 95% relative humidity. Storage at lower temperatures for short periods will not affect product performance if the primer is warmed to recommended temperatures before application.

TP040315

## Technical Data Sheet 06396

Page 2

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**Surface Preparation** The bonding surface should be clean and dry. Contaminated surfaces should be cleaned with an untreated, lint-free cloth and 3M™ General Purpose Adhesive Cleaner (Part No. 08984) or 3M™ Prep Solvent 70 Low VOC Cleaner (Part No. 08973). Follow this by wiping with another untreated, lint-free cloth and isopropyl alcohol. Observe precautions for solvent handling.

---

**Application Procedure** 3M™ Adhesion Promoter 06396 is supplied in an easy-to-use sponge applicator packet. The liquid contents of the packet should be completely used as soon as possible after opening. Hold packet upright and avoid squeezing an opened packet to prevent spillage of liquid contents. The packet can be opened by tearing across the top of the packet at the notches. This will expose the sponge applicator. *Do not remove the sponge or squeeze a freshly opened packet.* Handling the bottom section of the packet should enable application of 3M adhesion promoter 06396 with no mess.

Apply a thin, uniform coating to the bonding surface, using the minimum amount that will fully coat the surface. A wet coating thickness of 0.002 inch or less ensures a good application. Although drying times may vary due to temperature and/or humidity, a drying time of 30-90 seconds results with a coating of this thickness. The primer should be dry before applying tape. For best results, apply tape immediately after primer application or no more than one hour after primer application. Be sure the primer surface remains free from contaminants prior to tape application.

---

**Clean Up** 3M adhesion promoter 06396 can be cleaned up with methylethyl ketone (MEK) or acetone solvents (be careful with solvents on plastics). Vigorous scrubbing may be required. To prevent cosmetic damage to visible surfaces, be sure to apply the promoter or any solvents only to areas that will be fully covered by the part.

**Caution:** When using solvents for cleanup, use the precautionary measures recommended in the MSDS for the solvent.

**IMPORTANT NOTICE:** All statements and technical information in this literature are based on tests 3M believes are reliable. 3M does not warrant or guarantee the accuracy or completeness of this information. 3M warrants that the products described in this literature will be free from defects in material or manufacture when shipped. 3M MAKES NO OTHER WARRANTIES REGARDING THESE PRODUCTS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Because there are many factors that can affect the use and performance of these products, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate these products to determine whether they are fit for a particular purpose, suitable for the user's method of application, and meet the user's performance specifications and expectations.

**Limitation of Remedies and Liability:** If any product described in this literature is defective, the exclusive remedy, at 3M's option, will be to refund the purchase price of or to replace the defective product. 3M IS NOT LIABLE FOR ANY OTHER LOSS OR DAMAGES, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR INABILITY TO USE THESE PRODUCTS REGARDLESS OF LEGAL THEORY.

**Automotive Aftermarket Division**

3M Center, Building 223-6N-01  
St. Paul, MN 55144-1000  
[www.3M.com/automotive](http://www.3M.com/automotive)

*Milbrenn 50% Post-Consumer Fiber*  
Printed in U.S.A.  
© 3M 2003 76-3489-1062-0 3916-EMC C.I.C.

TP040317



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont  
Material Safety Data Sheet

Page 1

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"KRYTOX" GPL-10X FLUORINATED OILS  
5635APP Revised 18-JAN-2001  
-----

-----  
CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
-----

Material Identification

"Krytox" is a registered trademark of DuPont.

Corporate MSDS Number : DUD02678  
Grade : X Indicates Base Oil Viscosity Grade

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont  
1007 Market Street  
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.  
302-774-1000)  
Transport Emergency : CHEMTREC 1-800-424-9300 (outside U.S.  
703-527-3887)  
Medical Emergency : 1-800-441-3637 (outside the U.S.  
302-774-1000)

-----  
COMPOSITION/INFORMATION ON INGREDIENTS  
-----

Components

Material	CAS Number	%
Perfluoroalkylether	60154-91-4	100

-----  
HAZARDS IDENTIFICATION  
-----

\* Potential Health Effects

Skin contact may cause reddening of the skin. The product was not a skin irritant or skin sensitizer in a 100 person human patch test.

