TOYOTA

Technical Service BULLETIN

December 4, 2003

Title:

VSC LIGHT ON - DTC C1203

Models:

'03 4Runner

TSB

Introduction

Some 2003 model year 4Runner vehicles may experience a VSC light ON condition and DTC C1203 in the Skid Control Computer memory. A modification to the Skid Control Computer logic has been made to prevent this condition.

Applicable Vehicles

- **2003** model year **4Runner** vehicles produced **BEFORE** the Production Change Effective VINs shown below.

Production Change Information

MODEL	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
4Runner	Tahara	JTEZU14R640018126
		JTEBU14R540021259
		JTEZT14R740014041
		JTEBT14R540028330
	Hino	JTEZU14R348009613
		JTEBU14R048011353
		JTEZT17R948002955
		JTEBT17R548008639

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
896011	R & R Computer Assembly, Skid Control	0.6	89540–35320	95	71

Applicable Warranty*:

This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

Required SSTs

SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QUANTITY
Toyota Diagnostic Tester Kit* 	01001271	1
12 Megabyte Diagnostic Tester Program Card with version 10.1a Software (or later)* 	01002593-005	1
Jumper Wire (or equivalent)	09843–18040	1

* Essential SSTs.

NOTE:

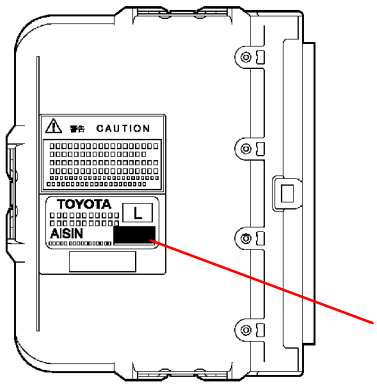
Additional Diagnostic Tester Kits, Program Cards or SSTs may be ordered by calling SPX/OTC at 1-800-933-8335.

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
89540–35320	Same*	Computer Assembly, Skid Control	1

* Part number remains unchanged. The identification method is as follows:

1. A yellow 15 mm round sticker is affixed near the part number label on the supply part box, not on the part. The yellow sticker identifying the countermeasure (C/M) part will be discontinued at the end of March, 2004.
2. After the yellow sticker is discontinued, confirm the C/M part by inspecting the lot number on the Skid Control Computer.
3. The lot number on the Skid Control Computer part number label must be **"3H18" or later.**



