

TQCN DOC#:		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
E7QA23642	1	17294-1	Forward	QA-Powertrain	JARBOEM	ARBOEM	
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17	7 DIGITS)
TMS-LA	FTS	Sequoia	2003	11-2002	41	5TDTZ34A93S	
Condition Title:				Author:		Dealer Code:	
MIL "ON" DTC P0717 - Input Speed Senso			sor Circuit Malfur	nction	ERIC PATTISOI	V	04183

Do not type in shaded fields - Input from TQCN attributes:

Problem Area:	Base Vehicle   □	PPO/DIO		Problem Type:	Manufacturing   ☐ Design   ☐ Durability   ☐ New Model
Dealer Name: Family Toyota		Repair Date: 12/20/02	Ref#:		Optional Approval:
Tailing Toyota		12/20/02			

# **Condition Description:**

MIL on code P0717.

#### **Probable Cause:**

- Customer complaint of check engine light on at all times.
- F.T.S. inspection found MIL coming on at all times after 5-10 minutes of driving.
- Code P0717 (Input speed sensor circuit no signal) was recorded during driving.

• Speed sensor was found to be unplugged.

Failed Part # 1:	Failed Part # 2:	Failed Part # 3:	Disposition of Failed Parts:
N/A			No part available

## Remedy:

Plugged in connector, cleared codes.



View of lower left side of transmission. Arrow is pointing to connector. Sensor is beneath connector. This is prior to repair.



RAM Data is pictured above, freeze frame data is below.



TQCN DOC#:		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
E7QA23642	:1	17294-1	Forward	QA-Powertrain	JARBOEM		1/2/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17	DIGITS)
TMS-LA	FTS	Sequoia	2003	11-2002	41	5TDTZ34A93S	
Condition Title:			Author:		Dealer Code:		
MIL "ON" DTC P0717 - Input Speed Sensor			sor Circuit Malfur	nction	ERIC PATTISOI	V	04183

# **Parts Recovery Control Sheet**

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the *Final Destination* field below states "scrap", properly dispose of the part.

Final Destination: N/A

Note: If EWR contains 2 or more VIN's, create a table in the report containing VIN, production date, and mileage

	Failed Part # 1:	Part Description	Qty.	Unit Cost
	N/A		1	\$ 0 .00
1	Comments:			
	Failed Part # 2:	Part Description	Qty.	Unit Cost
2			1	\$ 00.00
_	Comments:			
	Failed Part # 3:	Part Description	Qty.	Unit Cost
3			1	\$ 0.00
"	Comments:			
	Failed Part # 4:	Part Description	Qty.	Unit Cost
4			1	\$ .00
<b>"</b>	Comments:			
	Failed Part # 5:	Part Description	Qty.	Unit Cost
5			1	\$ .00
3	Comments:			
	Failed Part # 6:	Part Description	Qty.	Unit Cost
6			1	\$ .00
°	Comments:			
7	Failed Part # 7:	Part Description	Qty.	Unit Cost



TQCN DOC#:		RTS#:	RTS Disposition:	Disposition: TMS QA Dept: Assigned PE:		Distribution Date:	
E7QA23642	:1	17294-1	Forward	QA-Powertrain	JARBOEM		1/2/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17 DIGITS)	
TMS-LA	FTS	Sequoia	2003	11-2002	41	5TDTZ34A93S	
Condition Title:			Author:		Dealer Code:		
MIL "ON" DTC P0717 - Input Speed Sensor Circuit Malfunction			nction	ERIC PATTISOI	V	04183	

			1	\$ .00
	Comments:			
	Failed Part # 8:	Part Description	Qty.	Unit Cost
8	Failed Part # 8:	Part Description	Qty. 1	\$ Unit Cost .00

Quality Assur	ance – <mark>Ea</mark>	<b>TOYOTA</b>	<b>⊘</b> LEXUS				
TQCN DOC#: RTS#: RTS Disposition: TMS QA Dept: Assigned PE:							Distribution Date:
EVQA234521A		17194-1	Forward	QA-Chassis	MOSELEYC	12/13/02	
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage: VIN: (CONFIRM 17		CHARACTERS)
TMS FPE Sequoia		Sequoia	2003	10-2002	10 5TDZT34A23S		
Condition Title: Author:							
ARS Wheel	Speed Sei		04328				

Do not type in shaded fields - Input data from Web page or RDM:

Problem Area:	Base Vehicle	PPO/DIO		Problem Type:	☐ Manufacturing   ☐ Design   ☐ Durability   ☒ New Model
Dealer Name:		Repair Date:	Ref#:	•	Optional Approval:
Joe MacPherso	on Toyota	11/30/02			-

#### **Condition Description:**

ABS Warning Light "ON", code C0215 in memory (Left Rear Wheel Sensor Signal).

#### Probable Cause:

Wire harness for left rear speed sensor crushed on top of axle housing (see photo). Condition may have occurred during manufacture or shipping.

Failed Part # 1:	Failed Part # 2:	Failed Part # 3:	Disposition of Failed Parts:	Parts Shipping Destination:
895460C010			Have part / will ship	TMMNA

#### Remedy:

Dealer replaced sensor assembly.



Wire harness damaged about 3 inches from sensor.

Source:

FPE

ABS Wheel Speed Sensor

RTS#:

17194-1

Sequoia

Primary Model:

TQCN DOC#:

Location:

TMS

EVQA234521A

**Condition Title:** 

		<b>CONTA</b>	
TMS QA Dept:	Assigned PE:		Distribution Date:
QA-Chassis	MOSELEYC		12/13/02
Production Date:	Mileage:	VIN: (CONFIRM 17	CHARACTERS)
10-2002	10	5TDZT34A23S	
	Authori		Dealer Code

04328

Jim Leininger

# **Parts Recovery Control Sheet**

RTS Disposition:

Forward

2003

Model Year:

Ship If the	all parts to TMS – Parts Re Final Destination field belo	turn Center. Do not type in SHADED fields w states "scrap", properly dispose of the part.			
	inal Destination:				
Not	e: If EWR contains 2 o	or more VIN's, create a table in the report containing \	VIN, production date, and	mil	leage
	1		T.	_	
	Failed Part # 1:	Part Description	Qty.	Δ.	Unit Cost
1	895460C010	SENSOR, SPEED, RR LH	1	\$	26 .00
	Comments:				
	Failed Part # 2:	Part Description	Qty.		Unit Cost
			1	\$	0 .00
2	Comments:		<u> </u>		
	Failed Part # 3:	Part Description	Qty.		Unit Cost
3			1	\$	0 .00
3	Comments:				
	Failed Part # 4:	Part Description	Qty.		Unit Cost
		·		\$	.00
4	Comments:		1		
	Failed Part # 5:	Part Description	Qty.		Unit Cost
5			1	\$	.00
,	Comments:				
	Failed Part # 6:	Part Description	Qty.		Unit Cost
6			1	\$	.00
	Comments:				
	Failed Part # 7:	Part Description	Qty.		Unit Cost
7			1	\$	.00
,	Comments:				
	Failed Part # 8:	Part Description	Qty.		Unit Cost
8			1	\$	.00
	Comments:				
	1				

Quality Assur	ance – <mark>Ea</mark>	<b>TOYOTA</b>	@ ക്ഷേട				
TQCN DOC#: RTS#: RTS Disposition: TMS QA Dept: Assigned PE:				Assigned PE:		Distribution Date:	
E5WA235721		16729-1	Forward	QA-Chassis	MOSELEYC		1/6/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17	7 CHARACTERS)
TMS-SET	FTS	Sequoia	2003	08-2002	4014	5TDZT34A53S	
Condition Title: Author:					Author:		Dealer Code:
VSC Steering Angle Sensor  MIKE EDWA					MIKE EDWARD	S	09178

	Do not type in shaded fields - Input data from Web page or RDM:						
Problem Area:	Base Vehicle	PPO/DIO		Problem Type:	☐ Manufacturing   ☐ Design	Durability   Mew Model	
Dealer Name:		Repair Date:	Ref#:		Optional Approval:		
Deland Toyota		12-23-02					
<b>Condition Description:</b>							
Customer came in	with the VS	C light on.	Code C	1231 was s	stored.		
		Ü					
Probable Cause:							
Cause unknown.							
Failed Part # 1:	Failed Part # 2:	1	Failed Part # 3	.	Disposition of Failed Parts:	Parts Shipping Destination:	
N/A					No part available	N/A	
Remedy:					Tto part available	14/71	
	aina Caan T	Tool Disco	nnaatad	the better	for Eminutes		
Cleared the code u							
					nicles. In every case	, disconnecting the	
battery has correcte	ed. To date,	none of tr	nese nav	e come ba	ck a second time.		
No picture	available, c	or needed		Addition as they o	VIN's will be collector.	cted and reported	

Quality Assur	ance – Ea	<b>TOYOTA</b>	<b>മായാ</b>				
TQCN DOC#: E5WA235721		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
		16729-1	Forward	QA-Chassis	MOSELEYC		1/6/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17	CHARACTERS)
TMS-SET	-SET FTS Sequoia 2003	2003	08-2002	4014	5TDZT34A53S		
Condition Title: Author:			Author:		Dealer Code:		
VSC Steering Angle Sensor  MIK				MIKE EDWARD	S	09178	

# **Parts Recovery Control Sheet**

Ship If the	all parts to TMS – Parts Final Destination field be	Return Center. Do not type in SHADED fields elow states "scrap", properly dispose of the part.			
	inal Destination:				
Not	e: If EWR contains 2	or more VIN's, create a table in the report	containing VIN, production date, and	mileage	
	I				_
	Failed Part # 1:	Part Description	Qty.	Unit (	
1	N/A Comments:		1	<u> </u>	0 .00
	Failed Part # 2:	Part Description	Qty.	Unit (	Cost
2			1	\$	0 .00
_	Comments:				
	Failed Part # 3:	Part Description	Qty.	Unit (	Cost
3			1	\$	0 .00
3	Comments:				
	Failed Part # 4:	Part Description	Qty.	Unit (	Cost
4			1	\$	.00
	Comments:				
	Failed Part # 5:	Part Description	Qty.	Unit (	
5			1	\$	.00
	Comments:				
	Failed Part # 6:	Part Description	Qty.	Unit (	
6			1	\$	.00
	Comments:				
	Failed Part # 7:	Part Description	Qty.	Unit (	
7	-		1	\$	.00
	Comments:				
	Failed Part # 8:	Part Description	Qty.	Unit (	
8			1	\$	.00
	Comments:				
	l				

Quality Assur	ance – <mark>Ea</mark>	<b>⊕TOYOTA</b>	യ ക്ഷേട				
TQCN DOC#:	TQCN DOC#: RTS#: RTS Disposition: TMS QA Dept: Assigned PE:					Distribution Date:	
E70A201331		15570-1	Forward	QA-Chassis	MOSELEYC		1/14/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17	CHARACTERS)
TMS-NY	FTS	Sequoia	2003	10-2002	181	5TDBT44A83S	
Condition Title: Author:					Author:		Dealer Code:
VSC Yaw Rate Sensor TOM SENNEC					TOM SENNECA	1	29049

Do not type in shaded fields - Input data from Web page or RDM:

Problem Area:	Base Vehicle   □	PPO/DIO	Problem Тур	: Manufacturing   Design   Durability   Mew Model
Dealer Name:		Repair Date:	Ref#:	Optional Approval:
Caldwell Toyota		1/6/03		

#### **Condition Description:**

Customer states when vehicle is driven above 25mph the slip indicator flashes, the VSC beeper sounds and the VSC light comes on. FTS inspected DTC C1234 Yaw Rate Sensor Malfunction. Yaw rate sensor reads –7 degrees when vehicle is straight and on level ground. Could not perform zero point calibration as per repair manual or TSB BR001-02. When sensor was removed and rotated yaw rate values on scan tool change but return back to -7 degrees when sensor is level.

#### Probable Cause:

Probable Cause: Yaw Rate Sensor.

Swap yaw rate sensor from dealer stock vehicle. Scan tool value for new sensor is zero with vehicle straight and on level ground. Road test vehicle problem no longer evident. Install sensor in question into dealer stock unit. Dealer stock vehicle exhibits same condition.

Failed Part # 1:	Failed Part # 2:	Failed Part # 3:	Disposition of Failed Parts:	Parts Shipping Destination:
891800C020			Have part / will ship	TMMNA

#### Remedy:

Replace Yaw Rate Sensor.





Yaw Rate Sensor

89180-0C020 SNS ASSY. YAW RATE 25.0980-0414.4 SC-00C-220-120

243296 5md2j23k84

Quality Assurance – Early Warning Report							(C) LEXUS
TQCN DOC#:		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
E70A201331		15570-1	Forward	QA-Chassis	MOSELEYC		1/14/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17	CHARACTERS)
TMS-NY	FTS	Sequoia	2003	10-2002	181	5TDBT44A83S	
Condition Title: Author:						Dealer Code:	
VSC Yaw Rate Sensor TOM SENNEC,					l	29049	

# **Parts Recovery Control Sheet**

Ship If the	o all parts to TMS – Parts Ret e Final Destination field below	urn Center. Do not type in SHADED fields v states "scrap", properly dispose of the part.			
F	inal Destination:	MMNA			
Not	e: If EWR contains 2 or	more VIN's, create a table in the report containing	VIN, production date, and	mil	leage
	Failed Part # 1:	Part Description	Qty.	_	Unit Cost
1	891800C020	SENSOR ASSY, YAWRATE	1	\$	50 .00
	Comments:				
	Failed Part # 2:	Part Description	Qty.		Unit Cost
_			1	\$	0 .00
2	Comments:		,		
	Failed Part # 3:	Part Description	Qty.		Unit Cost
3			1	\$	0.00
3	Comments:				
	Failed Part # 4:	Part Description	Qty.		Unit Cost
				\$	.00
4	Comments:				
	Failed Part # 5:	Part Description	Qty.		Unit Cost
5			1	\$	.00
	Comments:				
	Failed Part # 6:	Part Description	Qty.		Unit Cost
6			1 ]	\$	.00
	Comments:				
	Failed Part # 7:	Part Description	Qty.		Unit Cost
7			1	\$	.00
	Comments:				
	Failed Part # 8:	Part Description	Qty.		Unit Cost
8			1	\$	.00
	Comments:				
	1				

Source:

TLS

RTS#:

12044-1

Sequoia

Primary Model:

Į.			<b>TOYOTA</b>	മായ
RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
Forward	QA-Chassis	MOSELEYC		1/29/03
Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17 CHARACTERS)	
2003	12-2002	000005	5TDZT34A93S	
		TOCAL Authori		Doolor Codes

GILBERTO LOPEZ

Do not type in shaded fields - Input data from Web page or RDM:

	<b>7</b> 1		
Problem Area: 🛛 Base Vehicle   🔲 PPO/DIO		Problem Type: Manufacturing	Design   Durability   New Model
VDC Code:	Phone Number:	Optional Approval:	Repair Date:
V4000	(713) 580-3839		12/27/02

#### **Condition Description:**

TQCN DOC#:

Location:

TMS-GST

Condition Title:

VSC/TRAC Light ON

EQPA236121

We received a Sequoia with the VSC / Trac light staying on.

Failed Part # 1:	Failed Part # 2:	Failed Part # 3:	Disposition of Failed Parts:	Parts Shipping Destination:
N/A			No part available	N/A

# Remedy:

Disconnecting the battery for 2 minutes, then hooking the battery back up and driving around.





