

TOCN DOC#: EVRG101821C	RTS#: 13412-1	RTS Disposition: Forward	TMS QA Dept: QA-Powertrain	Assigned PE: STEGERT	Harris Control	Distribution Date: 1/24/02
Report Source: FPE	Primary Model: ES 300	Model Year: 2002	Production Date: 10-2001	Miles: 1105	VIN: (CONFIRM 17 JTHBF30G420	
Condition Title: SURGE ON ACCI	ELERATION - A	VF SENSOR F	FAILURE	Author: MATT HENNES	SEY	Dealer Code: 64204

Problem Area: 🛛 Base Ve	hicle   D. PPO/DIO	Problem Type:   Mai	nufacturing   Design   Design	Durability   🛛 New Model	
Optional Approval:	Ref#: 18391	Repair Date:	1	Dealer Name:	
Condition Description:	19391	1/18/02	Sev	vell Lexus	
	e vehicle surges when	accolorating from	o oton	<u> </u>	
	o vernoic surges wrier	accelerating from	a stop.		
No Diagnostic Trou	ble Codes are present.			surge.zip	
A Snapshot was ta	ken with the Scan Tool	and it attached to	this document	Suige.zip	
Probable Cause:	The state of the s	and it attached to	uns document.		
The Short Fuel Trin	n #1 is very erratic.				
When the throttle is	opened short fuel trim	goes to 19.5%. W	hen the throttle is o	losed it is _14%	
eve sensor failure	_			1470	
Failed Part # 1:	Falled Part # 2;	alled Part # 3:	Part shipped to: / Date:	Attachment:	
3946733060			Tom Steger 1/18/02	Part/picture/snapsho	
Remedy:				— f	
replacing the Bank	1 A/F sensor repaired	the vehicle.			
Production Date of	AVE Selisor 09C29				
		1	<del></del>		
	11				
		n)			

Failed Part

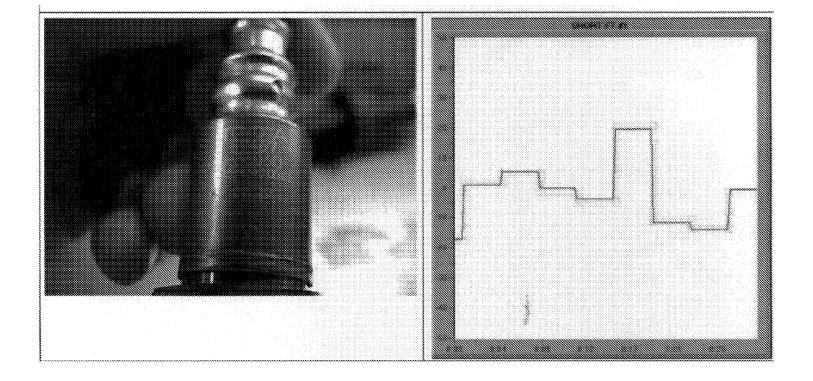
Short FT#1



TQCN DOC#: RTS#: EVRG101821C 13412-1	RTS Disposition: Forward	TMS QA Dept: QA-Powertrain	Assigned PE: STEGERT		Distribution Date: 1/24/02
Report Source: Primary Model: FPE ES 300	Model Year: 2002	Production Date: 10-2001	Miles: 1105	VIN: (CONFIRM 17 JTHBF30G420	
Condition Title: SURGE ON ACCELERATION - A	/F SENSOR F	AILURE	Author: MATT HENNES	SSEY	Dealer Code: 64204

# **Parts Recovery Control Sheet**

S	hip to TMS		e: <b>211</b> 5		99 Chassis -		ping Trac		y/Paint - 2799 Accessory - 3500
	Date Shipped 1/25/02			1	ort Name			Qty.	Comments:
1	1/25/U2 VIN#	89467-33			/f sensor	<del></del>		1	Shipped to Tom Steger
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Proc	d. Date	Repair Date	Mileage	Unit Cos	t (1/4)	
_	Date Shipped	Part Numb	per	Pa	rt Name	-l		Qty.	Comments:
2	VIN#		Proc	i. Date	Repair Date	Mileage	Unit Cos	t (1/4)	
_	Date Shipped	Part Numb	er	Pa	rt Name			Qty.	Comments:
3	VIN#		Prod	l. Date	Repair Date	Mileage	Unit Cos	t (1/4)	
	Date Shipped	Part Numb	er	Pa	rt Name	<u> </u>		Qty.	Comments:
4	VIN#	<u> </u>	Prod	. Date	Repair Date	Mileage	Unit Cost	(1/4)	
	Date Shipped	Part Numb	er	Pai	rt Name			Qty.	Comments:
5	VIN#		Prod	. Date	Repair Date	Mileage	Unit Cost	(1/4)	
	Date Shipped	Part Number	er	Par	t Name	<u> </u>		Oty.	Comments:
6	VIN#		Prod.	Date	Repair Date	Mileage	Unit Cost	(1/4)	
	Date Shipped	Part Number	or	Par	t Name			Qty.	Comments:
7	VIN#		Prod.	Date	Repair Date	Mileage	Unit Cost	(1/4)	
	Date Shipped	Part Numbe	r	Part	Name			Qty.	Comments:
8	VIN#	<u></u>	Prod.	Date	Repair Date	MHeage	Unit Cost	(1/4)	
Des	stination:	Circle One TMC	ТММ	NA	(	Other:	<u>L</u>		
-or	PRC Use:	Date Received	Date Shipped	No	t Found	Located			Notes





TOCH DOC		RTS#: 14867-1	RTS Disposition: Forward	TMS QA Dept: QA-Powertrain	Assigned PE: JARBOEM	Distribution Da 3/21/02
Location: TMS	Source: FPE	Primary Model: Camry	Model Year: 2002	Production Date:	Miles: 2610	VIN: (CONFIRM 17 DIGITS) 4T1BF30K82U
Condition Electro		rol ECM Surge	•		Author: KEVIN PILO	Dealer Code:

Problem Area: 🛛 Ba	se Vehicle   PPO/DIO	Problem Type: Man	ufacturing   Design   Design	Durability   New Model
Optional Approval:	Ref#:	Repair Date:	Dea	aler Name:
		3/12/02	Mod	dern Toyota
Condition Descrip	tion:			
temperature. V	Vriter was able to dupli	e surge on light to mode cate condition by holding vas going into fuel cut. N	g engine speed in F	Park at 3500 RPM for
Probable Cause:				
Short Term Fu defective.	el Trim, AF B1 S1, ran	ged from -16% to +16%	; rapidly fluctuating	. A/F sensor
Failed Part # 1:	Failed Part # 2:	Failed Part # 3:	Part shipped to: / Date:	Attachment:

8946733060 Remedy:

Technician replaced A/F sensor B1 S1 to correct condition.



Picture of defective A/F sensor

See below

Delete This Comment & Place Picture #2 here

Delete This Comment & Place Caption #2 here



# TOYOTA FIELD TECHNICAL REPORT

# CBU

DISTRIBUTOR 'S NAME TMS/USA	COUNTRY USA/LA	RTS NO.	APPROVAL DATE	REF	ERENCE	REPO	ORT NO.	Page 1	ATTACHMENTS
		14915-1	3/27/02			FPC	(108521		
VIN/FRAME NO.	ENGINE NO	KM	PRODUCTIO	N DATE	PURCHASE	DATE	REPAI	R DATE	]
JTDBF32K420		MILES							

MODEL:

Camry

SUBJECT:

2002MY Camry (1MZ-FE) Engine "Surging" at Cruise

### **EARLY WARNING REPORT**

### INTRODUCTION:

The purpose of this communication is to report and summarize TMS concern with 2002MY Camry (1MZ-FE) Engine Surging at Cruise. TMS has identified an emerging issue with the 2002MY Camry and a "surging" condition that appears most often at steady cruising speeds. Initially this "surging" condition was thought to be directly related to the previously reported issue of A/F Ratio Sensor Failure for 2002MY ES 300 and Camry (1MZ-FE). The FTR document providing technical details for A/F Ratio Sensor Failure and the resulting "surging" condition is FTR #FPZG104521 dated 2/24/02. Vehicles are now being identified that exhibit this "surging" condition with no MIL "ON" and no obvious abnormal operation of the A/F Ratio Sensors.

### **CONDITION:**

Customers and dealership technicians describe a "surging" or "slight misfire" sensation that can be felt mostly when cruising at a steady rate of speed but can also occur under acceleration. The most common scenario is detailed below:

### **Cruising Condition:**

- · Engine is at normal operating temperature
- No MIL "ON" or DTC present
- Steady vehicle cruising speed (between 40 45mi/h / 64 72km/h) on smooth road surface
- Transmission can be in either 3<sup>rd</sup> or 4<sup>th</sup> gear
- TCC (Torque Converter Clutch) can be either locked or unlocked
- · Disabling the EGR System does not affect the condition

02MY V6 カムリのサージ苦情について、

ご報告いたします。

引き続き、市場から詳細状況を収集して まいります。

添付データを調査・解析いただきますよう

藤原

お願いいたします。

### **Acceleration Condition:**

- · Engine is at normal operating temperature
- No MIL "ON" or DTC present
- Vehicle is under light to moderate acceleration (21 30% Throttle Angle) on smooth road surface
- · Can be reproduced starting from a stop or moderate acceleration from steady cruising speed

The following TechView snapshots have been captured for each condition described above and are attached with the vehicle information.

Writer	SUPERVISOR/DEPT. MANAGER	JAPAN STAFF
Michael Jarboe	Gary Heine	NAOMITSU KAWAKAMI

PLEASE DO NOT PLACE TEXT BELOW THIS LINE FTR-CBU TEMPLATE (ver. 3/99)

DISTRIBUTOR'S NAME	COUNTRY	RTS NO.	APPROVAL DATE	REFERENCE	REPORT NO.	Page
TMS/USA	USA/LA	14915-1			FPCK108521	2

### **TECHVIEW DATA:**

VIN	P/D	Miles -	Condition
JTDBF32K420	11/01	1,558	Described as "surging" or "erratic hesitation" by customer



"02 Camry Surge.zip'

The attached TechView file above contains 3 separate snapshots:

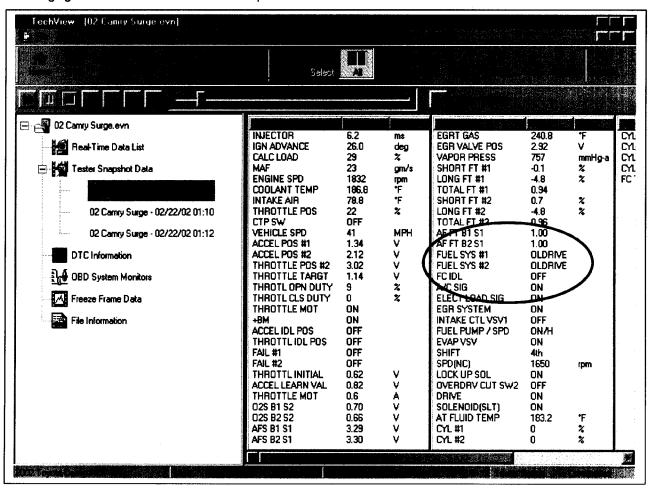
Snapshot #1 (02 Camry Surge - 02/22/02 01:08) is surge during acceleration from 40 - 60mi/h

Snapshot #2 (02 Camry Surge - 02/22/02 01:10) is surge during steady cruise @ 40 - 42mi/h

Snapshot #3 (02 Camry Surge - 02/22/02 01:12) is also surge during steady cruise @ 39 - 40mi/h

\*None of the captured snapshots indicate any malfunction or abnormal operation of the A/F Ratio Sensors. Both sensors had been replaced in an attempt to correct the "surging" condition but had no effect.

In Snapshot #1, during acceleration the FUEL SYS #1 and FUEL SYS #2 are in "OLDRIVE" status instead of "CL" or closed loop status until 2.8 seconds into the Snapshot. This is the only abnormality apparent in the Data List during the "surging" condition. Please see screen capture below:



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### REMEDY:

There is no corrective action available at this time.

### **MARKET SUMMARY:**

Due to the early detection and identification of this issue, Warranty Data is not yet available related to this condition. TMS has received 1 Early Warning Report with an additional 5 cases of 2002MY Camry (1MZ-FE) with the "surging" issue outlined above. TMS QAP Product Engineer has discussed and reviewed this condition with the TMC Mr. MIL (Mr. Miura) representative. Mr. MIL has been able to duplicate the "surging" condition on a TMS Internal Fleet Vehicle and is currently reviewing possible causes.

### **REQUESTS:**

TMS requests TMC to investigate this issue to determine the root cause for the "surging" condition. Determine if the A/F Ratio Sensor(s) play any role in the occurrence of this condition. Provide T.I. and Draft TSB.

Distribution List (email notification):
View Access:
Reviewers:
INTRODUCTION:
CONDITION:
CAUSE:
REMEDY:
MARKET SUMMARY:
REQUESTS:
MARKET INFORMATION:

DISTRIBUTORS	COUNTRY	RTS NO.	APPROVAL DATE	REFERENCE	REPORT NO.	Page
NAME						
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### **TECHVIEW DATA:**

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.TDHF32K420	



"02 Carrry Surge.zip"

The attached TechView file above contains 3 separate snapshots:

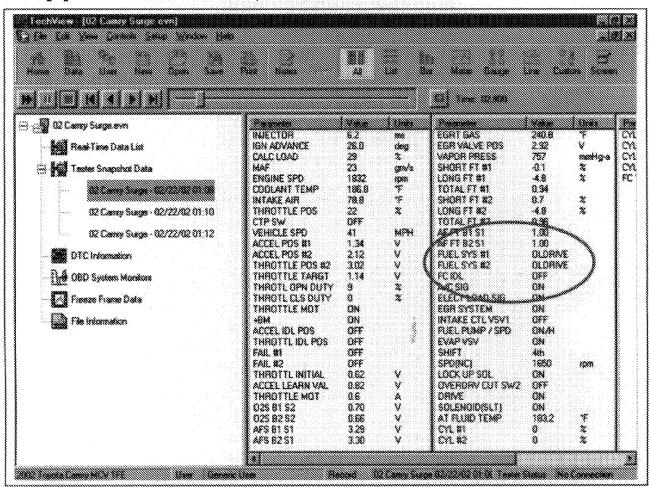
Snapshot #1 (02 Camry Surge -- 02/22/02 01:08) is surge during acceleration from 40 -- 60mi/h

Snapshot #2 (02 Camry Surge - 02/22/02 01:10) is surge during steady cruise @ 40 - 42mi/h

Snapshot #9 (02 Camry Surge - 02/22/02 01:12) is also surge during steady cruise @ 39 - 40mi/h

\*None of the captured snapshots indicate any malfunction or abnormal operation of the A/F Ratio Sensors. Both sensors had been replaced in an attempt to correct the "surging" condition but had no effect.

in Snapshot #1, during acceleration the FUEL SYS #1 and FUEL SYS #2 are in "OLDRIVE" status instead of "CL" or closed loop status until 2.8 seconds into the Snapshot. This is the only abnormality apparent in the Data List during the "surging" condition. Please see screen capture below:



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# TOYOTA FIELD TECHNICAL REPORT

# CBU

ISTRIBUTOR 'S NAME MS/USA	COUNTRY USA/LA	RTS NO.	APPROVAL DATE	REF	ERENCE	REPO	PAT NO.	Page 1	ATTACHMENTS
IN/FRAME NO.	ENGINE NO	14867-1 KM	5/20/02 PRODUCTIO	N DATE	PURCHASE		113521 BEPA	R DATE	
N/A		MILES					nei Ai	IIDAIL	

MODEL:

Camry, ES 300

SUBJECT:

2002MY Camry (1MZ-FE) Engine Surging Issue

**INTRODUCTION:** 

テキサス州でのお客様苦情車現認結果を、ご報告いたします。

お客様は、「サージ」「シャター」等の表現を使用されております

The purpose of this report is to inform TMC of: が、本件市場での発生状況を把握していく予定です。

The results of the TTC / TMS "Go and See" Investigation activity held at GST during the week of 5/6/02

The current market status / impact of the 1MZ-FE Engine Surging Issue

### TMS COMMENTS:

苦情車からのデータを基に、対策検討をお願いいたします。

As previously communicated via UTA (UTA #UPCK110721 dated 4/24/02) during the week of 5/6/02 TMS and TTC-LA conducted a "Go and See" activity at dealers in the Houston and Longview, TX areas for the 2002MY Camry 1MZ-FE Engine Surging issue. The purpose of the activity was to:

- 1. Confirm the actual "surge" level using customer complaint vehicles under local area driving and road conditions
- 2. Determine the potential cause of the "surge" and confirm responsibility for TMC

The two dealers involved with the "Go and See" activity were Fred Hass Toyota in Houston, TX and Toyota of Longview in Longview, TX. Each dealer prepared two confirmed customer complaint vehicles and new dealer in-stock vehicles to utilize during the investigation. The dealer information, vehicles information and the results found at each dealer are outlined below in Chart 1 and 2.