Based on data from animal tests, eye contact may cause eye irritation with discomfort, tearing or blurring of vision.

Inhalation of fluorine containing compounds released as decomposition products from overheated or burning product may cause lung irritation and pulmonary edema which require medical treatment.

## (HAZARDS IDENTIFICATION - Continued)

**Carcinogenicity Information**

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

-----  
**FIRST AID MEASURES**  
-----**\* First Aid****INHALATION**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**SKIN CONTACT**

The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

**EYE CONTACT**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**INGESTION**

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

**Notes to Physicians**

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

-----  
**FIRE FIGHTING MEASURES**  
-----**Flammable Properties**

Flash Point : Does not ignite  
Method : FMCC

Non-combustible

**Extinguishing Media**

As appropriate for combustibles in area.

TP040327

**(FIRE FIGHTING MEASURES - Continued)****Fire Fighting Instructions**

Wear self-contained breathing apparatus. Wear full protective equipment.

Decomposition at flame temperatures may form toxic fluorine compounds. Avoid breathing decomposition products.

-----  
**ACCIDENTAL RELEASE MEASURES**  
-----**Safeguards (Personnel)**

**NOTE:** Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

**Spill Clean Up**

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

**Accidental Release Measures**

Place in container for disposal. Remove source of heat and flame.

-----  
**HANDLING AND STORAGE**  
-----**Handling (Personnel)**

Perfluoropolyether oils are considered to be inert and of low toxicity. However, as with all lubricants it is important to observe correct hygiene practices. Avoid contact with eyes. Avoid contact with skin. Wash thoroughly after handling.

**Storage**

Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Keep away from heat and flames to avoid decomposition products.



-----  
EXPOSURE CONTROLS/PERSONAL PROTECTION  
-----

## Engineering Controls

Keep container tightly closed.

Use ventilation when the oil is heated above 550 degF. Keep away from heat and flames.

## Personal Protective Equipment

## EYE/FACE PROTECTION

Wear safety glasses or overall chemical splash goggles.

## RESPIRATOR

Wear NIOSH approved respiratory protection as appropriate.

## PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate, impervious gloves, apron, pants, and jacket.

## Exposure Guidelines

## Exposure Limits

## "KRYTOX" GPL-10X FLUORINATED OILS

PEL (OSHA) : None Established  
TLV (ACGIH) : None Established

-----  
PHYSICAL AND CHEMICAL PROPERTIES  
-----

## Physical Data

Solubility in Water : Negligible Wt%  
pH : Neutral  
Odor : Odorless  
Form : Liquid, Viscous oil  
Color : Colorless  
Specific Gravity : 1.86-1.91 @ 24 deg C (75 deg F)  
Pour Point : -57 to -37.7 deg C (-70.6 to -35.9 deg F)

-----  
**STABILITY AND REACTIVITY**  
-----**Chemical Stability**

Stable.

**Incompatibility with Other Materials**

None reasonably foreseeable.

**Decomposition**

Heating above 350 degC (662 degF) may form potentially toxic fluorine compounds. Depolymerization may occur in the presence of some metal oxides at temperatures above 286 degC (550 degF). Decomposition occurs at increasing rates as temperature is raised above 355 degC (670 degF).

**Polymerization**

Polymerization will not occur.

-----  
**TOXICOLOGICAL INFORMATION**  
-----**\* Animal Data****Perfluoroalkylether:**

Inhalation 4 hour ALC:	>19.54 mg/L in rats
Skin Absorption ALD:	>17,000 mg/kg in rabbits
Oral ALD:	>25,000 mg/kg in rats

The product is a mild skin and eye irritant, but is not a skin sensitizer in tests on animals. A single inhalation exposure caused nonspecific effects such as respiratory irritation. Exposure to thermal decomposition products produced irritation, irregular respiration, tremors and increased liver weight. Repeated inhalation exposures to 10, 100, or 1000 mg/m<sup>3</sup> caused increased lung weights and microscopic particle-laden macrophages in the lungs and lymph nodes; this was an expected pulmonary response to high aerosol concentrations of an inert material. No animal test reports are available to define carcinogenic, developmental, or reproductive hazards. Tests have shown that the product did not cause genetic damage in bacterial cell cultures.