Location of Lot Number on Skid Control Computer

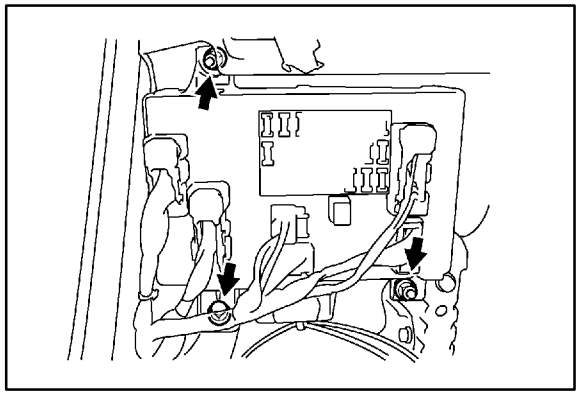
Lot Number Explanation

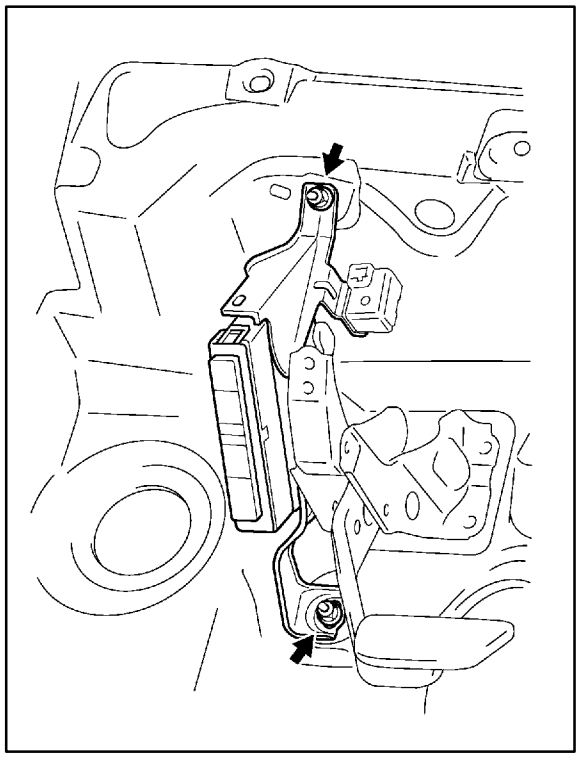
3 H 18

Year	Month	Day
2: 2002	A: January	1: 1
3:2003	B: February	2: 2
	H: August	31: 31
	L: December	

Repair Procedure

1. Remove Instrument Panel Finish Plate.
2. Remove Instrument Panel Finish Panel Sub–assembly Lower.
3. Remove Instrument Panel Lower LH.
4. Remove Instrument Panel Junction Block Assembly.
   A. Remove the bolt and 2 nuts, then move the instrument panel junction block assembly aside.
5. Remove Skid Control Computer Assembly.
   A. Disconnect the 4 Skid Control Computer assembly connectors.
   B. Remove the 2 nuts and the Skid Control Computer assembly.
   C. Disconnect the skid control buzzer connector and remove the skid control buzzer assembly from Skid Control Computer assembly.



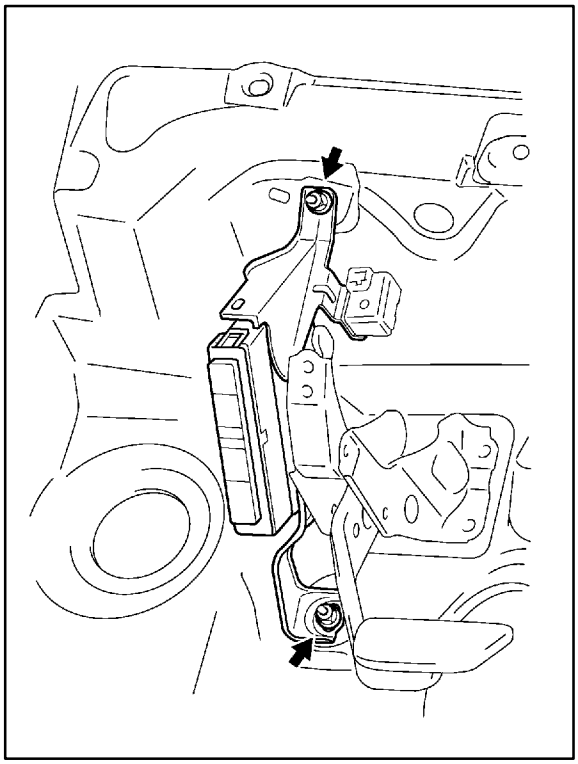


Repair Procedure (Continued)

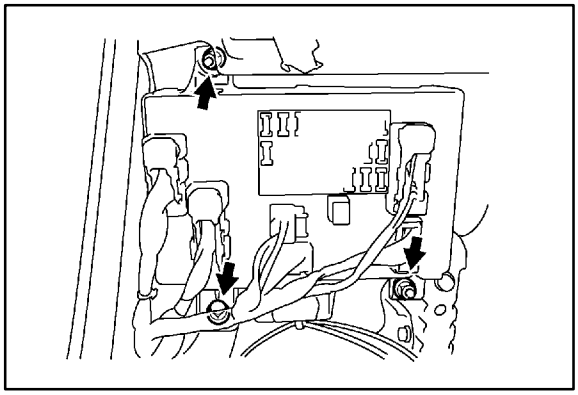
6. Install Skid Control Computer Assembly.
   A. Install the skid control buzzer on the Skid Control Computer assembly, and connect the skid control buzzer connector.
   B. Install the Skid Control Computer assembly with 2 nuts.

