Technical Bulletin



MITEAN NORTH AMERICA, INC. Compile (C

RECALL CAMPAIGN BULLETIN

eference:

NTB04-062 June 23, 2004

VOLUNTARY RECALL CAMPAIGN FUEL SENDING UNIT

CAMPAIGN I.D. # / NHTSA #: R0401 & R0402 / 04V-230

APPLIED VEHICLES: 1999 - 2003 Frontier (D22)

2000 - 2003 Xterra (WD22)

APPLIED VINS: Vehicles built within the below VIN ranges:

Frontier:

1N6*D2*Y*XC300001-345558
1N6*D2*T*YC300001-437820
1N6*D2*Y*YC300002-437828
1N6*D2*T*1C300001-404427
1N6*D2*Y*1C300002-404387
1N6*D2*T*2C300002-396643
1N6*D2*X*2C300011-396637
1N6*D2*Y*2C300001-396641
1N6*D2*T*3C400001-438379
1N6*D2*X*3C400006-438371
1N6*D2*Y*3C400002-438380

Xterre:

5N1*D2*T*YC500001-612775 5N1*D2*Y*YC500005-612751 5N1*D2*T*1C500001-599018 5N1*D2*Y*1C500002-599014 5N1*D2*T*2C500000-606345 5N1*D2*Y*2C500002-606344 5N1*D2*T*3C600001-666247 5N1*D2*Y*3C600000-666244

NOTE: Use Service Comm to confirm campaign eligibility.

INTRODUCTION

Nissan has determined that some 1999-2003 model year Nissan Frontier vehicles, equipped with the 6 cylinder engine and 2000-2003 model year Nissan Xterra vehicles, equipped with the 4 and 6 cylinder engine may have a defect which relates to motor vehicle safety. There is a possibility that the fuel pump terminal on the fuel-sending unit may develop a crack in its plastic molding which could cause the terminal strip to corrode under some environmental conditions. If corrosion occurs, the terminal strip could eventually break. This will cause the fuel pump to stop operating and will result in not being able to start the engine or cause the engine to stop running without warning during vehicle operation, which could result in a crash. To prevent this condition from occurring, Nissan is conducting a Voluntary Safety Recall Campaign to replace or repair the fuel-sending unit.

IDENTIFICATION NUMBER

Nissan has assigned Identification number R0401 & R0402 to this campaign. These numbers must appear on all communications and documentation of any nature dealing with this campaign.

R0401

This PNC group is for vehicles located in the "Salt" states (shown below). Service
Comm will identify these vehicles.

Salt States Include:

Connecticut	Kentucky	New Hampshire	Tennessee
Delaware	Maine	New Jersey	Vermont
District of Columbia	Maryland	New York	Virginia
Illinols	Massachusetts	Ohlo	West Virginia
Indiana	Michigan	Pennsylvania	Wisconsin
lowa	Minnesota	Rhode Island	

R0402

This PNC group is for vehicles identified as NOT being located in the "Salt" states.
 Service Comm will identify these vehicles.

NUMBER OF VEHICLES POTENTIALLY AFFECTED

The number of vehicles potentially affected is approximately 590,000.

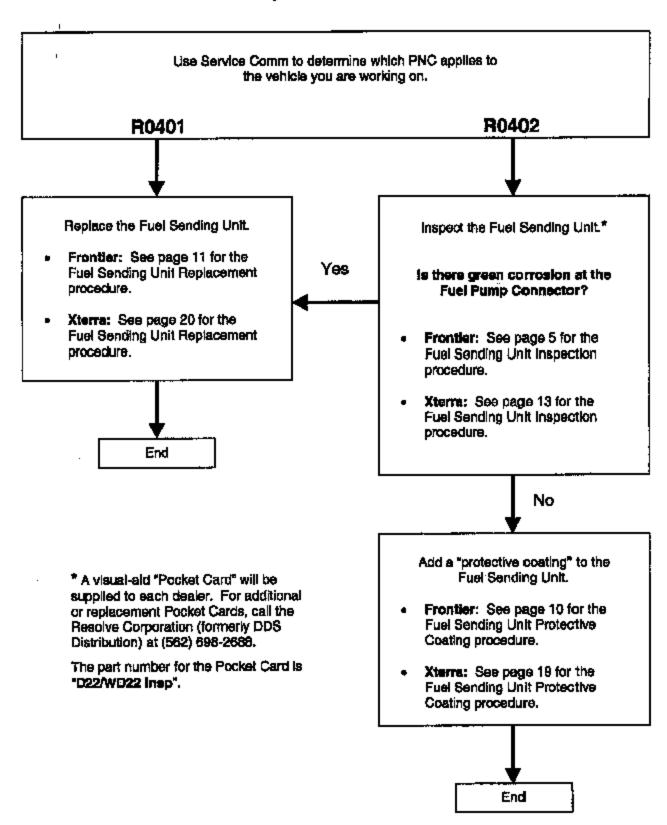
DEALER RESPONSIBILITY

It is the retailer's responsibility to check Service Comm for the campaign status on each vehicle falling within the range of this voluntary safety recall which for any reason enters the service department. This includes vehicles purchased from private parties or presented by transient (tourist) owners and vehicles in a dealer's inventory. Federal law requires that new vehicles in dealer inventory which are the subject of a safety recall must be corrected prior to sale. Failure to do so can result in civil penalties by the National Highway Traffic Safety Administration. While federal law applies only to new vehicles, Nissan strongly encourages dealers to correct any used vehicles in their inventory before they are retailed.

SERVICE PROCEDURE

Use this Repair Flow Chart to determine the Service Procedure.

Repair Flow Chart



The following items are required to perform the procedures contained in this bulletin.

