

## TECHNICAL SERVICE BULLETIN

Reference Number(s): NTB02-044, Date of Issue: April 10, 2002

NISSAN: 2000-2002 Frontier, Xterra

CLASSIFICATION: EM02-001

SECTION: Engine Mechanical

APPLIED VEHICLE (S): All 2000-02 Frontier (D22) - with VG33E engine; All 2000-02 Xterra (WD22) - with VG33E engine

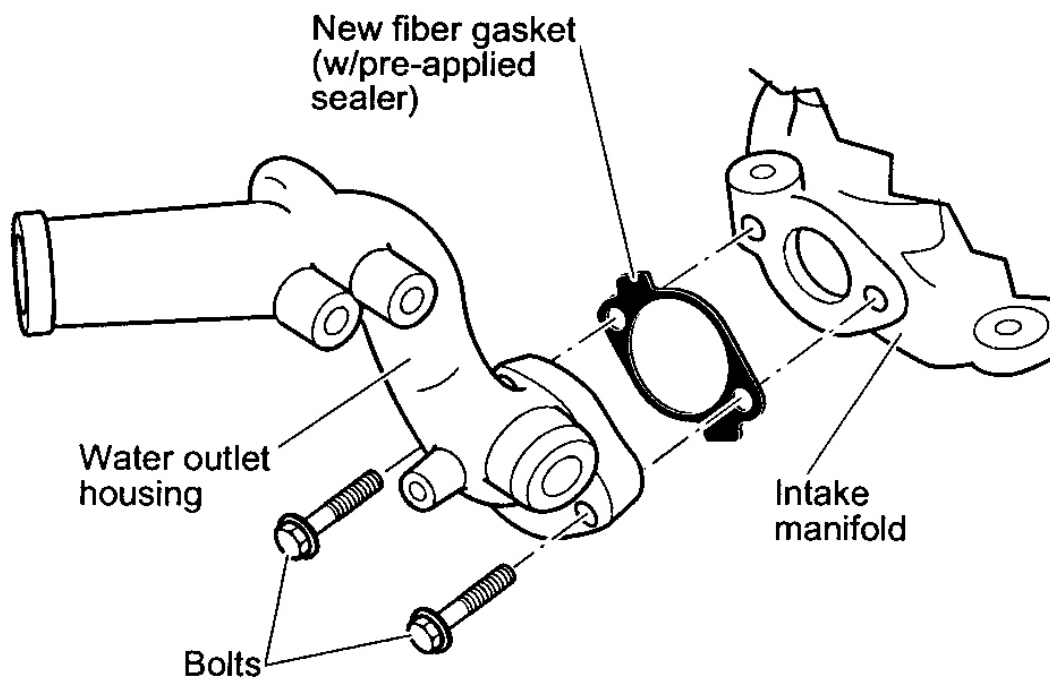
## SERVICE INFORMATION

If an applied vehicle exhibits:

- Engine coolant under the vehicle when parked
- Smell of coolant when engine is warm,

The cause may be coolant leaking between the water outlet housing and intake manifold sealing surfaces (see **Fig. 1**). Refer to the **SERVICE PROCEDURE** to resolve this incident, should it occur.

**NOTE:** A leak from the above noted area can be verified by a visual inspection.



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[Fig. 1: Intake Manifold Water Outlet](#)

## SERVICE PROCEDURE

Install the new fiber gasket (refer to the [PARTS INFORMATION](#) section) between the water outlet housing and intake manifold as follows:

**CAUTION: Be careful not to spill engine coolant on electrical connectors, drive belts, etc. when performing the following procedure.**

1. Verify the coolant leak is coming from the water outlet housing/intake manifold sealing surfaces.
2. Use the valve on the lower radiator tank to drain coolant, into a clean bucket (or other clean, suitable container), to just below the level of the water outlet housing.

**NOTE: Draining the coolant below the level of the water outlet housing will minimize coolant spillage when removing the housing.**

3. Remove parts necessary to access the water outlet housing.
4. Remove the water outlet housing from the intake manifold.
5. Thoroughly clean the sealing surfaces of the water outlet housing and intake manifold, making sure all old sealer is completely removed.
6. Install the new fiber gasket onto the water outlet housing as follows:
  - A. First, install the two mounting bolts through the holes in the water outlet housing.
  - B. Then, slide the fiber gasket over the bolts until it is flush against the sealing surface of the housing. The bolts will keep the gasket in place while installing the housing.
7. Install the water outlet housing to the intake manifold and tighten the bolts to 16.3-20.3 N.m (1.7-2.1 Kg-m, 12-15 ft-lbs).
8. Re-install all components that were previously removed.
9. Re-fill the radiator:
  - With the coolant that was drained and captured in step 2

**NOTE: If additional coolant is needed, use a 50/50 mixture of Genuine Nissan Antifreeze Coolant (or equivalent) and distilled water or demineralized water.**

- According to the Coolant Refilling Procedure outlined in the "MA" section of the applicable Service Manual, to ensure air bubbles are purged from the cooling system
10. Run the engine and confirm there is no coolant leak(s).

## PARTS INFORMATION

### PARTS INFORMATION

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**2002 Nissan Xterra SE**

COOLANT LEAK FROM INTAKE MANIFOLD WATER OUTLET

Description	Part Number	Quantity
Gasket, Water Outlet	11062-9Z000	1

**CLAIMS INFORMATION****CLAIMS INFORMATION**

Description	PFP	OP Code	SYM	DIA	FRT
RPL Water Outlet/By-Pass Hoses	11062-9Z000	CD48AA	ZQ	53	(1)

(1) Please reference the current Nissan "Warranty Flat Rate Manual" and use the indicated FRT