Source:

TLS

RTS#:

12044-1

Sequoia

Primary Model:

TQCN DOC#:

Location:

TMS-GST

**Condition Title:** 

VSC/TRAC Light ON

EQPA236121

	<b>COYOTA</b>	ഗ്രക്ഷ
Assigned PE:		Distribution Date:
MOSELEYC		1/29/03
Mileage:	VIN: (CONFIRM 17	CHARACTERS)
000005	5TDZT34A93S	

Dealer Code:

# **Parts Recovery Control Sheet**

TMS QA Dept:

**QA-Chassis** 

12-2002

**Production Date:** 

TQCN Author:

GILBERTO LOPEZ

RTS Disposition:

Forward

2003

Model Year:

Failed Part # 2:	Ship If the	Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the <i>Final Destination</i> field below states "scrap", properly dispose of the part.							
Failed Part # 1:   Part Description   Qty.   Unit Cost   1									
1   N/A     1   \$   0	Note	e: If EWR contains 2 or mor	e VIN's, create a table in the report containing VIN, production date,	and	mil	eage			
1   N/A     1   \$   0									
Failed Part # 2:			Part Description		Φ.				
Failed Part # 2:	1			1	Ф	0 .00			
Tailed Part # 3:   Part Description   Qty.   Unit Cost   1   \$   \$   \$   \$   \$   \$   \$   \$   \$									
Failed Part # 3:		Failed Part # 2:	Part Description	-					
Failed Part # 3:	2	Commonts:		1	\$_	0 .00			
Tailed Part # 4:   Part Description   Qty.   Unit Cost		Comments.							
Comments:		Failed Part # 3:	Part Description						
Failed Part # 4:  Comments:  Failed Part # 5:  Comments:  Failed Part # 6:  Part Description  Qty. Unit Cost 1 \$  Comments:  Guided Part # 6:  Part Description  Qty. Unit Cost 1 \$  Comments:  Guided Part # 7:  Part Description  Qty. Unit Cost 1 \$  Unit Cost 1 \$  Comments:	3			1	\$_	0 .00			
Tailed Part # 5:   Part Description   Qty.   Unit Cost   S   Comments:		Comments:							
Comments:		Failed Part # 4:	Part Description						
Failed Part # 5:   Part Description   Qty.   Unit Cost   S	4	Comments		1	\$	.00			
Tailed Part # 6:   Part Description   Qty.   Unit Cost   S   Comments:     Failed Part # 7:   Part Description   Qty.   Unit Cost   S   Comments:     Tailed Part # 7:   Part Description   Qty.   Unit Cost   S   Cost   T   Cost		Comments.							
Failed Part # 6: Part Description Qty. Unit Cost \$  Comments:  Failed Part # 7: Part Description Qty. Unit Cost \$  Tomments:		Failed Part # 5:	Part Description						
Failed Part # 6: Part Description Qty. Unit Cost 1 \$  Comments:  Failed Part # 7: Part Description Qty. Unit Cost 1 \$	5	Comments:		1	\$	.00			
6 Comments:    Failed Part # 7:   Part Description   Qty.   Unit Cost   1   \$   \$   \$   \$   \$   \$   \$   \$   \$		Comments.							
Comments:  Failed Part # 7: Part Description Qty. Unit Cost 1 \$		Failed Part # 6:	Part Description	-					
Failed Part # 7: Part Description Qty. Unit Cost 1 \$	6	Comments		1	\$	.00			
1 \$		Comments:							
		Failed Part # 7:	Part Description	Qty.		Unit Cost			
Comments:	7			1	\$	.00			
		Comments:							
Failed Part #8: Part Description Qty. Unit Cost		Failed Part # 8:	Part Description	-					
	8	0		1	\$	.00			
Comments:		Comments:							

<b>TOYOTA</b>	<b>മാ</b> യാ
	Distribution Date:

TQCN DOC#:		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
E9IA204931		17742-1	Forward	QA-Chassis	MOSELEYC		2/18/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Kilometers:	VIN: (CONFIRM 17	7 CHARACTERS)
TCI	IDS	Sequoia	2003		6318	5TDBT44A13S	
Condition Title:					Author:		Dealer Code:
VSC/TRAC Light On DTC C1203				DANNY NG			

Do not type in shaded fields - Input data from Web page or RDM:

Problem Area:	Base Vehicle   □	PPO/DIO		Problem Type:	☐ Manufacturing   ☐ Design   ☐ Durability   ☐ New Model
Dealer Name:		Repair Date:	Ref#:		Optional Approval:
Heninger Toyota		Feb. 6/2003			

#### **Condition Description:**

- After customer driving 10 to 15 minutes, noticed Engine MIL light "ON"
- "VSC OFF" and "TRAC/VSC" light comes "on" 2 seconds after Engine MIL light
- TRAC and VSC becomes inoperative
- Outside temperature between –10°C to –15°C (14°F to 5°F)
- DTC C1203 (ECM Communication/ circuit malfunction) stored
- TCI investigating together with TMC-CRO

#### Probable Cause:

<ul> <li>Unknown</li> </ul>				
Failed Part # 1:	Failed Part # 2:	Failed Part # 3:	Disposition of Failed Parts:	Parts Shipping Destination:
891800C020	8924534010	895410C060	Have part / will ship	TMMNA

#### Remedy:

• Unknown (Replaced VSC ECU, Steering Angle Sensor, Yaw Rate Sensor and condition returned)

#### VIN-5TDBT44A13S

# **Dealer Tech. Comments:**

- Battery wasn't disconnected before condition occurred
- VSC ECU was not disconnected before condition occurred
- No repairs/accidents to steering system before condition occurred
- Codes not cleared and parts sent to TCI

#### 

# Additional Vehicles (VIN-5TDBT48A23S

# **Dealer Tech. Comments:**

- Battery wasn't disconnected before condition
- Condition occurred at -20°C (-4°F)
- VSC ECU was not disconnected before condition
- No repairs/accidents to steering system before condition occurred
- Codes not cleared and parts sent to TCI
- Vehicle is OK after VSC ECU, SAS, Yaw sensor replaced

# TDT SNAPSHOT: VIN-5TDBT48A23S TEOURISE CODE CODE STOP LIGHT SW OFF VSC/TRC OFF SW OFF SYSTEM NO SYS # IG ON 20 VEHICLE SPD 48km/h STEERING ANG 0deg YAW RATE 0deg/s MAS CYL PRESS 0.49U PEDAL STROKE 1.92U MAS PRESS GRADOMPa/s STROKE GRADE 0mm/s

#### **Additional Vehicles**

VIN	Repair	Odom (km)	Area
5TDBT48A83S	1/20/2003	10	Kenora, Ont.
5TDBT48A33S	1/17/2003	8626	Granby, Que
5TDBT48AX2S	9/9/2002	3866	Toronto, Ont

Quality Assurance – Early Warning Report						<b>Фтоуота</b>	
TQCN DOC#:		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
E9IA204931		17742-1	Forward	QA-Chassis	MOSELEYC		2/18/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Kilometers:	VIN: (CONFIRM 17	CHARACTERS)
TCI	IDS	Sequoia	2003		6318	5TDBT44A13S	
Condition Title:					Author:		Dealer Code:
VSC/TRAC	VSC/TRAC Light On DTC C1203						

# **Parts Recovery Control Sheet**

		Center. Do not type in SHADED fields es "scrap", properly dispose of the part.			
	inal Destination: TMM				
Not	e: If EWR contains 2 or mo	re VIN's, create a table in the report containing VIN, production date,	and	mil	eage
	Failed Part # 1:	Part Description	Qty.	_	Unit Cost
1	891800C020	SENSOR ASSY, YAWRATE	1	\$	50 .00
	Comments:				
	Failed Part # 2:	Part Description	Qty.		Unit Cost
2	8924534010	SENSOR, STEERING	1	\$	48 .00
_	Comments:				
	Failed Part # 3:	Part Description	Qty.		Unit Cost
3	895410C060	COMPUTER, SKID CONTROL	1	\$	266 .00
*	Comments:				
	Failed Part # 4:	Part Description	Qty.		Unit Cost
		·	1	\$	.00
4	Comments:				
	Failed Part # 5:	Part Description	Qty.		Unit Cost
5			1	\$	.00
	Comments:				
	Failed Part # 6:	Part Description	Qty.		Unit Cost
6			1	\$	.00
	Comments:				
	Failed Part # 7:	Part Description	Qty.		Unit Cost
l _		·	1	\$	.00
7	Comments:	•			
	Failed Part # 8:	Part Description	Qty.		Unit Cost
8			1	\$	.00
	Comments:				



М	A.	n
N	Δ	μ
ıv		

DISTRIBUTOR'S NAME	COUNTRY	RTS#	APPROVAL DATE	REFERENCE	TQCN REPORT#	
TMS/USA	USA/LA	17742-1	2/24/03		FCKA205231	Page 1 of 5
VIN	ENGINE#	MILES	PRODUCTION DATE	PURCHASE DATE	REPAIR DATE	<u> </u>
5TDZT34A03S162294						

MODEL: Sequoia

SUBJECT: DTC C1203 Communication Circuit Malfunction

#### **INTRODUCTION:**

The purpose of this report is to provide market information on a new issue with 2003 MY Sequoias. Customers experience the VSC/TRAC light "on" while driving. After the key is cycled, the light does not remain on.

#### **CONDITION:**

Technicians recover Diagnostic Trouble Code C1203 – ECM communication circuit malfunction, indicating that "data cannot be transmitted and/or received to/from the ECM for a fixed time".

- These vehicles do not have any other codes (engine or chassis related).
- The brake fluid level is within the correct range.

#### CAUSE:

The exact root cause is unknown. The condition initially appeared to be present only in areas experiencing temperatures below 20° F. But recently, TMS has received an increasing number of claims from areas of all temperature ranges throughout the United States.

The possible trouble areas outlined in the repair manual all check to be within specification:

- Brake fluid level
- Brake fluid level warning switch circuit
- Circuits for TRC+ or TRC-, ENG+ or ENG-, SS1 or SS2.
- ECM or Translate ECU

#### **REMEDY:**

The current repair method is: confirm that no other DTC are present, confirm that all connectors are securely fastened, and check all relevant circuits according to the repair manual procedures. Then clear the code and return the vehicle to the customer.

According to warranty data, some repairs include replacement of the translate ECU or the Skid Control ECU.

#### **REQUESTS:**

TMS requests

- a suggested field fix method as soon as possible
- a production countermeasure and VIN break

WRITER	SUPERVISOR/DEPT. MANAGER	JAPAN STAFF
CRAIG MOSELEY	Mark Rhymer	MOTOYUKI YANAI

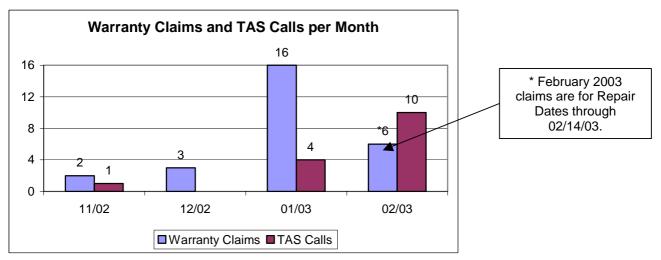
03MYセコイヤのVSC/TRACランプ点灯不具合(ダイアダC1203)につきまして、現在の市場状況をお知らせします。当初寒い地域での発生と思われていましたが、地域性は特に無〈アメリカ全土で発生しております。明確な修理情報も得られておらず、27件中20件はダイアグを消去してお客様に返却しております。(7件はECUを交換) 至急<math>F/Fix方法を提供していただ〈と共に号口対策を実施いただき情報を提供〈ださるようお願いいたします。

2/24/03 TMS PQ&SS K.Okada

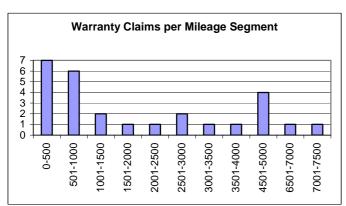
DISTRIBUTOR'S NAME	COUNTRY	RTS NO.	APPROVAL DATE	TQCN#	Page
TMS/USA	USA/LA	17742-1		FCKA205231	2 of 5

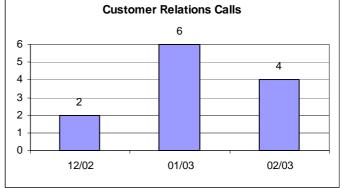
#### **MARKET SUMMARY:**

TMS has received an increasing number of warranty claims and TAS calls for this issue during January and February 2003.

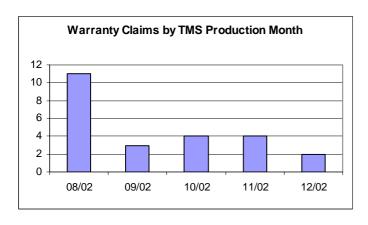


According to warranty data, of the 27 claims for this issue, 7 of them resulted in the replacement of an ECU (6 translate ECUs and 1 Skid Control Computer)





 It appears that this condition is not restricted to any specific mileage segment, but is more likely to occur within the first 1000 miles of use.



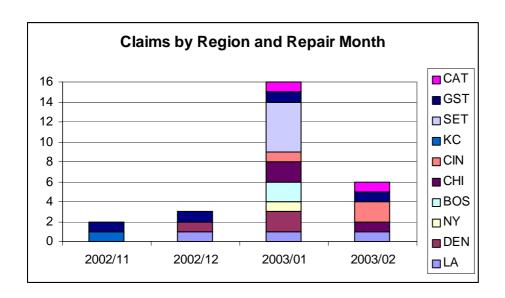
 TMS has received 12 calls to the Customer Relations Department because the customer has had their 03 Sequoia serviced for VSC/TRAC light "on" and the repair involved adding brake fluid or checking electrical circuits on the vehicle.

DISTRIBUTOR'S NAME	COUNTRY	RTS NO.	APPROVAL DATE	TQCN#	Page
TMS/USA	USA/LA	17742-1		FCKA205231	3 of 5

• Combined warranty claims and TAS calls per state.



	Total
State	Total Vehicles
	6
FL	2
CA FL GA MN	6 2 2 2 2 2 2 2 2 2 2 2 1 1
MN	2
МО	2
MS	2
NC	2
NH	2
NJ	2
PA	2
SC	2
WI	2
AZ	1
CO	1
KY	1
LA	1
MA	1
ОН	1 1 1
TN	1
TX	1
NC NH NJ PA SC WI AZ CO KY LA MA OH TN TX UT	1
MI	1
RI	1



 While cold weather may be a contributing factor to this issue, the warranty data indicates that this condition is occurring in all areas of the country at an increasing rate.

Quality Assurance – Early Warning Report						<b>TOYOTA</b>	<b>്ര</b> ക്ഷോ
TQCN DOC#:		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
EVOA20623	31	17852-1	Forward	QA-Chassis	MOSELEYC		3/3/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17	CHARACTERS)
TMS	FPE	Sequoia	2003		881	5TDZT38A33S	
Condition Title:					Author:		Dealer Code:
VSC Communication Malfunction					KEVIN PII OTTI	=	

Do not type in shaded fields - Input data from Web page or RDM:

Problem Area:	☐ Base Vehicle   ☐ PPO/DIO	Problem Type:	Manufacturing   □ Design   □ Durability   □ New Model
Dealer Name:	Repair Date:	Ref#:	Optional Approval:
Rice Toyota	3/3/03		

#### **Condition Description:**

Customer complains of VSC/Skid control light on. DTC C1203. Occurs intermittently. Circuit passed all tests per RM procedures. Tech replaced Cowl Wire Harness, Engine Room Main Harness, and Engine ECU. Has also exchanged Translate ECU and ABS ECU with known good unit.

#### **Probable Cause:**

Cause is unknown at this time. All repair attempts resulted in DTC resetting in 24 to 48 hours. Condition has occurred when vehicle was cold, as well as hot.

Failed Part # 1:	Failed Part # 2:	Failed Part # 3:	Disposition of Failed Parts:	Parts Shipping Destination:
N/A			No part available	N/A

#### Remedy:

Dealer has ordered Engine Wire Harness (p/n/ 82121-34351). Tech will replace this third harness and advise if condition is corrected.

seqoia 1203.evn	Copy of Freeze Frame data on Tech View file

Quality Assurance – Early Warning Report						<b>TOYOTA</b>	<b>്ര</b> ക്ഷോ
TQCN DOC#:		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
EVOA20623	31	17852-1	Forward	QA-Chassis	MOSELEYC		3/3/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17	CHARACTERS)
TMS	FPE	Sequoia	2003		881	5TDZT38A33S	
Condition Title:					Author:		Dealer Code:
VSC Communication Malfunction					KEVIN PII OTTI	=	

# **Parts Recovery Control Sheet**

Ship If the	all parts to TMS – Parts Return C Final Destination field below state	enter. Do not type in SHADED fields es "scrap", properly dispose of the part.			
F	inal Destination: N/A				
Not	e: If EWR contains 2 or mo	re VIN's, create a table in the report containing VIN, production date,	and	mil	leage
	Failed Part # 1:	Part Description	Qty.		Unit Cost
1	N/A		1	\$	0 .00
	Comments:				
	Failed Part # 2:	Part Description	Qty.		Unit Cost
			1	\$	0 .00
2	Comments:				
	Failed Part # 3:	Part Description	Qty.		Unit Cost
			1	\$	0 .00
3	Comments:				
	Failed Part # 4:	Part Description	Qty.		Unit Cost
4			1	\$	.00
4	Comments:				
	Failed Part # 5:	Part Description	Qty.		Unit Cost
5			1	\$	.00
Ĵ	Comments:				
	Failed Part # 6:	Part Description	Qty.		Unit Cost
6			1	\$	.00
·	Comments:				
	Failed Part # 7:	Part Description	Qty.		Unit Cost
7			1	\$	.00
,	Comments:				
	Failed Part # 8:	Part Description	Qty.		Unit Cost
8			1	\$	.00
0	Comments:				



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-9IA211431		TCI	QA-Chassis	IDS	TMS	18497-1	4/29/03
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 cha	racters):
Base Vehicle	Vehicle Sequoia		2003	09-2002	355 km	5TDBT48A73	S
VSC Lights ON							

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
4/16/03		

## **Condition Description**

-VSC lights came on when brake pedal depressed

#### **Diagnostic Steps:**

- -Leave vehicle to soak overnight (overnight temp. = -30°C or -22°F)
- -After cold soak, E/G start
- -Depress Brake Pedal and "VSC OFF"/"VSC/TRAC" Light came "on" (DTC C1363)
- -Drive vehicle and no function of TRAC and VSC while warning lights "on"
- -Shutdown the Engine, then restart
- -No warning light came on and VSC & TRAC operated normally
- -CRO team performed "go and see" and requested recovery of Brake Booster
- -Parts to be shipped to TMS-CQEC

#### **Probable Cause**

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
446100C040			Have part / will ship	TMMNA

#### **Repair Process**

-Replace brake booster and recover for CQEC investigation



-Depress brake pedal -"VSC OFF"/"VSC/TRAC" Light came on

Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-9IA211431		TCI	QA-Chassis	IDS	TMS	18497-1	4/29/03
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Sequoia	a	2003	09-2002	355 km	5TDBT48A73S	
VSC Lights ON							

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the **Final Destination** field below is "**scrap**", properly dispose of the part.