Chart 1: Fred Haas Tovota - Houston, TX (5/7/02)

No.	VIN	₽P/D	Miles	TOTAL CONTRACTOR	
1	4T1BF32K92U	8/01	8,642	XLE	YES - Complaint Vehicle
2	4T1BF32K72U	8/01	11,212	LE	YES - Complaint Vehicle
3	4T1BF32K12U	10/01	7	LE	NO – New Dealer In-Stock

Chart 2: Toyota of Longview - Longview TY (5/9/02)

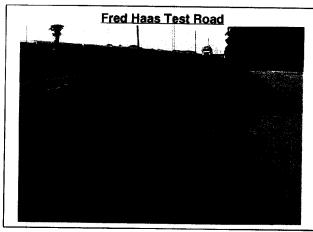
4.60	1 Toyota of Longview - Longview , 1 x (3/6/02)								
No	o. VIN 1 **** III	P/D	Miled	a circum	Customer Vehicle?				
4	4T1BF32K42U	8/01	12,398						
	ITDPE20K400	<del>                                     </del>			YES - Complaint Vehicle				
	JTDBF32K420	11/01	3,652	XLE	YES – Complaint Vehicle				
6	4T1BF32K62U	12/01	117	IF	NO - New Dealer In-Stock				
		1 ,			INO - New Dealer In-Stock				

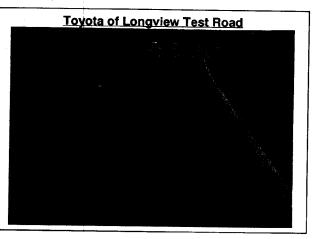
Writer	SUPERVISOR/DEPT. MANAGER	JAPAN STAFF
Michael Jarboe	Gary Heine	NAOMITSU KAWAKAMI

DISTRIBUTOR'S NAME	COUNTRY	RTS NO.	APPROVAL DATE	REFERENCE	REPORT NO.	Page
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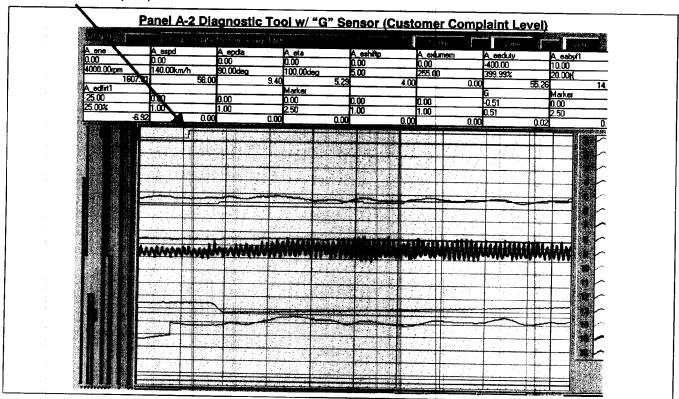
### **TESTING CRITERIA:**

All vehicles tested were driven by TMS / TTC engineers and the GST Regional FTS and FPE to provide the best objective evaluation of the "surging" condition. All vehicles were tested and evaluated on flat to slight uphill road profiles ( $2 \sim 3\%$  grade) with smooth surfaces. Illustrations of the actual test roads are provided below:



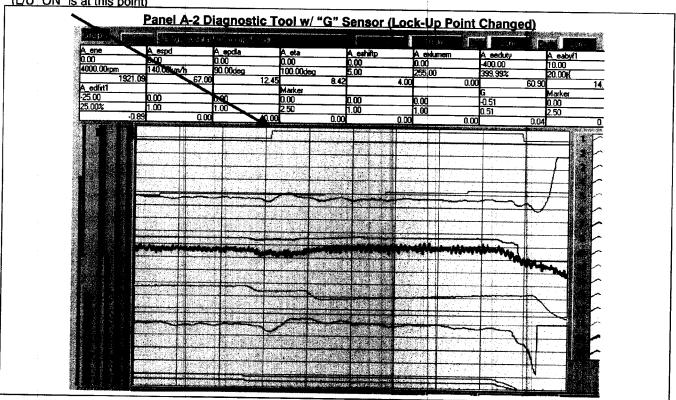


All vehicles tested, both customer complaint <u>and</u> new dealer in-stock units, exhibited the "surging" condition between 38 ~ 42 mi/h, transmission in 4<sup>th</sup> gear, L/U "ON" (Lock-Up). Throttle input was 13 ~ 15% with the vehicle maintaining a steady cruise. It was agreed by both TTC and TMS engineers that the "surging" condition experienced on the customer and dealer vehicles was equal to the TMS Internal Fleet Vehicle previously evaluated by TTC, TMS and TMC. Using Vehicle No. 2 described in Chart 1, TTC and TMS engineers installed a Panel A-2 diagnostic tool including the installation of a "G" sensor on the front passenger seat mounting rail. This allowed for the precise measurement of the longitudinal forces that were experienced during the "surging" condition. Measurements were taken during the "surging" condition with L/U coming on at 38 mi/h. The measured frequency was 8hz with the "G" sensor reading a 0.1G force during the "surging" condition. The Panel A-2 screen is shown below with the RED line indicating the "G" sensor signal and the GREEN line indicating L/U operation. (L/U "ON" is at this point)



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TMS/USA USA/LA	14867-1		FPCK113521	3

The second test involved changing the shift schedule to move the point at which L/U (Lock-Up) would occur. The L/U point was changed from 38 mi/h to 44 mi/h to evaluate what effect it would have on the "surging" condition. Vehicle No. 2 was then driven and measurements taken. The Panel A-2 diagnostic tool showed that the "G" sensor detected the same 8hz amplitude but the G force had been significantly reduced from 0.1G to 0.04G during the "surging" condition. The Panel A-2 screen is shown below with the RED line indicating the "G" sensor signal and the GREEN line for L/U. (L/U "ON" is at this point)



NOTE: Both TMS / TTC engineers and the GST Regional FTS and FPE agreed that the "surging" condition was eliminated after the change to the shift schedule L/U point.

Several testing conditions were utilized to evaluate what changes that EGR operation, EVAP Purge and the A/F feedback would have on the "surging" condition. No differences were noticed in the "surging" condition with these systems disabled. A summary outlining the specific details of the testing conditions is attached below:



### CAUSE:

The root cause of the "surging" condition remains unknown. However, as previously mentioned, changes made to the shift schedule for L/U (Lock-Up) during the testing / evaluation made the "surging" condition disappear.

### REMEDY:

No known remedy exists for the "surging" condition at this time.

DI\$TRIBUTOR'S NAME	COUNTRY	RTS NO.	APPROVAL DATE	REFERENCE	REPORT NO.	Page
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### MARKET SUMMARY:

TMS has researched the impact the 1MZ-FE "surging" condition is having in the U.S. market. Due to the specific nature of the "surging" condition and that it is only a **feeling** experienced by the customer, it is difficult to determine the true scope and impact that this issue is currently having. Customers have described the condition many different ways (e.g. surging, shudder, hesitation), therefore it is very difficult to categorize and separate this issue from other potential vehicle concerns.

To better quantify the "surging" issue, an analysis of confirmed field reports and CR Data was performed. As of the date of this report, the number of confirmed "surging" occurrences is summarized below:

- 16 Confirmed Field Reports (includes EWR's, TAS Contacts)
- Reported as a Regional Top Technical Concern for CATD and GST Regions
- The SET, CATD, GST, Los Angeles and Denver Regional Offices have reported customers experiencing the "surging" condition

Associates from TMS and TMMNA are currently involved with a Camry Market Survey activity in the SET Region. During this Market Survey activity, Del Mar Toyota in Florida brought the "surging" issue to the attention of the Market Survey participants. The dealer stated that they have had multiple customer complaints on 2002MY Camry 1MZ-FE for "surging". Additionally, Mr. Andy Kondo, Japan Staff Coordinator for the SET Region and Mr. Hiroshi Yamashita, Coordinator for TMMNA -QD have experienced this "surging" condition using Mr. Kondo's 2002MY Camry Regional Fleet vehicle.

TMS believes that many actual "surging" complaints are hidden due to the customer description of the actual condition. TMS has analyzed TCS and LPS survey returns comparing customer complaints for 2001MY vehicles and 2002MY vehicles. The file attached below provides a detailed summary showing the number of problems per 100 for Camry 1MZ-FE for both "Engine" and "Transmission" have increased significantly.



"TC\$ vs IQS.xis"

### LEXUS (ES 300) MARKET IMPACT:

TMS has also examined the ES 300 for a possible link between the reported Camry 1MZ-FE Engine Surge issue and several reports of a similar condition for the 2002MY ES 300. Using the Lexus R.O. (Repair Order) Database, TMS has reviewed dealership service repair order information and found a significant number of customer complaints that are similar to the current "surging" condition on the 2002MY Camry. Customers and dealers describe a "surge", "studder" or "light shudder" during highway driving at speeds ranging from 40 ~ 55 mi/h. TMS feels that there may be some link between these customer complaints and the identified issue on the Camry. TMS created a Customer Survey for transmission issues related to the 2002MY ES 300. Through this survey, TMS identified customer complaints which describe a "surge", "shock" or "jerking" sensation between 40 ~ 60 mi/h. TMS believes that these customer complaints may be linked to the "surging" issue on the Camry. A summary of the Customer Survey including the customer verbatim comments is contained in the file below.



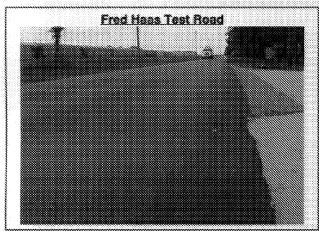
"02-05-14 ES300 AT Customer Survey.xls

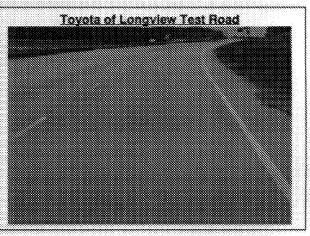
NOTE: As was confirmed during the TMS / TTC "Go and See" activity, new vehicles from the dealer stock also exhibited the "surging" condition. During diagnosis for issues such as this, it is normal practice for dealer technicians and Regional staff to compare customer complaint vehicles to new vehicles in an effort to determine if a specific condition is "normal" during the vehicle operation. Since both the customer complaint vehicle and the new vehicle act in a similar manner under the same driving conditions, in many cases the customer may be told that the "surging" condition is normal. TMS feels strongly that the actual number of customer complaints is much higher than what is visible via Field Reports and TAS (Technical Assistance Hotline). Since even new vehicles exhibit the "surging" condition, every new Camry has the potential for customer complaints.

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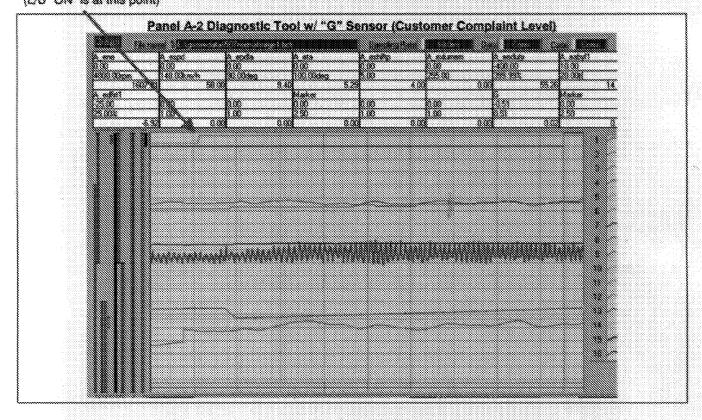
### **TESTING CRITERIA:**

All vehicles tested were driven by TMS / TTC engineers and the GST Regional FTS and FPE to provide the best objective evaluation of the "surging" condition. All vehicles were tested and evaluated on flat to slight uphili road profiles (2 ~ 3% grade) with smooth surfaces. Illustrations of the actual test roads are provided below.



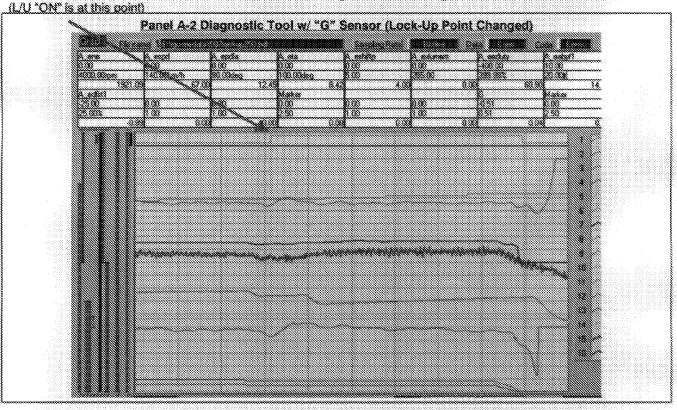


All vehicles tested, both customer complaint **and** new dealer in-stock units, exhibited the "surging" condition between 38 – 42 mi/h, transmission in 4" gear, L/U "ON" (Lock-Up). Throttle input was 13 – 15% with the vehicle maintaining a steady cruise. It was agreed by both TTC and TMS engineers that the "surging" condition experienced on the customer and dealer vehicles was equal to the TMS Internal Fleet Vehicle previously evaluated by TTC, TMS and TMC. Using Vehicle No. 2 described in Chart 1, TTC and TMS engineers installed a Panel A-2 diagnostic tool including the installation of a "G" sensor on the front passenger seat mounting rail. This allowed for the precise measurement of the longitudinal forces that were experienced during the "surging" condition. Measurements were taken during the "surging" condition with L/U coming on at 38 mi/h. The measured frequency was 8hz with the "G" sensor reading a 0.1G force during the "surging" condition. The Panel A-2 screen is shown below with the RED line indicating the "G" sensor signal and the GREEN line indicating L/U operation. (L/U "ON" is at this point)



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The second test involved changing the shift schedule to move the point at which L/U (Lock-Up) would occur. The L/U point was changed from 38 mi/h to 44 mi/h to evaluate what effect it would have on the "surging" condition. Vehicle No. 2 was then driven and measurements taken. The Panel A-2 diagnostic tool showed that the "G" sensor detected the same 8hz amplitude but the G force had been significantly reduced from 0.1G to 0.04G during the "surging" condition. The Panel A-2 screen is shown below with the RED line indicating the "G" sensor signal and the GREEN line for L/U.



NOTE: Both TMS / TTC engineers and the GST Regional FTS and FPE agreed that the "surging" condition was eliminated after the change to the shift schedule L/U point.

Several testing conditions were utilized to evaluate what changes that EGR operation, EVAP Purge and the A/F feedback would have on the "surging" condition. No differences were noticed in the "surging" condition with these systems disabled. A summary outlining the specific details of the testing conditions is attached below:



### CAUSE:

The root cause of the "surging" condition remains unknown. However, as previously mentioned, changes made to the shift schedule for L/U (Lock-Up) during the testing / evaluation made the "surging" condition disappear.

### REMEDY:

No known remedy exists for the "surging" condition at this time.

#### **Quality Assurance - Early Warning Report** TOYOTA (2) LEXUS TQCN DOC#: RTS#: RTS Disposition: TMS QA Dept: Assigned PE: Distribution Date: EJYK115121 14867-1 JARBOEM Forward QA-Powertrain 6/4/02 Location: Production Date: Source: Primary Model: Model Year: Mileage: VIN: (CONFIRM 17 DIGITS) TMS-DEN FTS 2002 Camry 11-2001 3948 4T1BF32K12U Condition Title: Author: Dealer Code: Engine Surge at Cruise JOE LANE 43007 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:43007 Repair Date: Optional Approval: Menlove Toyota 04/23/02 **Condition Description:** Customer States that the vehicle surges/vibrates under light throttle between 35-50 mph on a smooth flat road surface. Probable Cause: The condition occurs when the transmission shifts into Lock up. When Lock up disengages the condition stops. I used Active test on the Scan tool to control Lock up operation and found that when Lock up was engaged the vehicle surged/ vibrated and when I disengaged Lock up the surge/vibration stopped. I raised the vehicles front wheels off the ground and ran the vehicle up to 40mph and engaged the Lock up with the Scan tool. I found that the transmission and engine assemblies shook severely when Lock up was engaged. I also noticed that there is no engine mount to help support the engine and transmission assembly on the rear of the subframe. This seems to allow the engine and transmission assemblies to vibrate back and forth excessively during Lock up operation under light throttle, thus causing the surge/vibration condition Failed Part # 1: Failed Part # 2: Failed Part # 3: Disposition of Failed Parts: 00000000000 Remedy: No action taken. Test drove two other like vehicles and they had the same condition. Possible engine and transmission support issue or ECM logic issue? "02 Camry surge #1.evn1 Place Picture Caption Here

Probable Cause:

TQCN DOC#:		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date
EJYK11542	1	14867-1	Forward	QA-Powertrain	JARBOEM		6/4/02
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 1	<u> </u>
TMS-DEN	FTS	Camry	2002	10-2001	1881	4T1BF32K02U	
Condition Title:				Author:		Dealer Code:	
Engine Surge at Cruise				JOE LANE		43020	

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: Repair		Ref#:	Optional Approval:				
Mark Miller Toyota-43020	4/30/02	,					
Condition Description:							
Customer states that the vehicle surges at 40 mph under light throttle.							