- Cleaning/Sealing Kit #B5060-79900
 - One kit per vehicle
 - Kit contains: 1 Cleaning Adapter, 1 Sealing Adapter, and 1 Connector Cover
- Connector Removal Tool #J-47009 (will be sent directly to your dealer).
- Nylon Brush #J-47239 (will be sent directly to your dealer)
- Protective Coating #KY140-9Z400 (one can good for about 40 vehicles)
- Brake Cleaner #999MP-AH001P (one can good for about 20 vehicles)

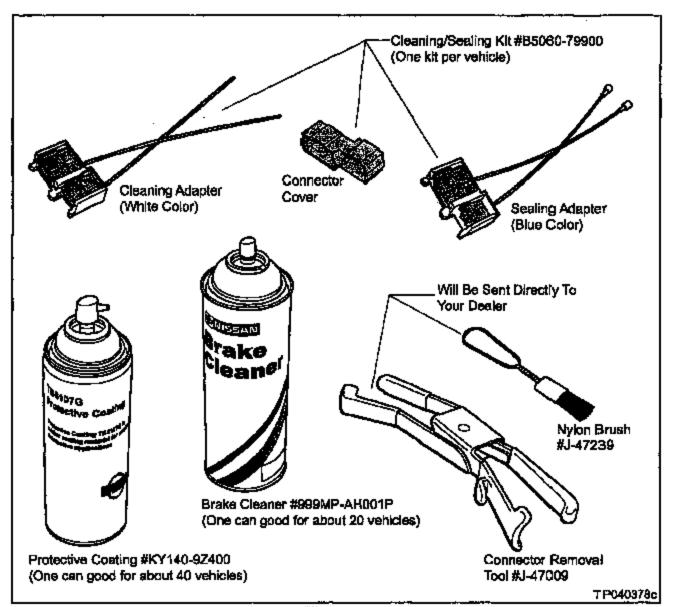


Figure 1

Frontler: Inspect Fuel Sending Unit

 Raise the vehicle on a holst so you can reach the Fuel Sending Unit Connectors (see Figure 2).

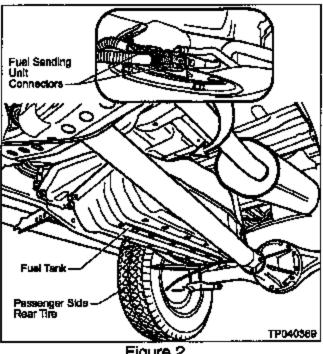


Figure 2

2. Use the Connector Removal Tool #J-47009 to disconnect the Fuel Sending Unit Connectors (4-wire connector and 2-wire connector). See Figure 3.

NOTE: For 1999 and 2000 MY Frontier:

- The Connector Removal Tool cannot be used on the 4-wire connector.
- To release this connector, push forward on the Sliding Button (on top of the connector). See Figure 3.

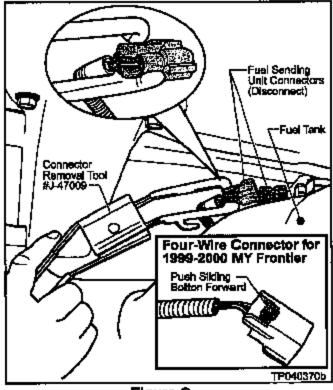


Figure 3

 Install the Connector Cover onto the Fuel Sending Unit Connectors until it is fully seated. See Figure 4.

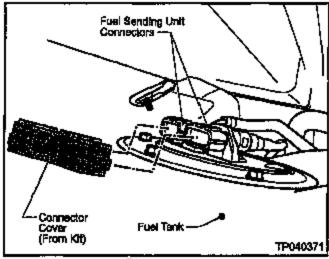
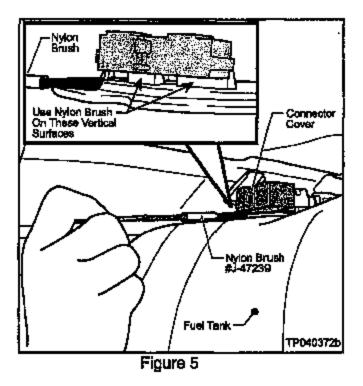


Figure 4

- Use the Nylon Brush #J-47239 to loosen/remove dirt and debris on the vertical surface of the Fuel Sending Unit Connectors (see Figure 5).
- Remove the Connector Cover once you're done with the above step.



Install the Cleaning Adapter (white color adapter) onto the Fuel Sending Unit Connectors until it clicks (locks) in place. See Figure 6.

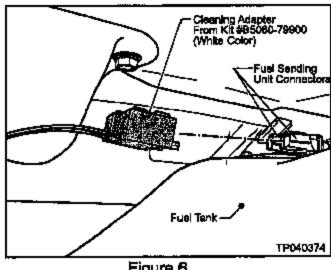


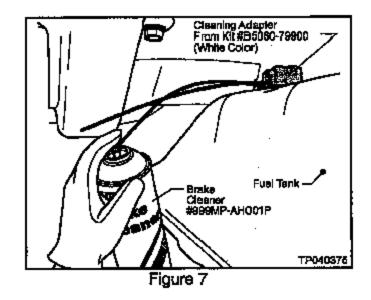
Figure 6

CAUTION: When performing the following steps, use suitable protective gloves, safety glasses, or face shield.

- Spray Brake Cleaner #999MP-AH001P through each Adapter Tube for about two seconds (see Figure 7).
 - You will need to insert the Adapter Tube into the Brake Cleaner spray can nozzle.
- 8. Remove and discard the Cleaning Adapter.

NOTE:

- When you remove the Cleaning Adapter, one or both of the connector inserts may come out of the Adapter.
- Make sure you remove the Insert(s) from the Fuel Sending Unit connector(s).



 Install the Connector Cover onto the Fuel Sending Unit Connectors until it is fully seated. See Figure 8.

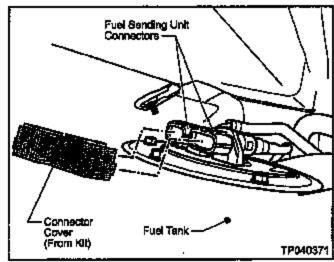
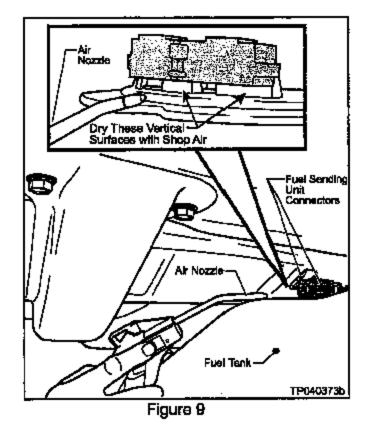


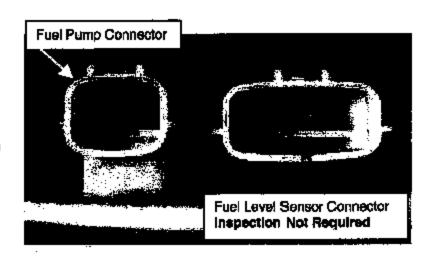
Figure 8

10. Use shop air to <u>thoroughly</u> dry the vertical surface of the Fuel Sending Unit Connectors, then remove the Connector Cover. See Figure 9.