TP040330

-----  
DISPOSAL CONSIDERATIONS  
-----

## Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

-----  
TRANSPORTATION INFORMATION  
-----

## Shipping Information

Not Regulated as a hazardous material by DOT, IMO, or IATA.

-----  
REGULATORY INFORMATION  
-----

## U.S. Federal Regulations

TSCA Inventory Status : Reported/Included.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes  
Chronic : No  
Fire : No  
Reactivity : No  
Pressure : No

-----  
OTHER INFORMATION  
-----

## NFPA, NPCA-HMIS

NPCA-HMIS Rating  
Health : 1  
Flammability : 0  
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

-----  
The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : MSDS Coordinator  
Address : DuPont Chemical Solutions Enterprise  
Wilmington, DE 19898  
Telephone : 800-441-7515

TF040331

(Continued)

# Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS

## **OWNER'S LETTER**

Dear Nissan Owner,

At Nissan, we take pride in the quality of our products, and your satisfaction is vitally important to us. During the course of ongoing Quest production several product enhancements were incorporated into Quests built after your Quest was manufactured. While you may never experience the conditions that prompted these improvements, we would like to offer you the opportunity to have your vehicle upgraded free of charge.

These upgrades for your Quest fall into three areas: squeaks and rattles; ease of component operation; and an air conditioning label replacement. The upgrades will include the installation of a noise reduction kit for the sliding doors and structural insulation in the body above the rear door. Additionally, your dealer will replace the driver power window switch; shifter lever; 2<sup>nd</sup> row seat levers; throttle pedal; and ball studs that mount the rear door support struts. The reading lamps will be modified to improve operation and an A/C servicing label will be replaced with a new one. Depending upon when your Quest was manufactured, one or more of these improvements may already have been installed in your vehicle. Your Nissan dealer will be informed of the specific actions required for your vehicle and has been authorized to perform all that apply.

Nissan is conducting the Quest Customer Satisfaction Initiative to ensure your continued confidence and satisfaction with your Quest. We hope that you will take prompt advantage of the Quest Customer Satisfaction Initiative by scheduling your appointment as soon as possible. In addition, if you have previously paid for any of the repairs or upgrades covered by this initiative, Nissan will reimburse you for any reasonable, documented expenses. (Please call 1-800-753-9781 to make a claim.)

**Please also note that all upgrades which are part of the Quest Customer Satisfaction Initiative MUST be completed no later than June 30, 2005.**

Again, therefore, you are urged to schedule an appointment at your earliest convenience. Please bring this notice with you when you arrive for your appointment.

We at Nissan look forward to serving your automotive needs now and for many years to come. Thank you for your cooperation. We are indeed sorry for any inconvenience this may cause you.

NISSAN NORTH AMERICA

---

**Subject: 2004 Quest Customer Satisfaction Initiative**

**Attention - Dealer Principals, Parts and Service Managers, Service Advisors**

**\*\*\*\*\* Completions to Date \*\*\*\*\***

Thanks to your efforts, the Quest Customer Satisfaction Initiative upgrades have been applied to over 32,500 vehicles to date. This represents approximately 72% of the vehicles eligible for the upgrades. When this program was announced, owners were informed to bring their vehicle to a Nissan dealership prior to June 30, 2005. Nissan wants to make sure the remaining customers have the opportunity to take advantage of these upgrades so we are extending the deadline for a minimum of 6 months. At that time the program will be reevaluated.

To help Nissan make the upgrades program available to the remaining customers, we need your help. Please review your records to identify any 2004 Quest vehicles sold by your dealership but haven't visited your dealership within the past 6 months. Then check Service Comm to determine if any upgrades (or any open recalls) still need to be performed. If so, please contact these customers and invite them to schedule an appointment at their earliest convenience.

In addition, your Nissan Dealer Parts and Service Manager (DPSM) can provide you with a list of VINs of 2004 Quest vehicles which reside in your market area (per vehicle registration information) and remain eligible for the Customer Satisfaction upgrades. Please contact your DPSM for additional information. Please note that any lists provided by your DPSM are for the sole purpose of contacting Nissan owners who are eligible for the CSI upgrades or a recall campaign. Use of the lists for any other purpose is strictly prohibited.