I used Active test on the Scan tool to control Lock up operation and found that when Lock up was engaged the vehicle surged/vibrated and when I disengaged Lock up the surge/vibration stopped. It seems that the Torque converter becomes out of balance and shakes the engine and transmission assemblies excessively under light throttle. I also noticed that there is no engine mount to help support the engine and transmission assembly on the rear of the subframe. This seems to allow the engine and transmission assemblies to vibrate back and forth excessively during Lock up operation under light throttle. Possible engine and transaxle support issue or ECM logic issue?

10910100001			
Failed Part # 1:	Failed Part # 2:	Failed Part # 3:	Disposition of Failed Parts:
000000000			Disposition of Failou Failo.
Remedy:			

No action taken. Compared with another like ve	hicle and it had the same condition.
"02 Camry surge Place Pic #2.evn" ture Here	Place Picture Caption Here
Place Picture #2 here	Place Caption #2 here

Early Warning Report - Toyota Lexus (04/05/2002)

This template for MS WORD 2000

Page 1 of 6

## FIELD TECHNICAL REPORT

CBU

DISTRIBUTOR'S NAME	COUNTRY	RTS#	APPROVAL DATE	REFERENCE	TQCN REPORT#	
TMS/USA	USA/LA	13412-3	6/28/02		FPRG117621	Page 1 of 6
VIN	ENGINE#	MILES	PRODUCTION DATE	PURCHASE DATE		
JTHBF30G*2*						

MODEL:

ES 300, Camry

SUBJECT:

A/F SENSOR AFTER C/M MIL ON/SURGE

**INTRODUCTION:** The purpose of this report is to provide five A/F sensors built after the latest counter measure for examination by TMC. TMS has identified 3 2002 ES300 with MIL "ON" or drivability concerns related to A/F sensor failure after latest countermeasure VIN breaks listed in TI-TK1AKA1058218 dated 2/27/02.

**CONDITION:** 

対策センサでの再発が懸念されます。 回収品を調査いただき、原因究明・対策をお願い 藤原 いたします。

Two Possible complaints of A/F sensor failure

o MIL light "ON" with DTC P1155

o Customer complaint of surge during steady cruise 30 - 40 mph (48-64 km/hr)

Technician noticing erratic voltage changes and sweeping Fuel Trim values

**VEHICLE INFORMATION:** 

Information on 5 A/F sensors recovered from 3 vehicles is in the chart below

ation	on 5 A/F sensors in	ecovered from a verile	100 10 1.11	DATE	
ш	VIN	CCR DESCRIPTION	PART NUMBER		MILEAGE
#		P1155	89467-33060	04D10	192
1_	JTHBF30G420		89467-33050	04D05	192
		P1155		02D28	494
2	JTHBF30G020	SHUDDER / SURGE			494
		SHUDDER / SURGE	89467-33050	02D28	
-	ITUDE20C025	SHUDDER / SURGE		03D21	14
13	JTHBF30G925	OTTO D D ETT, G G TT			

- These sensors will be shipped with the report
- Techview file from Vehicle #3 A/F sensor is attached below



### REMEDY:

Vehicles were repaired by replacing A/F sensor

WRITER	SUPERVISOR/DEPT, MANAGER	JAPAN STAFF		
JOSEPH LETOILE	Gary Heine	NAOMITSU KAWAKAMI		

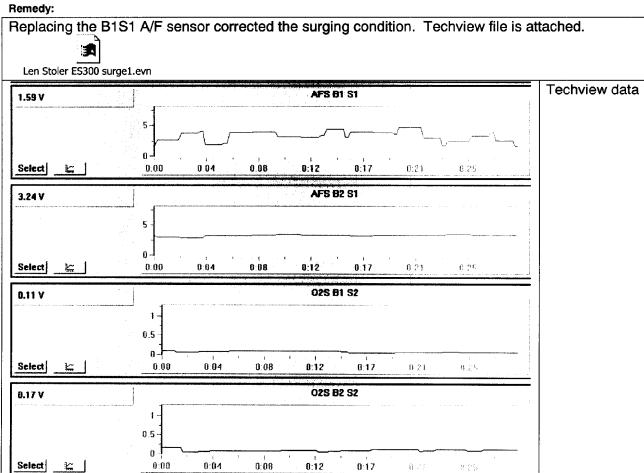
DISTRIBUTOR'S NAME	COUNTRY	RTS NO.	APPROVAL DATE	TQCN# FPRG117621	Page 2 of 6
TMS/USA	USA/LA	13412-3			

### **Comments:**

TMS was not able to duplicate condition when A/F sensor was installed in Test Vehicle.

### **REQUESTS:**

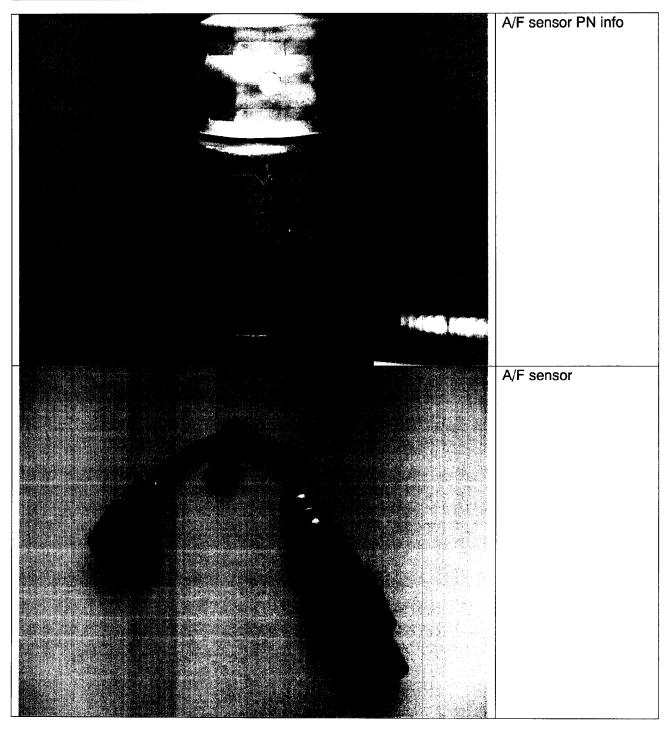
- Please provide results of examination of A/F sensors via TI format
- Please provide VIN breaks for Toyota Motor Manufacturing Kentucky (TMMK) production vehicles for second countermeasure listed in TI-TK1AK1058218
- Please provide countermeasure information if any changes were made as a result of examination of A/F sensors included with this report



Early Warning Report - Toyota Lexus (05/15/2002)

Page 1 of 5

Quality Assu	rance – Ea	irly Warning Repo	ort			<b>Фтоуота</b>	(C) LEXUS
TQCN DOC#: E8NG10713		RTS#: 17992-1	RTS Disposition: Forward	TMS QA Dept:  QA-Powertrain	Assigned PE: MALONEYB		Distribution Date: 3/13/03
Location: TMS-LEA	Source: FTS	Primary Model: ES 300	Model Year: 2002	Production Date: 04-2002	Mileage: 9931	VIN: (CONFIRM 1 JTHBF30G325	
Condition Title: Vehicle Surges Under Acceleration - A/F Sensor					Author: Brant Baird		Dealer Code: 61902



Early Warning Report - Toyota Lexus (05/15/2002)

Page 2 of 5

Quality Assurance – Early Warning Heport						<b>TOYOTA</b>		
TQCN DOC#:		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:	
E8NG10713	31	17992-1	Forward	QA-Powertrain	MALONEYB		3/13/03	
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17	CHARACTERS)	
TMS-LEA	FTS	ES 300	2002	04-2002	9931	JTHBF30G325		
Condition Title:					Author:		Dealer Code:	

Brant Baird

61902

## **Parts Recovery Control Sheet**

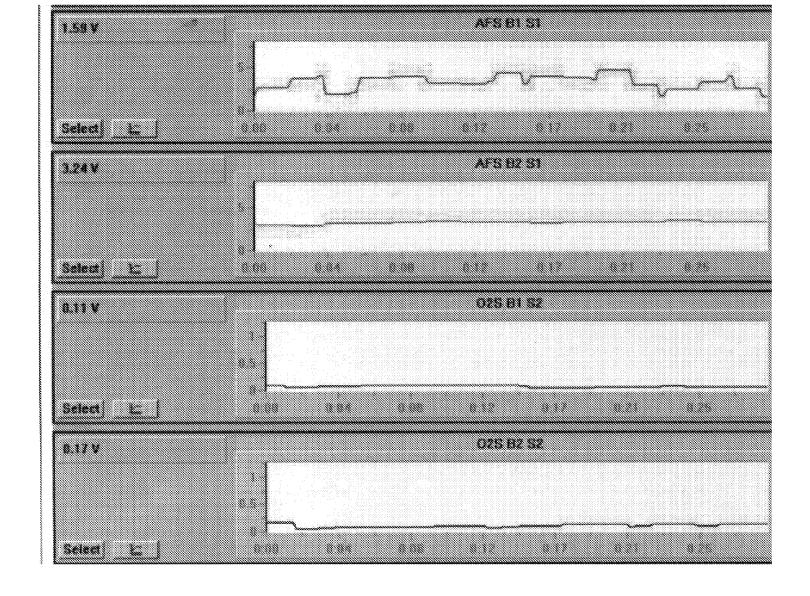
Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the *Final Destination* field below states "scrap", properly dispose of the part.

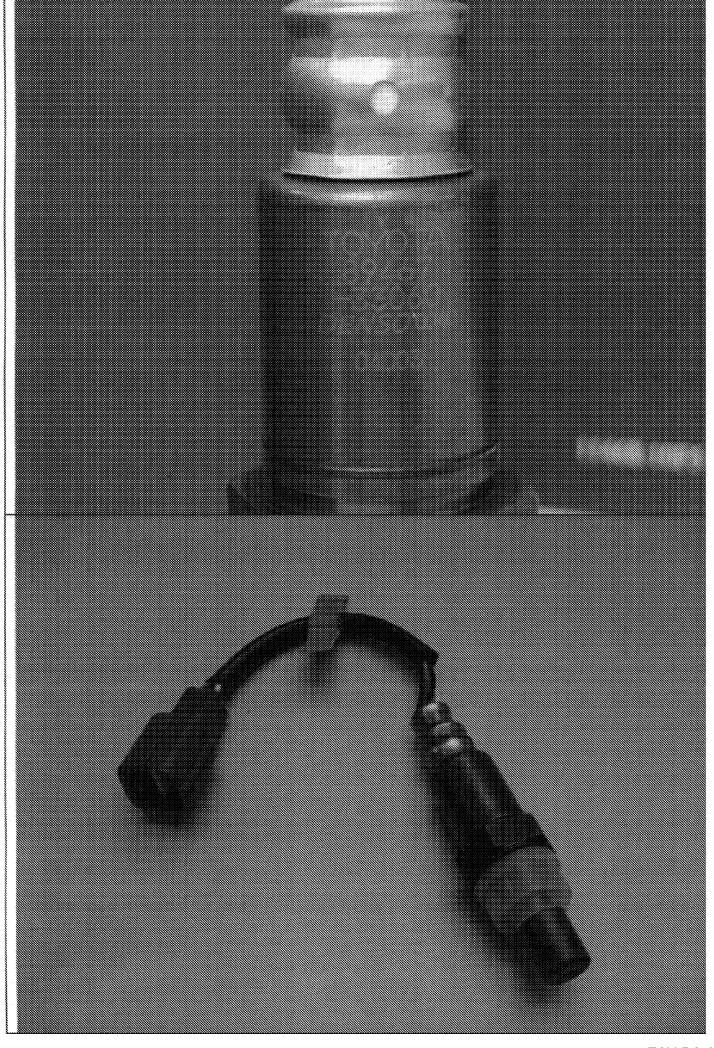
Final Destination: 2113

Vehicle Surges Under Acceleration - A/F Sensor

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

	T	,	т—	_	
	Failed Part # 1:	Part Description	Qty.		Unit Cost
١.	8946733060	SENSOR, AIR FUEL RATIO	1	\$	52 .00
1	Comments:				
	Failed Part # 2:	Deat Description	O41.		Unit Cost
ŀ	Falled Part # 2:	Part Description	Qty.		
2			1	\$	0 .00
-	Comments:				
	Falled Part # 3:	Part Description	Qty.		Unit Cost
				\$	0 .00
3	Comments:		<u> </u>	ΙΨ	0.00
	Comments.				
			T		
	Failed Part # 4:	Part Description	Qty.	١.	Unit Cost
4			1	\$	.00
•	Comments:				
	Failed Part # 5:	Part Description	Qty.		Unit Cost
				\$	.00
5	Comments:		l. '	Ψ	
	Sommonia.				
	Failed Part # 6:	Part Description	Qty.	١.	Unit Cost
6			1	\$	.00
-	Comments:				
	Failed Part # 7:	Part Description	Qty.		Unit Cost
				\$	.00
7	Comments:		<u> </u>	ΙΦ	.00
	Comments.				
	Failed Part # 8:	Part Description	Qty.		Unit Cost
8			1	\$	.00
٠	Comments:				





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:
Len Stoler Lexus	1/17/03	23449	
Condition Descriptions			

#### Condition Description:

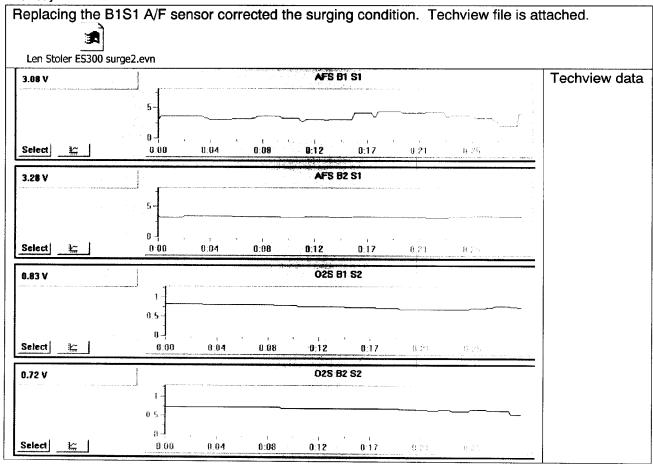
Customer complains that the vehicle surges when driving up hills under steady acceleration.

### Probable Cause:

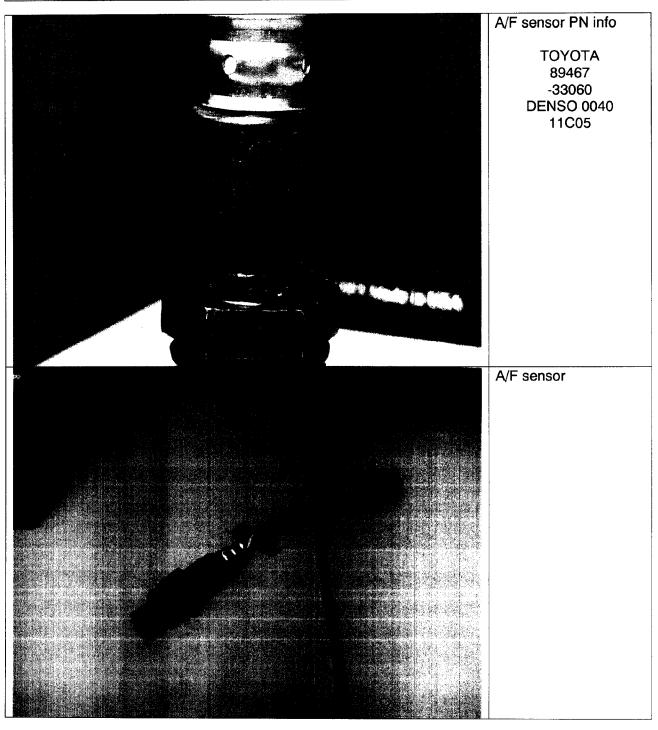
When analyzing the Techview data, the B1S1 A/F sensor was reading very erratically as compared to the B2S1 sensor. There were no codes for the sensor although it was operating erratically.