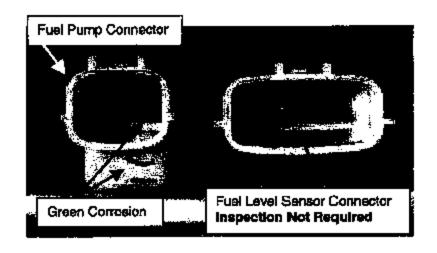


- 11.Inspect the Fuel Pump Connector for green corrosion.
 - Inspection is NOT required for the Fuel Level Sensor Connector.
 - Use a mirror (if needed) to look at the connector.
 - · See Illustrations below for examples of green corrosion.
 - a. If **OK**, go to "Frontier: Add Protective Coating To Fuel Sending Unit" (next page).
 - b. If NG, go to "Frontier: Replace Fuel Sending Unit" (page 11).

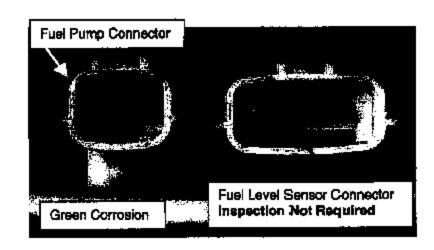
OK (No Green Corrosion)



NG (With Green Corrosion)



NG (With Green Corrosion)



Frontier: Add Protective Coating To Fuel Sending Unit

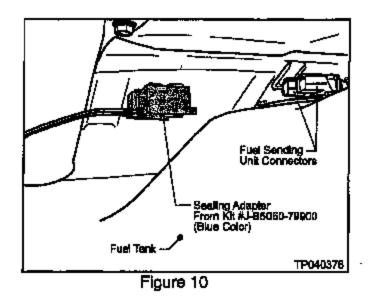
 Install the Sealing Adapter (blue color adapter) onto the Fuel Sending Unit Connectors until it clicks (locks) in place. See Figure 10.

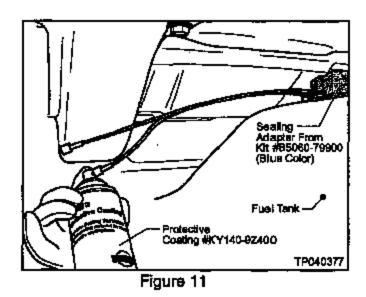
CAUTION: When performing the following steps, use suitable protective gloves, safety glasses, or face shield.

- Shake the Protective Coating can #KY140-9Z400 to thoroughly mix the contents.
- Spray the Protective Coating #KY140-9Z400 through each Adapter Tube for about two seconds (see Figure 11).
 - You will need to attach the Adapter Tube onto the Protective Coating spray can nozzle.
 - You do not have to wait for the Protective Coating to dry. Proceed to the next step.
- Remove and discard the Sealing Adapter.

NOTE:

- When you remove the Sealing Adapter, one or both of the connector inserts may come out of the Adapter.
- Make sure you remove the insert(s) from the Fuel Sending Unit connector(s).
- Re-connect the Fuel Sending Unit Harness Connectors, making sure they are securely locked into position.
- Start the vehicle and confirm proper engine running and fuel gauge operation.





Frontier: Replace Fuel Sending Unit

WARNING:

- Before performing any of the Service Procedures below, be certain there are no ignition sources (i.e., open flames, sparks, etc.) in or around the vehicle/work area.
- Make sure the appropriate rated fire extinguisher is available for immediate use.
- Use suitable protective gloves, safety glasses, or face shield.
- Release the fuel pressure from the fuel system using CONSULT-II (or other suitable method). Follow the procedure in the "EC" section of the Service Manual.
- Use a suitable device to remove the fuel from the fuel tank.
- Remove the fuel tank:
- For detailed instructions on fuel tank removal and installation, refer to the vehicle-specific Service Manual, Section FE (Fuel And Exhaust)/Fuel System/Removal and Installation/Fuel Tank.

WARNING: Follow all warnings and cautions provided in the Service Manual.

- The hoses MUST be re-connected to the same pipes they were removed from.
- If the hoses are re-connected incorrectly, refueling difficulties may occur.
- Before disassembly: use duct tape and an "indelible" marker (permanent marker), to mark the matching pipes and hoses, which are attached to the fuel filler neck (see Figure 12).

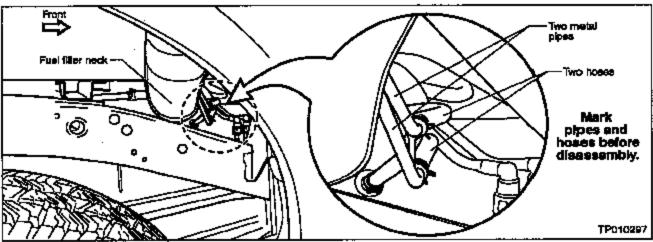


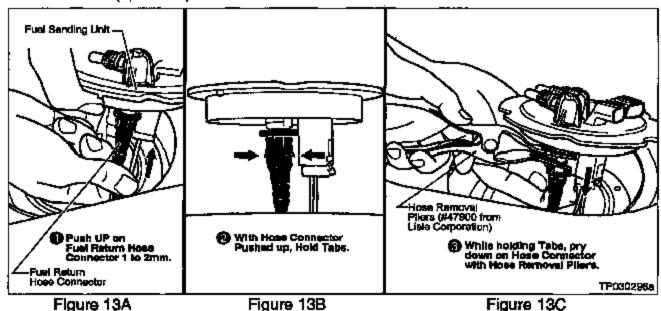
Figure 12

- Remove the Fuel Sending Unit.
 - Refer to the "FE" section of the Service Manual for the Fuel Sending Unit removal procedure.
 - Cut and discard the old Fuel Sending Unit O-ring. You'll be installing a new O-ring later.

NOTE: After releasing fuel pressure: To disconnect the fuel return hose from the Fuel Sending Unit, do the following:

- Push UP on the fuel return hose connector 1 to 2 mm (around 1/16-inch). See Figure 13A.
- With the hose connector pushed UP, hold the two plastic tabs. See Figure 13B.
- While holding the plastic tabs, pry DOWN on the hose connector with hose removal pliers (such as #47900, Lisle Corporation or equivalent). See Figure 13C.

NOTE: The hose removal pliers (noted above) are available from TECH-MATE at 1-800-662-2001 (option #4).



- Install the new Fuel Sending Unit O-ring In the groove on the fuel tank.
- Use the <u>new</u> mounting screws to re-install the Fuel Sending Unit on the fuel tank. Refer to the "FE" section in the applicable Service Manual.
 - Tighten the Fuel Sending Unit mounting screws to 2.0 2.5 N-m (0.20 0.26 kg-m, 17.4 22.6 in-lb).
- 7. Re-install the fuel tank. Refer to the "FE" section in the applicable Service Manual.