	Final Destination:	TMMNA		SETR#:		CQE E	ng:	N/A				
lm	porter: (Applies to TMC Sh	ipments Only)	Delive	r to:			住月	τ̄:				
Ov TO Nis 5-2 Jap	rth America EDER Gr., Tech erseas Customer Service Te YOTA MOTOR CORPORTA shin Education & Training C 110, SAKAE, NISSHIN, AICH pan	echnical Div. ATION enter I, 470-0113	Attn:	2015 W 190 <sup>th</sup> ; Torrance, CA CQE Center	Sales U.S.A. Inc. St. \ 90504-6203	tion date an	宛先 Tel	:			CUSTON	
140				in the report com	tailing viiv, product	lion date, ai	iu ouo		04		ed Parts	
_	Part # 1: 446100C040	Part Descr	-	SY, BRAKE					Qty.	\$	ed Part 10	7 .00
1	Comments:	2000.		01, 010 1112						Ψ	. 0	
	Part # 2:	Part Descr	iption						Qty.		ed Part	
2	Comments:								0	\$		00.0
	Part # 3:	Part Descr	iption						Qty.		ed Part	Value
3	Comments:								0	\$		0 .00
	Comments.											
	Part # 4:	Part Descr	iption						Qty.	Us \$	ed Part	
4	Comments:	<b>_</b>								Φ		.00
	Part # 5:	Part Descr	iption						Qty.		ed Part	
5	Comments:									\$		.00
	Comments.											
	Part # 6:	Part Descr	iption						Qty.		ed Part	
6										\$		.00
	Comments:											
	Part # 7:	Part Descr	iption						Qty.		ed Part	Value
7										\$		.00
•	Comments:											
	Part # 8:	Part Descr	iption						Qty.	Us	ed Part	Value
8										\$		.00
٦	Comments:											



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VOA212031	4	TMS	QA-Chassis	FPE	REG-SET	16729-1	5/1/03
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Sequoia	a	2003	09-2002	4820 mi	5TDZT34A93S	
Condition Title							
VSC Light ON - D	TC C123	1					

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
4/21/03		

# **Condition Description**

VSC Light on. DTC C1231.

#### **Diagnostic Steps:**

Tech states he was unable to read data from steering angle sensor with scan tool.

#### **Probable Cause**

Unknown. Possible defective steering angle sensor.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
8924534010			Have part / will ship	TMMNA

#### **Repair Process**

Tech replaced steering angle sensor to correct condition.



Steering angle sensor

Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VOA212031	A	TMS	QA-Chassis	FPE	REG-SET	16729-1	5/1/03
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ters):
Base Vehicle	Sequoia	а	2003	09-2002	4820 mi	5TDZT34A93S	
Condition Title							
VSC Light ON - D	TC C123	1					

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the **Final Destination** field below is "**scrap**", properly dispose of the part.

l	Final Destination: TM	MNA						
lm	porter: (Applies to TMC Shipme	nts Only)	Deliver to:	住所:				
Ove TO Nis 5-2	rth America EDER Gr., Technical erseas Customer Service Technical YOTA MOTOR CORPORTATION sshin Education & Training Center 210, SAKAE, NISSHIN, AICH, 470 pan	al Div.	Attn: Tel:	宛先: Tel:				
Not	te: If this FTR contains more than or	ne VIN, creat	e a table in the report containing VIN, production date, ar	nd odometer		FOR CUST Used Pa		
	Part # 1:	Part Descr	iption	Qty.		Used Pa	art Valu	ie
1	8924534010	SENSO	R, STEERING	1	\$		48 .0	00
•	Comments:							
	Part # 2:	Part Descr	iption	Qty.		Used Pa	art Valu	ie
_				0			0 .0	
2	Comments:	•						
	Part # 3:	Davit Dagge	india.	Qty.	1	Used Pa	aut Valu	_
_	Part # 3:	Part Descr	iption	0	\$		). O	
3	Comments:			<u> </u>	1			
	Part # 4:	Part Descr	iption	Qty.		Used Pa	art Valu	ie
4	0				\$		.(	00
	Comments:							
	Part # 5:	Part Descr	iption	Qty.		Used Pa		
5	Comments:				\$		.(	00
	Part # 6:	Part Descr	iption	Qty.		Used Pa		
6	Comments:				\$		).	00
	Comments.							
	Part # 7:	Part Descr	iption	Qty.		Used Pa	art Valu	ie
7					\$		.(	00
	Comments:							
	Part # 8:	Part Descr	iption	Qty.		Used Pa		
8	Comments:				\$		).	00
-	Comments:							
	I .							



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VZA212931		TMS	QA-Chassis	MDT/DS	TMS	12044-1	5/9/03
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Sequoia	a	2003	12-2002	5372 mi	5TDZT34A03S	
Condition Title							
TRAC Light On							

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval

# **Condition Description**

The Trac off warning light in the combination meter was on. The diagnostic codes C-1231, steering angle sensor malfunction was set along with C-1360, master pressure sensor failure.

#### **Diagnostic Steps:**

Verified normal operation of the master cylinder pressure sensor and of the steering angle sensor.

#### **Probable Cause**

Internal malfunction of the skid control ECU.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
895410C060			Have part / will ship	TMMNA

#### **Repair Process**

Replace the skid control ECU. Recalibrate the input sensors.

System now operating normal.

Tag and recover the original part.

TROUBLE CODE
VSC/TRC OFF SWOFF SYSTEMNO SYS # IG ONO VEHICLE SPD6MPH
SYSTEMNO SYS # IG ONO VEHICLE SPD6MPH
SYSTEMNO SYS # IG ONO VEHICLE SPD6MPH
# IG ONO VEHICLE SPD6MPH
VEHICLE SPD6MPH
STEERING ANG9dea
YAW RATE
MAS CYL PRESS0.45V
PEDAL STROKE1.82V
MAS PRESS GRADESMPa/s
STROKE GRADEOmm/s
G (RIGHT&LEFT)0.00G
G (BACK&FORTH)D.D4G
SPD GRADE0.00G

Freeze frame data from VSC master pressure sensor failure.



TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date		
FTR-VZA212931		TMS	QA-Chassis	MDT/DS	TMS	12044-1	5/9/03		
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle	icle Sequoia		2003	12-2002	5372 mi	5TDZT34A03S			
Condition Title	Condition Title								
TRAC Light On	TRAC Light On								



Label from original skid control ECU.

Attachment 1: PRCS



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date			
FTR-VZA212931 TM		TMS	QA-Chassis	MDT/DS	TMS	12044-1	5/9/03		
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):				
Base Vehicle	Base Vehicle Sequoia		2003	12-2002	5372 mi	5TDZT34A03S			
Condition Title	Condition Title								
TRAC Light On									

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the **Final Destination** field below is "**scrap**", properly dispose of the part.

Impo	orter: (Applies to TMC Shipmen	ts Only)	D. "					
		,	Deliver to:	住所:				
Overs TOYO Nissh	n America EDER Gr., Technical Deseas Customer Service Technical OTA MOTOR CORPORTATION nin Education & Training Center D, SAKAE, NISSHIN, AICH, 470-0	l Div.	Attn: Tel:	宛先: Tel:				
Note:	If this FTR contains more than one	VIN, create	e a table in the report containing VIN, production date, an	d odometer		R CUST sed Par		
1 8	art # 1: 895410C060 comments:	Part Descr COMPU	iption ITER, SKID CONTROL	Qty.	\$	sed Pa	rt Val	
2	comments:	Part Descr	iption	Qty.	U:	sed Pa		.00
2	comments:	Part Descr	iption	Qty.	↓ \$	sed Pa		.00
<u></u>	art # 4: comments:	Part Descr	iption	Qty.	U: \$	sed Pa		lue .00
5	comments:	Part Descr	iption	Qty.	U: \$	sed Pa		lue .00
6	comments:	Part Descr	iption	Qty.	U: \$	sed Pa		lue .00
7	art # 7:	Part Descr	iption	Qty.	U: \$	sed Pa		lue .00
2	comments:	Part Descr	iption	Qty.	U: \$	sed Pa		lue .00



TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-J2A215331 TM		TMS	QA-Chassis	FTS	REG-GST	17852-1	6/4/03	
Problem Area	Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Vehicle Sequoia		2003	12/02	3500 mi	5TDZT38A33S		
Condition Title								
2003 Sequoia - D	ΓC C120	3						

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
05-19-03		

# **Condition Description**

VSC / Trac MIL on code C1203 only

# Diagnostic Steps:

Inspected brake fluid level.

Notified FTS for known concern.

# Probable Cause

Translate ECU logic

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
896300C010			Special request only	N/A

#### **Repair Process**

Installed new translate ECU.

Attachment 1: PRCS



TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date		
FTR-J2A215331		TMS	QA-Chassis	FTS	REG-GST	17852-1	6/4/03		
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):				
Base Vehicle	Sequoia		2003	12/02	3500 mi	5TDZT38A33S			
Condition Title									
2003 Sequoia - D	TC C120	3							

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the **Final Destination** field below is "**scrap**", properly dispose of the part.

	Final Destination:	N/A		SETR#:		CQE E	ng:	N/A					
lm	porter: (Applies to TMC S	hipments Only)	Delive	r to:			住所	f:					
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan Note: If this FTR contains more than one VIN, creat			Attn: Tel:	n the report con	taining VIN, product	tion date, ar	宛先 Tel				DR CUS		
	Part #1: Part De:			<u> </u>					Qty.		Jsed P		
1	896300C010			SSY, TRAN	SLATE				0	\$		86	.00
•	Comments:												
	Part # 2:	Part Descr	iption						Qty.	ı	Jsed P	art Va	alue
2			•						0	\$			.00
_	Comments:												
	Part # 3:	Part Descr	iption						Qty.		Jsed P		
3	Comments:								0	\$		0	.00
		<u> </u>							I				
_	Part # 4:	Part Descr	iption						Qty.	\$	Jsed P	art Va	.00
4	Comments:	I							<u>I</u>	ĮΨ			.00
	Part # 5:	Part Descr	iption						Qty.	ι	Jsed P	art Va	alue
5										\$			.00
3	Comments:												
	Part # 6:	Part Descr	iption						Qty.		Jsed P	art Va	
6	Comments:									\$			.00
	- · · · -	<b>I-</b> -							1 -				
_	Part # 7:	Part Descr	iption						Qty.	\$	Jsed P	art Va	alue .00
7	Comments:	l							l	Ψ			.00
	Part # 8:	Part Descr	iption						Qty.	ı	Jsed P	art Va	alue
8										\$			.00
J	Comments:												
<u> </u>													



TQCN DOC#	TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date	
FTR-J2A215631 TMS		QA-Chassis	FTS	REG-GST	19011-1	6/6/03		
Problem Area	ea Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003		2595 mi	5TDZT38A83S		
Condition Title								
Sequoia Brake Flu	uid Leak							

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
05/15/03		

# **Condition Description**

Brake, VSC and TRAC MILs ON. Brake reservoir fluid level low.

# Diagnostic Steps:

Inspect for brake fluid leaks. No visible leaks found. Removed master cylinder and found brake fluid in brake booster.

# Probable Cause

Unknown.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
472100C040			Have part / will ship	TMMNA

#### **Repair Process**

Replace brake master cylinder and brake booster.



Master cylinder



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date			
FTR-J2A215631 TMS		TMS	QA-Chassis	FTS	REG-GST	19011-1	6/6/03		
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle	Sequoia		2003		2595 mi	5TDZT38A83S			
Condition Title									
Sequoia Brake Flu	uid Leak								



Tag on cylinder

Attachment 1: PRCS



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date	
FTR-J2A215631		TMS	QA-Chassis	FTS	REG-GST	19011-1	6/6/03
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	se Vehicle Sequoia		2003		2595 mi	5TDZT38A83S	
Condition Title							
Sequoia Brake Fluid Leak							

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the **Final Destination** field below is "**scrap**", properly dispose of the part.

	Final Destination:	TMMNA		SETR#:		CQE E	ng:	N	/A			
lm	porter: (Applies to TMC Sh	nipments Only)	Delive	r to:			住所	:				
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:				宛先 Tel:	:				
No	e: If this FTR contains more t	han one VIN, creat	e a table i	n the report cont	taining VIN, product	tion date, ar	nd odon	neter			CUSTOMS L ed Parts Valu	
	Part # 1:	Part Descr	iption						Qty.		d Part Val	
1	472100C040 Comments:								1	\$	0 .	.00
	Part # 2:	Part Descr	iption						Qty.		ed Part Val	
2	Comments:								0	\$	0.	.00
	Part # 3:	Part Descr	iption						Qty.		ed Part Val	
3	Comments:								0	\$	0 .	.00
	Part # 4:	Part Descr	iption						Qty.		ed Part Val	
4	Comments:									\$		.00
	Part # 5:	Part Descr	iption						Qty.		ed Part Val	
5	Comments:									\$		.00
	Part # 6:	Part Descr	iption						Qty.		ed Part Val	
6	Comments:									\$		.00
	Part # 7:	Part Descr	iption						Qty.		d Part Val	
7	Comments:									\$		.00
	Part # 8:	Part Descr	iption						Qty.	Use \$	ed Part Val	
8	Comments:	1								Φ	•	.00



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-5EA216231 TMS		TMS	QA-Chassis	FTS	REG-SF	12044-1	6/12/03	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Base Vehicle Sequoia		2003	11-2002	4957 mi	5TDZT34A73S		
Condition Title								
VSC Light ON - DTC C1231								

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval

# **Condition Description**

Vehicle exhibits ABS/VSC lights on, multiple repair attempts.

#### **Diagnostic Steps:**

Scantool revealed C1231 code stored in memory. Revised calibration procedure was performed on steering angle sensor, but code returned.

#### **Probable Cause**

Unknown at this time.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
895410C060			Have part / will ship	TMMNA

#### **Repair Process**

Installed updated Skid Control ECU received from PQSS chassis-will continue to monitor.



Replaced Skid Control ECU

Attachment 1: PRCS



TQCN DOC# Affiliate D		Dept.	Source	Location	Ref	Date		
FTR-5EA216231		TMS	QA-Chassis	FTS	REG-SF	12044-1	6/12/03	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Base Vehicle Sequoia		2003	11-2002	4957 mi	5TDZT34A73S		
Condition Title								
VSC Light ON - DTC C1231								

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the **Final Destination** field below is "**scrap**", properly dispose of the part.

	Final Destination:	TMMNA						
lm	porter: (Applies to TMC Shi	pments Only)	Deliver to:	住所:				
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:	宛先: Tel:	FOR CUSTOMS USE:			
Not			e a table in the report containing VIN, production date, ar		Used Parts Value			
	Part # 1:	Part Descr	·	Qty.	Used Part Value \$ 266 .00			
1	895410C060 Comments:	COMPC	ITER, SKID CONTROL		\$ 266 .00			
	Part # 2:	Part Descr	iption	Qty.	Used Part Value			
2	Comments:			0	\$ 0.00			
	Part # 3:	Part Descr	iption	Qty.	Used Part Value			
3	Comments:			0	\$ 0.00			
	Part # 4:	Part Descr	iption	Used Part Value				
4	Comments:				\$ .00			
	Part # 5:	Part Descr	iption	Qty.	Used Part Value			
5	Comments:				\$ .00			
	Part # 6:	Part Descr	iption	Qty.	Used Part Value			
6	Comments:				\$ .00			
	Part # 7:	Part Descr	iption	Qty.	Used Part Value			
7	Comments:				\$ .00			
	Part # 8:	Part Descr	iption	Qty.	Used Part Value			
8	Comments:				\$ .00			



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-JRA217831		TMS	QA-Chassis	FTS	REG-CIN	17852-1	6/30/03	
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	12-2002	8186 mi	5TDZT34A43S		
Condition Title								
SEQUOIA DTC C1203								

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
06-26-2003		

## **Condition Description**

Customer has brought vehicle to dealership service department 3 times to repair the V.S.C. and A.B.S. lights on and code C1203 set.

# **Diagnostic Steps:**

F.T.S. inspected the vehicle and at this time V.S.C. and A.B.S. is operating properly. The lights are not currently illuminated but C1203 is set with no other codes set or pending. On the first repair visit, the brake fluid level was about 1 inch low in the reservoir. The brake fluid level was corrected, the code cleared and vehicle returned in 1 week.

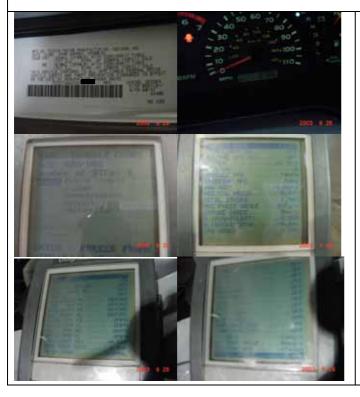
#### **Probable Cause**

The cause of this condition is unknown. FTS monitored less than 0.1 volts drop on power and ground circuits to Skid Control ECU.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
896300C010			Have part / will ship	TMMNA

#### **Repair Process**

New Translate ECU was installed and the system was initialized. Test-drove vehicle for 22 miles without recurrence.





Attachment 1: PRCS



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date	
FTR-JRA217831		TMS	QA-Chassis	FTS	REG-CIN	17852-1	6/30/03
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	hicle Sequoia		2003	12-2002	8186 mi	5TDZT34A43S	
Condition Title							
SEQUOIA DTC C1203							

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the **Final Destination** field below is "**scrap**", properly dispose of the part.

	Final Destination: TMMNA								
lm	porter: (Applies to TMC Shipme	nts Only)	Deliver to:	住所:					
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:	宛先: Tel:	<b>T</b>				
Not	te: If this FTR contains more than or	ne VIN, creat	e a table in the report containing VIN, production date, ar	d odometer		Used Pa	OMS USE: rts Value		
	Part # 1:	Part Descr	•	Qty.		Used Pa	rt Value		
1	896300C010	COMPL	JTER ASSY, TRANSLATE	1	\$		86 .00		
_	Comments:								
	Part # 2:	Part Descr	iption	Qty.		Used Pa	rt Value		
2				0			0 .00		
2 Comments:									
	Part # 3: Part Description Qty.								
	rait#3.	rait Desci	iption	0	\$		rt Value 0.00		
3	Comments:								
	Part # 4:	Part Descr	iption	Qty.			rt Value		
4	Comments				\$		.00		
	Comments:	_							
	Part # 5:	Part Descr	iption	Qty.		Used Pa			
5	Comments:				\$	1	.00		
	Part # 6:	Part Descr	iption	Qty.			rt Value		
6	Comments:				\$		.00		
	Comments.								
	Part # 7:	Part Descr	iption	Qty.		Used Pa	rt Value		
7					\$		.00		
	Comments:								
	Part # 8:	Part Descr	iption	Qty.			rt Value		
8	0				\$		.00		
	Comments:								



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-JVA218131		TMS	QA-Chassis	FTS	REG-CIN	17852-1	7/1/03
Problem Area	roblem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Sequoia		2002	10-2002	19478 mi	5TDBT44A83S	
Condition Title							
2003 Sequoia - DTC C1203							

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
6/23/03		

# **Condition Description**

Repeat 1203 code in a 03 Sequoia. This FTR is for recovery of the original part.