Failed Part # 1:	Failed Part # 2:	Failed Part # 3:	Disposition of Falled Parts:	Parts Shipping Destination:
8946733060			Have part / will ship	2113

### Remedy:



Quality Assur	rance – Ea	rly Warning Repo	ort			<b>⊕</b> TOYOTA	
TQCN DOC#: E8NG10713	31A	RTS#: 17992-1	RTS Disposition: Forward	TMS QA Dept: QA-Powertrain	Assigned PE: MALONEYB		Distribution Date: 3/13/03
Location: TMS-LEA	Source: FTS	Primary Model: ES 300	Model Year: 2002	Production Date: 11-2001	Mileage: 20706	VIN: (CONFIRM 1) JTHBF30G920	
Condition Title Vehicle surg		driving up hills - A	√F Sensor		Author: Brant Baird		Dealer Code: 61902



Early Warning Report – Toyota Lexus (05/15/2002)

Page 2 of 5

Quality Assur	ance – Ea	<b>COYOTA</b>					
TQCN DOC#:		RTS#:	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
E8NG10713	31A	17992-1	Forward	QA-Powertrain	MALONEYB		3/13/03
Location:	Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 17	CHARACTERS)
TMS-LEA	FTS	ES 300	2002	11-2001	20706	JTHBF30G920	
Condition Title:				Author:		Dealer Code:	
Vehicle surges when driving up hills - A/F Sensor				Brant Baird		61902	

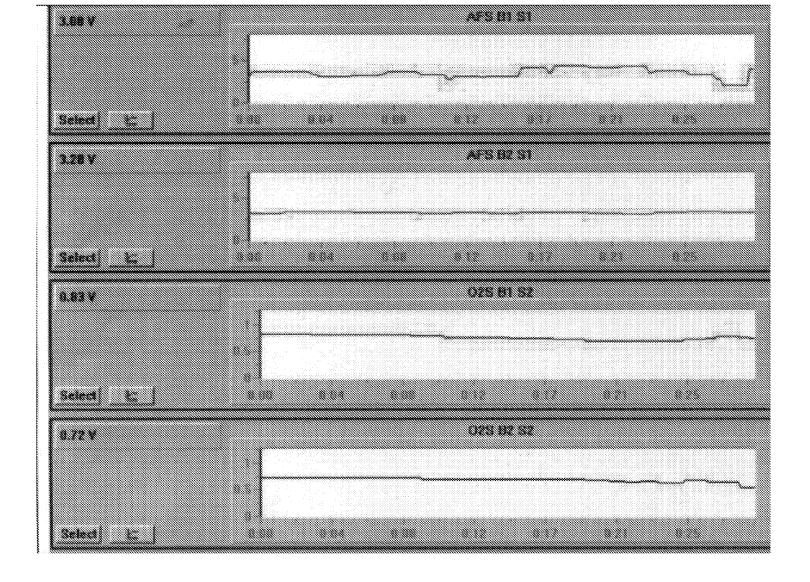
## **Parts Recovery Control Sheet**

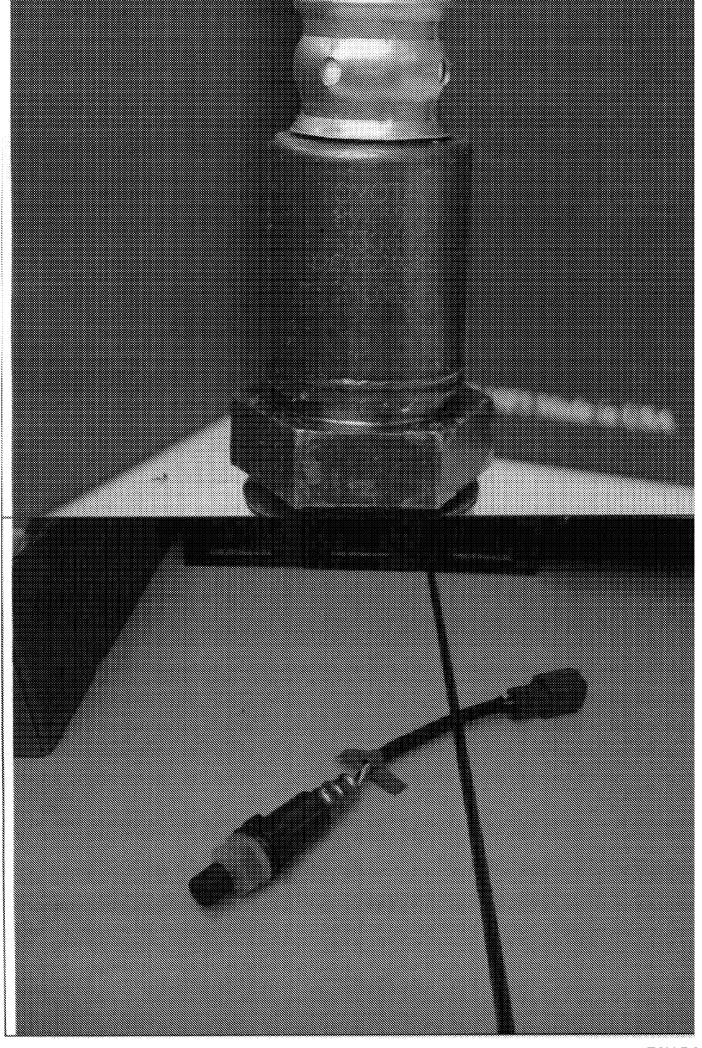
Ship all parts to TMS – Parts Return Center. Do not type in SHADED fields If the *Final Destination* field below states "scrap", properly dispose of the part.

Final Destination: 2113

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
1	8946733060	SENSOR, AIR FUEL RATIO	1	\$ 51.00
•	Comments:			
	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 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:			100





Quality	Assurance -	Farly	Warning	Report

rance – Ea	arly Warning Repo	ort			<b>⊕TOYOTA</b>	(C) LEXUS
81	RTS#: 18015-1	RTS Disposition: Forward	TMS QA Dept: QA-Powertrain	Assigned PE: STABAD		Distribution Date: 3/17/03
Source: FTS	Primary Model: Camry	Model Year: 2003	Production Date: 01-2003	Mileage: 454	,	
77	nk Hose		TO THE STATE OF TH	Author:	ITI ING	Dealer Code: 04018
	Source: FTS	RTS#: 18015-1 Source: Primary Model: FTS Camry	Source: Primary Model: Model Year: FTS Carmry 2003	RTS#: RTS Disposition: TMS QA Dept:  18015-1 Forward QA-Powertrain  Source: Primary Model: Model Year: Production Date:  FTS Camry 2003 01-2003	RTS#: RTS Disposition: TMS QA Dept: Assigned PE: 31 18015-1 Forward QA-Powertrain STABAD  Source: Primary Model: Model Year: Production Date: Mileage: 454  ETS Camry 2003 01-2003 454  Author:	RTS#: RTS Disposition: TMS QA Dept: Assigned PE:  18015-1 Forward QA-Powertrain STABAD  Source: Primary Model: Model Year: Production Date: Mileage: VIN: (CONFIRM 17 PTS Camry) 2003 01-2003 454 JTDBE32K130

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:
Claremont Toyota	03/14/033		

### **Condition Description:**

- Engine surge at cruise.
- Engine stalling at idle after warm-up.
- Fuel Tank will not fill to full position on Fuel Gauge.

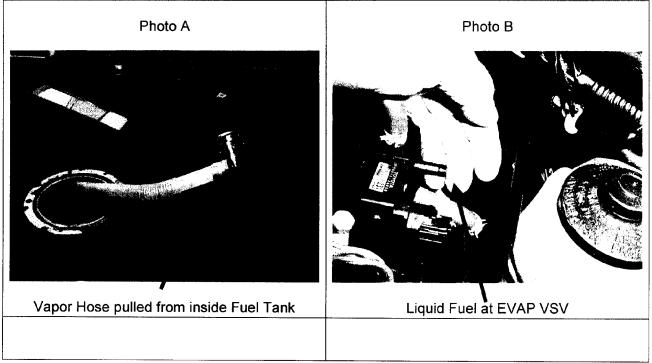
### Probable Cause:

- Vapor Hose inside fuel tank is not connected to rear interior Fuel Tank Nipple. (Photo A)
- Liquid fuel is drawn into Vapor Hose flooding EVAP Canister and into Intake Manifold when Purge VSV is cycled ON by ECU. (Photo B)
- No trouble found with Vapor Hose Connector but fitting could not be re-installed to interior Fuel Tank Nipple due to hard to reach location. (Photo C)

Failed Part # 1:	Failed Part # 2:	Failed Part # 3:	Disposition of Failed Parts:	Parts Shipping Destination:
7700106080			Special request only	N/A

### Remedy:

- Fuel Tank Replaced. P/N (77001 06080)
- EVAP Canister replaced. P/N (77740 06141)
- Fresh Air Filter replaced. P/N (17700 0A080)
- Part Numbers are currently not loaded into parts system.



Early Warning Report - Toyota Lexus (05/15/2002)

Page 1 of 5

Source:

FTS

PZEV Camry Fuel Tank Hose

TQCN DOC#:

Location:

TMS-LA

E7PK107331

Condition Title:

RTS#:

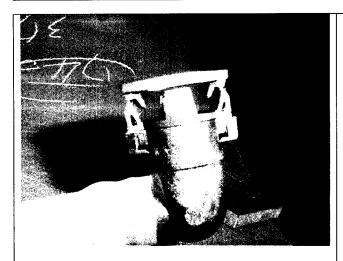
18015-1

Camry

Primary Model:

	<b>⊕TOYOTA</b>	(C) LEXUS
Assigned PE:		Distribution Date:
STABAD		3/17/03
Mileage:	VIN: (CONFIRM 17	CHARACTERS)
454	JTDBE32K130	
A 42		Deales Cade

04018



RTS Disposition:

Forward Model Year:

2003

TMS QA Dept:

QA-Powertrain

Production Date:

01-2003

Author:

MIKE HOUGHTLING

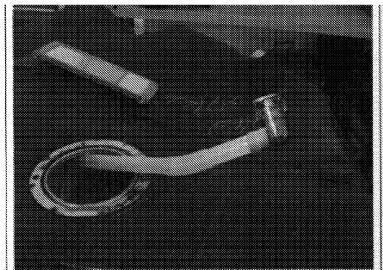
Photo C Vapor Hose Connector (No Trouble)

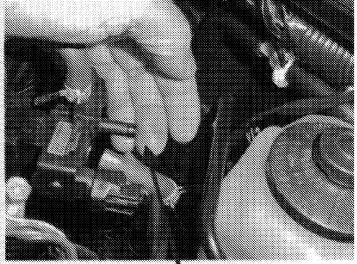
Quality Assurance – Early Warning Report					<b>⊕TOYOTA</b>	
TQGN DOC#:	RTS#;	RTS Disposition:	TMS QA Dept:	Assigned PE:		Distribution Date:
E7PK107331	18015-1	Forward	QA-Powertrain	STABAD		3/17/03
Location: Source:	Primary Model:	Model Year:	Production Date:	Mileage:	VIN: (CONFIRM 1	7 CHARACTERS)
TMS-LA FTS	Camry	2003	01-2003	454	JTDBE32K130	
Condition Title:				Author:		Dealer Code:
PZEV Camry Fuel Ta	nk Hose			MIKE HOUG	HTLING	04018

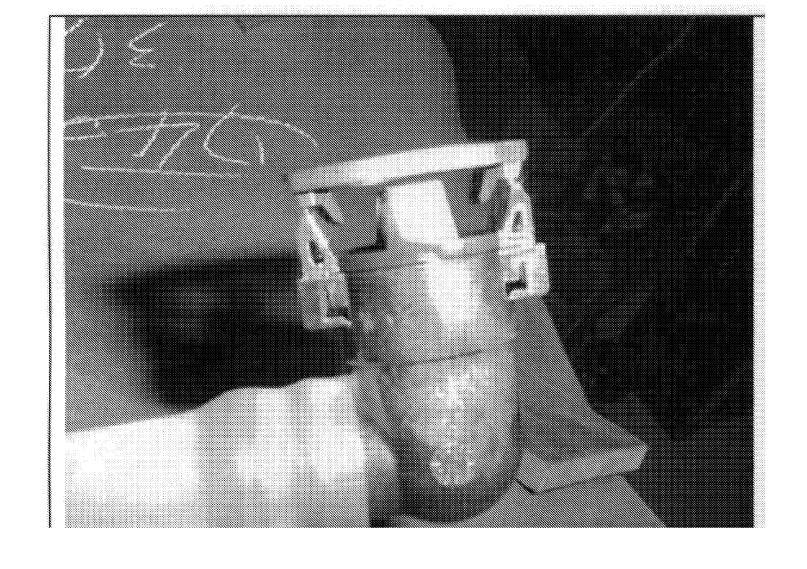
# **Parts Recovery Control Sheet**

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.
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.	
	7700106080	TANK SUB-ASSY, FUEL		\$ 1.00
1	Comments:		Bulling Control of the Control of th	1 DESIREMANTALINES PRINT
	Failed Part # 2:	Part Description	Qty.	Unit Cost \$ 0.00
2	Comments:	<b>L</b>	· · · · · · · · · · · · · · · · · · ·	•
	Failed Part #3:	Part Description	Qty.	Unit Cost \$ 0.00
3	Comments:	ARREST		ψ 0.00
	Failed Part # 4:	Part Description	Qty.	Unit Cost
4	Comments:			\$ .00
	Comments.			
	Failed Part # 5:	Part Description	Qty.	Unit Cost
5	Comments:		1	\$ .00
	Comments.			
	Failed Part # 6:	Part Description	Qty.	Unit Cost
6	Comments:			\$ .00
	Comments.			
	Failed Part # 7:	Part Description	Qty.	Unit Cost
7	Comments:			\$ .00
	Comments;			
	Failed Part # 8:	Part Description	Qty.	Unit Cost
8			1	\$ .00
	Comments:			







### FIELD TECHNICAL REPORT



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-VJK110831	1 TMS	QA-Powertrain	FPE	REG-CHI	17486-1	4/21/03
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 cha	racters):
Base Vehicle	Camry	2002	04-2002	23004 mi	4T1BF30KX2	U
Condition Title						
Surge @ 40-50	MPH with Light Throttle	e-A/F Sensor				

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**

The vehicle exhibited a rhythmic engine surge most noticeable while traveling at 40 - 50 mph and while the engine was at normal operating temperature, the ATM was in  $3^{rd}$  or  $4^{th}$  gear, and at a constant speed and throttle angle. The MIL was not illuminated.

### Diagnostic Steps:

Scantool snapshot during the customer complaint condition.

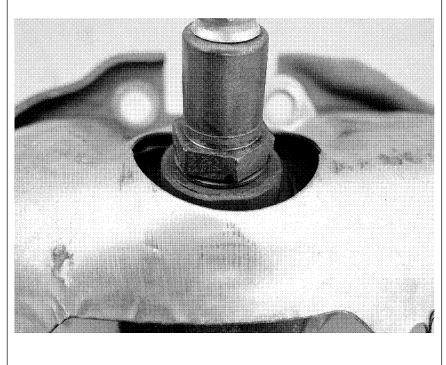
### **Probable Cause**

Erratic output of Bank 1 Sensor 1 A/F Sensor as noted in the attached Techview file.

		Dart # 9.	Parte Dienocition	
	Part # 2:	= 6 l	Parts Disposition:	Parts Shipping Destination:
Part # 1:				
RUZINNI INI INI I	1 7 7 7 21 1 7 11 1 7 1 1		Have part / will ship	
			Have part / Will Sillo	INIU

### **Repair Process**

The A/F Sensor and Bank 1 Exhaust Manifold (due to a seized Bank 1 Sensor 1 A/F Sensor) were replaced which restored normal A/F Sensor output and proper engine operation.



Seized Bank 1 Sensor 1 A/F Sensor causing an engine surge. The Sensor is seized in the Bank 1 Manifold.

Techview snapshot of erratic output of Bank 1 Sensor 1 A/F Sensor.



Attachment 1: PRCS

### FIELD TECHNICAL REPORT



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-VJK110831	I TMS	QA-Powertrain	FPE	REG-CHI	17486-1	4/21/03
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 ch	aracters):
Base Vehicle	Camry	2002	04-2002	23004 mi	4T1BF30KX2	2U <b>LL</b>
Condition Title						
Surge @ 40-50 I	MPH with Light Throttle	e-A/F 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.

	Final Destination: TM0	3				
Importer: (Applies to TMC Shipments Only)		ts Only)	Deliver to:	住所:	1	
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		ıl Div.	Attn: Tel:	宛先: Tel:		
No	te: If this FTR contains more than one	e VIN, create	e a table in the report containing VIN, production date, and	odometer	FOR CUSTOMS US Used Parts Value	
1	Part #1: 8946506060 Comments:	3946506060 SENSOR, OXYGEN			Used Part Value \$ 19 .0	
2	Part # 2: 1714020070 Comments:	Part Descr MANIFO	iption DLD ASSY, EXHAUST, RH	Qty.	Used Part Value	
3	Part # 3: Comments:	Part Descr	Qty.	Used Part Value \$ 0 .0		
	Part # 4:	Part Descr	iption	Qty.	Used Part Value	
4	Comments:					
	Part # 5:	Part Descr	iption	Qty.	Used Part Value	
Comments:					<b> \$</b> .C	00
	Part # 6:	Part Descr	iption	Qty.	Used Part Value	
6	Comments:				<b> \$</b> .C	00
	Part # 7:	Part Descr	iption	Qty.		
7	Comments:				<b> \$</b> .C	00
	Part # 8:	Part Descr	iption	Qty.	Used Part Value	
8			•			00
	Comments:					



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VGC217431 TMS		QA-Powertrain	FPE	REG-SF	19176-1	6/23/03	
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 ch	aracters):	
Base Vehicle	Sienna	2004	03-2003	7936 mi	5TDZA22C44	s	
Condition Title							
TRANSAXLE W	OULD NOT ENGAGE	REVERSE					

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

Repair Date	Optional Ref.	Optional Approval
06/23/03		

#### **Condition Description**

U151E Transaxle would not engage Reverse Gear. Transaxle would engage a forward Gear and drive forward even with Shift Selector in "R" position (Indicators on Shift Selector Assembly and Combination Meter showed "R" Position).