IMPORTANT:

- Make sure the hoses removed from the fuel tank are <u>correctly</u> installed to the same pipes they were removed from.
- Make sure the Fuel Sending Unit Wire Harness Connectors are securely locked into position.
- Re-assemble all previously removed components in the reverse order you removed them.
- 9. Start the vehicle and confirm proper engine running and fuel gauge operation.

Xterra: Inspect Fuel Sending Unit

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

- 1. Remove the rear, passenger-side, bottom Seat Cushion as follows:
 - a. Pull on the Seat Cushion Release Straps while lifting UP on the front edge of the Seat Cushion (see Figure 14).
 - b. Remove the Cushion and place it in a clean, safe location.

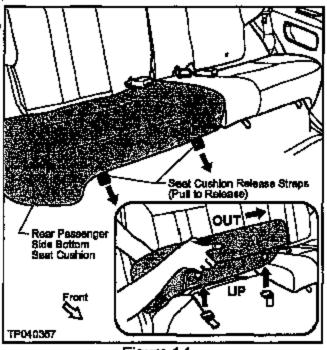


Figure 14

2. Remove four Bolts and remove the Body Cover Plate (see Figure 15).

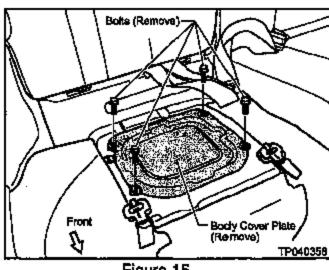


Figure 15

 Remove three Bolts and lift the Fuel Sending Unit Inspection Cover UP (see Figure 16).

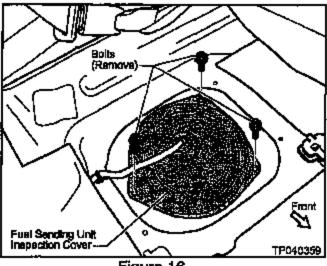
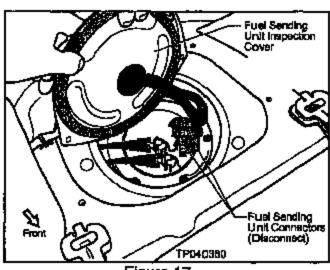
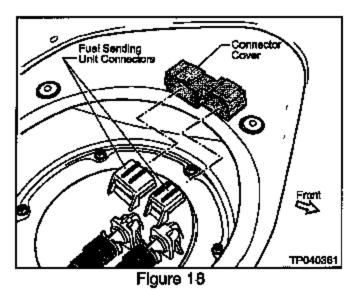


Figure 16

 Disconnect the Fuel Sending Unit Connectors (see Figure 17).



Install the Connector Cover onto the Fuel Sending Unit Connectors until it is fully seated. See Figure 18.



- Use the Nylon Brush #J-47239 to loosen/remove dirt and debris on the vertical surface of the Fuel Sending Unit Connectors (see Figure 19).
 - **NOTE:** If needed, you can bend the Brush to better reach the vertical surfaces.
- Remove the Connector Cover once you're done with the above step.

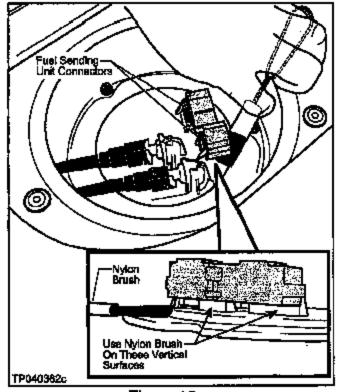


Figure 19

 Install the Cleaning Adapter (white color adapter) onto the Fuel Sending Unit Connectors until it clicks (locks) in place. See Figure 20.

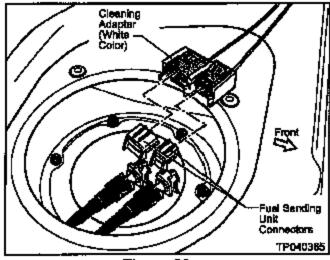


Figure 20

CAUTION: When performing the following steps:

- Use suitable protective gloves, safety glasses, or face shield.
- Use suitable covers to protect carpet, upholstery, etc.
- Spray Brake Cleaner #999MP-AH001P through each Adapter Tube for about two seconds (see Figure 21).
 - You will need to insert the Adapter Tube into the Brake Cleaner spray can nozzle.
- Remove and discard the Cleaning Adapter.

NOTE:

- When you remove the Cleaning Adapter, one or both of the connector inserts may come out of the Adapter.
- Make sure you remove the insert(s) from the Fuel Sending Unit connector(s).

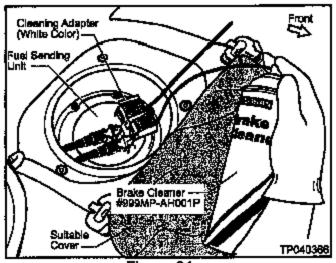


Figure 21

11. Install the Connector Cover onto the Fuel Sending Unit Connectors until it is fully seated. See Figure 22.

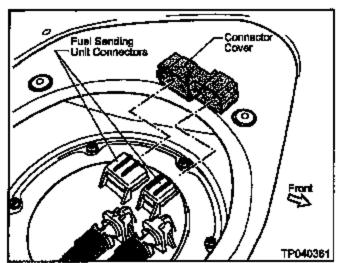


Figure 22

12. Use shop air to thoroughly dry the vertical surface of the Fuel Sending Unit connectors, then remove the Connector Cover. See Figure 23.

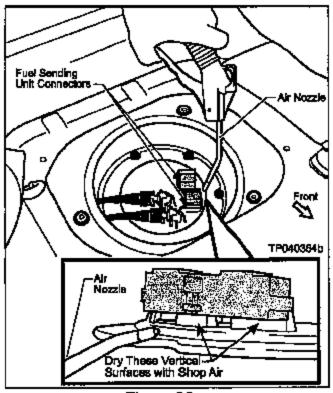
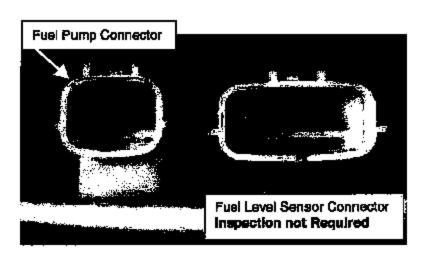


Figure 23

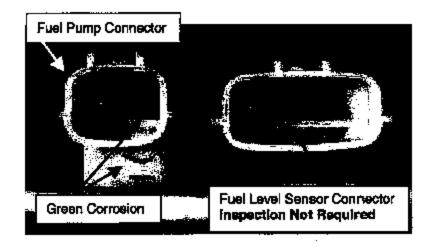
13. Inspect the Fuel Pump Connector for green corrosion.