# **Diagnostic Steps:**

The technician followed repair manual procedure to diagnose condition. The technician then called California Technical Assistance and opened a case. California TAS arranged for a c/m Translate ECU to be shipped to the dealer.

#### **Probable Cause**

Unknown.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
896300C010			Have part / will ship	TMMNA

#### **Repair Process**

The technician replaced the Translate ECU with the c/m unit.







TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date	
FTR-JVA218131		TMS	QA-Chassis	FTS	REG-CIN	17852-1	7/1/03
Problem Area	ea Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Sequoia		2002	10-2002	19478 mi	5TDBT44A83S	
Condition Title							
2003 Sequoia - DTC C1203							

Place Picture #2 here	Place Caption #2 here

Attachment 1: PRCS



TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-JVA218131		TMS	QA-Chassis	FTS	REG-CIN	17852-1	7/1/03	
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2002	10-2002	19478 mi	5TDBT44A83S		
Condition Title								
2003 Sequoia - DTC C1203								

# Attachment 1: Parts Recovery Control Sheet

ı	Final Destination: TMN	MNA					
lmp	porter: (Applies to TMC Shipmen	its Only)	Deliver to:	住所:			
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:	宛先: TeI:			
Not			e a table in the report containing VIN, production date, an		Used Pa	TOMS USE: rts Value	
	Part # 1: 896300C010	Part Descr	iption ITER ASSY, TRANSLATE	Qty.	Used Pa	art Value 86 .00	
1	Comments:	COMPC	TER ASST, TRANSLATE	l l	φ	00.00	
	Part # 2:	Part Descr	iption	Qty.	Used Pa	art Value 0.00	
2	Comments:						
	Part # 3: Part Description					art Value	
3	Comments:			0	\$	0 .00	
	Part # 4:	Part Descr	iption	Qty.		art Value	
4	Comments:				\$	.00	
	Part # 5:	Part Descr	iption Qt			art Value	
5	Comments:				\$	.00	
	Part # 6:	Part Descr	iption	Qty.		art Value	
6	Comments:				\$	.00	
	Part # 7:	Part Descr	iption	Qty.		art Value	
7	Comments:				\$	.00	
	Part # 8:	Part Descr	iption	Qty.		art Value	
8	Comments:				<u></u>	.00	
8		Part Descr	iption	Qty.	Used Pa	art Value .00	



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-J1A218131 TMS		TMS	QA-Chassis	FPE	REG-GST	16729-1	7/1/03	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	11-2002	5802 mi	5TDZT34A63S		
Condition Title								
VSC TRAC MIL On								

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
04/12/2003		

## **Condition Description**

Customer complains that the VSC and TRAC light comes on and off at times.

## **Diagnostic Steps:**

Technician used the dia. Tester and retrieved codes C 1231 and C 1360

## **Probable Cause**

Codes indicate a malfunction in the steering angle sensor and the master cylinder pressure sensor.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
8924534010	896370C020		Have part / will ship	TMMNA

## **Repair Process**

The steering angle sensor and the master cylinder pressure sensors were replaced to correct this condition.



Steering angle sensor and master cylinder pressure sensors.



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-J1A218131 TM		TMS	QA-Chassis	FPE	REG-GST	16729-1	7/1/03	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	11-2002	5802 mi	5TDZT34A63S		
Condition Title								
VSC TRAC MIL O	VSC TRAC MIL On							

# Attachment 1: Parts Recovery Control Sheet

I	Final Destination:	TMMNA			
lm	porter: (Applies to TMC Sh	nipments Only)	Deliver to:	住所:	
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:	宛先: Tel:	
Not	e: If this FTR contains more t	han one VIN, creat	e a table in the report containing VIN, production date, ar	d odometer	FOR CUSTOMS USE: Used Parts Value
	Part # 1:	Part Descr		Qty.	Used Part Value
1	8924534010	SENSO	R, STEERING	1	\$ 48.00
•	Comments:				
	Part # 2:	Part Descr	iption	Qty.	Used Part Value
2	896370C020	SENSO	R, OIL PRESSURE	2	\$ 63.00
2	Comments:	·		·	
	Part # 3:	Part Descr	iption	Qty.	Used Part Value
3				0	\$ 0.00
3	Comments:				
	Part # 4:	Part Descr	iption	Qty.	Used Part Value
4					\$ .00
_	Comments:				
	Part # 5:	Part Descr	iption	Qty.	Used Part Value
5	Comments:				\$ .00
	Comments.				
	Part # 6:	Part Descr	iption	Qty.	Used Part Value
6	Comments:				\$ .00
	Part # 7:	Part Descr	iption	Qty.	Used Part Value
7 Comments:					\$ .00
	SIIIOIIIO.				
	Part # 8:	Part Descr	iption	Qty.	Used Part Value
8	Commonto				\$ .00
	Comments:				
<u> </u>					



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-J0A218331 TMS		TMS	QA-Chassis	FTS	REG-GST	12044-1	7/8/2003	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	12-2002	9108 mi	5TDZT34A93S		
Condition Title								
VSC Light ON - DTC C1360,C1247,C1223,C1203								

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
6/17/2003	RO 560102	

## **Condition Description**

Vehicle sets VSC codes C1360, C1247, C1223 and C1203

## **Diagnostic Steps:**

Technician checked voltages and grounds at the VSC computer. Verified voltages on the master pressure sensors. Both sensors indicated .47 volts at idle and reached 2.4 volts with the brakes applied. He also checked the pedal stroke sensor. The sensor read 1.7 volts at idle and reached 3.14 volts with the pedal fully depressed. Once the codes were set the voltage on the pedal stroke sensor changed to 0 volts at idle and .2 volts with the pedal depressed. The VSC computer was checked for input source voltage and there was 13.8-14 volts available to the computer when the engine was running. Inspected the shielded wires for excessive noise and none was detected.

## **Probable Cause**

Unknown.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
895410C060			Have part / will ship	TMMNA

#### **Repair Process**

Replacing the Skid Control ECU corrected the condition.



Identification tag on VSC ECU



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-J0A218331 TI		TMS	QA-Chassis	FTS	REG-GST	12044-1	7/8/2003	
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	12-2002	9108 mi	5TDZT34A93S		
Condition Title								
VSC Light ON - DTC C1360,C1247,C1223,C1203								

# Attachment 1: Parts Recovery Control Sheet

ı	Final Destination:	TMMNA		SETR#:		CQE Er	ng:	N/A				
lm	porter: (Applies to TMC St	hipments Only)	Delive	r to:			住所:					
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan Note: If this FTR contains more than one VIN, create			Attn: Tel:	n the report con	taining VIN, produc	tion date, an	宛先: Tel:	er			CUSTOMS ed Parts Va	
	Part # 1:	Part Descr	iption						Qty.		ed Part Va	
1	895410C060		-	SKID CONTE	ROL				1	\$	266	.00
•	Comments:											
	Part # 2:	Part Descr	iption						Qty.	Us	ed Part Va	alue
2			•						0	\$	0	.00
4	Comments:											
	Part # 3:	Part Descr	iption						Qty.		ed Part Va	
3	Comments:								0	\$	0	.00
	Commond.											
	Part # 4:	Part Descr	iption						Qty.		ed Part Va	
4	Comments:									\$		.00
	Comments.											
	Part # 5:	Part Descr	iption						Qty.		ed Part Va	
5	Comments:									\$		.00
	Comments.											
	Part # 6:	Part Descr	iption						Qty.		ed Part Va	lue
6	0									\$		.00
	Comments:											
	Part # 7:	Part Descr	iption						Qty.	Us	ed Part Va	alue
7										\$		.00
	Comments:											
	Part # 8:	Part Descr	iption						Qty.		ed Part Va	alue
8										\$		.00
	Comments:											
<u> </u>												



TQCN DOC#	CN DOC# Affiliate		Dept.	Source	Location	Ref	Date
FTR-J2A218431		TMS	QA-Chassis	FTS	REG-GST	19316-1	7/8/2003
Problem Area	Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle Sequoia		2003		8748 mi	5TDZT34A73S		
Condition Title							
Seguoia C 1360							

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
06-04-03		

# **Condition Description**

Trac VSC MIL on code C1360

## **Diagnostic Steps:**

Used scan tool and monitored master cylinder pressure. Confirmed equal pressure readings until repeated brake applications would cause brake pedal to go down and one sensor reading would fall short of the other sensor.

## **Probable Cause**

Fluid bypass in	Fluid bypass inside brake master cylinder causing low pressure at sensor.						
Part # 1:	Part # 1: Part # 2: Part # 3: Parts Disposition: Parts Shipping Destination:						
472010C040	472010C040 Have part / will ship TMMNA						

## **Repair Process**

Replaced brake master cylinder.



Brake Master Cylinder with tag



Marks in brake master cylinder casting



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-J2A218431		TMS	QA-Chassis	FTS	REG-GST	19316-1	7/8/2003
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Base Vehicle Sequoia		2003		8748 mi	5TDZT34A73S	
Condition Title	Condition Title						
Sequoia C 1360							

Attachment 1: PRCS

# Attachment 1: Parts Recovery Control Sheet

ı	Final Destination:	TMMNA		SETR#:		CQE E	SETR#: CQE Eng: N/A					
lmp	oorter: (Applies to TMC Sh	nipments Only)	Delive	r to:			住所:					
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan Note: If this FTR contains more than one VIN, crea			Attn:		orining VIII) and decided	tion data and	宛先: Tel:			FOR CU	STOMS U	SE:
NOT				n the report con	aining vin, product	tion date, ar	ia odometer		_		Parts Valu	
	Part # 1: 472010C040	Part Descri	•	R-ASSV RE	RAKE MASTER	2			Qty.	\$	Part Valu ). 39	
1	Comments:	JOTEMAD	LIV OO	D NOOT, DI	O TICL IVIN COTET					Ψ	00 .	00
	Part # 2:	Part Descri	iption						Qty.		Part Valu	
2	Comments:							\$	0 .0	JU		
	Part # 3:	Part Descri	art Description Qty.						Part Valu			
3	Comments:								0	\$	0 .	00
	Comments.											
	Part # 4:	Part Descri	iption						Qty.		Part Valu	ıe
4										\$		00
-	Comments:											
	Part # 5:	Part Descri	iption						Qty.	Used	Part Valu	ıe
5										\$		00
	Comments:											
	Part # 6:	Part Descri	iption						Qty.	Used	Part Valu	ıe
6							\$	.(	00			
J	Comments:											
	Part # 7:	Part Descri	iption						Qty.	Used	Part Valu	ıe
7										\$	.(	00
•	Comments:											
	Part # 8:	Part Descri	iption						Qty.	Used	Part Valu	ле
8										\$		00
0	Comments:											



TQCN DOC#	Affiliate [		Dept.	Source	Location	Ref	Date
FTR-VEA218431		TMS	QA-Chassis	FPE	REG-NY	12044-1	7/8/2003
Problem Area	oblem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Base Vehicle Sequoia		2004	03-2003	2016 mi	5TDBT44A13S	
Condition Title	Condition Title						
VSC and TRAC Light ON - DTC C1231							

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
7-1-03		

## **Condition Description**

Customer states VSC and TRAC light ON.

## **Diagnostic Steps:**

Technician and FPE verified the customer's complaint and retrieved DTC C1231 with the Scantool.

## **Probable Cause**

Unknown.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
N/A			No part available	N/A

### **Repair Process**

The technician and FPE cleared the code and drove the vehicle 5 miles, including making several turns. The code did not return and the steering angle values were accurate on the scan tool. Vehicle was returned to customer.



DTC C1231 in memory



TQCN DOC#	C# Affiliate		Dept.	Source	Location	Ref	Date
FTR-VEA218431		TMS	QA-Chassis	FPE	REG-NY	12044-1	7/8/2003
Problem Area	olem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Base Vehicle Sequoia		2004	03-2003	2016 mi	5TDBT44A13S	
Condition Title	Condition Title						
VSC and TRAC Light ON - DTC C1231							

# Attachment 1: Parts Recovery Control Sheet

Final Destination: N/A							
Imp	oorter: (Applies to TMC Shipmen	ts Only)	Deliver to:	住所:	•		
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:	宛先: Tel:			
Note	e: If this FTR contains more than one	VIN, create	e a table in the report containing VIN, production date, an	d odometer		OR CUST Used Par	OMS USE: ts Value
1	Part # 1: N/A Comments:	Part Descr	iption	Qty.	\$	Jsed Pa	rt Value 0 .00
2	Part # 2: Comments:	Part Descr	iption	Qty.	\$	Jsed Pa	rt Value
3	Part # 3:  Comments:	Part Descr	iption	Qty.	\$	Jsed Pa	rt Value 0 .00
1	Part # 4: Comments:	Part Descr	iption	Qty.	۱ \$	Jsed Pa	rt Value .00
5	Part # 5:  Comments:	Part Descr	iption	Qty.	\$	Jsed Pa	rt Value .00
6	Part # 6: Comments:	Part Descr	iption	Qty.	\$	Jsed Pa	rt Value .00
7	Part # 7:  Comments:	Part Descr	iption	Qty.	۱ \$	Jsed Pa	rt Value .00
R	Part # 8:  Comments:	Part Descr	iption	Qty.	۱ \$	Jsed Pa	rt Value .00



TQCN DOC#	Affiliate		Dept.	Source	Location	Ref	Date
FTR-J3A219031		TMS	QA-Chassis	FTS	REG-GST	11486-1	7/9/03
Problem Area	em Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Base Vehicle Sequoia		2003	12-2002	14 mi	5TDZT34A53S	
Condition Title							
Park Brake Light Remains On							

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval

## **Condition Description**

The BRAKE light stays on in the dash at all times.

## **Diagnostic Steps:**

Inspection of the circuit revealed that the ground path for the light was through the Skid Control ECU.

## **Probable Cause**

Internal short to ground within the Skid Control ECU.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
	1 alt # 2.	Talt# 3.		
440500C070			Have part / will ship	TMMNA

### **Repair Process**

Inspect the Park Brake lamp circuit, trace to short within the Skid Control ECU.

\*Note- The dealer installed the Skid Control ECU with Actuator.



89541-0C060

25.0925-0018.3 00001112C1 \*FUR2M14C45\*



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-J3A219031		TMS	QA-Chassis	FTS	REG-GST	11486-1	7/9/03
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Sequoia	a	2003	12-2002	14 mi	5TDZT34A53S	
Condition Title							
Park Brake Light F	Remains	On					



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-J3A219031		TMS	QA-Chassis	FTS	REG-GST	11486-1	7/9/03
Problem Area Primary Model		odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Base Vehicle Sequoia		2003	12-2002	14 mi	5TDZT34A53S	
Condition Title	Condition Title						
Park Brake Light F	Park Brake Light Remains On						

# Attachment 1: Parts Recovery Control Sheet

	Final Destination: TM	MNA						
lm	porter: (Applies to TMC Shipmer	nts Only)	Deliver to:	住所:				
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan Note: If this FTR contains more than one VIN. creat			Attn:  Tel:  e a table in the report containing VIN, production date, an	宛先: Tel: d odometer			TOMS U:	
	Part # 1:	Part Descr	iption	Qty.	U	sed P	art Valu	ıe
4	440500C070		TOR ASSY, BRAKE W/FLUID	1	\$		453 .0	00
1	Comments:			<u> </u>				
	Part # 2:	Part Descr	india.	061		d D	art Valu	
	rait # 2.	Part Descr	iption	Qty.	\$	seu r	0 .(	
2	Comments:						0 .	00
3	Part # 3: Part Description Qty.				\$	sed P	art Valu	
	Comments:						0 .0	00
	Part # 4: Part Description Qty.					sed P	art Valu	
4	Commonto				\$			00
_	Comments:							
	Part # 5:	Part Descr	iption	Qty.		sed P	art Valu	
5					\$			00
	Comments:							
	Part # 6:	Part Descr	iption	Qty.	U	sed P	art Valu	ie
6								00
	Comments:							
	Part # 7:	Part Descr	iption	Qty.		sed P	art Valu	
7	0				\$			00
	Comments:							
	Part # 8:	Part Descr	iption	Qty.		sed P	art Valu	ıe
8	0				\$			00
	Comments:							
	l							



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VEA218931		TMS	QA-Chassis	FPE	REG-NY	12044-1	7/8/2003
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Base Vehicle Sequoia		2003	03-2003	2016 mi	5TDBT44A13S	
Condition Title							
2003 Sequoia - D	2003 Sequoia - DTC C1231						

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
6-30-03		

# **Condition Description**

Customer states VSC and ABS lights ON.

## **Diagnostic Steps:**

Technician and FPE verified the customer's complaint and upon further diagnosis found the code DTC C1231. Verified that the steering angle was functioning correctly with the Diagnostic Tester.

# Probable Cause

Unknown.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
N/A			No part available	N/A

### **Repair Process**

The technician and FPE cleared the code and returned vehicle to customer.