      Torque: 5.0 N•m (51 kgf•cm, 44 in.•lbf)

   C. Connect the 4 Skid Control Computer assembly connectors.



7. Install Instrument Panel Junction Block Assembly.
   A. Install the instrument panel junction block assembly with bolt and 2 nuts.
8. Install Instrument Panel Lower LH.
9. Install Instrument Panel Finish. Panel Sub–assembly Lower.
10. Install Instrument Panel Finish Plate.
11. Perform Zero Point Calibration of Yaw Rate and Deceleration Sensors as shown on pages 5 – 8.



Calibration Procedure With Diagnostic Tester

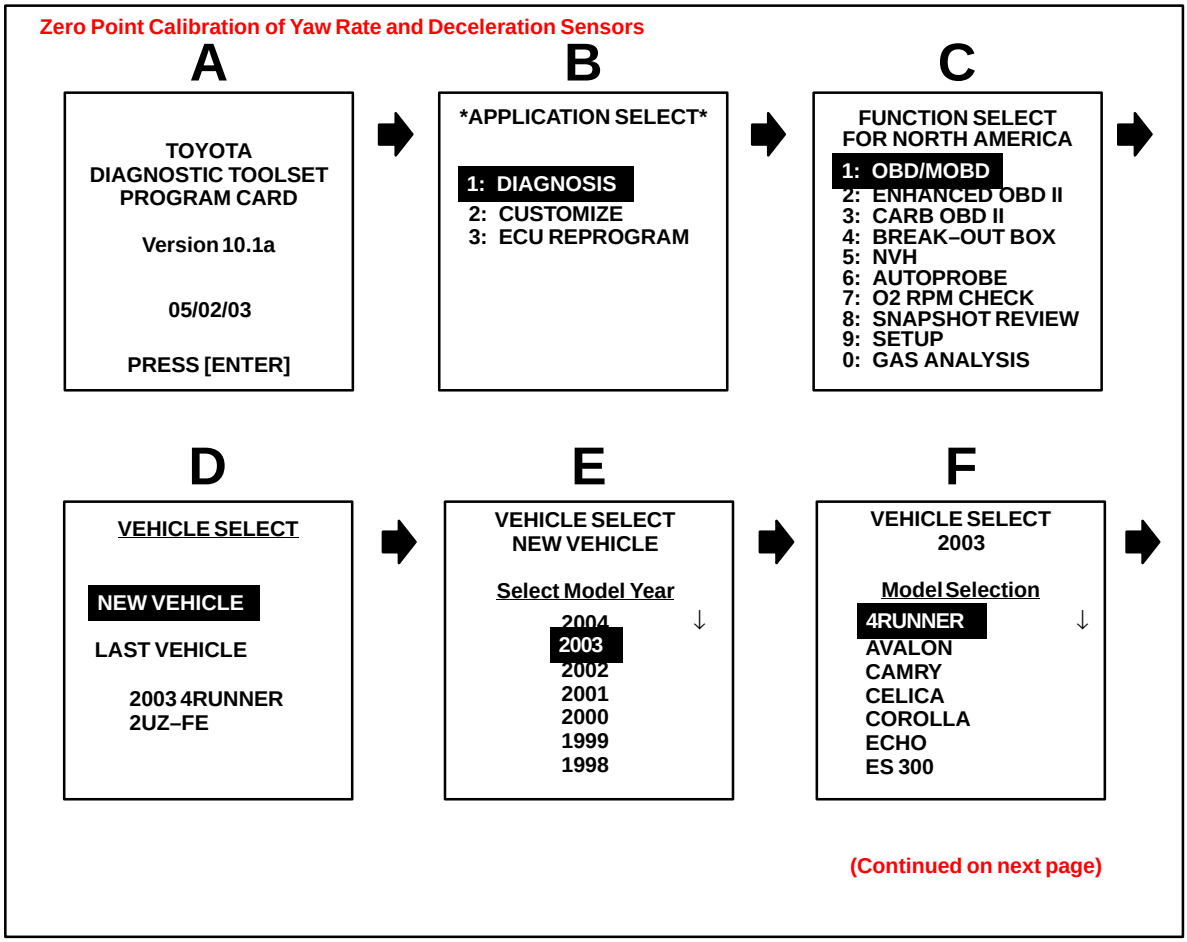
Zero Point Calibration of Yaw Rate and Deceleration Sensors Using the Diagnostic Tester.