Your support of this important initiative is appreciated.

**Nissan Parts and Service Operations  
06/24/05**

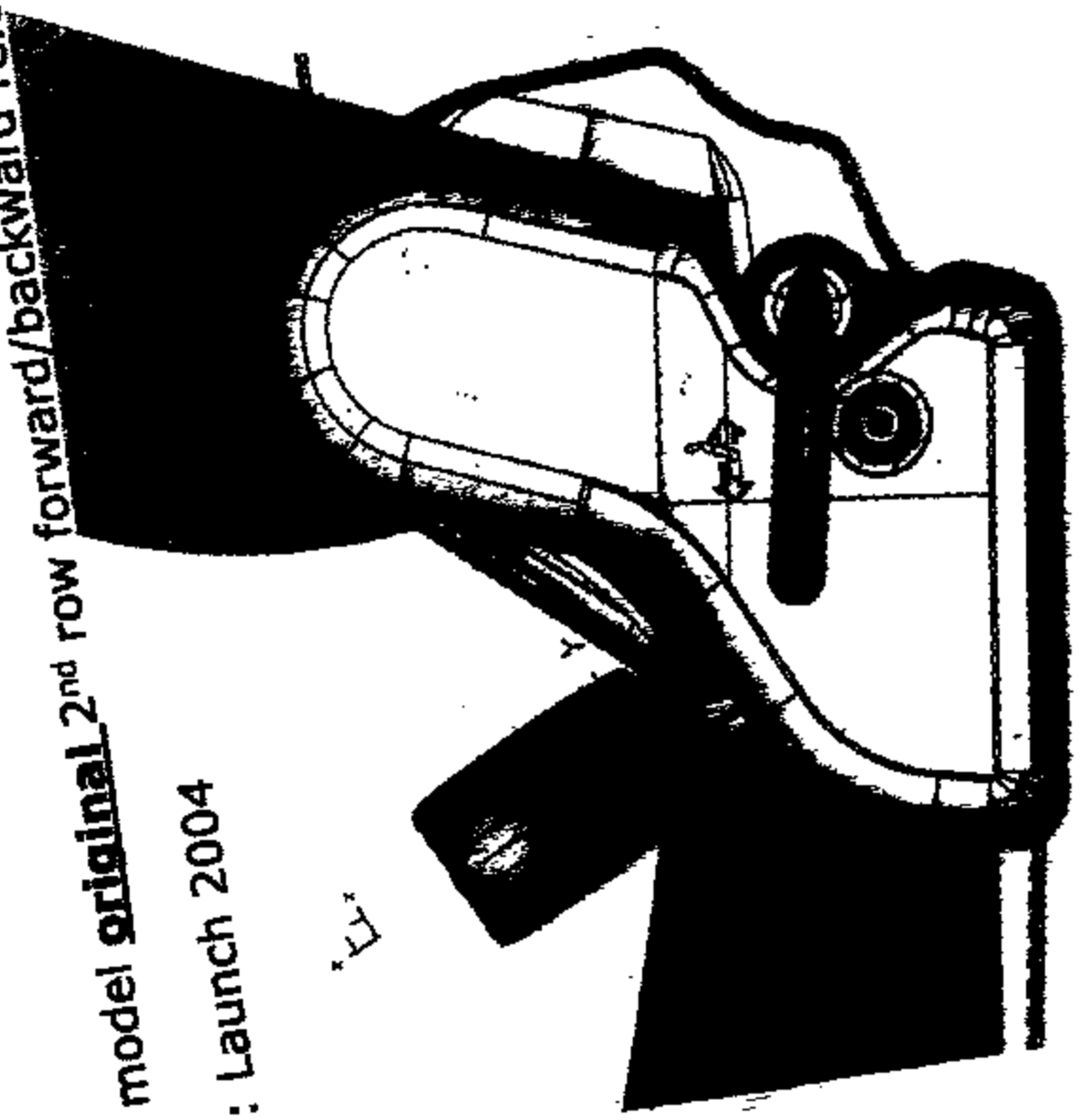
**ATTACHMENT K**

Drawings of subject component

This attachment contains drawings of handles #1, #2 and #3 as described in response to Request No. 12.