- Transaxle appeared to be in 3<sup>rd</sup> Gear regardless of Shift Selector position (R, D, 2 and 1).
- Placing Shift selector in "N" Neutral position caused Vehicle to "creep", as if Transaxle was partially engaging a forward Gear.
- Vehicle was a XLE 4X2 model equipped with 3-Power Doors and Tow Hitch. Engine Serial Number was: **3MZ-4021225**. Transaxle Serial Number was: **530327207**.

#### Diagnostic Steps:

Technician test drove vehicle, confirmed condition, and noted that MIL was illuminated. DTCs P0746 (Pressure Control Solenoid "A" Performance or Stuck off) and P0776 (Pressure Control Solenoid "B" Performance or Stuck off) were found in ECU memory.

• Technician recorded Freeze Frame Data for DTC P0746. Data was as follows:

 Engine Spd:
 2,749 RPM
 FUEL SYS #2:
 CL

 Coolant Temp:
 194° F
 SHORT FT #1:
 0.8%

 Vehicle SPD:
 14MPH
 LONG FT #1:
 0.8%

 CALC LOAD:
 30.1%
 SHORT FT #2:
 0.0%

 FUEL SYS #1:
 CL
 LONG FT #2:
 0.0%

- Technician removed Transaxle Oil Pan and determined that an abnormal amount of Clutch Material and metal debris was present in ATF.
- Heavy deposits of debris were also found in ATF Intake Filter Screen.
- Both Magnets located on floor of Oil Pan exhibited large deposits of ferrous metal. ATF, although red in color, exhibited a strong overheated odor.
- No other DTC, Freeze Frame or RAM Data was available from ECU as Battery had been disconnected during diagnosis.

#### **Probable Cause**

Specific cause of condition was unknown, although analysis indicated that Transaxle had sustained mechanical damage to internal Gear train components.

- A Gear Train component such as Reverse Clutch (C2) or 1<sup>st</sup> & Reverse Brake (B2) could have sustained damage due to a mechanical anomaly or assembly error. Metal debris generated by mechanical damage would result in Shift Control malfunctions due to jamming affect on Control Valves in Valve Body and Shift Solenoid Plungers.
- Customer had reportedly driven Vehicle to East Coast and back (round Trip approx. 6,000 miles). No malfunctions were identified until Transaxle-related condition occurred after returning to Petaluma CA area.

Although Vehicle was equipped with PIO Tow Hitch, unit had not been used.

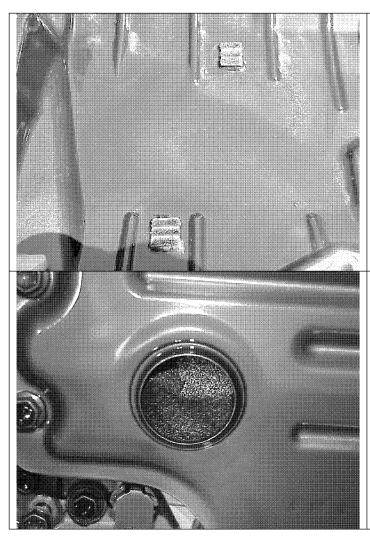
		Dart 40.		
Part # 1:	Part # 2:	Fail#3.	Faits Disposition.	Faits Silibbilla Destillation.
	222222222222222222222222222222222222		Special request only	I TMMWV
1 31311111181111	.47000000000000000000000000000000000000			
	020000010			

#### Repair Process

Transaxle assembly and Torque Converter will be replaced, which should correct condition. Damaged components will be recovered and forwarded to TMS QAP if requested.



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-VGC21743	1 TMS	QA-Powertrain	FPE	REG-SF	19176-1	6/23/03
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 cha	racters):
Base Vehicle	Sienna	2004	03-2003	7936 mi	5TDZA22C44	S
Condition Title						
TRANSAXLE W	OULD NOT ENGAGE F	REVERSE				



Close-up view of U151E Transaxle Oil Pan showing excessive Clutch material and metal debris deposited on floor of Pan.

- Note large deposits of fine ferrous material on both Oil Pan Magnets.
- ATF, although still red in color, exhibited a strong overheated odor.

Close-up view of ATF Intake Filter Screen showing heavy deposits of debris almost completely restricting visible portion of Screen.



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VGC21743	1 TMS	MS QA-Powertrain	FPE	REG-SF	19176-1	6/23/03	
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 ch	aracters):	
Base Vehicle	Sienna	2004	03-2003	7936 mi	5TDZA22C4	48	
Condition Title	<b>,</b>						
TRANSAXLE W	OULD NOT ENGAGE	REVERSE					

Attachment 1: PRCS

# 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: TMM	IWV			
lm	porter: (Applies to TMC Shipment	s Only)	Deliver to:	住所:	
Ov TC Nis 5-2	rth America EDER Gr., Technical De erseas Customer Service Technical DYOTA MOTOR CORPORTATION eshin Education & Training Center 210, SAKAE, NISSHIN, AICH, 470-0 pan	Div.	Attn: Tel:	宛先: Tel:	
No	te: 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
1		Part Descri TRANS/	ption AXLE ASSY, AUTOMATIC	Qty.	\$ Used Part Value 525 .00
2		Part Descri CONVE	ption RTER ASSY, TORQUE	Qty. 0	 Used Part Value 113 .00
3	Part # 3:	Part Descri	ption	Qty. 0	\$ Used Part Value 0 .00
4	Part # 4:	Part Descri	ption	Qty.	\$ Used Part Value .00
5	Part # 5:	Part Descri	ption	Qty.	\$ Used Part Value .00
6	Part # 6:	Part Descri	ption	Qty.	\$ Used Part Value .00
7	Part # 7:	Part Descri	ption	Qty.	\$ Used Part Value .00
8	Part # 8:	Part Descri	ption	Qty.	\$ Used Part Value .00
	1				



TQCN DOC#	Affiliate	Dept	Source	Location	Ref	Date
FTR-52R124831 TMS		QA-Powertrain	FTS	REG-PT	20108-1	9/19/03
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 ch	aracters):
Base Vehicle	4Runner	2004	02-2003	903 mi	JTEBU17R33	88
Condition Title						
SEVERE ENGIN	NE SURGE					

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

	<b>7</b> 1	•	<u> </u>
Repair Date	Optional Ref.	Optional Approval	
8-6-03			

#### **Condition Description**

The engine surges for the first 10/15 minutes of cold engine operation. It is most noticeable when the throttle is held steady at 35/45 MPH. If the throttle is held wide open the engine will surge and then run cleanly. This started after 200+ miles. As the dealer or this writer could not initially repair the vehicle the dealership purchased the vehicle from the owner. There were no codes set and after warm-up the vehicle operated normally until an overnight cold soak.

## Diagnostic Steps:

Test-drove, when cold, by holding throttle steady at 30MPH and observing data parameters; the accelerator sensors held steady but the throttle motor opened and closed. Dealer replaced complete fuel system along with the complete intake system, cam and crank sensor, engine ecu and accelerator pedal. This writer spent 3 days taking data samples and doing pin checks at accelerator pedal, engine ecu and throttle motor with no problems found. Also a compression check, static and running, were completed and all was normal.

#### **Probable Cause**

This writer felt that the condition was in the engine wire harness, in the engine compartment, as the condition would go away as the engine warmed up. Just holding the throttle steady for 10 minutes at 2000rpm could do this.

Port # 4: Port # 2: Port # 2: Port # 2:	cition:   Darte Chinning Dectination:
Part # 1: Part # 2: Part # 3: Parts Dispo	sition: Parts Shipping Destination:
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1 021212MA60   Lava nort	
1 8 71 71 3 M / (6) Hove nort	
I 821213M46D I Have narr	:/w/llshin   IMC:
02   2   3   V  4   0	:/will.ship   TMC

#### Repair Process

The engine wire harness was replaced and the o	condition was corrected.
4runner 03 surge Appleway 2.evn	
	4runner 03 throttle surge Appleway 1.evn

Attachment 1: PRCS



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-52R124831	TMS	QA-Powertrain	FTS	REG-PT	20108-1	9/19/03
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 cha	racters):
Base Vehicle	4Runner	2004	02-2003	903 mi	JTEBU17R33	8
Condition Title						
SEVERE ENGIN	IE SURGE					



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-52R124831	TMS	QA-Powertrain	FTS	REG-PT	20108-1	9/19/03
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 ch	aracters):
Base Vehicle	4Runner	2004	02-2003	903 mi	JTEBU17R33	38
Condition Title SEVERE ENGIN	E SURGE					

# 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: TM0	3			
lm	porter: (Applies to TMC Shipmen	ts Only)	Deliver to:	住所:	
Ov TO Nis 5-2	rth America EDER Gr., Technical Cerseas Customer Service Technical Cerseas Customer Service Technical Certan MOTOR CORPORTATION Shin Education & Training Center 10, SAKAE, NISSHIN, AICH, 470-0240	il Div.	Attn: Tel:	宛先: Tel:	
Not	te: If this FTR contains more than one	· VIN, create	e a table in the report containing VIN, production date, and	odometer	FOR CUSTOMS USE: Used Parts Value
1	Part # 1: 821213M460 Comments:	Part Descr WIRE, E		Qty.	Used Part Value \$ 106 .00
2	Part # 2: Comments:	Part Descr	iption	Qty.	Used Part Value \$ 0 .00
3	Part # 3: Comments:	Part Descr	iption	Qty.	Used Part Value \$ 0 .00
4	Part #4: Comments:	Part Descr	iption	Qty.	Used Part Value
5	Part # 5: Comments:	Part Descr	iption	Qty.	Used Part Value
6	Part # 6:  Comments:	Part Descr	iption	Qty.	Used Part Value
7	Part #7: Comments:	Part Descr	iption	Qty.	Used Part Value
8	Part # 8: Comments:	Part Descr	iption	Qty.	Used Part Value \$ .00
	•				



TQCN DOC#	Δ	Affiliate	Dept.	Source	Location	Ref	Date
FTR-VRR326231	D 7	ГMS	QA-Chassis	FPE	TMS	20112-1	9/19/03
Problem Area	Primary Mode	all .	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	RX 330		2004	07-2003	593 mi	JTJGA31U240	
Condition Title							
ABS Actuator							

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

Repair Date	Optional Ref.	Optional Approval
9/18/03		

#### **Condition Description**

Customer states when sitting at a stoplight the brakes gradually release and the vehicle begins to creep forward. The brake pedal must be applied harder to stop the vehicle.

## Diagnostic Steps:

- 1. The vehicle was test-driven and the problem was duplicated. A brake pedal depressor (from the alignment machine tools) was used to hold a consistent pressure on the brake pedal. After the brake pedal was depressed with a constant brake pressure the vehicle began to creep forward after several seconds. This was done several times with the same result.
- 2. The vehicle was checked for diagnostic trouble codes: None
- 3. The master cylinder was replaced and had no effect on the condition
- 4. The ABS actuator was replaced and the problem was eliminated.

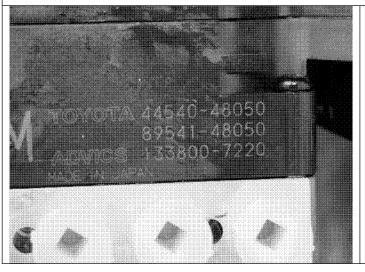
## **Probable Cause**

The ABS actuator was bleeding off brake pressure from the calipers and allowing the vehicle to creep forward.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shinning Destination
- Cut	u	1 die m O.	i aits Disposition.	i arts omppning bestination.
	1			<u> </u>
1 4405049070			Hove part / will chip	TMC
1 4403040070	• • • • • • • • • • • • • • • • • • • •		Have part / will ship	I IVIC

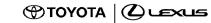
## **Repair Process**

Replacing the ABS actuator repaired the vehicle.





Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VRR326231D TMS		QA-Chassis	FPE	TMS	20112-1	9/19/03	
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charae	cters):
Base Vehicle	RX 330	)	2004	07-2003	593 mi	JTJGA31U24	
Condition Title							
ABS Actuator							

# 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.

VIN



	Final Destination: TMC	SETR#:	CQE Eng: N/A	
lm	porter: (Applies to TMC Shipments Only)	Deliver to:	住所:	
Ov TO Nis	rth America EDER Gr., Technical Dept. #1 erseas Customer Service Technical Div. YOTA MOTOR CORPORTATION shin Education & Training Center 10, SAKAE, NISSHIN, AICH, 470-0113 pan	Attn: Tel:	宛先: Tel:	
T-S	TAR			<u> </u>
Not	te: If this FTR contains more than one VIN, crea	te a table in the report containing \	VIN, production date, and odometer	FOR CUSTOMS USE: Used Parts Value
	Part # 1: Part Des 4405048070 ACTU	cription ATOR ASSY, BRAKE W/F	TUD	Qty. Used Part Value 1 \$ 368 .00
1	Comments:			
	Part # 2: Part Des	cription		Qty. Used Part Value
2	Comments:			0 \$ 0.00
	Part # 3: Part Des	cription		Qty. Used Part Value
3	Comments:			0 .00
	Part # 4: Part Des	cription		Qty. Used Part Value
4	Comments:			\$ .00
	Part # 5: Part Des	cription		Qty. Used Part Value
5	Comments:			\$ .00
	Part # 6: Part Des	cription		Qty. Used Part Value
6	Comments:			\$ .00
	Part # 7: Part Des	cription		Qty. Used Part Value
7	Comments:			\$ .00
	Part # 8: Part Des	cription		Qty. Used Part Value
8	Comments:			\$ .00



DOC#	Affiliate	Dept.	Source	Location	Ref	Date
-JRC236531	TMS	QA-Powertrain	FTS	REG-CIN	21270-1	1/12/04
em Area F	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
e Vehicle	Sienna	2004	03-2003	11664 mi	5TDZA22C74	<b>4</b> S
e Vehicle :	Sienna	2004	03-2003	11664 mi	5TDZA22C74	1S

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

Repair Date	Optional Ref.	Optional Approval
November 12, 2003		

#### **Condition Description**

T.M.S. associate states vehicle throttle would not return to idle after accelerating. States the throttle pedal had to be lifted by hand before the engine would return to idle. This is the reported drive cycle prior to the incident; accelerated up hill about 30-40 mph, lift throttle prior to turn, did not decelerate, applied brakes successfully slowing to negotiate turn, put transmission in neutral and engine revved high (did not notice if went to fuel cut), put back into drive and pulled over to side of road, reached down and pulled throttle pedal upward, vehicle went to idle and has not recurred.

## Diagnostic Steps:

F.T.S. inspected the vehicle after occurrence. Vehicle drives properly and no codes were stored. Noted the driver's side carpeted floor mat was installed upside down and not clipped in place. Associate does not believe floor mat was interfering with throttle. F.T.S. found sand on floor, probably from recent trip to beach area.

#### **Probable Cause**

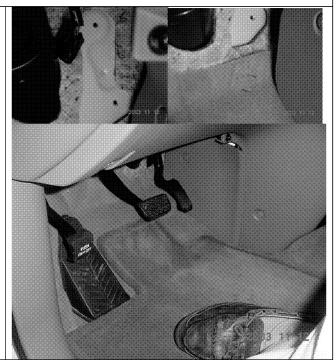
No probable cause could be determined by Field Technical Specialist.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
7812008020			Have part / will ship	TMMNA

#### **Repair Process**

Throttle pedal/sensor assembly recovered for further evaluation only, no fault found to exist.





Attachment 1: PRCS

Field Technical Report - Toyota Lexus (2/2003)



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-JRC23653	1 TMS	QA-Powertrain	FTS	REG-CIN	21270-1	1/12/04
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 ch	aracters):
Base Vehicle	Sienna	2004	03-2003	11664 mi	5TDZA22C74	48
Condition Title	-	1	· · · · · · · · · · · · · · · · · · ·	1	1	
Electronic Contr	ol Accelerator Pedal F	osition 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.

	Final Destination: TM	MNA			
lm	porter: (Applies to TMC Shipme	nts Only)	Deliver to:	住所:	<u>L</u>
	orth America EDER Gr., Technical Perseas Customer Service Technic		Attn:	宛先:	
Nis	DYOTA MOTOR CORPORTATION sshin Education & Training Center 210, SAKAE, NISSHIN, AICH, 470 pan		Tel:	Tel:	
No	te: If this FTR contains more than or	ne VIN, creat	e a table in the report containing VIN, production date, an	d odometer	FOR CUSTOMS USE: Used Parts Value
1	Part # 1: 7812008020 Comments:	Part Descr ROD AS	iption SSY, ACCELERATOR PEDAL	Qty.	Used Part Value \$ 5 .00
2	Part # 2:  Comments:	Part Descr	iption	Qty.	Used Part Value \$ 0 .00
3	Part # 3: Comments:	Part Descr	iption	Qty.	Used Part Value \$ 0 .00
4	Part # 4: Comments:	Part Descr	iption	Qty.	Used Part Value
5	Part # 5: Comments:	Part Descr	iption	Qty.	Used Part Value
6	Part # 6:  Comments:	Part Descr	iption	Qty.	Used Part Value
7	Part # 7: Comments:	Part Descr	iption	Qty.	Used Part Value
8	Part # 8:  Comments:	Part Descr	iption	Qty.	Used Part Value



TQCN DOC# FTR-7QR101241		Affiliate	Dept.	Source	Location	Ref	Date
		TMS	QA-Powertrain	FTS	REG-LA	20108-1	1/14/04
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	cters):	
Base Vehicle 4Runner		2004	05-2003	5222 mi	JTEBU14R330		
Condition Title				•	•		
2003 4Runner V6	Surging						

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

Repair Date	Optional Ref.	Optional Approval
12/30/03		

## **Condition Description**

- Customer complaint of vehicle surging especially during cold engine operation.
- F.T.S. verified that surge occurred during cold engine operation.
- Surge would occur during light throttle application while lightly accelerating.
- Once vehicle was warm (approximately 2-3 minutes), condition would cease.