- Inspection is NOT required for the Fuel Level Sensor Connector.
- Use a mirror to look at the connector.
- See illustrations below for examples of green corrosion.
- a. If OK, go to "Xterra: Add Protective Coating To Fuel Sending Unit" (next page).
- b. If NG, go to "Xterra: Replace Fuel Sending Unit" (page 20).

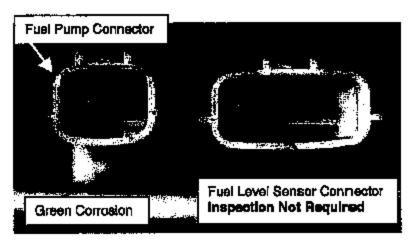
OK (No Green Corrosion)



NG (With Green Corrosion)



NG (With Green Corrosion)



Xterra: Add Protective Coating To Fuel Sending Unit

 Install the Sealing Adapter (blue color adapter) onto the Fuel Sending Unit Connectors until it clicks (locks) in place. See Figure 24.

CAUTION: When performing the following steps:

- Use suitable protective gloves, safety glasses, or face shield.
- Use suitable covers to protect carpet, uphoistery, etc.
- Shake the Protective Coating can #KY140-9Z400 to thoroughly mix the contents.
- Spray the Protective Coating #KY140-9Z400 through each Adapter Tube for about two seconds (see Figure 25).
 - You will need to attach the Adapter Tube onto the Protective Coating spray can nozzle.
 - You do not have to wait for the Protective Coating to dry. Proceed to the next step.
- Remove and discard the Sealing Adapter.

NOTE:

- When you remove the Sealing Adapter, one or both of the connector inserts may come out of the Adapter.
- Make sure you remove the insert(s) from the Fuel Sending Unit connector(s).
- Re-connect the Fuel Sending Unit Harness Connectors, making sure they are securely locked into position.

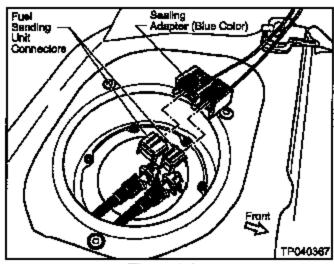


Figure 24

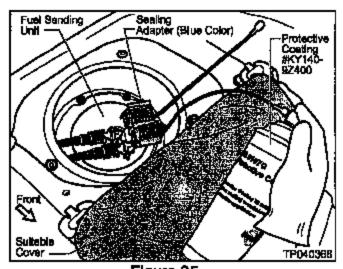


Figure 25

- Re-assemble all previously removed components in the reverse order you removed them.
 - Tighten the Fuel Sending Unit Inspection Cover Bolts snug, being careful not to strip out the plastic inserts.
 - Tighten the Body Cover Plate Bolts to 3.7 5.0 N-m (0.38 0.51 kg-m, 33.0 44.3 in-lb).
- 7. Start the vehicle and confirm proper engine running and fuel gauge operation.

Xterra: Replace Fuel Sending Unit

WARNING:

- Before performing any of the Service Procedures below, be certain there are no ignition sources (i.e., open flames, sparks, etc.) in or around the vehicle/work
- Make sure the appropriate rated fire extinguisher is available for immediate use.
- Use suitable protective gloves, safety glasses, or face shield.
- Release the fuel pressure from the fuel system using CONSULT-II (or other suitable) method). Follow the procedure in the "EC" section of the Service Manual.
- If the fuel tank is more than ¾ full, use a suitable device to remove fuel from the fuel. tank until the fuel level is % full or less.
- Remove the Fuel Sending Unit.
 - Refer to the "FE" section of the Service Manual for the Fuel Sending Unit removal procedure.
 - Cut and discard the old Fuel Sending Unit O-ring. You'll be installing a new O-ring.

NOTE: After releasing fuel pressure: To disconnect the fuel return hose from the Fuel Sending Unit, do the following:

- Push UP on the fuel return hose connector 1 to 2 mm (around 1/16-inch). See Figure 26A.
- With the hose connector pushed UP, hold the two plastic tabs. See Figure 26B.
- While holding the plastic tabs, pry DOWN on the hose connector with hose removal. pliers (such as #47900, Lisle Corporation or equivalent). See Figure 26C.

NOTE: The hose removal pilers (noted above) are available from TECH-MATE at 1-800-662-2001 (option #4).

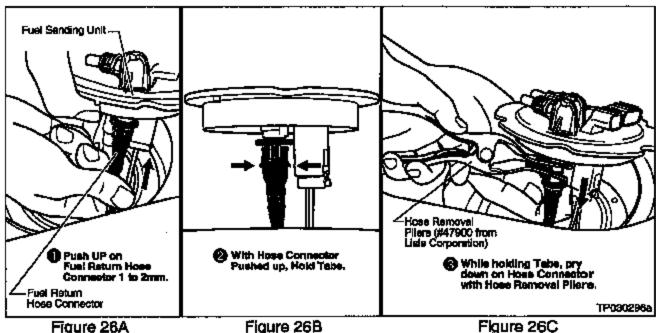


Figure 26B Figure 26C

- Install the new Fuel Sending Unit O-ring in the groove on the fuel tank.
- Use the <u>new</u> mounting screws to re-install the Fuel Sending Unit on the fuel tank. Refer to the "FE" section of the applicable Service Manual.
 - Tighten the Fuel Sending Unit mounting screws to 2.0 2.5 N-m (0.20 0.26 kg-m, 17.4 22.6 in-lb).

IMPORTANT: Make sure the Fuel Sending Unit Wire Harness Connectors are securely locked into position.

- Re-assemble all previously removed components in the reverse order you removed them.
 - Tighten the Fuel Sending Unit Inspection Cover Bolts snug, being careful not to strip out the plastic inserts.
 - Tighten the Body Cover Plate Bolts to 3.7 -- 5.0 N-m (0.38 -- 0.51 kg-m, 33.0 -- 44.3 in-lb).
- 7. Start the vehicle and confirm proper engine running and fuel gauge operation.

PARTS INFORMATION

R0401

DESCRIPTION	PART NUMBER	QUANTITY
Fuel Sending Unit Kit (*) (For D22 vehicles built up to 9/1/99)	25060-45425	1
OR		
Fuel Sending Unit Kit (*) (D22 & WD22 vehicles built after 9/1/99)	25080-4\$426	1

R0402

DESCRIPTION	PART NUMBER	QUANTITY
Fuel Sending Unit Kit (*) (For D22 vehicles built up to 9/1/99)	25060-4S425	1
C)R	
Fuel Sending Unit Kit (*) (D22 & WD22 vehicles built after 9/1/99)	25060-4S426	1
C)R	
Cleaning/Sealing Kit	B5060-79900	1 (per vehicle)
Protective Coating (**)	KY140-9Z400	As Needed
Genuine Nissan Brake Cleaner (***)	999MP-AH001P	As Needed

^(*) Kit contains: one Fuel Sending Unit, six Screws, two yellow-green Quick Connectors, one orange Quick Connector, and one O-ring.