latest 2004 model original 2<sup>nd</sup> row forward/backward release lever:

Model: Launch 2004

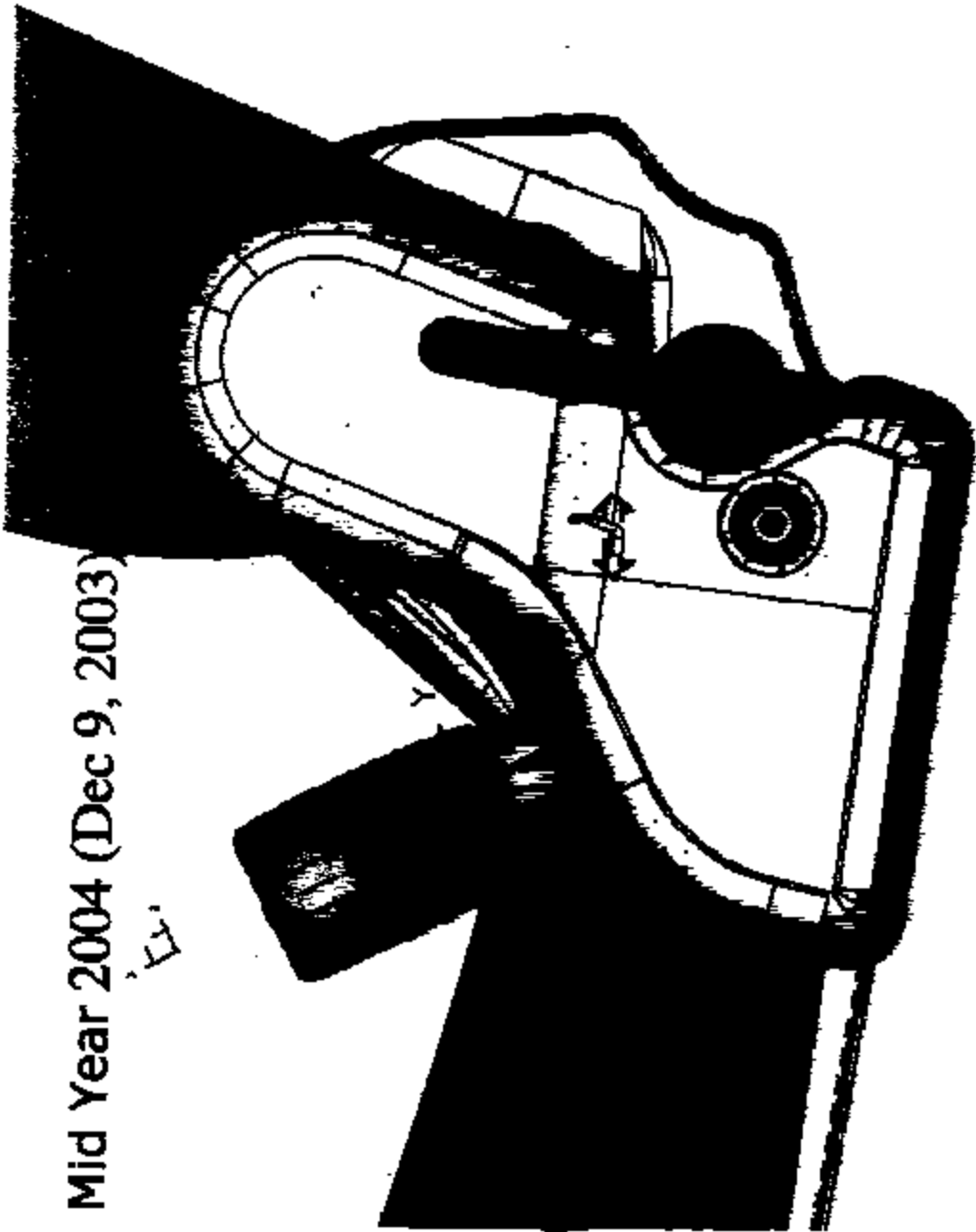


41



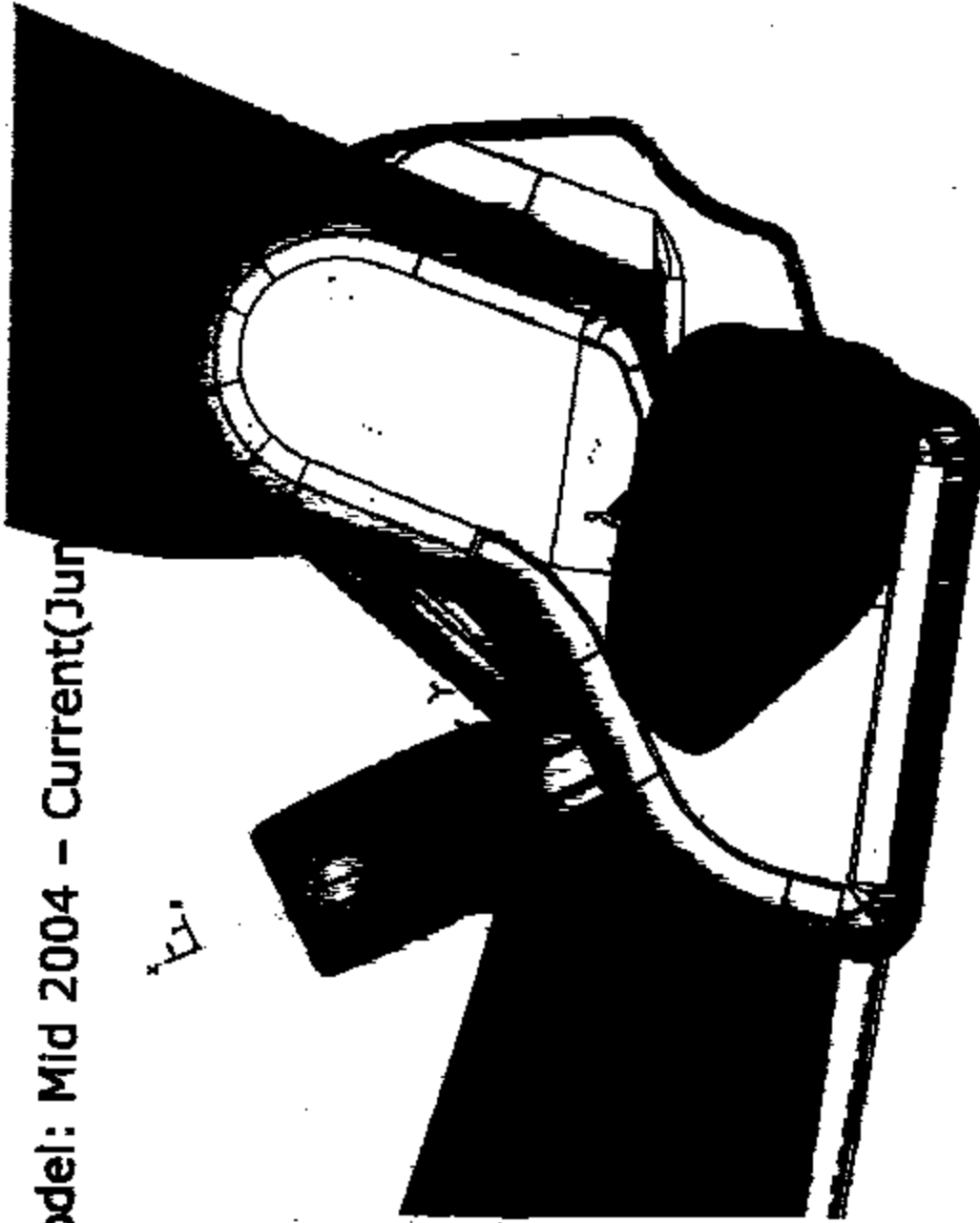
**Modification #1 Quest 2<sup>nd</sup> row forward/backward release lever:**

Model: Mid Year 2004 (Dec 9, 2003)



**Modification #2 Quest 2<sup>nd</sup> row forward/backward release lever:**

Model: Mid 2004 - Current(Jun



**ATTACHMENT L**

Photographs of subject component

This attachment contains photographs of handles #1, #2 and #3 as described in response to Request No. 12.

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**CONFIDENTIAL ATTACHMENT M**

Response to Request No. 8

[Submitted pursuant to 49 CFR Part 512]