#### Diagnostic Steps:

- Scan tool data showed no trouble code stored during malfunction.
- Snapshot data (attached below) indicates that throttle position varies greatly with no change in pedal position.
- Ground input to throttle body suspected.
- When brown wire E2 to throttle body was bypassed directly to engine ground, problem was rectified.(See photo below).
- Harness ground splice disassembled for inspection.

#### **Probable Cause**

- Splice point E8 suspected as problem.
- Voltage drop was detected as .5 volt at ground splice E8 on sensor wire between E2 terminal on engine E.C.M. and plug T2 terminal #3 on throttle position sensor.

4 amp load was applied to circuit during this test.

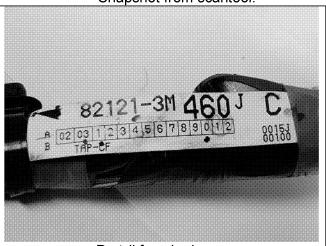
Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
821213M460			Have part / will ship	2107

#### **Repair Process**

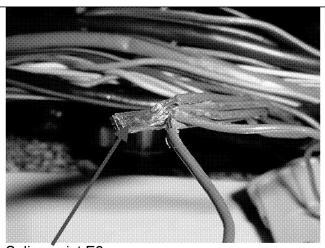


runner.doc"

Snapshot from scantool.



Part # for wire loom.

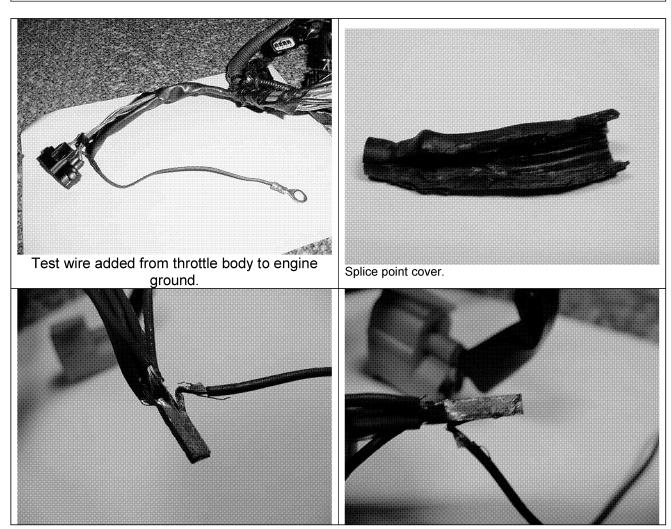


Splice point E8.

Field Technical Report - Toyota Lexus (9/2003)



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date				
FTR-7QR101241		TMS	QA-Powertrain	FTS	REG-LA	20108-1	1/14/04				
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):				
Base Vehicle 4Runne		er	2004	05-2003	5222 mi	JTEBU14R330					
Condition Title											
2003 4Runner V6 Surging											



Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date				
FTR-7QR101241		TMS	QA-Powertrain	FTS	REG-LA	20108-1	1/14/04				
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):				
Base Vehicle 4Runne		er	2004	05-2003	5222 mi	JTEBU14R330					
Condition Title											
2003 4Runner V6 Surging											

## Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN
Doc No.

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

CQE Eng: N/A Final Destination: 2107 SETR#: Importer: (Applies to TMC Shipments Only) Deliver to: 住所: North America EDER Gr., Technical Dept. #1 Attn: 宛先: Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Tel: Nisshin Education & Training Center Tel: 5-210, SAKAE, NISSHIN, AICH, 470-0113 Japan T-STAR FOR CUSTOMS USE: Used Parts Value Note: If this FTR contains more than one VIN, create a table in the report containing VIN, production date, and odometer Used Part Value Part Description Qty. 821213M460 WIRE, ENGINE 1 \$ 106 .00 1 Comments: Part # 2: Used Part Value Part Description Qty 0 \$ 0.00 2 Comments: Part # 3: Part Description Qty **Used Part Value** 0 \$ 0.00 Comments: Part # 4: Part Description Qty. Used Part Value \$ .00 Comments: Part # 5: Used Part Value Part Description Qty. .00 \$ 5 Comments: Part # 6: Part Description Qty. **Used Part Value** .00 Comments: Part # 7: Part Description Qty. Used Part Value \$ .00 7 Comments: Part # 8: Used Part Value Part Description Qty. .00 8 Comments:



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date				
FTR-7QK101441	Α	TMS	QA-Powertrain	FTS	REG-LA	21340-1	1/21/04				
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):				
Base Vehicle	Camry		2004	09-2003	1087 mi	4T1BE32K04U					
Condition Title											
Engine Wire Harness Surge Engine Compartment											

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

Repair Date	Optional Ref.	Optional Approval
12/30/03	27746	

# **Condition Description**

- Customer complaint of vehicle surging especially during cold engine operation.
- F.T.S. verified that surge occurred during cold engine operation.
- Surge would occur during light throttle application while lightly accelerating.
- Once vehicle was warm (approximately 2-3 minutes), condition would cease.

## **Diagnostic Steps:**

- Scan tool data showed no trouble code stored during malfunction.
- Snapshot data (attached below) indicates that throttle position varies greatly with no change in pedal position.
- Ground input to throttle body suspected.
- When brown wire E2 to throttle body was bypassed directly to engine ground, problem was rectified.(See photo below).
- Harness ground splice disassembled for inspection.

#### **Probable Cause**

- Splice point E8 suspected as problem.
- Voltage drop was detected as .5 volt at ground splice E8 on sensor wire between E2 terminal on engine E.C.M. and plug T2 terminal #3 on throttle position sensor.

• 4 amp load was applied to circuit during this test.

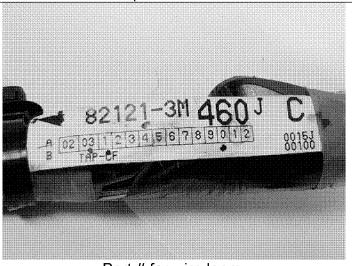
F	aı	t:	#	1:							Τ	F	a	rt	#	2:							1	Pa	irt	#	3	:							F	a	rts	s C	Dis	sp	os	iti	on	ı.					Pa	art	s	Sh	ıir	pi	inç	<b>a</b> [	Эe	sti	na	itic	n.	
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											- 1																																																			

## Repair Process

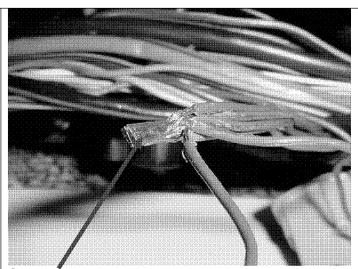


"snap shot for 4 runner.doc"

Snapshot from scantool.



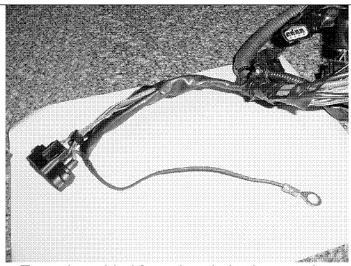
Part # for wire loom.



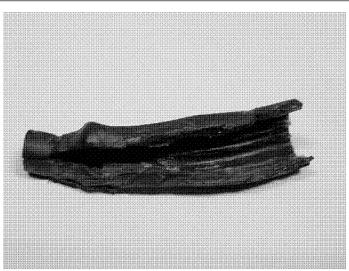
Splice point E8.



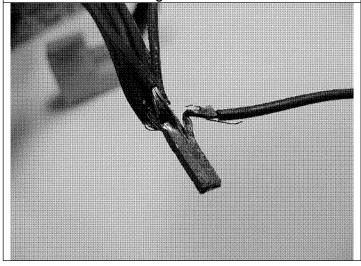
TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-7QK101441	Α	TMS	QA-Powertrain	FTS	REG-LA	21340-1	1/21/04
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Camry		2004	09-2003	1087 mi	4T1BE32K04U	
Condition Title							
Engine Wire Harn	ess Surge	e Engine Comp	artment				

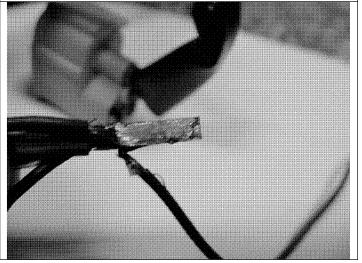


Test wire added from throttle body to engine ground.



Splice point cover.





Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.		Source	Location	Ref	Date
FTR-7QK101441	4	TMS	QA-Powertrain	1	FTS	REG-LA	21340-1	1/21/04
Problem Area	Primary M	odel	Model Year	1	Production Date	Odometer	VIN (confirm 17 ch	aracters):
Base Vehicle	Camry		2004		09-2003	1087 mi	4T1BE32K04	U
Condition Title								
Engine Wire Harn	ess Surg	e Engine Comp	artment					

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN
Doc No.

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 En	g: N/A	
lmį	porter: (Applies to TMC Shipments Only)	Deliver to:		住所:	
Ov TO	th America EDER Gr., Technical Dept. #1 erseas Customer Service Technical Div. YOTA MOTOR CORPORTATION shin Education & Training Center	Attn:		宛先:	
5-2 Jap	10, SAKAE, NISSHIN, AICH, 470-0113 pan			Tel:	
T-S	TAR				
Not	e: If this FTR contains more than one VIN, creat	e a table in the report containi	ng VIN, production date, and	odometer	FOR CUSTOMS USE: Used Parts Value
1	Part # 1: Part Desc N/A Comments:	ription		(	Oty. Used Part Value 0 \$ 0.00
2	Part # 2: Part Desc  Comments:	ription			Oty. Used Part Value 0 \$ 0 .00
3	Part # 3: Part Desc  Comments:	ription			Oty. Used Part Value 0 \$ 0.00
4	Part # 4: Part Desc	ription		C	Qty. Used Part Value \$ .00
_	Comments:				
5	Part # 5: Part Desc  Comments:	ription			Qty. Used Part Value .00
	Part # 6: Part Desc	rintion		10	Qty. Used Part Value
6	Comments:				\$ .00
_	Part # 7: Part Desc	ription			Qty. Used Part Value \$ .00
7	Comments:				
•	Part # 8: Part Desc	ription			Qty. Used Part Value \$ .00
8	Comments:				



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref Date
FTR-VLG108941		TMS	QA-Powertrain	FPE	TMS	21674-1 3/29/04
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	ES 330		2004	09-2003	6121 mi	JTHBA30G3450
Condition Title						
ATM Hesitation an	id Jerk					

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

Repair Date	Optional Ref.	Optional Approval
3/29/04		

## **Condition Description**

Customer complained of vehicle hesitating and jerking when accelerating from a rolling stop.

## Diagnostic Steps:

Dealership Technician and FPE drove vehicle on freeway and in residential area around dealership, duplicating 3 distinct conditions during a rolling stop. (See details below)

#### **Probable Cause**

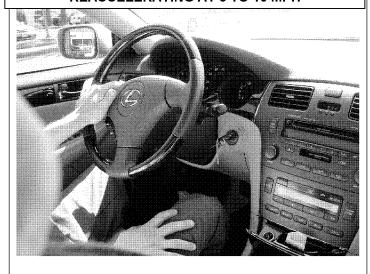
Exact cause is unknown. Suspected cause is ECM shifting logic takes too long to decide on which gear and how much throttle to apply during low speed acceleration demand from driver.

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ΙN																																										

## **Repair Process**

No known repair at this time.

#### **REACCELERATING AT 5 TO 10 MPH**



# PROBLEM DESCRIPTIONS

Decelerating to a stop light, for stopped traffic, or slowing for a turn and reaccelerating before stopping frequently results in the following conditions:

- Decelerate to 5 mph and lightly reaccelerate – Soft 2<sup>nd</sup> gear downshift then an abrupt 1<sup>st</sup> gear downshift.
- Decelerate to 5 mph and lightly reaccelerate – A single harsh jerk during downshift.
- Decelerate to 10 mph and lightly accelerate – Free rev to 2,000 rpm then a harsh downshift to 2<sup>nd</sup> gear.

NOTE: All 3 scenarios were described by customer and duplicated a minimum of 2 times each in a 45 minute test drive by DS and FPE.

Attachment 1: PRCS



TQCN DOC#		Affiliate	De	pt.		Source	Location	n	Ref			Date		
FTR-VLG108941		TMS	Q,	A-Powertrain		FPE	TMS		21	674-1		3/29	/04	
Problem Area	Primary Mo	odel		Model Year	F	Production Date	Odome	ter	VIN (	confirm 17 cha	racte	ers):		
Base Vehicle	ES 330			2004	(	09-2003	6121	mi	JTH	HBA30G34	50			
Condition Title														
ATM Hesitation ar	nd Jerk													

# Attachment 1: Parts Recovery Control Sheet

VIN

SETR#:

TQCN Doc No.

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.

N/A

Importer: (Applies to TMC Shipments Only) North America EDER Gr., Technical Dept. #1 Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION

Final Destination:

Deliver to:	住所:
Attn:	宛先:
Tel:	Tel:

CQE Ena:

5-2	sshin Education & Tra 210, SAKAE, NISSHI pan		Tel:
T-9	STAR		
No	te: If this FTR contains	s more than one VIN, create a table in the report containing	VIN, production date, and odometer FOR CUSTOMS USE: Used Parts Value
1	Part # 1: N/A Comments:	Part Description	Qty. Used Part Value 0 \$ 0.00
2	Part # 2:  Comments:	Part Description	Qty. Used Part Value 0 \$ 0.00
3	Part # 3:  Comments:	Part Description	Qty. Used Part Value 0 \$ 0.00
4	Part # 4: Comments:	Part Description	Qty. Used Part Value \$ .00
5	Part # 5:  Comments:	Part Description	Qty. Used Part Value \$ .00
6	Part # 6:  Comments:	Part Description	Qty. Used Part Value \$ .00
7	Part # 7:  Comments:	Part Description	Qty. Used Part Value \$ .00
8	Part # 8:	Part Description	Qty. Used Part Value \$ .00

TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-VGF209041	TMS	QA-Powertrain	FPE	REG-SF	21214-1	3/30/04
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	LS 430	2004	09-2003	5731 mi	JTHBN36F640	
Condition Title						
ENGINE LACKS I	POWER/SURGES-FUEL	PUMP MALFUNCTI	NC			

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

Repair Date	Optional Ref.	Optional Approval
03/26/04		

#### **Condition Description**

Engine lacked power during low speed operation and surged while driving on freeway with Cruise Control set (approx. 65 mph). Condition was very intermittent, but occurred repeatedly during previous 2 weeks before repair date. Engine Serial Number was: 3UZ-0246322.

- Technician was unable to duplicate malfunction.
- Engine performance appeared to be otherwise normal.
- MIL had not illuminated and no DTCs were found in ECM memory.

Affected vehicle was a 2004 LS 430 Ultra Luxury model equipped with 3UZ-FE engine, A761E transmission, and all available factory options.

## Diagnostic Steps:

Technician extensively test drove vehicle with customer, but was unable to duplicate lack of power/surging malfunction.

- Technician independently test drove vehicle under city and freeway conditions and could not duplicate reported malfunction, even after accumulating approx. 2 hours of testing.
- However, on one occasion, engine stalled 3 times while driving around dealership at approx. 15 mph after cold start-up. Engine started up immediately after each stalling event.
- Technician examined vehicle and determined that the fuel pump was the most likely cause of condition.

## Probable Cause

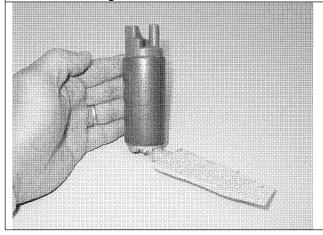
Analysis indicated that the fuel pump assembly was malfunctioning, causing intermittent lack of engine power, surging, and stalling due to low fuel pressure.

- Fuel inside the fuel tank was clean, but a small amount of foreign material or debris was noted on bottom of the tank.
- Fuel pump inlet screen was clean, and exhibited no sign of foreign material or debris.