[***]

- Order from your local Parts Distribution Center (PDC).
- One can of Protective Coating is good for about 40 vehicles.

(***)

Order through the Chemical Care Direct Ship Product Program which can be reached by:

Phone; 1 (800) 811-0502 Fax; 1 (770) 218-0148

Internet; www.nissanchemicals.com

One can of Brake Cteaner is good for about 20 vehicles

NOTE: P/Ns KY140-9Z400 and 999MP-AH001P are considered shop supplies – do <u>NOT</u> include them on your warranty claim.

CLAIMS INFORMATION

Submit a Campaign "CM" line claim using the following claims coding information:

Campaign I.D.: R0401 (Sait States)

DESCRIPTION	OP CODE	FRT
RPL 022 Fuel Level Sender Unit	R04010	1.3 hrs
RPL WD22 Fuel Level Sender Unit	R04011	0.7 hrs

Campaign I.D.: R0402 (Non-Salt States)

DESCRIPTION	OP CODE	FRT
Inspect & Regeal D22 Fuel Level	R04020	0.5 hrs
Sender Unit	<u> </u>	
Inspect & Reseal WD22 Fuel Level	R04021	0.4 hrs
Sender Unit		

<u>OR</u>

DESCRIPTION	OP CODE	FAT
Inspect & Replace D22 Fuel Level	R04022	1.4 hrs
Sender Unit		
Inspect & Replace WD22 Fuel Level	R04023	0.8 hrs
Sender Unit	.	L

NOTE: P/Ns KY140-9Z400 and 999MP-AH001P are considered shop supplies — do \underline{NOT} include them on your warranty claim.

ThreeBond

Material Safety Data Sheet

	The same with the second		
Common Name	TB 6107G	Code	37B-20-0483
Supplier	Three Bond International, Inc.	MSDS#	011B-12-03
заррага	6184 Schumacher Park Drive West Chaster, OH 45069	Validation Date	4/14/2004
Synonym	Not evalishe.	Print Date	4/14/2004
Trade same	TB 6107G	Respectable Name	Company
Material Upos	Aerosol Costing.		day-Friday, 830-500pm,
Manufacturer	ThreeBond Co., Ltd. 1456 Hazama-cho Hachloji-ehl, Tokyo 183-8533, Japan		779-7300 EST. MTREC - 1-800-424-9300 - purs.

Name	CAS #	% by Weight	Exposure Limbs
1) Non-hazerdous material		23-43	Not applicable.
2) Dimethyl ether (propellant)	115-10-6	30-40	TWA: 1000 (ppm) from DFG MAKs
3) Ethyl acetete	141-78-6	10-20	TWA: 400 (ppm) from OSHA (PEL) [United States] NIOSH IDLH: 2000 ppm LEL
4) Toluana	108-85-3	15-25	TWA: 200 (ppm), Ceiling: 300 ppm, 500 ppm (10-minute maximum peak) from OSHA TWA: 100 (ppm) from NIOSH, STEL 160 ppm, NIOSH (DLH: 500 ppm
B. Carlo on Blands	1333-86-4	1.5-2.5	TWA: 50 (spm) from ACGIH (TLV) (eidn) (United Stales) TWA: 3.6 (mg/m²) from ACGIH (TLV) (United States
5) Carbon Bleck	1335-50-4	1.AFEAS	TWA: 3.5 (mg/m 7) from OSHA (PEL) [United States]
6) 2-Butoxyethenol	111-78-2	1-2.6	TWA: 50 (apm) from OSHA (PEL)(skin) [Linited States]
			TWA: 5 (ppm) from NIOSH (skin), IDLH: 700 ppm
			TWA: 20 (ppm) from ACGIH (TLV) (ekin), STEL:
			121(mg/m²) [United States]

Physical State and Appearance	Aurosol
Emergency Overview	WARNING
	Fiammable serosol. Keep away from sources of heat, sparks, or fiames. May be harmful if inhaled or awallowed. "Keep eway from food." Causes eye initiation. May cause respiratory treat and skin initiation. Possible birth defect hazard. Contains material which causes damage to the following organis: blood, kidneys, liver, bladder, brain, skin, syee, central nervous system.
	Avoid contact with eyes, skin end clothing. Do not ingest. Avoid breathing vapor or mist. Kee container closed. Use only with adequate ventilation. Avoid exposure during pregnancy. Was thoroughly after handling.
Routes of Entry	Absorbed through ekin. Dermal contact. Eye contect. Inhatation. Impaction.
Potendal Armio Health	Effects
	Eyes Eye imitant. Inflemmetion characterized by pain, redness, and/or blurred vision.
	MAY BE ABSORBED (see inhalation). Sidn infrant. Skin inflammation is characterized by dry skin and redness. Propellant (methy either) as a liquid, may cause frost bite on contact with skin.

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Tuholetta	a Exposure above OEL may cause deeth, see (DLH in Section 2. Respiratory initiant. May cause effects to central nervous system. Symptoms include cough, sore throat, confusion, drowsiness, disalness, handsohe, resuses, weakness, and unconsciousness.
Jogarila	w Many be fatal if swillowed.
Potential Chronic Resith Effects	Repeated or prolonged contact with skin may cause dermatitis or may defet the skin. Long term or repeated exposure may have effect on central nervous system, resulting in decreased learning ebility and psychological disorders. Contains Carbon Black which is Classified 2B (Possible for human.) by IARC, but Classified A4 (Not classified for human or animal.) by ACGIH and not elseeffed by OSHA. Contains Toluene which is a suspected tensionen for humans.
Medical Conditions Aggravated by Overexpenses	Repeated exposure to a highly toxic meterial may produce general deterioration of health by an escoumulation in one or many human organe.
Overexposere Æigne/Sycapteens See Tuxicalagical Informatio	Not available. n (nection 11)

Eyo Contact	In case of contact, immediately flush eyes with planty of water for at least 15 minutes. If easily possible, remove contact lenses. Get madical attention immediately.
Skin Contact	Remove contaminated clothes. Rings akin with plenty of water or shower. Then weah skin with water and soep. Refer to medical attention.
Inhabation	If inhaled, remove to fresh air. If not breathing, give entificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingertion	Rinse mouth. In case of ingestion of large amounts give sturry of activated charcost in water to drink. Do NOT induce vomiting. Immediatly refer to medical attention.
Notes to Physician	Not available.