Diagnostic Tester indicates DTC C1231



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VEA218931		TMS	QA-Chassis	FPE	REG-NY	12044-1	7/8/2003
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Base Vehicle Sequoia		2003	03-2003	2016 mi	5TDBT44A13S	
Condition Title							
2003 Sequoia - D	2003 Sequoia - DTC C1231						

# Attachment 1: Parts Recovery Control Sheet

I	Final Destination: N/A	A				
lm	porter: (Applies to TMC Shipm	ents Only)	Deliver to:	住所:		
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn:  Tel:  e a table in the report containing VIN, production date, an	宛先: Tel:	FOR CUSTOMS US	
1401	Part # 1:	Part Descr		Qty.	Used Parts Value Used Part Value	
4	N/A	T dir Doool	-priori	0	\$ 0.0	
1	Comments:					
	Part # 2:	Part Descr	iption	Qty.	Used Part Valu	
2	Comments:			0	\$ 0.0	)0
		1-				
3	Part # 3:	Part Description Qty.			Used Part Valu \$ 0 .0	
	Comments:					
	Part # 4:	Part Descr	iption	Qty.	Used Part Valu	e
4					\$ .0	00
•	Comments:					
	Part # 5:	Part Descr	iption	Qty.	Used Part Valu	
5	Comments:				\$ .0	00
	Part # 6:	Part Descr	iption	Qty.	Used Part Valu	ie 00
6	Comments:					
		1_		1.		
	Part # 7:	Part Descr	iption	Qty.	Used Part Valu \$ .(	ie 00
7	Comments:			I	ιΨ .(	,,,
	Part # 8:	Part Descr	iption	Qty.	Used Part Valu	e
8				•	\$ .0	00
J	Comments:					



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VZA219231		TMS	QA-Chassis	MDT/DS	TMS	12044-1	7/14/03
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle Sequoia		2003	11-2002	4791 mi	5TDZT34AX3S		
Condition Title							
2003 Sequoia VSC - DTC C1231							

Do not type in Blue shaded fields - Input data from Web page or RDM:

_		7.1	1 0
	Repair Date	Optional Ref.	Optional Approval

## **Condition Description**

The VSC and TRAC off warring lights were on. The diagnostic code C-1231, steering angle sensor malfunction was set. The same condition was found in a second 2003 Sequoia, P/D: 09-02, VIN: 5TDZT34A83S 18861 miles.

### **Diagnostic Steps:**

The steering angle sensors on both vehicles responded to wheel movement while monitoring the Scantool data list. Both vehicles were off zero calibration with the wheel in the straight ahead position The first vehicle was off by –72 deg. and the second vehicle was off 48deg.

### **Probable Cause**

Exact cause is unknown. Suspect possible intermittent loss of steering angle sensor signal.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
8924534010			Have part / will ship	TMMNA

### **Repair Process**

Replace the steering angle sensors in both vehicles and reset the zero points. Systems now operating normal.

Tag and recover both parts.



Photo of steering angle sensor and P/N.



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date			
FTR-VZA219231 TMS		QA-Chassis	MDT/DS	TMS	12044-1	7/14/03			
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle	Sequoia		2003	11-2002	4791 mi	5TDZT34AX3S			
Condition Title									
2003 Sequoia VSC - DTC C1231									

# Attachment 1: Parts Recovery Control Sheet

ا	Final Destination: TMMNA									
lmį	porter: (Applies to TMC Shipme	nts Only)	Deliver to:	住所:						
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:	宛先: Tel:						
Not	e: If this FTR contains more than on	e VIN, creat	e a table in the report containing VIN, production date, an	d odometer			TOMS USE: arts Value			
	Part # 1:	Part Descr	·	Qty.		sed Pa	art Value			
1	8924534010	SENSO	R, STEERING	2	\$		48 .00			
•	Comments:									
	Part # 2:	Part Descr	iption	Qty.	U	sed Pa	art Value			
2				\$		0 .00				
2	2 Comments:									
	Part # 3:	Part Descr	iption	Qty.		sed Pa	art Value			
3				0	\$		0 .00			
	Comments:			Qty.						
	Part # 4:	Part Descr		sed Pa	art Value					
4	Comments:				\$		.00			
		ı								
	Part # 5:	Part Descr	iption	Qty.	\$ \$	sed Pa	art Value			
5	Comments:						.00			
	Commond.									
	Part # 6:	Part Descr	iption	Qty.		sed Pa	art Value			
6	Comments:				\$		.00			
_	Comments.									
	Part # 7:	Part Descr	iption	Qty.		sed Pa	art Value			
7 Comments:					\$		.00			
	Commonto.									
	Part # 8:	Part Descr	iption	Qty.		sed Pa	art Value			
8	Commonto				\$		.00			
	Comments:									
	<u> </u>									



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date			
FTR-VEA220631 TMS		TMS	QA-Chassis	FPE	REG-NY	12044-1	7/28/03		
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle	Sequoia		2003	12-2002	5894 mi	5TDBT48A23S			
Condition Title									
2003 Sequoia - DTC C1231									

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
7-1-03		

## **Condition Description**

Customer states VSV and TRAC light ON.

## **Diagnostic Steps:**

Technician and FPE verified the customer's complaint and upon further diagnosis found DTC C1231 with the Scantool.

## Probable Cause

Unknown.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
N/A			No part available	N/A

#### Repair Process

The technician and FPE cleared the code and drove the vehicle 5 miles, including making several turns. The code did not return and the steering angle values were accurate on the scan tool. Vehicle was returned to customer.



**DTC C1231** 



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date			
FTR-VEA220631 TMS		TMS	QA-Chassis	FPE	REG-NY	12044-1	7/28/03		
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle	Sequoia		2003	12-2002	5894 mi	5TDBT48A23S			
Condition Title									
2003 Sequoia - DTC C1231									

# Attachment 1: Parts Recovery Control Sheet

I	Final Destination: N/A										
lmį	porter: (Applies to TMC Shipmer	nts Only)	Deliver to:	住所:							
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:	宛先: Tel:							
Not	e: If this FTR contains more than one	e VIN, creat	e a table in the report containing VIN, production date, an	d odometer			OMS USE: rts Value				
	Part # 1:	Part Descr	iption	Qty.	. Used Part Value						
1	N/A			0	\$		0 .00				
•	Comments:										
	Part # 2:	Part Descr	iption	Qty.	U:	sed Pa	rt Value				
2				\$		0 .00					
4	Comments:										
	Part # 3:										
3				0	\$		0 .00				
	Comments:						rt Value				
	Part # 4:	Part # 4: Part Description Qty.									
4	Comments:				\$		.00				
	Part # 5:	Part Descr	ription			Qty. Used Part Value					
5	Comments:				\$		.00				
	Comments.										
	Part # 6:	Part Descr	iption	Qty.		sed Pa	rt Value				
6	Comments:				\$		.00				
	Part # 7:	Part Descr	iption	Qty.		sed Pa	rt Value				
7	Comments:				\$		.00				
	Commonic.										
	Part # 8:	Part Descr	iption	Qty.		sed Pa	rt Value				
8	Commenter				\$		.00				
_	Comments:										
	<u> </u>										



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date			
FTR-J0A221031 TMS		QA-Chassis FTS REG-GST 19556-		19556-1	7/30/03				
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle	Sequoia		2003	08-2002	16840 mi	5TDZT34A73S			
Condition Title									
Yaw Rate Sensor									

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
07/09/2003	R.O. 120985	

## **Condition Description**

Vehicle sets VSC codes C1223 Malfunction in ABS Control System, and C1244 deceleration sensor circuit. Vehicle would not complete zero point calibration.

## **Diagnostic Steps:**

Technician verified with the scan tool that values were changing on the scan tool by moving the vehicle side to side or jouncing the front end of the vehicle. Voltage and ground were also verified at the sensor.

#### **Probable Cause**

Deceleration sensor values not within specification.								
Part # 1: Part # 2: Part # 3: Parts Disposition: Parts Shipping Destination								
891800C020			Have part / will ship	TMMNA				

### **Repair Process**

Replacing the yaw rate/deceleration sensor assembly with one from a KGU restored the vehicle to proper working condition. A new sensor was ordered and installed on the vehicle.



Identification tag on end of Yaw Rate Sensor P/N 89180-0C020

Identification tag on side of Yaw Rate Sensor



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-J0A221031 TMS		QA-Chassis	FTS	REG-GST	19556-1	7/30/03		
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	08-2002	16840 mi	5TDZT34A73S		
Condition Title								
Yaw Rate Sensor								

Attachment 1: PRCS

# Attachment 1: Parts Recovery Control Sheet

	Final Destination:	TMMNA		SETR#:		CQE Er	ng:	N/A				
lm	porter: (Applies to TMC Si	nipments Only)	Delive	r to:			住所:					
Ov TO Nis 5-2 Jap	rth America EDER Gr., Teclerseas Customer Service To PYOTA MOTOR CORPORT. Schin Education & Training Co 10, SAKAE, NISSHIN, AICL Dan	echnical Div. ATION Center H, 470-0113	Attn: Tel:	n the report con	taining VIN, product	tion date, an	宛先: Tel:	er				OMS USE: ts Value
	Part # 1:	Part Descr	ription						Qty.			rt Value
1	891800C020	SENSO	R ASS	Y, YAWRAT	E				1	\$		50 .00
•	Comments:											
	Part # 2:	Part Descr	ription						Qty.	U	sed Pa	rt Value
2			•						0	\$		0 .00
_	Comments:											
	Part # 3:	Part Descr	iption						Qty.		sed Pa	rt Value
3	Commenter								0	\$		0 .00
	Comments:											
	Part # 4:	Part Descr	ription						Qty.	\$	sed Pa	rt Value .00
4	Comments:	I							ļ	Φ		.00
	Part # 5:	Part Descr	ription						Qty.		sed Pa	rt Value
5	Comments:									\$		.00
	Part # 6:	Part Descr	ription						Qty.		sed Pa	rt Value
6	Comments:									\$		.00
	Part # 7:	Part Descr	ription						Qty.		sed Pa	rt Value
7	Comments:									\$		.00
	Part # 8:	Part Descr	ription						Qty.		sed Pa	rt Value
8	Comments:								]	\$		.00



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VZA223031	TMS		QA-Chassis	MDT/DS	TMS	15570-1	8/18/03	
Problem Area	Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia	а	2003	11-2002	6735 mi	5TDZT34A93S		
Condition Title								
Intermittent Trac Off Light								

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval

## **Condition Description**

The "TRAC" off indicator light in the combination meter intermittently came on while the vehicle was being driven. The diagnostic code C-1244 (deceleration circuit malfunction).

## **Diagnostic Steps:**

Verified connections at the decel/yaw sensor and at the skid control ECU.

## **Probable Cause**

Unknown - intermittent internal malfunction of the decel/yaw sensor

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:	
891800C020			Have part / will ship	TMMNA	

### **Repair Process**

Replaced the decel/yaw sensor System now operating normally



Label from the original sensor 89180-0C020 25.0980-0414.4 246317 SC-00C-220-120 5MD2K13180



Label from the original sensor 89180-0C020 25.0980-0414.4 0221598004143432105951



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VZA223031	R-VZA223031 TMS		QA-Chassis	MDT/DS	TMS	15570-1	8/18/03	
Problem Area	roblem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	cle Sequoia		2003	11-2002	6735 mi	5TDZT34A93S		
Condition Title	Condition Title							
Intermittent Trac C	Intermittent Trac Off Light							

# Attachment 1: Parts Recovery Control Sheet

F	Final Destination: TMN	ΜNA						
Imp	oorter: (Applies to TMC Shipmen	ts Only)	Deliver to:	住所:				
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:	宛先: Tel:				
Note	e: If this FTR contains more than one	VIN, create	e a table in the report containing VIN, production date, an	d odometer			USTON Parts	IS USE: Value
4	Part # 1: 891800C020 Comments:	Part Descr SENSO	iption R ASSY, YAWRATE	Qty.	\$	Used		Value 0.00
2	Part # 2: Comments:	Part Descr	iption	Qty.	\$	Used		Value 0 .00
2	Part # 3:  Comments:	Part Descr	iption	Qty.	\$	Used		Value 0 .00
1	Part # 4: Comments:	Part Descr	iption	Qty.	\$	Used	l Part	Value .00
5	Part # 5:  Comments:	Part Descr	iption	Qty.	\$	Used	l Part	Value .00
6	Part # 6: Comments:	Part Descr	iption	Qty.	\$	Used	l Part	Value .00
7	Part # 7:  Comments:	Part Descr	iption	Qty.	\$	Used	l Part	Value .00
R	Part # 8:  Comments:	Part Descr	iption	Qty.	\$	Used	l Part	Value .00



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VEA223231A		TMS	QA-Chassis	FPE	REG-NY	19744-1	8/20/03	
Problem Area	blem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia	a	2003	03-2003	4184 mi	5TDBT48A03S		
Condition Title								
Brake Light On - F	Brake Light On - Pedal Stroke Sensor							

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
8-4-03		

## **Condition Description**

Customer states brake malfunction indicator light on. No VSC, no ABS Light.

## **Diagnostic Steps:**

Technician verified the customer's complaint. Technician monitored PIM voltage during road test using E3 ground used by pedal stroke speed sensor. Fluke meter set to record MIN/MAX voltage. During malfunction, meter did not record any abnormal voltages. Before ordering new Skid control ECU, Tech swapped brake vacuum booster per regional FTS. That corrected the problem. Note: Fluke88 multi meter not fast enough to detect this type of problem. Must use oscilloscope.

### Probable Cause

Unknown.				
Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
446100C040			Have part / will ship	TMMNA

### **Repair Process**

# Replace brake booster PN 44610-0C040.



Minimum voltage recorded at the time brake malfunction indicator came on for tech. Within spec of good pedal stroke sensor and circuit.



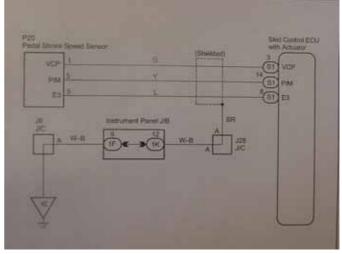


TQCN DOC# Afr		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VEA223231A		TMS	QA-Chassis	FPE	REG-NY	19744-1	8/20/03	
Problem Area	em Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	03-2003	4184 mi	5TDBT48A03S		
Condition Title								
Brake Light On - Pedal Stroke Sensor								

Maximum voltage recorded at the time Brake malfunction indicator came on for tech. Within spec of good pedal stroke sensor and circuit.



Meter readings taken at Skid Contrll ECU. Pos lead on pin 14 (PIM). Neg lead on pin 8 (E3)





TQCN DOC# Aff		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VEA223231A	R-VEA223231A TMS		QA-Chassis	FPE	REG-NY	19744-1	8/20/03	
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia	a	2003	03-2003	4184 mi	5TDBT48A03S		
Condition Title	Condition Title							
Brake Light On - F	Brake Light On - Pedal Stroke Sensor							

# Attachment 1: Parts Recovery Control Sheet

ı	Final Destination: TMN	MNA						
lmp	porter: (Applies to TMC Shipmen	nts Only)	Deliver to:	住所:				
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:	宛先: Tel:				
Not	e: If this FTR contains more than one	e VIN, create	e a table in the report containing VIN, production date, an	d odometer	F		USTOM Parts \	S USE: Value
	Part # 1:	Part Descr	·	Qty.	Used Part Value			
1	446100C040 Comments:	BOOST	ER ASSY, BRAKE	1	\$		108	3 .00
_	Comments:							
	Part # 2:	Part Descr	iption	Qty.		Used	Part \	<b>Value</b>
2				0	\$		(	00.0
Comments:								
	Part # 3:	Part Descr	iption	Qty.		Used	Part \	<b>Value</b>
3				0	\$		(	00.0
3	Comments:							
	Part # 4:	Part Descr	iption	Qty.		Used	Part \	<b>Value</b>
4					\$			.00
_	Comments:							
	Part # 5:	Part Descr	iption	Qty.		Used	Part \	<b>Value</b>
5					\$			.00
	Comments:							
	Part # 6:	Part Descr	iption	Qty.		Used	Part \	<b>Value</b>
6	Comments:				\$			.00
_	Comments:							
	Part # 7:	Part Descr	iption	Qty.		Used	Part \	
7	Comments:				\$			.00
	- Commonto							
	Part # 8:	Part Descr	iption	Qty.		Used	Part \	
8	Commenter				\$			.00
-	Comments:							
	<u> </u>							



TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VQA223031 TMS		TMS	QA-Chassis	FPE	TMS	15570-1	8/20/03	
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle	Base Vehicle Sequoia		2003	05-2003	200 mi	5TDZT34A13S		
Condition Title	Condition Title							
YAW SENSOR INACCURATE								

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
7/03/03		

## **Condition Description**

ABS, VSC lights "ON", code C1234 in memory.

- Condition occurred within 1 week after delivery.
- C1234 code indicates problem condition in Yaw Rate Sensor.

## **Diagnostic Steps:**

Technician tested sensor using scantool.

- Sensor will not read over 1° right yaw.
- Sensor reads normal at left yaw angles.

### **Probable Cause**

Internal condition in Yaw Rate Sensor.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
891800C020			Have part / will ship	TMMNA

## **Repair Process**

Replacing Yaw Rate Sensor corrected condition.



Yaw Rate Sensor label.

- Sensor will not read more than 1° right yaw.



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VQA223031 TMS		QA-Chassis	FPE	TMS	15570-1	8/20/03		
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle	Base Vehicle Sequoia		2003	05-2003	200 mi	5TDZT34A13S		
Condition Title								
YAW SENSOR INACCURATE								

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields. If the **Final Destination** field below is "**scrap**", properly dispose of the part.

TQCN Doc No.