When having replaced the yaw rate sensor, deceleration sensor or the ECU, perform the process for zero point of yaw rate and deceleration sensors as shown below.

NOTE:

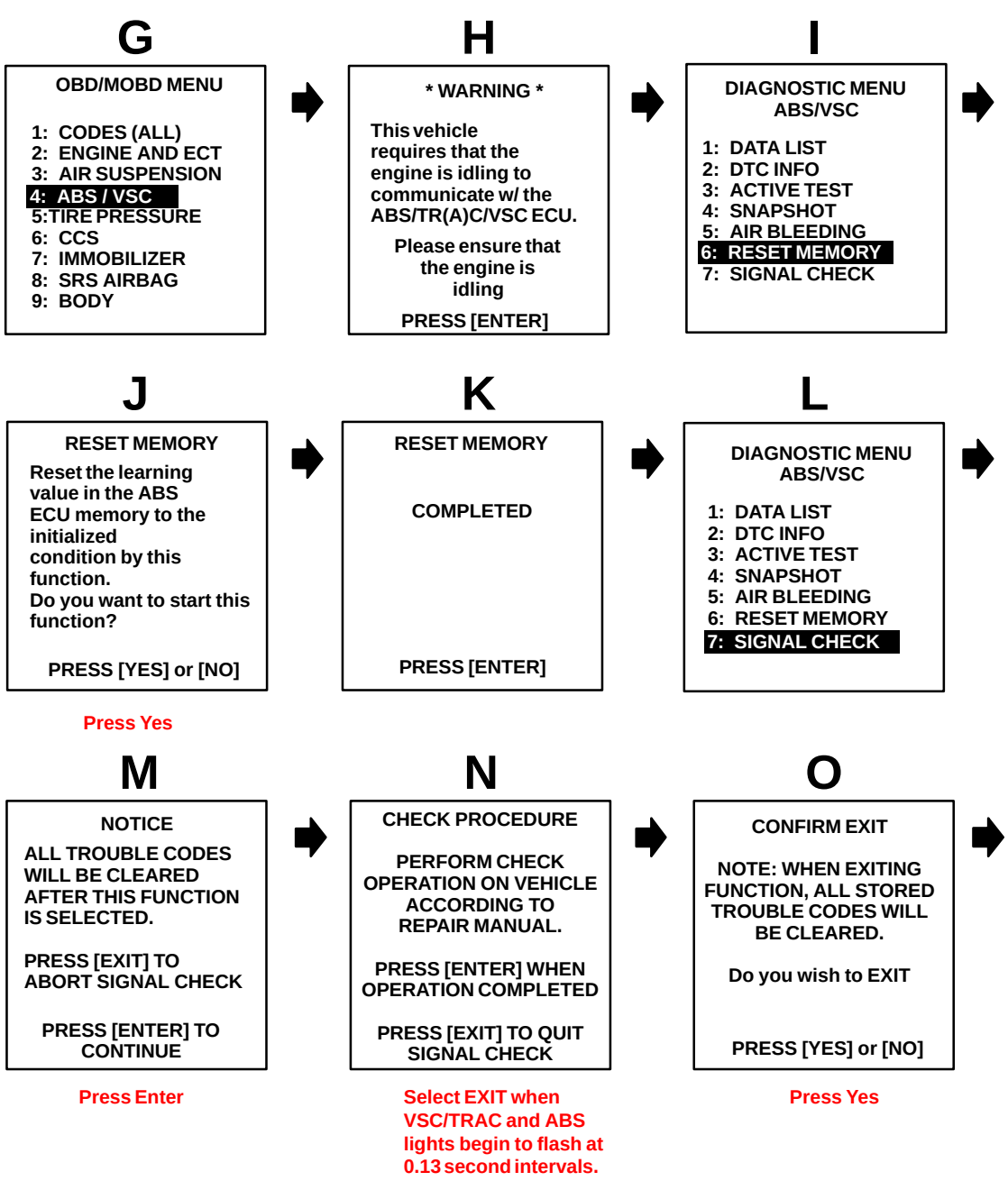
While performing the zero point procedure, do not tilt, move or shake the vehicle. The vehicle must remain in a stationary condition throughout the entire process. Do not start the engine and be sure to perform the procedure on a level surface with an inclination of less than 1%.