Section Living State	no Management	
Flavorability of the Product	Flammable.	
Ante-Ignition Temperature	The lowest known value is 236 C (450.4 F) (2-Butokyethanol).	
Finsh Points	<0 C (propellant)	
Flammable Limits	The greatest known range is LOWER: 1.1% UPPER: 12.7% (2-Bulb/xyethanol)	
Products of Combusties.	These products are carbon coldes (CO, CO2).	
Fire Hazarda in Presence of Various Substances	Figures in presence of open figures and sparks.	
Explanton Hazards in Presence of Verton Substances	Closed containers may explode (due to build-up pressure) when exposed to extreme heat. Isolate from heat, electrical equipment, aparks, and flame.	
Fire Fighting Media and Jost uniform	SMALL FIRE: Shut off supply; if possible let fire burn itself out; in other cases use DRY chemical powder, carbon dioxide. LARGE FIRE: Use water spray, fog or alcohol resistant foam. Do not use water jet. Keep containers cool by apraying with water.	
Protective Clothing (Firm)	Full protective equipment including saif contained breathing apparatus should be used.	
Special Remarks on Fire Hazards	Vapors may form explosive mixtures with air. This meterial is flammable and may be ignited by heat, sparks, flames, or other sources of ignition such as static electricity, pliot if lights, and mechanical/electrical equipment. Vapors may trivial considerable distances to a source of ignition where they can ignite, flushback, or explosion. May create vapor/air explosion hazard indoors, outdoors, or sawers. Vapors ere heavier than air and can accumulate in low areas. May polymentee explosively when heated or involved in fire.	
Special Remarks on Explodon Hazards	Container explosion may occur under fire conditions.	

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Section & Accidental Polosys Messouras

Şmşili Bpill and Catk

Absorb with an inert material and put the spilled material in a sealable container. Do not wash away into sewer. Extinguish all ignition sources and ventilate area. Wear protective equipment during

Large Spill and Look

Evecuale danger area. Consult an expert. Remove all ignition sources.

- Seation Z. Hendling and Statege Keep away from heat, sparks, and open flames. Do not puncture, inclnerate, or expose to high Handling temperatures. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after nendling. Keep in fireproof, cool area that is separate from stong coddents. Storage

Section & Buyesia & Countries Section (Sponsorous

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the shooms concentrations of vapors below their respective threshold limit value. Ensure that syswaph stations and safety showers are proximal to the work-station location.

Personal Protection

Kyer Spiesh goggies.

Body Long alseves work appears) must be worn. Depending on conditions of use, solvent resistant plantic or rubber apron should be worn.

Respiratory Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Weer appropriete respirator when ventilation is inadequate.

Handa Gloves.

Feri Safety shoes. Chemical resistant shoes.

Protective Clothing (Pletagrama)









Boots. Gloves. A self-contained breathing apparatus should be used to Parannai Protection in Case of Splanti goggles. Full suit. evold inhalation of the product. Suggested pretective clothing might not be sufficient; consult a a Large Spill specialist BEFORE handling this product.

Suposure Limits Product Name

1) Non-hazendous material

Dimethyl ether
 Ethyl Acetata

4) Toluene

6) Carbon Black 2-Buloxyethenol Noi applicable.

TWA: 1000 (ppm) from DFG MAKe

TWA: 400 (ppm) from OSHA (PEL) [Linked States] NIOSH IDLH: 2000 ppm LEZ.

TWA: 200 (ppm), Celling: 300 ppm, 600 ppm (10-minute meximum peak) from OSHA TWA: 100 (ppm) from NIOSH, STEL 160 ppm, NIOSH IDLH: 800 ppm

NICER IDLY: 500 ppm TWA: 50 (ppm) from ACGIH (TLV) (sidn) [United States] TWA: 3.5 (mg/m²) from ACGIH (TLV) [United States] TWA: 5.5 (mg/m²) from CSHA (PEL) [United States] TWA: 50 (ppm) from CSHA (PEL)(sidn) [United States] TWA: 5 (ppm) from NICSH (sidn), [DLH: 700 ppm TWA: 20 (ppm) from ACGIH (TLV) (sidn), STEL: 121(mg/m²) [United States]

Coopult local authorities for acceptable exposure limits.

Continued on Next Page

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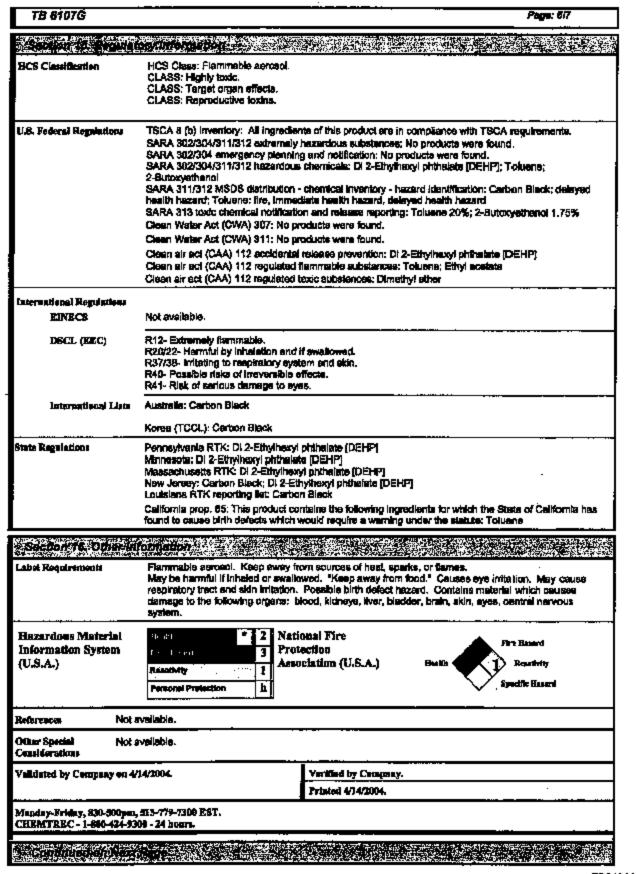
e. – . Halibelang Falor, andre militakan manasana		00:9 0 00:72-82	Notice of National Color (No. 1997) and the State of Stat		
(2) (more initially decomplished by pro-	ind Chemical Businecists				
Physical State and Appearance	Asroeol	Oder	ether-like odor		
Malerular Weight	Not applicable.	Tutt	Not evallable.		
Meletalar Formula	Not applicable.	Coler	Black		
pH (1% Sels/Water)	Not available.				
Boling/Candensation Point	Not available.				
Meldag/Freezing Point	Not evalleble.				
Critical Temperature	Not evallable.				
Specific Gravity	1.1				
Vapor Pressure	Not evalishis.	-			
Vapor Desulty	Not available.				
Volatility	Not evalleble.				
Odor Thresheld	Not evallable.				
Evaporation Rate	Not available.				
voc	Not evellable.				
Viscority	1.9				
lagk	Not evallable.				
lonicity (in Water)	Not eveilable.				
Dispersion Properties	is not dispersed in cold water, hot water.				
Salubility	Insoluble in cold water, hot water				
Physical Chemical Comment	Not evalable.				
Section 10.814/4/jey	and/bactivity				
Stability and Reactivity	The product is stable.				
Conditions of Startability	Heating may cause violent combustion or expl	ışfarı.			
Incompatibility with Various Substances	Reactive with oxidizing agents, solds. Slightly reactive to reactive with sikelis, moleture.				
Henurdom Decomposition Products	Not aveilable.				
Hanardom Polymerization	Not evellable.		· · · · · ·		
	and the state of t				
Toxicity to Animals	Glos latermation: Acute oral toxicity (LD50); 50 mg/kg [Human/3	omini. (Te)			
			•		
Chronic Effects on Humans	Repeated or prolonged contact with eldn may cause dermatitis or may defet the skin. Long term or repeated exposure may have effect on certifal nervous system, resulting in decreased learning ability and psychological disorders. Contains Carbon Black which is Classified 28 (Possible for human.) by IARC, but Classified A4 (Not classified for human or enimal.) by ACGIH and not classified by OSHA. Contains Tokuene which is a suspected terstogen for humans.				