ı	Final Destination:	TMMNA		SETR#:		CQE Er	ng:	N/A				
lm	porter: (Applies to TMC St	nipments Only)	Delive	r to:			住所:					
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:				宛先: Tel:					
T-STAR  Note: If this FTR contains more than one VIN, create a table in the report containing VIN, production date, and odometer										FOR C	USTOMS	S USE:
Not				n the report con	taining VIN, product	tion date, an	a oaome			Used	d Parts Va	alue
	Part # 1: 891800C020	Part Descr SENSO	•	Y, YAWRAT	E				Qty.	\$	d Part Va 50	alue .00
1	Comments: FTR-VEE313631 2T1KR32E93C054982			.,	_					<del></del>		
	Part # 2:	Part Descr	iption						Qty.		d Part Va	alue
2	Comments:								0	\$	0	.00
	Part # 3:	Part Descr	iption						Qty.		d Part Va	
3	Comments:								0	\$	0	.00
	Part # 4:	Part Descr	iption						Qty.		d Part Va	
4	Comments:									\$		.00
	Part # 5:	Part Descr	iption						Qty.	Used	d Part Va	alue
5	Comments:									\$		.00
	Comments.											
	Part # 6:	Part Descr	iption						Qty.	Used \$	d Part Va	alue .00
6	Comments:	I								Ψ		.00
	Part # 7:	Part Descr	iption						Qty.		d Part Va	
7 Comments:										\$		.00
	Part # 8: Part Description							Qty.	y. Used Part Value			
8	Comments:									\$		.00
	Confinents.											



TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VFA223331 TMS		QA-Chassis	FPE	TMS	19771-1	8/25/2003		
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle Sequoia		2003	08-2002	8806 mi	5TDBT44A33S			
Condition Title								
VSC Light "On" - Steering Angle Sensor								

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval							
07/03									

## **Condition Description**

• Customer complained that VSC light was illuminated (ON) and would remain on during all driving conditions.

## **Diagnostic Steps:**

Visual inspection, diagnostic codes and electrical checks.

## **Probable Cause**

 Probable root cause of complaint condition appears to be internal malfunction of steering sensor.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
892450C010			Have part / will ship	TMMNA

### **Repair Process**

 Replacement of rotation sensor corrected complaint condition and customer is satisfied with repairs.



 Steering sensor body was found not completely snapped together when inspected.



TQCN	N DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VFA223331 TMS		TMS	QA-Chassis	FPE	TMS	19771-1	8/25/2003	
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base	Base Vehicle Sequoia		2003	08-2002	8806 mi	5TDBT44A33S		
Condition Title								
VSC	VSC Light "On" - Steering Angle Sensor							

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields. If the **Final Destination** field below is "**scrap**", properly dispose of the part.

TQCN Doc No.

ı	Final Destination:	TMMNA		SETR#:		CQE Er	ng:	N/A				
lm	porter: (Applies to TMC St	nipments Only)	Delive	r to:			住所:					
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:				宛先: Tel:					
T-S	TAR											
Not	e: If this FTR contains more t	han one VIN, creat	e a table i	n the report con	taining VIN, product	tion date, an	d odome	ter			JSTOMS Parts Va	
	Part # 1: 892450C010	Part Descr SENSO		ERING				9	રty. 1	Used \$	Part Va	.00
1	1 892450C010 SENSC Comments: FTR-VEE313631 271KR32E93C054982			LIMINO					•	Ψ	<del></del>	.00
	Part # 2:	Part Descr	iption						Qty.		Part Va	
2	Comments:								0	\$	0	.00
	Part # 3:	Part Descr	iption						રેty.		Part Va	
3	Comments:								0	\$	0	.00
	Part # 4:	Part Descr	iption					(	Qty.	Used	Part Va	alue
4	Comments:									\$		.00
	Comments.											
	Part # 5:	Part Descr	iption						Qty.	Used \$	Part Va	alue .00
5	Comments:	<u> </u>								Ψ		.00
	Part # 6:	Part Descr	iption					(	Qty.		Part Va	
6	Comments:									\$		.00
	Part # 7:	Part Descr	iption						Qty.		Part Va	
7 Comments:										\$		.00
Part # 8: Part Desc			intion					T <sub>e</sub>	Qty.	Used	Part Va	alue
8			- F A						-	\$		.00
	Comments:											



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-VQA223931 TMS		TMS	QA-Chassis	FPE	TMS	19868-1	8/28/03	
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle Sequoia		2003	08-2003	12 mi	5TDZT34A93S			
Condition Title								
ABS & VSC Lights ON - Connector Damage								

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
8/19/03		

## **Condition Description**

VSC and TRAC warning lights "ON" at vehicle delivery to dealer.

- Code C1223 in memory (ABS control system)
- Code C1247 in memory (Delta S circuit, brake pedal acceleration measurement)

## **Diagnostic Steps:**

Physical inspection of component connections.

## **Probable Cause**

ABS connector at actuator broken during manufacture (see photo). Connector will not latch correctly to actuator.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	
821120C122			No part available	N/A

### **Repair Process**

Dealer ordered new harness to repair condition.



Connector broken in this area.



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date			
FTR-VQA223931 TMS		TMS	QA-Chassis	FPE	TMS	19868-1	8/28/03		
Problem Area	Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle	cle Sequoia		2003	08-2003	12 mi	5TDZT34A93S			
Condition Title	Condition Title								
ABS & VSC Lights	BS & VSC Lights ON - Connector Damage								

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields. If the **Final Destination** field below is "**scrap**", properly dispose of the part.

TQCN Doc No.

ı	Final Destination:	N/A		SETR#:		CQE Er	ng:	N/A				
lm	porter: (Applies to TMC SI	hipments Only)	Delive	r to:			住所:					
Ove TO Nis	rth America EDER Gr., Tecterseas Customer Service TYOTA MOTOR CORPORT. shin Education & Training (10, SAKAE, NISSHIN, AICH	echnical Div. ATION Center	Attn: Tel:				宛先: Tel:					
										FOR C	JSTOMS	USE:
Not	e: If this FTR contains more t			n the report con	taining VIN, product	tion date, an	d odome			Used	Parts Va	alue
_	Part # 1: 821120C122	Part Descr	iption						Qty.	Used \$	Part Va	alue .00
1	Comments: FTR-VEE313631 2T1KR32E93C054982								U	Ψ		.00
	Part # 2:	Part Descr	iption						Qty.		Part Va	
2	Comments:								0	\$	0	.00
	Part # 3:	Part Descr	iption						Qty.		Part Va	
3	Comments:								0	\$	0	.00
	Comments.											
	Part # 4:	Part Descr	iption						Qty.		Part Va	
4	Comments:									\$		.00
	D # 5.	D D	!4!						04	11	D( )/-	-1
_	Part # 5:	Part Descr	iption						Qty.	\$	Part Va	.00
5	Comments:	,						1	· ·			
	Part # 6:	Part Descr	iption						Qty.		Part Va	
6	Comments:									\$		.00
	Part # 7:	Part Descr	iption						Qty.		Part Va	alue
7	Comments:									\$		.00
	Commonio.		_				_			_	_	
	Part # 8:	Part Descr	iption						Qty.		Part Va	
8	Comments:									\$		.00



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date			
FTR-9DA224531 TCI		TCI	QA-Chassis	IDS	TCI-TOR	15570-1	9/4/03			
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):				
Base Vehicle	Vehicle Sequoia		2003	05-2003	2200 km	5TDBT48A83S				
VSC OFF/TRAC L	VSC OFF/TRAC Light "On", DTC C1234									

Do not type in Blue shaded fields - Input data from Web page or RDM:

		<u> </u>
Repair Date	Optional Ref.	Optional Approval
2003-07-16		

## **Condition Description**

 VSC OFF and TRAC lights turned on intermittently while driving on smooth and dry road in other word no need for VSC to work..

## Diagnostic Steps:

- Retrieving the DTC found DTC C1234 stored in the VSC ECU.
- No other DTC was stored in any other ECU.

### **Probable Cause**

Yaw sensor internal malfunction.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
891800C020			Have part / will ship	TMMNA

### **Repair Process**

Replace yaw rate sensor.

Parameter	Value	Units
TROUBLE CODE	C1234	
STOP LIGHT SW	OFF	
VSC/TRC OFF SW	OFF	
SYSTEM	NO SYS	
#IG ON	0	
VEHICLE SPD	66	MPH
STEERING ANG	-9	deg
YAW RATE	-11	deg/s
MAS CYL PRESS	0.45	٧
PEDAL STROKE	1.84	٧
MAS PRESS GRADE	0	MPa/s
STROKE GRADE	0	mm/s
G (RIGHT&LEFT)	0.03	G
G (BACK&FORTH)	-0.04	G
SPD GRADE	0.02	G
II.		





TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-9DA224531		TCI	QA-Chassis	IDS	TCI-TOR	15570-1	9/4/03
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle Sequoia		2003	05-2003	2200 km	5TDBT48A83S		
VSC OFF/TRAC L	_ight "On	", DTC C1234					

# Attachment 1: Parts Recovery Control Sheet

	Final Destination:	TMMNA		SETR#:		CQE E	ng:	N/A				
lm	porter: (Applies to TMC SI	hipments Only)	Delive	r to:			住所	i:				
Ov TC Nis 5-2 Jap	rth America EDER Gr., Teclerseas Customer Service ToyOTA MOTOR CORPORT Shin Education & Training Coron, SAKAE, NISSHIN, AICLORN	echnical Div. ATION Center H, 470-0113	Attn:		aning VIN and decided	tion data and	宛先 Tel	:		FO	R CUSTO	MS USE:
NO	te: If this FTR contains more t			n the report com	taining vin, produc	lion date, ar	ia oao	neter			sed Parts	
	Part # 1: 891800C020	Part Descr SENSO		Y, YAWRAT	E				Qty.	\$	sed Part إ	50 .00
1	Comments:			.,	_					•		
	D-11 # 0-	D-st D-s-s							04		I D	( )/-l
	Part # 2:	Part Descr	iption						Qty.	\$	sed Par	0 .00
2	Comments:									Ψ		0 .00
	Part # 3:	Part Descr	iption						Qty.	յ Տ	sed Par	t Value 0 .00
3	Comments:								U	Ψ		0 .00
		1							1_			
_	Part # 4:	Part Descr	iption						Qty.	\$	sed Par	t Value .00
4	Comments:	I							l	Ψ		.00
_	Part # 5:	Part Descr	iption						Qty.	\$	sed Par	t Value .00
5	Comments:	I							l	Ψ		
	D	1							I			
	Part # 6:	Part Descr	iption						Qty.	\$	sed Par	.00
6	Comments:								I	ΙΨ		
	D								۵.			
_	Part # 7:	Part Descr	iption						Qty.	\$	sed Par	.00
7	Comments:	<u> </u>							1	<u>, ~ </u>		
	Part # 8:	Part Descr	intion						Qty.	- 11	sed Par	t Value
0	1 art # 0.	i ait Desci	iption						æιy.	\$	ocu i ali	.00
8	Comments:											



TQCN DOC# Affilia		Affiliate	Dept.	Source	Location	Ref	Date			
FTR-J3A224831		TMS	QA-Chassis	FTS	REG-GST	19971-1	9/5/03			
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):					
Base Vehicle Sequoia		2003	04-2003	4337 mi	5TDZT34A93S					
Condition Title	Condition Title									
VSC Light "ON"	SC Light "ON" Wire Harness Open									

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval

## **Condition Description**

VSC, ABS, TRAC OFF, BRAKE lights are all "ON" in the dash. Cannot communicate with the ABS or VSC systems using the Toyota Scantool. Manually jumping pins TC and CG on the DLC3 connector code **42** (ECU Communication System Malfunction) **was** output.

## **Diagnostic Steps:**

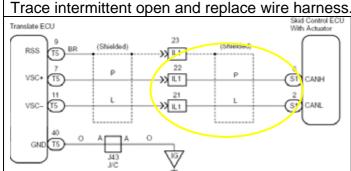
Voltage drop test performed on VSC+ and VSC- wires between Translate and Skid Control ECU's, finding open circuit. Moving the wire harness causes continuity loss on these wires.

### **Probable Cause**

Open circuits on Pink and Light Blue wires between Translate and Skid Control ECU's at the area where it passes through the bulkhead.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
821110C131			Have part / will ship	TMMNA

## **Repair Process**



Intermittent open between connector IL1 pins 22 & 21 and connector S1 pins 6 & 2.



Parts Tag 82111-0C131



TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date					
FTR-J3A224831 TM		TMS	QA-Chassis	FTS	REG-GST	19971-1	9/5/03					
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):						
Base Vehicle	Sequoia	a	2003	04-2003	4337 mi	5TDZT34A93S						
Condition Title	Condition Title											
VSC Light "ON"	Wire Ha	rness Onen			VSC Light "ON" Wire Harness Open							



82111-0C131 T15 00590 9 02

SEWS/CONTEC#3 Juanez Mexico

Assembled in Mexico

SEWS/CONTEC#3 Juarez Mexico

# T32R3PKS00590



TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date					
FTR-J3A224831		TMS	QA-Chassis	FTS	REG-GST	19971-1	9/5/03					
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):						
Base Vehicle Sequoia		2003	04-2003	4337 mi	5TDZT34A93S							
Condition Title												
VSC Light "ON" Wire Harness Open												

# Attachment 1: Parts Recovery Control Sheet

Final Destination: TMMNA												
Importer: (Applies to TMC Shipments Only)			Deliver to:	住所:	•							
North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan			Attn: Tel:	宛先: Tel:								
Note: If this FTR contains more than one VIN, create a table in the report containing VIN, production date, and odometer  FOR CUSTOMS USE: Used Parts Value												
	Part # 1:	Part Descr	ption									
1	821110C131	WIRE, E	ENGINE ROOM MAIN	1	\$		265 .	.00				
•	Comments:											
	Part # 2: Part Descr		iption	Qty.		Used P	art Val	lue				
				0				.00				
2	Comments:											
	Part # 3: Part Description Qty. Used Part Value											
_	Part # 3: Part Descri		ption					.00				
3	0   \$ 0.00   Comments:											
	Part # 4:	Part Descr	ption			Used P	art Val	lue				
4					\$			.00				
_		Comments:										
	Part # 5:	Part Descr	ription		\$	Used P						
5	Comments:							.00				
	Part # 6:	Part Description				Used P						
6	Comments:				\$			.00				
	Comments.											
	Part # 7:	Part Descr	iption	Qty.	\$	Used P	art Val	lue				
7								.00				
Comments:												
	Part # 8:	Part Descr	iption	Qty.		Used P						
8	Comments:				\$			.00				
	Comments.											
L	<u> </u>											



TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-7PA230031 TM		TMS	QA-Chassis	FTS	REG-LA	19316-1	10/27/03	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2004	10-2002	12103 mi	5TDZT34A03S		
Condition Title								
Seguoia Brake Fluid Leak								

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
10/23/03		

# **Condition Description**

• Customer complains of Brake Warning Lights on due to low Brake Fluid level.

### **Diagnostic Steps:**

- FTS removed Brake Master Cylinder from Brake Booster.
- Brake Fluid noted leaking from rear of Brake Master Cylinder.
- Brake Fluid noted inside Brake Booster.

### **Probable Cause**

Root cause unknown.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
472010C040	472000C060		Have part / will ship	TMMNA

### **Repair Process**

• Brake Master Cylinder and Brake Booster replaced.







TQCN DOC# Affili		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-7PA230031		TMS	QA-Chassis	FTS	REG-LA	19316-1	10/27/03	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2004	10-2002	12103 mi	5TDZT34A03S		
Condition Title								

Sequoia Brake Fluid Leak





TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-7PA230031 TM		TMS	QA-Chassis	FTS	REG-LA	19316-1	10/27/03	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2004	10-2002	12103 mi	5TDZT34A03S		
Condition Title								
Sequoja Brake Fluid Leak								





Attachment 1: PRCS



TQCN DOC# Affiliate		Affiliate	Affiliate Dept.		Location	Ref	Date		
FTR-7PA230031 TM		TMS	QA-Chassis	FTS	REG-LA	19316-1	10/27/03		
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):			
Base Vehicle	Sequoia		2004	10-2002	12103 mi	5TDZT34A03S			
Condition Title	Condition Title								
Sequoia Brake Flu	Sequoia Brake Fluid Leak								

# Attachment 1: Parts Recovery Control Sheet

Do not type in SHADED fields. If the Final Destination field below is

Orig Tracking

VIN



Doc No. "scrap", properly dispose of the part. SETR#: CQE Eng: N/A Final Destination: TMMNA Importer: (Applies to TMC Shipments Only) Deliver to: 住所: North America EDER Gr., Technical Dept. #1 Attn: Overseas Customer Service Technical Div. 宛先: TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center Tel: Tel: 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan T-STAR FOR CUSTOMS USE: Note: If this FTR contains more than one VIN, create a table in the report containing VIN, production date, and odometer Used Parts Value Used Part Value Part # 1: Part Description Qty. 472010C040 CYLINDER SUB-ASSY, BRAKE MASTER 1 39.00 1 Comments: Part # 2: Part Description **Used Part Value** Qty. 472000C060 1 0.00 2 Comments: **Used Part Value** Part Description Qty. 0 0.00 3 Comments Part # 4: Part Description **Used Part Value** Qty. .00 4 Comments: Part # 5: **Used Part Value** Part Description Qty. \$ .00 5 Comments: Part # 6: **Used Part Value** Part Description Qty. \$ .00 6 Comments: Part # 7: **Used Part Value** Part Description Qty. \$ .00 7 Comments: Part # 8: **Used Part Value** Part Description Qty. .00 8 Comments:



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date			
FTR-JUA231031 TMS		QA-Chassis	FTS	REG-CIN	20707-1	11/7/03			
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ters):		
Base Vehicle	Sequoia		2003	04-2003	10269 mi	5TDBT48A93S			
Condition Title									
DTC C1247 & C12	223 - PIN	l Wire							

Do not type in Blue shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
11/04/03		

### **Condition Description**

During a previous repair attempt, the Skid Control ECU was replaced to correct trouble codes C1223 and C1247. However, the vehicle returned to the dealership a short time later with the same trouble codes.

# Diagnostic Steps:

Upon further inspection, the technician discovered the "PIM" wire (yellow, pin #14) at the Skid Control ECU connector was routed too tightly in the harness.

#### **Probable Cause**

The tight harness routing of the "PIM" wire resulted in the "PIM" signal going "open" at times causing the trouble codes to be set.