1. Connect Diagnostic Tester to DLC3.
2. Follow the flow below for the calibration procedure.



Calibration Procedure With Diagnostic Tester (Continued)

Zero Point Calibration of Yaw Rate and Deceleration Sensors (continued)



Calibration Procedure With SST

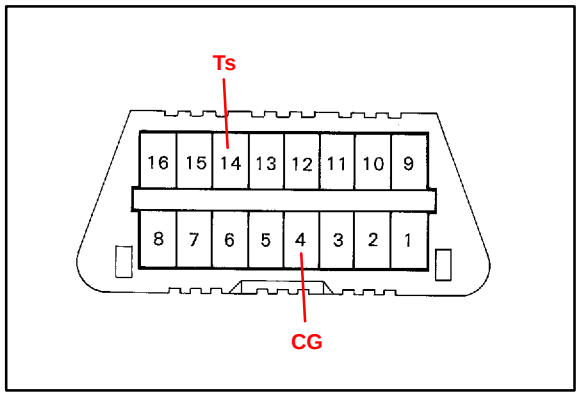
Zero Point Calibration of Yaw Rate and Deceleration Sensors Using SST 09843–18040.

When having replaced the yaw rate sensor, deceleration sensor or the ECU, perform the process for zero point of yaw rate and deceleration sensors as shown below.

NOTE:

While performing the zero point procedure, do not tilt, move or shake the vehicle. The vehicle must remain in a stationary condition throughout the entire process. Do not start the engine and be sure to perform the procedure on a level surface with an inclination of less than 1%.

1. Ensure the shift lever is in "P" range.
2. Turn the ignition switch ON.
3. Using SST 09843–18040, repeat a cycle of short and open between terminals Ts and CG of DLC3 4 times or more within 8 seconds. Verify that the VSC indicator light is lit indicating the recorded zero point is erased.
4. Turn the ignition switch OFF.
5. Be sure the terminals Ts and CG of DLC3 are disconnected.
6. Turn the ignition switch ON.
7. Check that the VSC warning light goes off about 15 seconds after the ignition switch is turned ON.
8. After ensuring that the VSC warning light remains OFF for 2 seconds, turn the ignition switch OFF.
9. Connect the terminal Ts and CG of DLC3 using SST 09843–18040.
10. Turn the ignition switch ON.
11. After turning the ignition switch ON, check that the VSC warning light is lit for about 4 seconds and then starts quick blinking at 0.13 second intervals.



Calibration Procedure With SST (Continued)

12. After ensuring the blinking of the VSC warning light for 2 seconds, turn the ignition switch OFF.
13. Remove the SST from terminals Ts and CG of DLC3.

Confirm Zero Point Calibration

Drive the vehicle to confirm there are no re–occurring lights or DTCs.