



Technical Service BULLETIN

October 17, 2003

Title:

INTRODUCTION OF NEW AUTOMATIC TRANSMISSION FLUID

Models:

'04 – '05 4Runner, Land Cruiser & Prius;
'05 Sequoia, Tacoma & Tundra

REVISED

TC006-03

TRANSMISSION & CLUTCH

TSB REVISION NOTICE:

- December 3, 2004: TSB content has been expanded, and 2005 model year 4Runner, Sequoia, Tacoma and Tundra have been added to Applicable Vehicles.
- December 2, 2003: Prius has been added as an applicable model.

Previous versions of this TSB should be discarded.

Introduction The new automatic transmission fluid (ATF) "WS" has been introduced on 2004 – 2005 model year 4Runner, Land Cruiser and Prius vehicles; and 2005 model year Sequoia, Tacoma V6 (1GR-FE), and Tundra vehicles.

NOTE:

ATF "WS" is NOT compatible with any other type of transmission fluid.

Applicable Vehicles

- **2004** model year **4Runner** vehicles equipped with **2UZ-FE engine** and **A750E/A750F transmission**.
- **All 2005** model year **4Runner** vehicles.
- **2004 – 2005** model year **Land Cruiser** and **Prius** vehicles.
- **2005** model year **Sequoia** and **Tundra** vehicles.
- **2005** model year **Tacoma** vehicles equipped with **1GR-FE (V6) engine**.

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
N/A	08886-02303	ATF WS (20 liter)	–
N/A	08886-02305	ATF WS (4 liter)	–

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–



**Identification
Procedure**

The following symptoms will occur if non-WS ATF is put into a WS-compatible automatic transmission:

- Non-WS ATF has a higher viscosity. Because of this, response to changes in fluid pressure decreases, lengthening shift time, causing shift flare.
- When the fluid temperature is low, (approximately -40°F [-40°C]), air can enter the oil pump causing cavitation resulting in low fluid pressure.
- Fuel consumption increases.

The following symptoms will occur if ATF WS is put into a non-WS-compatible automatic transmission:

- ATF WS has a lower viscosity than other ATFs. Because of this, response to changes in fluid pressure increases, shortening shift time, causing shift shock.
- If WS is filled into a non-WS automatic transmission, the fluid could leak out under high temperatures (approximately 284°F [140°C]).

Vehicles that use ATF WS can be identified by:

- A. ATF dipstick is no longer installed.
- B. "WS" stamped on the refill plug.

Fluid level inspection:

Check the fluid level by inspecting for leakage. If there are no leaks present at time of inspection, the fluid level is correct.

For details about the ATF WS filling procedures (except Prius), refer to the Technical Information System (TIS), applicable model and model year Repair Manual: *Automatic Transmission / Trans: Automatic Transmission Fluid (A750E/A750F)*.

For Prius, refer to TIS: applicable model year Prius Repair Manual: *Hybrid Transaxle: On-Vehicle Inspection*.