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Other Toxic Effects on Housens	Hezardous in case of skin contact (imitent), of inhelation (lung initant). May be fetal if ingested.				
Special Remarks on Toxicity to Animak	Overexposure to Toluene has been suggested as a cause of the following in the animal laboratory: mild, reversible liver effects, cardiac sensitization, respiratory track demage (nuce, throat and sirveys), effects on hearing, central nervous system demage.				
Special Remarks on Chronic Effects on Humans	(Sh) MAX - Danger of sensitization of the skin. (Toluene)				
Special Rumarks on Othur Toxic Effects on Harmans	May cause initiation to skin, eyes and respiratorey tract.				
Ecatoxicity	Not available.				
BODS and COD	Not available.				
Blodegradabla/OECD	Not svallable.				
Mobility	Not evalable.				
Products of Degradation	Triese products are carbon exides (CO, CO2) and water.				
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.				
Special Remarks on the Products of Biodegradation	Not avallable.				
Warte Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.				
Waste Street	Not available.				
Commit your local or regions	ul sathorides.				
Section (4) Transpo	n internation				
DOT Classification	Consumer Commodity (not more than 500 ml); other, Aerosole/Flammable , Class 2.1, UN1950				
	Aerosol, Fismmeble, Class 2.1, UN1950				
Miurine Polintant	Not available.				
Special Provisions for Transport	Not Avelleble.				
	CLASS 2.1: Flammable gas. CLASS 6.1: Toxic substance.				
ADR/RID Chariffeetion					
ADR/RID Chariffeation	CLASS 2.1: Flammable gas. CLASS 6.1: Toxic substance.				

Control of the Contro

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otics to Reader			
'o the best of our knowledge, the	information contained herein is accurate haboever for the accuracy or completeness	However, neither the above named supplier nor exp of the information seventhed bonds.	of its
rosinarus annimes any mianty m Todi determination of suitability of	any material is the sole responsibility of the	oy tao injermentet commune nerven. wer. All moterials way present unknown kazards and	should
e used with contion. Although con	tela hazarde are described herein, we cana	ot gnarroutes that there are the only hazards that exist.	
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			TP040

OWNER'S LETTER

Dear Nissan owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Nissan has decided that a defect that relates to motor vehicle safety exists in some 1999-2003 model year Nissan Frontier vehicles equipped with a six cylinder engine and in some 2000-2003 model year Nissan Xterra vehicles equipped with a four or six cylinder engine.

Reason for Recall

The fuel pump terminal on the fuel-sending unit may develop a crack in its plastic molding which could cause the terminal strip to corrode under some environmental conditions. If corrosion occurs, the terminal strip could eventually break. This will cause the fuel pump to stop operating and will result in not being able to start the engine or cause the engine to stop running during vehicle operation, which could result in a crash without warning.

What Nissen Will Do

In the states shown in the table below, where there is heavy use of road salt in the winter and corrosion is likely to occur, the dealer will replace the fuel-sending unit. In the other states, the dealer will inspect the fuel pump terminal on the sending unit for corrosion. If corrosion is present, the dealer will replace the fuel-sending unit. If there is no corrosion, the dealer will apply sealant to the terminal housing to help prevent corrosion in the future. This free service should take about two hours to complete, but your Nissan dealer may require your vehicle for a longer period of time based upon the dealer's work schedule.

Connecticut	Kentucky	New Hampshire	Tennessee
Delaware	Maine	New Jersey	Vermont
District of Columbia	Maryland	New York	Virginia -
Illinois	Massachusetts	Ohio	West Virginia
Indiana	Michigan	Pennsylvania	Wisconsin
lowa	Minnesola	Rhode Island	

What You Should Do

Contact your Nissan dealer at your earliest convenience in order to arrange an appointment to have your vehicle repaired. Please bring this notice with you when you keep your service appointment. It will be necessary that your fuel tank be no more than one-quarter full when you bring your vehicle to the dealer in order to minimize the possibility of fuel spill during the repair. Instructions have been sent to your Nissan dealer. If the dealer fails, or is unable to make the necessary repairs free of charge, you may contact the National Consumer Affairs Office, Nissan North America, Inc. at P.O. Box 191, Gardena, California 90248-0191. The toil free number is 1-800-NISSAN1 (1-800-647-7261). You may also contact the Administrator of the National Highway Traffic Safety Administration, 400 Seventh Street SW, Washington, D.C. 20590 or call the toil free Safety Hotline at (888) 327-4236.

If you have paid to have a fuel-sending unit replaced prior to this campaign, you may be eligible for reimbursement of the related expense. Contact Nissan Consumer Affairs at the number listed above for additional information on how to obtain a reimbursement.

Federal regulations require that any vehicle lesser receiving this recall notice must forward a copy of this notice to the lessee within ten days.

Thank you for your cooperation. We are indeed sorry for any inconvenience this may cause you.