Darf # 1	5-446	B-4#6	Parte Dianocition	Porto Chinning Doctinations
Pant # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Snipping Destination:
0000050440				
1 2322050110			Have part / will ship	2106

#### Repair Process

Fuel Pump assembly ("Pump Assy, Fuel" PN 23220-50110) was replaced, correcting condition. Malfunctioning OEM unit was recovered, and will be forwarded to TMS QAP with this Report.



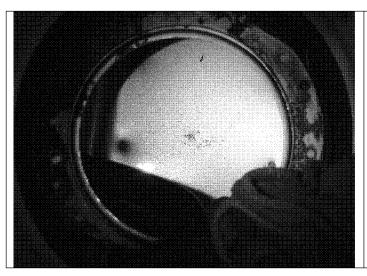
Overall view of malfunctioning LS 430 Fuel Pump that had caused intermittent lack of Engine power, surging and stalling due to low fuel pressure.

- Fuel Pump was manufactured by Aisan.
- A yellow-colored paint mark was located on rear of the brown plastic housing.
- No other markings were identified on Fuel Pump assembly.

Note: Fuel pump Connector Receptacle sustained damage when it was accidentally dropped after removal from Vehicle.



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-VGF209041	TMS	QA-Powertrain	FPE	REG-SF	21214-1	3/30/04
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	LS 430	2004	09-2003	5731 mi	JTHBN36F640	
Condition Title						
ENGINE LACKS F	OWER/SURGES-FUEL	PUMP MALFUNCTI	ION			



Close-up photo of fuel tank showing a small accumulation of dirt/debris on floor of tank immediately below fuel pump assembly.

- Debris accumulation was small, and none was found on fuel pump inlet screen assy.
- Debris had not been introduced to the fuel tank when fuel pump was removed, and was identified immediately after Fuel Pump/Sender/Filter assembly was dismounted.

Attachment 1: PRCS

## 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

VIN
TQCN
Doc No.



	Final Destination: 2106		SETR#:		CQE Ei	ng:	N/A	
lm	porter: (Applies to TMC Shipments Or	Delive	r to:			住房	· 沂:	•
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T-8	STAR				III			
No	te: If this FTR contains more than one VIN,		n the report cont	aining VIN, producti	•••			FOR CUSTOMS US Used Parts Value
1		Description MP ASSY, F	FUEL W/FIL <sup>-</sup>	ΓER			Qty.	Used Part Value \$ 44 .0
_	Part # 2: Part	Description					Qty.	Used Part Value
2	Comments:							
3	Part #3: Part	Description					Qty.	Used Part Value
J	Comments:							



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-VRR313241	A TMS	QA-Chassis	FPE	REG-LSA	20446-1	5/12/2004
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	RX 330	2004	10-2003	6224 mi	JTJGA31U140	
Condition Title						
BRAKES GRADU	JALLY RELEASE - ABS	SACTUATOR				

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

Repair Date	Optional Ref.	Optional Approval
4/5/04	0510043	

#### **Condition Description**

Customer states when sitting at a stoplight the brakes gradually release and the vehicle begins to creep forward. The brake pedal must be applied harder to stop the vehicle.

## Diagnostic Steps:

- 1. The vehicle was test-driven and the problem was duplicated. A brake pedal depressor (from the alignment machine tools) was used to hold a consistent pressure on the brake pedal. After the brake pedal was depressed with a constant brake pressure the vehicle began to creep forward after several seconds. This was done several times with the same result.
- 2. The vehicle was checked for diagnostic trouble codes: None
- 3. The master cylinder and booster assembly were replaced and had no effect on the condition
- 4. The ABS actuator was replaced and the problem was eliminated.

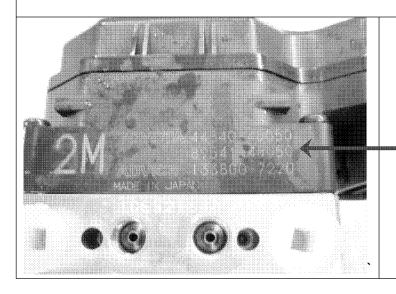
# Probable Cause

Unknown at this time.

Part # 1:	Part # 2: Part # 3: Parts Disposition: Parts Shipping Destination:
4405048150	Have part / will ship   TMC

#### Repair Process

Replacing the ABS actuator repaired the vehicle.



TOYOTA 44540-48050 89541-48050 ADVICS 133800-7220

10E521848

Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VRR313241	Д	TMS	QA-Chassis	FPE	REG-LSA	20446-1	5/12/2004
Problem Area	Primary Mo	del	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	RX 330		2004	10-2003	6224 mi	JTJGA31U140	
Condition Title							
BRAKES GRADU	ALLY RE	LEASE - ABS A	CTUATOR				

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN

Doc No.

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

					•••					
	Final Destination: TMC			SETR#:		CQE Eng:	N/A			
lmį	oorter: (Applies to TMC Shipment	s Only)	Deliver	to:		住房	斤:			
Ov TO Nis	th America EDER Gr., Technical Derseas Customer Service Technical YOTA MOTOR CORPORTATION shin Education & Training Center 10, SAKAE, NISSHIN, AICH, 470-0 an	Div.	Attn: Tel:			宛ź Tel				
T-S	TAR									
Not	e: If this FTR contains more than one	VIN, create	a table in	the report conta	aining VIN, producti	on date, and odor	neter			TOMS USE:
1		Part Descri ACTUAT		SSY, BRAKE	: W/FLUID			Qty.	Used P	art Value 367 .00
	Part # 2:	Part Descri	ption					Qty.		art Value
2	Comments:							0	\$	0 .00
_	Part # 3:	Part Descri	ption					Qty.	Used P	art Value 0 .00
3	Comments:									
_	Part # 4:	Part Descri	ption					Qty.	Used P	art Value .00
4	Comments:									
	Part # 5:	Part Descri	ption					Qty.	Used P	art Value
5	Comments:								Ψ	.00
	Part # 6:	Part Descri	ption					Qty.	Used P	art Value
6	Comments:								Φ	.00
	Part # 7:	Part Descri	ption					Qty.	Used P	art Value .00
7	Comments:								Ψ	.00
	Part # 8:	Part Descri	ption					Qty.		art Value
8	Comments:								\$	.00



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref Date
FTR-VRR313241		TMS	QA-Chassis	FPE	REG-LSA	20446-1 5/12/2004
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	RX 330		2004	12-2003	684 mi	JTJGA31U040
Condition Title						
BRAKES GRADU	IALLY RE	LEASE - ABS A	CTUATOR			

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

Repair Date	Optional Ref.	Optional Approval
4/13/04	0510042	

## **Condition Description**

Customer states when sitting at a stoplight the brakes gradually release and the vehicle begins to creep forward. The brake pedal must be applied harder to stop the vehicle.

## Diagnostic Steps:

- 1. The vehicle was test-driven and the problem was duplicated. A brake pedal depressor (from the alignment machine tools) was used to hold a consistent pressure on the brake pedal. After the brake pedal was depressed with a constant brake pressure the vehicle began to creep forward after several seconds. This was done several times with the same result.
- 2. The vehicle was checked for diagnostic trouble codes: None
- 3. The master cylinder and booster assembly were replaced and had no effect on the condition
- 4. The ABS actuator was replaced and the problem was eliminated.

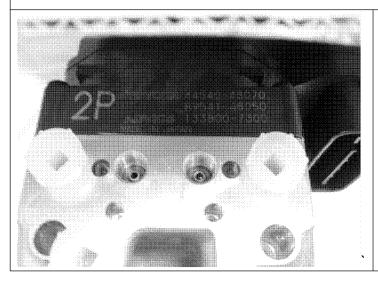
## Probable Cause

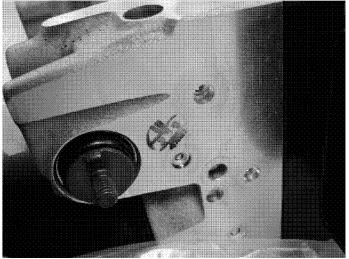
Unknown at this time.

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																															T.:							Γ.						1										

#### Repair Process

Replacing the ABS actuator repaired the vehicle.





Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.		Source	Location		Ref		Date	
FTR-VRR313241		TMS	QA-Chassis	<b>.</b>	FPE	REG-L	SA	20446-	1	5/12/20	04
Problem Area	Primary Mo	odel	Model Year		Production Date	Odometer		VIN (confirn	n 17 charac	ters):	
Base Vehicle	RX 330		2004		12-2003	684 mi		JTJGA3	1U040		
Condition Title											
BRAKES GRADU	ALLY RE	LEASE - ABS A	CTUATOR								

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN
Doc No.

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

	rap , properly dispose of the part.							 
	Final Destination: TMC			SETR#:		CQE Eng:	N/A	
lm	porter: (Applies to TMC Shipment	s Only)	Delive	r to:		住所:		
Ov TO Nis 5-2	rth America EDER Gr., Technical Deerseas Customer Service Technical YOTA MOTOR CORPORTATION eshin Education & Training Center 110, SAKAE, NISSHIN, AICH, 470-0	Div.	Attn: Tel:			宛先: Tel:		
T-S	TAR							
Not	te: If this FTR contains more than one	VIN, create	a table ir	the report conta	aining VIN, production	n date, and odometer		FOR CUSTOMS USE
1		Part Descri ACTUA		SSY, BRAKE	: W/FLUID		Qty.	Used Part Value \$ 367 .0
	Part # 2:	Part Descri	ption				Qty.	Used Part Value
2	Comments:						0	\$ 0.0
_	Part # 3:	Part Descri	ption				Qty.	Used Part Value
3	Comments:							1
	Part # 4:	Part Descri	iption				Qty.	Used Part Value
4	Comments:							
	Part # 5:	Part Descri	iption				Qty.	
5	Comments:							.0
	Part # 6:	Part Descri	iption				Qty.	Used Part Value
6	Comments:							.0
	Part # 7:	Part Descri	iption				Qty.	
7	Comments:							.0
	Part # 8:	Part Descri	iption				Qty.	
8	Comments:							\$ .0



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref Date
FTR-J0K116041		TMS	QA-Powertrain	FTS	REG-GST	22709-1 6/9/2004
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	Camry		2004	02-2004	1502 mi	4T1BE32K54U
Condition Title						
Engine Surge, A/F	Sensor	Malfunction				

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

Repair Date	Optional Ref.	Optional Approval
05/11/2004		

## **Condition Description**

Vehicle surges when driving under light load. No DTC's stored in the ECM.

## Diagnostic Steps:

- Inspected fuel pressure. Fuel pressure was 46 psi.
- Inspected operation of mass airflow sensor. Used calculated load per Repair Manual and compared readings, all readings within specifications. Exchanged MAS with known good unit, no change in condition.
- Exchanged ECM with KGU ECM with no change.
- Disconnected air/fuel ratio sensor and problem went away.

#### **Probable Cause**

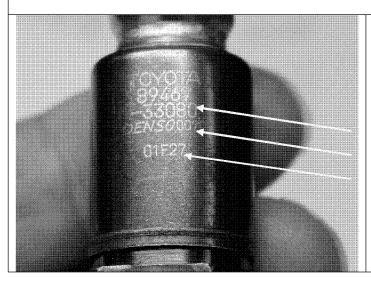
False signal from the air/fuel ratio sensor.

Dealership did not provide Techview file, the type of false signal is not available.

Part #1:	Part # 2: Part # 3:	Parts Disposition:	Parts Shipping Destination:
8946733080		Have part / will ship	TMMNA

## Repair Process

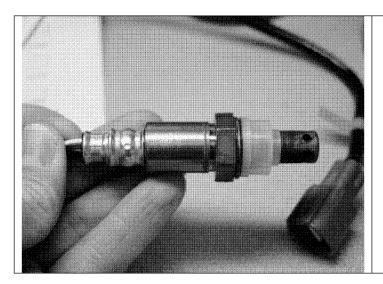
Replacing the sensor corrected the concern.



Air/Fuel Ratio Sensor P/N 89467-33080 Denso 0070 01F27



TQCN DOC#		Affiliate	Dept.	Source	Location	- I RΔf	Date
FTR-J0K116041		TMS	QA-Powertrain	FTS	REG-GST	22709-1	6/9/2004
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	cters):
Base Vehicle	Camry		2004	02-2004	1502 mi	4T1BE32K54U	
Condition Title							
Engine Surge, A/F	Sensor	Malfunction					



Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref Date
FTR-J0K116041		TMS	QA-Powertrain	FTS	REG-GST	22709-1 6/9/2004
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	Camry		2004	02-2004	1502 mi	4T1BE32K54U
Condition Title	·					
Engine Surge, A/F	Sensor I	Malfunction				

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN

Doc No.

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

scrap , properly dispose of the part.				<b>111</b>						
	Final Destination: TMMNA		SETR#:		CQE Eng		N/A			
lm	porter: (Applies to TMC Shipments Only	Delive	er to:		1	È所:				
Ov	rth America EDER Gr., Technical Dept. #1 erseas Customer Service Technical Div. YOTA MOTOR CORPORTATION	Attn:			多	记先:				
Nis 5-2	sshin Education & Training Center 210, SAKAE, NISSHIN, AICH, 470-0113 pan	Tel:			Т	el:				
T-S	TAR									
No	te: If this FTR contains more than one VIN, cre	ate a table i	n the report conta	aining VIN, product	tion date, and o	lometer			CUSTOMS ( ed Parts Val	
1		cription OR, AIR	FUEL RATIO	)			Qty 1	Use \$	d Part Val	
	Part # 2: Part Des	cription					Qty	. Use	d Part Va	lue
2	Comments:						0	\$	0	.00
	Part # 3: Part Des	cription					Qty 0		d Part Val	lue .00
3	Comments:					<u> </u>	<u></u>	Ψ	<b></b>	.00
	Part # 4: Part Des	cription					Qty	. Use	d Part Va	lue .00
4	Comments:							_ Ψ		.00
	Part # 5: Part Des	cription					Qty	. Use	d Part Va	lue .00
5	Comments:							Ψ		.00
	Part # 6: Part De:	cription					Qty		d Part Va	
6	Comments:							\$		.00
	Part # 7: Part De:	cription					Qty		d Part Val	
7	Comments:							\$		.00
	Part #8: Part De:	scription					Qty		d Part Va	
8	Comments:							\$		.00

TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	l Data
FTR-JCK118141		TMS	QA-Powertrain	FTS	REG-BOS	22771-1	6/29/2004
Problem Area	Primary Mo	del	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Camry		2004	04-2004	562 mi	4T1BF32K24U	
Condition Title							
Hesitation on Acc	eleration						

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

Repair Date	Optional Ref.	Optional Approval
6-23-04		

## **Condition Description**

Intermittent hesitation, throttle response during up-shift on acceleration after a deceleration. This is usually after a long deceleration, or going around a curve in the road at slow speeds.

# Diagnostic Steps:

Dealership installed scan tool to capture condition and could not duplicate condition. Dealership stated they have been able to duplicate condition on one occasion. Customer states that the delay is approximately 2 to 3 seconds long, tech stated more like 1 to 1 and 1/2 second long. The customer also experienced this in a similar vehicle on the dealership lot.

## **Probable Cause**

The customer is feeling the response from the drive by wire response while the transmission is about to change gears. The customer also stated when the vehicle does respond, the vehicle moves strongly forward (as if it has down shifted in response to throttle input)

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

#### Repair Process

TSB – TC002-03 was performed TAS case	# 041540039

Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-JCK118141		TMS	QA-Powertrain	FTS	REG-BOS	22771-1	6/29/2004
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Camry		2004	04-2004	562 mi	4T1BF32K24U	
Condition Title							
Hesitation on Acc	eleration						

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking VIN

Doc No.

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

	Final Destination: N/A			SETR#:		CQEE	ng:	N/A				
lm	porter: (Applies to TMC Shipmen	ts Only)	Deliver	r to:			住所	•		4		
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 than one	VIN, create	a table in	the report cont	aining VIN, producti	on date, and	d odom	eter			R CUSTO	
	Part # 1:	Part Descrip	tion						Qty.		Ised Part	
1	N/A Comments:								0	\$		0 .00
_	Comments.											
	Part # 2:	Part Descrip	otion						Qty.	1	Ised Part	
2	Comments:								0	\$		0 .00
	Comments.											
	Part # 3:	Part Descrip	otion						Qty.		Jsed Part	
3	Comments:								0	\$		0 .00
	onimonico.											
	Part # 4:	Part Descrip	otion						Qty.	1	Ised Part	
4	Comments:									\$		.00
	Part # 5:	Part Descrip	otion						Qty.	\$	Ised Part	Value .00
5	Comments:									Ψ		.00
	Part # 6:	Part Descrip	otion						Qty.	\$  \$	Ised Part	Value .00
6	Comments:									ĮΨ		.00
		I										
_	Part # 7:	Part Descrip	otion						Qty.	\$	Ised Part	Value .00
7	Comments:									ĮΨ		.00
	D	D-4 D :	41						04:		lead D. 1	
	Part # 8:	Part Descrip	otion						Qty.	\$	Ised Part	Value .00
8	Comments:	1								. ▼		



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref Date				
FTR-8FR318941	TMS	QA-Powertrain	FTS	REG-LWA	23066-1 7/8/2004				
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 characters):				
Base Vehicle	RX 330	2004	10-2003	5143 mi	JTJHA31U940				
Condition Title	Condition Title								
RPM Fluctuation at all RPMs, Worse at Idle. Wire Harness									

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

Repair Date	Optional Ref.	Optional Approval	
7/2/2004			

#### **Condition Description**

Surging, approximately 100 RPM every 3-5 seconds, noticed primarily at idle, but occurring at all engine speeds. The surging is accompanied by a puffing sound heard in the air filter housing.