Rt # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
N/A			No part available	N/A

#### **Repair Process**

The "PIM" wire was rerouted in the harness to reduce the tension on the connector. A wiggle test was performed on the harness and the vehicle was driven for 20 miles, to confirm the repair.



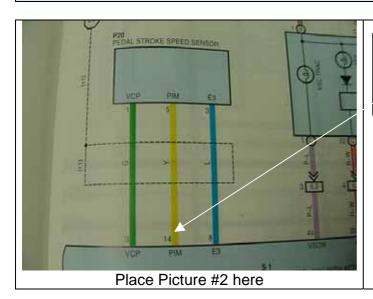
This is the skid control ECU with the connector unplugged.



This is the yellow "PIM" wire that was routed too tightly in the harness.



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-JUA231031 TMS		QA-Chassis	FTS	REG-CIN	20707-1	11/7/03		
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	04-2003	10269 mi	5TDBT48A93S		
Condition Title								
DTC C1247 & C1223 - PIM Wire								



This is the yellow PIM wire that was going open at times.



TQCN DOC# Affiliate		Dept. Source		Location	Ref	Date		
FTR-JUA231031 TMS		QA-Chassis	FTS	REG-CIN	20707-1	11/7/03		
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	04-2003	10269 mi	5TDBT48A93S		
Condition Title								
DTC C1247 & C1223 - PIM Wire								

# Attachment 1: Parts Recovery Control Sheet

Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the **Final Destination** field below is "**scrap**", properly dispose of the part.

ı	Final Destination:	N/A		SETR#:		CQE Er	ng:	N/A				
lm	porter: (Applies to TMC S	hipments Only)	Delive	r to:			住所:					
Ov TO Nis 5-2 Jap	North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan Note: If this FTR contains more than one VIN, creat			n the report con	taining VIN, product	tion date, an	宛先: Tel:	or .			CUSTON ed Parts	MS USE: Value
	Part # 1:	Part Descr	iption					[0	Qty.		ed Part	
1	N/A								0	\$		0 .00
•	Comments:											
	Part # 2:	Part Descr	iption					lo	Qty.	Use	ed Part	Value
2									0	\$		0 .00
_	Comments:											
	Part # 3:	Part Descr	iption					C	Qty.		ed Part	
3	Comments:								0	\$		0 .00
	Part # 4:	Part Descr	iption					C	Qty.	Us \$	ed Part	Value .00
4	Comments:	I								Ψ		.00
	Part # 5:	Part Descr	iption					C	Qty.		ed Part	
5	Comments:									\$		.00
	Part # 6:	Part Descr	iption					C	Qty.		ed Part	
6	Comments:									\$		.00
	Part # 7:	Part Descr	iption						Qty.		ed Part	
7	Comments:									\$		.00
	Comments.											
	Part # 8:	Part Descr	iption					C	Qty.		ed Part	
8	Comments:									\$		.00
_	Confinents.											
	<u> </u>											



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date	
FTR-7VA232131 TMS		QA-Chassis	FTS	REG-LA	19228-1	11/19/03	
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	se Vehicle Sequoia		2003	04-2003	40 mi	5TDZT34A23S	
Condition Title							
Skid Control ECU - DTC C1310							

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
10/23/03		

# **Condition Description**

Vehicle Trac/VSC Lights are illuminated during normal driving. DTC C1310 present at all times. Attempts to cancel code had no effect.

### **Diagnostic Steps:**

FTS verified that there were no circuit or loose pin connection concerns with circuits. The Technician had already replaced the Active Brake Booster. This did not resolve the issue.

### Probable Cause

Internal open or short circuit in the Skid Control ECU.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
895410C061			Have part / will ship	TMMNA

### **Repair Process**

Install new Skid Control ECU.



Attachment 1: PRCS



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date	
FTR-7VA232131	FTR-7VA232131 TMS		QA-Chassis	FTS	REG-LA	19228-1	11/19/03
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Sequoia		2003	04-2003	40 mi	5TDZT34A23S	
Condition Title							
Skid Control ECU - DTC C1310							

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking

VIN

Do not type in SHADED fields. If the  $\bf Final\ Destination$  field below is "scrap", properly dispose of the part.

Doc No. CQE Ena: N/A

ı	Final Destination:	TMMNA		SETR#:		CQE Er	ng:	N/A				
lm	porter: (Applies to TMC SI	nipments Only)	Delive	r to:			住所:					
Ov TO Nis	rth America EDER Gr., Tecterseas Customer Service T YOTA MOTOR CORPORT, shin Education & Training ( 10, SAKAE, NISSHIN, AICL	echnical Div. ATION Center	Attn: Tel:				宛先: Tel:					
T-S	TAR											
Not	e: If this FTR contains more t	han one VIN, creat	e a table i	n the report con	taining VIN, produc	tion date, an	d odomet	er			USTOM d Parts \	
	Part # 1: 895410C061	Part Descr	•	SKID CONTE	30I			C	રty. 1	Used \$	1 Part \ 260	Value 6 .00
1	Comments:	OOWII C	, i Lix, c	DIAID COIVII	(OL				•	Ψ	200	3 .00
	Part # 2:	Part Descr	iption						Qty.	Used	l Part \	<b>Value</b>
2										\$	(	00.0
_	Comments:											
	Part # 3:	Part Descr	iption						Qty. O	Used \$	l Part \	
3	Comments:								U	Φ		00.0
	Part # 4:	Part Descr	intion					10	Qty.	llser	l Part \	/alue
4		2000.	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						-	\$		.00
7	Comments:											
	Part # 5:	Part Descr	iption					C	Qty.		l Part \	
5	Comments:									\$		.00
	Part # 6:	Part Descr	intion					10	Qty.	Head	l Part \	/aluo
6	rait#0.	Fait Desci	iption						æιy.	\$	ıraıt	.00
O	Comments:											
	Part # 7:	Part Descr	iption					C	Qty.		l Part \	
7	Comments:									\$		.00
		<b>I</b>						T				
_	Part # 8:	Part Descr	iption						Qty.	Used \$	l Part \	Value .00
8	Comments:	l								•		
1												



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR TEMPLATE					51001		2/9/2004
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
	Sequoia		2003	12/2002	11278	5TDBT48A93S	
Condition Title							
MIL "ON" C1223	8. C12/17						

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
1/12/2004	04TR/05	

### **Condition Description**

"RED" brake warning lamp illuminates intermittently.

#### **Diagnostic Steps:**

Check brake reservoir fluid level & parking brake switch to be good. Found ABS codes C1223 & C1247 stored in memory. Concern happens very intermittently. Checked for code C1247 according to R.M. Checked circuit and connectors to be good. Wiggle tested. Replaced Skid ECU from 89541-0C060 to 89541-0C062. Performed Calibration per TSB BR003-03. Road tested untill red brake lamp illuminated when applying brakes while parking on a hill with the nose up. The same codes re-occurred and noticed inacurate freeze frame data. Data list showed speed of 40 mph and other data listed below. This same freeze frame data can be duplicated by unpluging the 3 wire pedal stroke sensor even without driving. Freeze frame data is misleading if trying to duplicating the concern under the same conditions. Replaced Brake Booster & road test to be good.

#### **Probable Cause**

Pedal stroke speed sensor malfunction.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
44610-0C040				

#### **Repair Process**

Replace brake booster assy.



Code C1247: FREEZE FRAME DATA LIST

Stop light switch ON VSC/TRC OFF switch OFF System NO SYS #IG ON 0 **SPD** 40 mph Steering Angle 18 deg Master cyl press 0.52 v Pedal Stroke 1.44 v Master Press Grade -3 MP a/s Stroke Grade 0 mm/s G (R & L) 0.002 G G (Back & Forth) -0.05 G Speed grade 0.00 G

Brake booster assy.
ABS with EBD & BA & TRAC & VSC System



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date	
FTR TEMPLATE					51001		2/9/2004	
Problem Area	blem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
	Sequoia		2003	12/2002	11278	5TDBT48A93S		
Condition Title								
MIL "ON" C1223 8	MIL "ON" C1223 & C1247							

Attachment 1: Parts Recovery Control Sheet

Orig Tracking VIN

Do not type in SHADED fields. If the **Final Destination** field below is "**scrap**", properly dispose of the part.

Doc No.

ı	Final Destination:			SETR#:		CQE E	ng:	N/A			
lm	porter: (Applies to TMC Shipmer	its Only)	Delive	r to:			住所:		•		
Ov TO Nis	rth America EDER Gr., Technical I erseas Customer Service Technical YOTA MOTOR CORPORTATION shin Education & Training Center 10, SAKAE, NISSHIN, AICH, 470- pan	al Div.	Attn: Tel:				宛先: Tel:				
T-S	TAR										
Not	e: If this FTR contains more than one	e VIN, creat	e a table i	n the report con	taining VIN, produc	tion date, an	d odometer		F	OR CUSTON Used Parts	iS USE: Value
	Part # 1:	Part Descr	iption					Qty	H .	Used Part	
1	Comments:								\$		.00
_	Part # 2:	Part Descr	art Description (				Qty	\$	Used Part	Value .00	
2	Comments:							<u> </u>	ĮΨ		.00
	Part # 3:	Part Descr	iption					Qty	1	Used Part	
3	Comments:								\$		.00
	Commonic.										
	Part # 4:	Part Descr	iption					Qty	. \$	Jsed Part	
4	Comments:								Φ		.00
	D . # 5	D . D						lac			
_	Part # 5:	Part Descr	iption					Qty	\$	Used Part	.00
5	Comments:							<u>'</u>			
	Part # 6:	Part Descr	iption					Qty		Jsed Part	Value
6	Comments:								\$		.00
	Comments.										
	Part # 7:	Part Descr	iption					Qty		Used Part	
7	Comments:								\$		.00
	Part # 8:	Part Descr	iption					Qty		Used Part	Value
8		50001	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					aty	\$	- 30 m i uit	.00
0	Comments:										



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-5BA211741 TMS		QA-Chassis	FTS	REG-SF	22291-1	4/27/2004		
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	02-2003	7041 mi	5TDZT34A93S		
Condition Title								
Brake warning lan	Brake warning lamp would turn on intermittently.							

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
4/15/2004		

### **Condition Description**

Brake warning lamp turns ON intermittently. Lamp will stay on until ignition key is cycled OFF. Translate and Skid Control ECU's have been replaced.

#### **Diagnostic Steps:**

Found codes C1223 and C1247 in Skid Control ECU memory. Created a Techview file with DTC's, freeze-frame, and snapshots. The pedal stroke sensor activity of this vehicle and a known good vehicle were captured and compared. Discovered sensor activity to differ when the brake pedal was released. On the known good vehicle, the sensor would fall below the threshold value for < 400mS. On the customer's vehicle, the sensor would fall below the threshold value for > 400mS (possibly for 500mS). The maximum period of time the ECU will allow the voltage to be below threshold is 500mS before storing a DTC.

### **Probable Cause**

Faulty pedal stroke sensor.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
446100C040			Have part / will ship	TMMNA

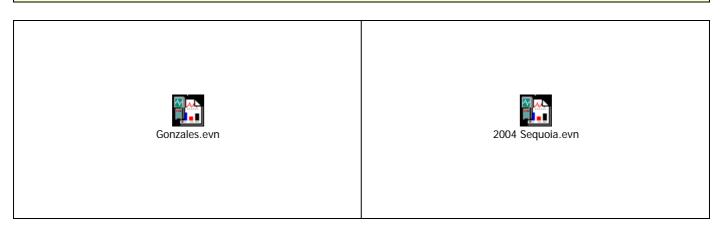
### **Repair Process**







TQCN DOC#	Affiliate		Dept.	Source	Location	Ref	Date	
FTR-5BA211741	741 TMS		QA-Chassis	FTS	REG-SF	22291-1	4/27/2004	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Sequoia		2003	02-2003	7041 mi	5TDZT34A93S		
Condition Title								
Brake warning lan	Brake warning lamp would turn on intermittently.							





TQCN DOC#	Affiliate		Dept.	Source	Location	Ref	Date	
FTR-5BA211741	<b>A211741</b> TMS		QA-Chassis	FTS	REG-SF	22291-1	4/27/2004	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):	
Base Vehicle	Sequoia		2003	02-2003	7041 mi	5TDZT34A93S		
Condition Title	Condition Title							
Brake warning lam	Brake warning lamp would turn on intermittently.							

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking VIN

Do not type in SHADED fields. If the **Final Destination** field below is "scrap", properly dispose of the part.

	not type in SHADED fields crap", properly dispose of the		nation fi	eld below is	Doc No.								
	Final Destination:	TMMNA		SETR#:			CQE E	ng:	N/	/A			
lm	porter: (Applies to TMC S	hipments Only)	Delive	r to:				住所	:				
Ov TO Nis 5-2	rth America EDER Gr., Tec erseas Customer Service T YOTA MOTOR CORPORT sshin Education & Training ( 210, SAKAE, NISSHIN, AIC coan	echnical Div. ATION Center	Attn: Tel:					宛先 Tel:					
T-S	TAR												
No	te: If this FTR contains more	than one VIN, creat	e a table i	n the report cont	taining VIN, p	roduc	tion date, ar	nd odor	neter			CUSTOMS ( ed Parts Val	
	Part # 1: 446100C040	Part Descr BOOST	-	SY, BRAKE						Qty.	Us \$	ed Part Val 103	
1	Comments:			<u> </u>							•		
	Part # 2:	Part Descr	iption							Qty.		ed Part Val	
2	Comments:									0	\$	0	.00
	Part # 3:	Part Descr	iption							Qty.	Us	ed Part Val	lue
3	Comments:									-	\$	0	.00
4	Part # 4:	Part Descr	iption							Qty.	Us \$	ed Part Val	lue .00
4	Comments:												
	Part # 5:	Part Descr	iption							Qty.		ed Part Val	
5	Comments:										\$		.00
	Part # 6:	Part Descr	iption							Qty.	Us	ed Part Val	lue
6	Comments:										\$		.00
	Part # 7:	Part Descr	intion							One	He	ed Part Val	lua
7		Part Descr	iption							Qty.	\$		.00
	Comments:												
_	Part # 8:	Part Descr	iption							Qty.	Us \$	ed Part Val	lue .00
8	Comments:	J									Ψ		



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-5YA212841A	TMS		QA-Chassis	FTS	REG-SET	22367-1	5/11/2004
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Sequoia	a	2003	02-2003	13376 mi	5TDZT34A23S	
Condition Title							
Seguoia contamin	ated rear	wheel ARS sen	eore				

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
02/17/04		

### **Condition Description**

FTS was inspecting this vehicle as a final repair attempt for VSC/TRAC light on. No abnormal conditions with the VSC/TRAC system were observed during this inspection. FTS inspected the wheel speed sensors as a precautionary measure as we have seen contaminated wheel speed sensors cause VSC/TRAC concerns in the past.

### **Diagnostic Steps:**

The vehicle was not malfunctioning at the time, but the rear wheel ABS speed sensors were found to be contaminated with what appeared to be rust and grease. The right rear reluctor wheel was found to be rusted.

### **Probable Cause**

The cause of the corrosion and rust is unknown.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
4351734010			Have part / will ship	TMMNA

#### **Repair Process**

The wheel speed sensors were cleaned and both reluctor wheels replaced.



Rusted right rear reluctor wheel



TQCN DOC#	Affiliate		Dept.	Source	Location	Ref	Date
FTR-5YA212841A	A TMS		QA-Chassis	FTS	REG-SET	22367-1	5/11/2004
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Sequoia		2003	02-2003	13376 mi	5TDZT34A23S	
Condition Title							
Sequoia contamin	ated rear	wheel ABS sens	sors				



Debris on right rear wheel speed sensor

Left rear reluctor (no rust )

Debris found on the left rear speed sensor

Attachment 1: PRCS



TQCN DOC#	Affiliate		Dept.	Source	Location	Ref	Date
FTR-5YA212841A	<b>A212841A</b> TMS		QA-Chassis	FTS	REG-SET	22367-1	5/11/2004
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Sequoia		2003	02-2003	13376 mi	5TDZT34A23S	
Condition Title							
Sequoia contaminated rear wheel ABS sensors							

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking

VIN



Do not type in SHADED fields. If the **Final Destination** field below is "**scrap**", properly dispose of the part.

Doc No.

ı	Final Destination:	TMMNA		SETR#: CQE Eng: N/A								
lm	porter: (Applies to TMC SI	hipments Only)	Delive	r to:			住所:					
Ov TO Nis	rth America EDER Gr., Teclerseas Customer Service T YOTA MOTOR CORPORT, shin Education & Training ( 10, SAKAE, NISSHIN, AIC pan	echnical Div. ATION Center	Attn: Tel:				宛先: Tel:					
										FOR	CUET	OMS USE:
Not	e: If this FTR contains more t			n the report con	taining VIN, product	tion date, an	d odomet	er				ts Value
	Part # 1: 4351734010	Part Descr		CONTROL,	DD				Qty. 2	Us \$	ed Pai	rt Value 1 .00
1	Comments:	ROTOR	, SKID	CONTROL,	NN				2	φ		1 .00
	_							ı				
	Part # 2:	Part Descr	iption						Qty.	Us \$	ed Pai	rt Value
2	Comments:								U	Ψ		0 .00
	Part # 3:	Part Descr	iption						Qty.		ed Pa	rt Value
3	Comments:								0	\$		0 .00
	Part # 4:	Part Descr	iption						Qty.	Us	ed Pai	rt Value
4									-	\$		.00
_	Comments:											
	Part # 5:	Part Descr	iption						Qty.	Us \$	ed Pai	rt Value .00
5	Comments:									Ψ		.00
	Part # 6:	Part Descr	iption						Qty.	Us	ed Pa	rt Value
6	Comments:									\$		.00
	Part # 7:	Part Descr	iption						Qty.	Us \$	ed Pai	rt Value .00
7	Comments:	l								Ψ		.00
	Part # 8:	Part Descr	iption						Qty.	Us	ed Pai	rt Value
8										\$		.00
	Comments:											



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-9DA216141		TCI	QA-Chassis	IDS	TCI-TOR	19744-1	6/10/2004
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Sequoia		2003	03-2003	30810 km	5TDBT48A03S	

#### Condition Title

Brake Pedal Stroke Sensor Malfunction, DTC C1247

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
2004-06-08		

### **Condition Description**

- Brake (!) warning lamp turns "ON" intermittently.
- Lamp will stay on until ignition key is cycled OFF.

#### **Diagnostic Steps:**

- Check for codes, found codes C1203, C1223 and C1247 in skid control ECU.
- Monitor the pedal stroke sensor voltage using TDT and tech view, no abnormality was found.

# Repair history:

Translate and Skid Control ECUs have been replaced.

### **Probable Cause**

Faulty pedal stroke sensor.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
446100C040			Have part / will ship	TMMNA

### **Repair Process**

· Replace brake booster assembly.

# Diagnostic Trouble Codes

DTC Type: Current DTCs

OBD Mode: MOBD

Num	ECU/Sy	Description
C1203	ABS/VSC	Engine control system communication circuit malfunction
C1223	ABS/VSC	Malfunction in ABS control system
C1247	ABS/VSC	Malfunction in stroke sensor

DTCs stored in the ABS/VSC ECU



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-9DA216141		TCI	QA-Chassis	IDS	TCI-TOR	19744-1	6/10/2004
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ters):
Base Vehicle	Sequoia	а	2003	03-2003	30810 km	5TDBT48A03S	

Parameter	Value	Units	
TROUBLE CODE STOP LIGHT SW VSC/TRC OFF SW SYSTEM # IG ON VEHICLE SPD STEERING ANG YAW RATE MAS CYL PRESS PEDAL STROKE MAS PRESS GRADE STROKE GRADE G (RIGHT&LEFT) G (BACK&FORTH) SPD GRADE	C1247 OFF OFF NO SYS 0 85 -27 -7 0.52 1.52 -7 -20 -0.30 -0.11 -0.05	km/h deg deg/s V V MPa/s mm/s G G	FFD of the DTC C1247.
E:\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			← Tech View file



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-9DA216141		TCI	QA-Chassis	IDS	TCI-TOR	19744-1	6/10/2004
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Sequoia	а	2003	03-2003	30810 km	5TDBT48A03S	

Orig Tracking

# Attachment 1: Parts Recovery Control Sheet

Do not type in SHADED fields. If the **Final Destination** field below is "**scrap**", properly dispose of the part.

"sc	"scrap", properly dispose of the part.												
	Final Destination:	TMMNA		SETR#:			CQE Er	ng:	N/A	<b>\</b>			
Im	porter: (Applies to TMC Sh	nipments Only)	Delive	r to:				住所	:				
Ov	rth America EDER Gr., Tech erseas Customer Service Te YOTA MOTOR CORPORTA	echnical Div.	Attn:					宛先	:				
Nis	shin Education & Training C	Center	Tel:					<b>-</b> .					
	10, SAKAE, NISSHIN, AICH							Tel:					
Jap	oan												
T-S	TAR						III						
No	e: If this FTR contains more t	han one VIN, create	e a table i	n the report cont	aining VIN, p	roduc	tion date, an	d odom	neter			CUSTON ed Parts	
	Part # 1:	Part Descri								Qty.		ed Part	
1	446100C040 Comments:	BOOST	ER AS	SY, BRAKE						1	\$	10	3 .00
	Commonto.												
	Part # 2:	Part Descr	iption							Qty.		ed Part	
2	Comments:									0	\$		0.00
	Part # 3:	Part Descr	iption							Qty.	Us \$	ed Part	Value 0 .00
3	Comments:									0	Ψ		0 .00
		1											
	Part # 4:	Part Descri	iption							Qty.	\$	ed Part	Value .00
4	Comments:										ĮΨ		
	Part # 5:	Part Descri	intion							Qty.	Ша	ed Part	Value
_	Fait # 5.	Part Descri	iption							Qiy.	\$	au Part	.00
5	Comments:									l.			
	Part # 6:	Part Descr	iption							Qty.	Us	ed Part	Value
6			•								\$		.00
U	Comments:												
	Part # 7:	Part Descri	iption							Qty.		ed Part	Value
7	Comments										\$		.00
-	Comments:												
	Part # 8:	Part Descri	iption							Qty.		ed Part	
8	Comments:										\$		.00
	Comments.												



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-J2A220841		TMS	QA-Chassis	FTS	REG-GST	22366-1	7/27/2004
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charact	ters):
Base Vehicle	Sequoia		2003	08/02	37205 mi	5TDZT34AX3S	
Condition Title							
2003 Seguoia Dec	el Senso	r C1244					

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
07-12-04		

# **Condition Description**

VSC and Trac MIL on codes C1223 and C1244.

# **Diagnostic Steps:**

Inspect ABS/VSC data on scan tool. Follow trouble code diagnosis.

#### **Probable Cause**

Open circuit in deceleration sensor

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
891800C020			Have part / will ship	TMMNA

# **Repair Process**

Replace Yaw/Decel sensor.





Sensor Label's



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-J2A220841		TMS	QA-Chassis	FTS	REG-GST	22366-1	7/27/2004
Problem Area	roblem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle Sequoia		2003	08/02	37205 mi	5TDZT34AX3S		
Condition Title							
2003 Sequoia Decel Sensor C1244							

# Attachment 1: Parts Recovery Control Sheet

Do not type in SHADED fields. If the Final Destination field below is

Orig Tracking

VIN Doc No.



"scrap", properly dispose of the part. SETR#: CQE Eng: N/A Final Destination: TMMNA Importer: (Applies to TMC Shipments Only) Deliver to: 住所: North America EDER Gr., Technical Dept. #1 Attn: Overseas Customer Service Technical Div. 宛先: TOYOTA MOTOR CORPORTATION Nisshin Education & Training Center Tel: Tel: 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan T-STAR FOR CUSTOMS USE: Note: If this FTR contains more than one VIN, create a table in the report containing VIN, production date, and odometer Used Parts Value Used Part Value Part # 1: Part Description Qty. 891800C020 1 0.00 1 Comments: Part # 2: Part Description **Used Part Value** Qty. 0 0.00 2 Comments: **Used Part Value** Part Description Qty. 0 0.00 3 Comments: Part # 4: Part Description **Used Part Value** Qty. .00 4 Comments: Part # 5: **Used Part Value** Part Description Qty. \$ .00 5 Comments: Part # 6: **Used Part Value** Part Description Qty. \$ .00 6 Comments: Part # 7: **Used Part Value** Part Description Qty. \$ .00 7 Comments: Part # 8: **Used Part Value** Part Description Qty. .00 8 Comments:



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-5BA214751		TMS	QA-Chassis	FTS	TMS-SF	27461-1	6/3/2005
Problem Area	roblem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Base Vehicle Sequoia		2003	05-May-2003	16326 mi	5TDBT48A13S	
Condition Title							
Brake, ABS, TRAC and VSC warning lamps on intermittently.							

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
13-MAY-2005		

# **Condition Description**

The Brake, ABS, TRAC, and VSC warning lamps illuminate intermittently.

### **Diagnostic Steps:**

- Attempted to retrieve diagnostic codes from the Skid Control ECU and could not establish communication with the scan tool.
- Code 42 was retrieved manually.
- At times, communication could be established with the Skid Control ECU, and only code C1232 (Deceleration Sensor Malfunction) would be found.
- The vehicle had the updated Translate ECU installed (89630-0C011).
- The Skid Control ECU was replaced with a known good unit, and the condition was corrected.

### **Probable Cause**

Unknown				
Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
895410C061			Have part / will ship	CQEC

### **Repair Process**

# Replaced Skid Control ECU (89541-0C062).







TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date			
FTR-5BA214751 TMS		TMS	QA-Chassis	FTS	TMS-SF	27461-1	6/3/2005		
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):		
Base Vehicle	Sequoia		2003	05-May-2003	16326 mi	5TDBT48A13S			
Condition Title									
Brake, ABS, TRAC and VSC warning lamps on intermittently.									

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking

VIN

Do not type in SHADED fields. If the **Final Destination** field below is "**scrap**", properly dispose of the part.

Doc No.

ı	Final Destination:	CQEC		SETR#:		CQE Er	ng:	N/A				
lm	porter: (Applies to TMC S	hipments Only)	Delive	r to:			住所	ī:				
Qu TO 1 T	N. Okumura, Chief Expert ality Div. Warranty Parts Ro YOTA MOTOR CORPORA oyota, Toyota-city, Aichi, 43 oan	oom TION	Attn: Tel:				宛先 Tel:					
	T-STAR IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								FO	R CUSTON	MS IISE:	
Not	e: If this FTR contains more t			n the report cont	taining VIN, produc	tion date, an	ıd odoı	meter		ι	Jsed Parts	Value
	Part # 1: 895410C061	Part Descr		SKID CONTE	ROI				Qty.	\$	sed Part	Value 66 .00
1	Comments:	OOM	/ I L I X , C	ONID CONTI	(OL					Ψ		0 .00
									0.4			
	Part # 2:	Part Descr	iption						Qty.	\$	sed Part	0 .00
2	Comments:									<u> </u>		0 100
	Part # 3: Part Description							Qty.		sed Part		
3	Comments:							0	\$		0.00	
	Part # 4:	Part Descr	iption						Qty.		sed Part	
4	Comments:									\$		.00
		<u> </u>										
_	Part # 5:	Part Descr	iption						Qty.	\$ \$	sed Part	.00
5	Comments:	<b> </b>										
	Part # 6:	Part Descr	iption						Qty.	U	sed Part	Value
6	e la companya de la companya della companya della companya de la companya della c									\$		.00
	Comments:											
	Part # 7:	Part Descr	iption								sed Part	
7	7 Comments:							\$		.00		
	Part # 8: Part Description							Qty.		sed Part		
8	Comments:									\$		.00



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-J3A215751 TMS		TMS	QA-Chassis	FTS	TMS-GST	27527-1	6/7/2005	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):	
Base Vehicle	Sequoia		2003	17-Jan-2003	37657 mi	5TDBT48AX3S		
Condition Title								
Brake Light								

Do not type in YELLOW shaded fields - Input data from Web page or RDM:

Repair Date	Optional Ref.	Optional Approval
25-MAY-2005		

### **Condition Description**

Customer states the "BRAKE" light comes on when driving.

# Diagnostic Steps:

- At the time of technician inspection the key had not been cycled "OFF" and code C1247 was found stored in the VSC system. The Freeze Frame Data for code C1247 is attached to the Repair Order below.
- The key was cycled "OFF" and the VSC code could did not return.
- The Yellow stroke sensor wire at the ABS Actuator S1 connector Pin#14 was inspected finding a tight wire tension, pulling on the wire and denting the wire covering.

#### **Probable Cause**

Unknown				
Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
472000C060			Have part / will ship	CQEC

#### **Repair Process**

• The brake booster was replaced

The brake booster was replaced.	
<ul> <li>The tension at S1 connector pin# 14 was r</li> </ul>	eleased and the pin fit for both ends of the pedal
stroke sensor Yellow wire were tightened.	
	Freeze Frame Data for Code C1247
	TROULBEL CODEC1247 STOP LIGHT SWON
	VSC/TRC OFF SWOFF
	SYSTEMNO SYS
and the second s	# IG ON0
A	VEHICLE SPD6MPH
Repair Order.pdf	STEERING ANG18deg
Kepali Order.pdi	YAW RATE0deg/s
	MAS CYL PRESS0.54V
	PEDAL STROKE1.36V
	MAS PRESS GRADE2MPa/S
	STROKE GRADE0mm/s
	G (RIGHT&LEFT)0.01G
	G (BACK&FORTH)0.07G
	SPD GRA0.7G



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date			
<b>FTR-J3A215751</b> TMS		TMS	QA-Chassis	FTS	TMS-GST	27527-1	6/7/2005		
Problem Area	Primary Model		Model Year	Production Date	Odometer VIN (confirm 17 characters		ters):		
Base Vehicle	Sequoia		2003	17-Jan-2003	37657 mi	5TDBT48AX3S			
Condition Title									
Brake Light									



Brake Booster Part# 47200-0C060



47200-0C060 26.7859-0801.4

20922685908010143111432



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-J3A215751 TMS		TMS	QA-Chassis	FTS	TMS-GST	27527-1	6/7/2005	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):	
Base Vehicle	Sequoia		2003	17-Jan-2003	37657 mi	5TDBT48AX3S		
Condition Title								
Brake Light								

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking

VIN



Do not type in SHADED fields. If the **Final Destination** field below is "**scrap**", properly dispose of the part.

Doc No.

	Final Destination:	CQEC		SETR#:		CQE Er	ng: N/A					
lm	porter: (Applies to TMC S	hipments Only)	Delive	r to:			住所	:				
Qu TO 1 T	. N. Okumura, Chief Expert ality Div. Warranty Parts Ro YOTA MOTOR CORPORA oyota, Toyota-city, Aichi, 4 oan	oom TION	Attn: Tel:				宛先 Tel:					
T-S	STAR											
No	te: If this FTR contains more	than one VIN, creat	e a table i	n the report cont	taining VIN, produc	tion date, an	d odor	neter			sed Part	OMS USE: ts Value
	Part # 1: 472000C060	Part Descr	iption						Qty.	U: \$	sed Par	rt Value 0.00
1	Comments:									Ψ		0 .00
	Part # 2: Part Description								<b>0</b> :			
	Part # 2:	Part Descr	iption						Qty.	\$	sed Pai	rt Value 0.00
2	Comments:											
	Part # 3: Part Description							Qty.		sed Par	rt Value	
3	Comments:								0	\$		0 .00
		1-						1				
١.	Part # 4:	Part Descr	ription						Qty.	\$ \$	sed Par	rt Value .00
4	Comments:	Į.						L		<del></del>		
	Part # 5:	Part Descr	iption						Qty.	U	sed Pa	rt Value
5	Comments:									\$		.00
	Comments:											
	Part # 6:	Part Descr	iption						Qty.		sed Par	rt Value
6	Comments:											
	Part # 7:	Part Descr	ription						Qty.	U	sed Par	rt Value
7	7								\$		.00	
	Comments:											
	Part # 8:	Part Descr	iption						Qty.		sed Par	rt Value
8	Comments:									\$		.00



TQCN DOC#			Affiliate	Dept.			Ref	Dat	e								
TQCN_FTR-092010097		97	TMS	QAChassis			80273555	07	/21/2009								
Primary Model		Model Year Production Date Odometer VIN			Rep	pair Date											
Sequoia		2003	2002-12-20	)	84724	5TDBT48A93S	TDBT48A93S 7/2										
Source	Location	•	Problem Area		Parts Destination	DTC	DTC										
FTS	REG-CII	N	Base Vehicle	Э	2710	C1223,C1231,C1247											
Part # 1		Part # 1 Serial/D	ate Code		Part # 2	e Code		Parts Available									
895410C062	2								Part(s) Available								
Condition Title																	
Vsc/Trac light on C1223,C1231,C1247,C1360.																	

Part # 1 895410C062	Part # 1 Serial/Date Code	Part # 2	Part # 2 Serial/Date Code	Parts Available Part(s) Available
Condition Title Vsc/Trac light on C1	223,C1231,C1247,C1360.			
Condition Descript				
	he Vsc/Trac light is on and vehic	cle makes unusual s	sound while driving.	
	J		J	
Diagnostic Steps		7.04000		
The technician fou	und codes C1223, C1231, C124	7, C1360.		
Probable Cause				
Cause unknown a	t this time.			
Repair Process				
	placed the skid control ecu.			
'				
	N			
	No photos available			

TQCN\_FTR 12/12/2008 ver. 2.6 Page 1



Parts Value

TQCN DOC#		Condition Title			Date				
TQCN_FTR-092010097		Vsc/Trac light on C1223,C1231,C1247,C1360.		07/21/2009					
Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 chara					
Seguoia	2003	2002-12-20	84724	5TDBT48A93S					

VIN

Orig Tracking

Doc No.

# Attachment 1: Parts Recovery Control Sheet

Do not type in SHADED fields. If the Final Destination field below is "scrap", properly dispose of the part.

CQE Eng: **Final Destination:** 2710 SETR#: N/A Importer: (Applies to TMC Shipments Deliver to: Only) Attn: Mr. N. Okumura, Chief Expert Quality Div. Warranty Parts Room Tel: Tel: TOYOTA MOTOR CORPORATION 1 Toyota, Toyota-city, Aichi, 471-8571 Japan T-STAR FOR CUSTOMS USE: Used Note: If this FTR contains more than one VIN, create a table in the report containing VIN, production date, and odometer

4	Part # 1:	Part Description		Qty.	Used Part Value Each
1	895410C062	COMPUTER, SKID CON	ITROL	1	\$ 201.44
	Serial No. / Date Code	,	Comments:		1 - 1
2	Part # 2:	Part Description		Qty.	Used Part Value Each
					\$
	Serial No. / Date Code		Comments:		
3	Part # 3:	Part Description		Qty.	Used Part Value Each
7					\$
	Serial No. / Date Code		Comments:		
4	Part # 4:	Part Description		Qty.	Used Part Value Each
					\$
	Serial No. / Date Code		Comments:		
5	Part # 5:	Part Description		Qty.	Used Part Value Each
5					\$
	Serial No. / Date Code		Comments:		
6	Part # 6:	Part Description		Qty.	Used Part Value Each
O					\$
	Serial No. / Date Code		Comments:		
7	Part # 7:	Part Description		Qty.	Used Part Value Each
1					\$
	Serial No. / Date Code		Comments:		

TQCN\_FTR 12/12/2008 ver. 2.6 Page 2