## Diagnostic Steps:

Prior to FTS involvement dealer technician checked or swapped: Air/fuel ratio sensors, fuel trim, air flow meter, ACIS valve, compression, leak-down, VVTi actuators, ETCSi actuator and TPS, ECM, swapped ignition coils and igniter assemblies.

After FTS involvement the cylinder heads were removed. Valve springs, valve seats, valve guides, lifters and cams were inspected. Electrical and circuit checks included: air flow meter, VVTi oil control valve circuits, VVTi position sensor circuits, NE sensor circuit, ignition system circuits, base timing, throttle control motor and TPS circuits.

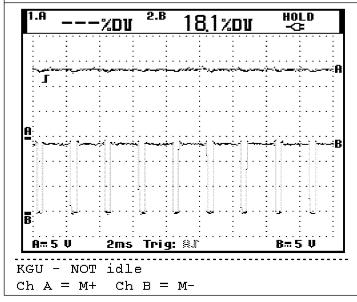
## **Probable Cause**

Voltage spike on VTA and VTA2 caused the ECM to turn off the power supply on M+ throttle control motor terminal. See scope shots below:

		Book # 60	
Part # 1:	Part # 2	Part # 3: Parts Disposition:	Parts Shipping Destination:
I alt # I.	I UIL # 4.	i art # 0.	i arts omppning bestination.
			· · · · · · · · · · · · · · · · · · ·
022100E010		Have nart / will shin	COEC
1 022 10000 10	1	Have part / will ship	UUEU
	•		. T. <del>71</del> T

#### Repair Process

Once the relationship between the spikes on VTA and the M+ was found, bypassed VTA and VTA2 wires with external jumper wires. Condition still present. Swapped wiring harness from known good unit and condition was corrected.

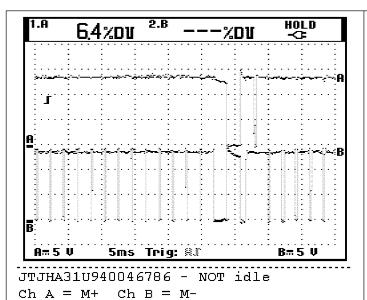


#### Picture 1:

Known good unit at normal operating temperature idle. M+ is a steady +B power supply and M- is duty cycled to control idle speed.

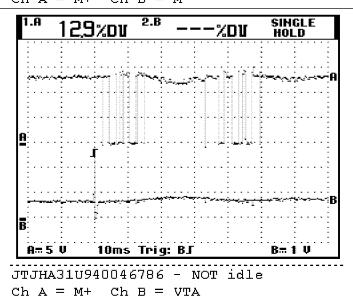


TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-8FR318941		TMS	QA-Powertrain	FTS	REG-LWA	23066-1	7/8/2004
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	RX 330		2004	10-2003	5143 mi	JTJHA31U940	
Condition Title	Condition Title						
RPM Fluctuation	at all RPN	/ls, Worse at Idle	e. Wire Harness				



Picture 2:

This is the problem car at normal operating temperature idle.

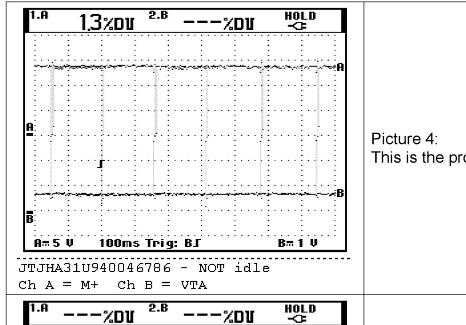


Picture 3:

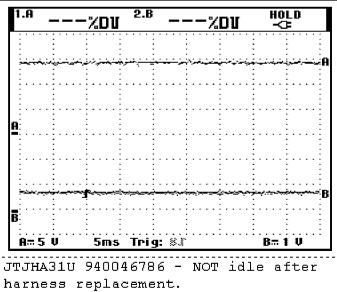
This is the problem car showing M+ and VTA. Note the spike in VTA and shortly afterward the pattern on M+.



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-8FR318941	TMS	QA-Powertrain	FTS	REG-LWA	23066-1	7/8/2004
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 charac	cters):
Base Vehicle	RX 330	2004	10-2003	5143 mi	JTJHA31U940	
Condition Title	Condition Title					
RPM Fluctuation a	at all RPMs, Wors	se at Idle. Wire Harness				



This is the problem car at 100 ms per division.



Picture 5:

After wiring harness replacement. Note the absence of spikes on VTA and pattern on M+ compared to Pictures 3 and 4.

Attachment 1: PRCS

Ch A = M+ Ch B = VTA



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref Date
FTR-8FR318941	TMS	QA-Powertrain	FTS	REG-LWA	23066-1 7/8/2004
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	RX 330	2004	10-2003	5143 mi	JTJHA31U940
Condition Title					
RPM Fluctuation a	at all RPMs, Worse at Id	e. Wire Harness			

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN

Doc No.

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

	Final Destination: CQE	EC .		SETR#:		CQE Eng	j: N/	Α		
	porter: (Applies to TMC Shipmen		Delive				<u>1</u> 上 生所:			
No Ov TO Nis	th America EDER Gr., Technical Derseas Customer Service Technical YOTA MOTOR CORPORTATION shin Education & Training Center	ept. #1 I Div.	Attn:				ェ <i>ק</i> . 宛先: Ге1:			
	10, SAKAE, NISSHIN, AICH, 470- oan	0113								
Jup	AIII									
T-S	TAR									
Not	e: If this FTR contains more than one	VIN, create	a table ii	n the report cont	aining VIN, product	ion date, and o	dometer			OMS USE:
1	Part #1: 822100E010 Comments:	Part Descri	ption					Qty.	Used Pa	ort Value 0.00
2	Part # 2: Comments:	Part Descri	ption					Qty.	Used Pa	ort Value 0 .00
3	Part # 3: Comments:	Part Descri	ption					Qty.	Used Pa	ort Value 0 .00
_ 1	Part # 4:	Part Descri	ption					Qty.	Used Pa	art Value .00
•	Comments:									
_	Part # 5:	Part Descri	ption					Qty.		art Value
5	Comments:								\$	.00
	Part # 6:	Part Descri	ption					Qty.		art Value
6	Comments:								\$	.00
	Part # 7:	Part Descri	ption					Qty.	Used Pa	art Value .00
7	Comments:								_Ψ	.00
	Part # 8:	Part Descri	ption					Qty.	Used Pa	art Value .00
8	Comments:	•								



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref Date
FTR-PW7120141	Д	TMS	QA-Powertrain	PE	TMS	23177-1 7/20/2004
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	Scion to	2	2005	05/2004	2491	JTKDE167050
Condition Title						
Performance Surg	je - Wher	n A/C engages				

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

Repair Date	Optional Ref.	Optional Approval					

## **Condition Description**

While driving at highway speeds (above 65 mph) when the A/C compressor engages there is a engine surge or bump that is felt through the floorboard at the drivers feet.

# Diagnostic Steps:

While driving at highway speeds if the A/C button is turned on and off, when turned on you can feel the surge/bump.

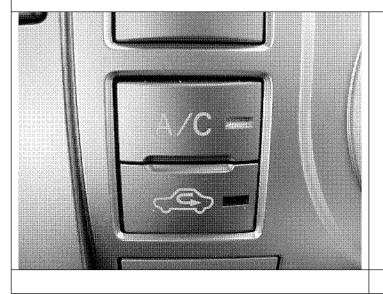
## **Probable Cause**

Unknown.

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

## **Repair Process**

No repairs made. This FTR is being written to inform TMC of this condition.



A/C "ON"

Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-PW7120141	Д	TMS	QA-Powertrain	PE	TMS	23177-1	7/20/2004
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Scion to	C	2005	05/2004	2491	JTKDE167050	
Condition Title							
Performance Surg	je - Wher	n A/C engages					

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking
VIN

Doc No.

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

	rap , properly dispose of the part.					
	Final Destination: N/A		SETR#:	CQE Eng:	N/A	
lmį	oorter: (Applies to TMC Shipments Onl	y) Deli∨e	r to:	住房	· 听:	
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		pe Technical Div.				
T-S	TAR					
Not	e: If this FTR contains more than one VIN, c	reate a table ii	n the report conta	aining VIN, production date, and odor	neter	FOR CUSTOMS USE: Used Parts Value
1	Part # 1: Part D N/A Comments:	escription			Qty.	
	Part # 2: Part D	escription			Qty	Used Part Value
2	Comments:				0	\$ 0.00
_	Part # 3: Part D	escription			Qty.	Used Part Value
3	Comments:					
_	Part # 4: Part D	escription			Qty.	Used Part Value
4	Comments:				1	
	Part # 5: Part D	escription			Qty.	
5	Comments:					\$ .00
	Part # 6: Part D	escription			Qty.	
6	Comments:					\$ .00
	Part # 7: Part D	escription			Qty.	Used Part Value
7	Comments:					<sub>.</sub> Ψ .00
	Part # 8: Part D	escription			Qty.	
8	Comments:					\$ .00



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-VRG122741	TMS	QA-Powertrain	FPE	REG-LSA	13898-3	8/16/2004
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ers):
Base Vehicle	ES 300	2002	05-2002	18869 mi	JTHBF30G120	
Condition Title	Condition Title					
Hesitation on Rea	cceleration (Shift Sched	ule) After C/M				

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

Repair Date	Optional Ref.	Optional Approval
8/13/04	64201	

#### **Condition Description**

Customer states when coasting or braking down to less than 15mph, then reaccelerating, a hesitation is felt before the vehicle begins to accelerate.

Note: TSIB TC004-03 was performed on this vehicle on 8/26/03 Customer has complained of shifting on the following repairs:

- 11/6/03 Jerks when accelerating from a rolling stop
- 2/5/04 Hesitation
- Present repair Hesitation on reacceleration

## Diagnostic Steps:

The vehicle was driven with the scan tool and a snapshot was taken while duplicating the condition. Only 9 items were selected in user data to maximize the update time of the scan tool. The snapshot was reviewed on Techview and revealed a **3.0 second delay** between when the accelerator pedal position sensor increased and vehicle speed increased (see picture below).

#### **Probable Cause**

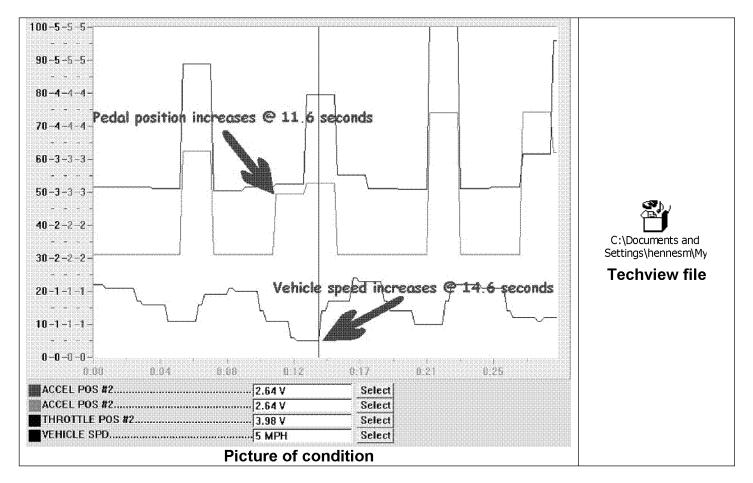
Transmission / EC	Transmission / ECM logic concern						
Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:			
N/A			No part available	N/A			

## Repair Process

No repairs were performed; the vehicle is operating as designed.



TQCN DOC#	Affiliat	e Dej	ot.	Source	Location	Ref	Date
FTR-VRG122741	TMS	Q/	A-Powertrain	FPE	REG-LSA	13898-3	8/16/2004
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	ES 300		2002	05-2002	18869 mi	JTHBF30G120	
Condition Title							
Hesitation on Rea	cceleration (Sh	ift Schedule)	After C/M				



Attachment 1: PRCS



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-VRG122741	TMS	QA-Powertrain	FPE	REG-LSA	13898-3	8/16/2004
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 chara	cters):
Base Vehicle	ES 300	2002	05-2002	18869 mi	JTHBF30G120	
Condition Title						
Hesitation on Rea	cceleration (Shift S	chedule) After C/M				

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking
VIN

Doc No.

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 Eng:	N/A			
lm	porter: (Applies to TMC Shipments On	Deliver to:		住	· 所:			
Ov TO Nis 5-2	rth America EDER Gr., Technical Dept. # erseas Customer Service Technical Div. PYOTA MOTOR CORPORTATION eshin Education & Training Center 210, SAKAE, NISSHIN, AICH, 470-0113	Attn: Tel:		宛 Te	先:			
T-S	TAR							
No	te: If this FTR contains more than one VIN,	create a table in the report c	ontaining VIN, producti	ion date, and odd	ometer		FOR CUSTOMS Used Parts V	
1	Part # 1: Part I N/A Comments:	Description				ety.	Used Part V	alue .00
2	Part # 2: Part [ Comments:	Description				ity. O	Used Part V	alue .00
3	Part # 3: Part I	Description				ety. O	Used Part V	alue .00
4	Part # 4: Part I	Description			C	ty.	Used Part V	alue .00
5	Part # 5: Part I	Description			C	ety.	Used Part V	alue .00
6	Part # 6: Part I	Description			C	ty.	Used Part V	alue .00
7	Part #7: Part I	Description			C	ety.	Used Part V	alue .00
8	Part #8: Part I	Description			C	lty.	Used Part V	alue .00



TQCN DOC# PR-63103-2174B	Affiliate TMS	Dept.	Powertrain	Source MDT/DS		Dealer Code 63103		Ref 23062-1	8/23/2004
Dealer Name	TIMO	Dealer City	. Jacanani	1.11.2 17.20	State	30.00	Region		SIZUIZUUT
LEXUS OF SMITHTO	ΛN	ST. JAMES			NY		LEA		
Primary Model		Model Year	Production		Odomete		VIN		
RX 330		2004	10-MA	AR-04	5231 n	ni	2T:	2HA31U040	
Condition Title Vehicle Jerks When Ad	ccelerating F	rom a Stop (S	Shift Schedu	ıle)					
Repair Date	Optional Re	ef.	Ap	plicable DTC Co	ode(s)				
27-JUL-2004									
Condition Description	n								
Customer states	veriicie je	iks wileir	accelel a	ung aner s	вюр.				
Diagnostic Steps:									
Road tested vehi	cle.								
Probable Cause									
ECU logic.									
•									
Part # 1:	Part # 2:		Part # 3	);	Pa	rts Available o	n Reque	est: Parts S	Shipping Destination
11111111111					N	o part availa	ble		
Repair Process									

Dealer Product Report – Toyota Lexus (4/2004)



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code	Ref	Date	
PR-63103-2174B	2174B TMS QA-Powertrain MDT/DS			63103	23062-1	8/23/2004			
Dealer Name			Dealer City				Region	egion	
LEXUS OF SMITHTOWN ST. JAMES				NY		LEA			
Primary Model		Model `	Year Productio	n Date	Odometer		VIN		
RX 330		2004	10-MA	R-04	)4 5231 mi		2T2HA31U04	C	
Condition Title			-1			_			
Vehicle Jerks When Ac	celerating Fi	rom a S	Stop (Shift Schedu	le)					

	tachment 1: Parts Reco	-			Orig Tracking VIN							
	not type in SHADED fields. If the rap, properly dispose of the part.		nation fi	eld below is	Doc No.							
ı	Final Destination:			SETR#:			CQE Eng	g:	N/A			
lm	porter: (Applies to TMC Shipme	nts Only)	Deliver	r to:				住所:				
Ov TO Nis 5-2	rth America EDER Gr., Technical erseas Customer Service Technic YOTA MOTOR CORPORTATION shin Education & Training Center 10, SAKAE, NISSHIN, AICH, 470 pan	al Div.	Attn: Tel:					宛先: Tel:				
T-S	TAR											
Not	te: If this FTR contains more than on	ie VIN, creato	e a table i	n the report con	taining VIN, p	roduc	tion date, and	odometer			USTOMS d Parts Va	
1	Part # 1: 1111111111111 Comments:	Part Descr	iption						Qty.	Used \$	d Part Va O	alue .00
2	Part # 2: Comments:	Part Descr	ption						Qty.	Used \$	d Part Va O	alue .00
3	Part # 3:  Comments:	Part Descr	iption						Qty.	Used \$	d Part Va O	alue ) .00
4	Part # 4: Comments:	Part Descr	ption						Qty.	Used \$	d Part Va	alue .00
5	Part # 5: Comments:	Part Descr	iption						Qty.	Used \$	d Part Va	alue .00
6	Part # 6: Comments:	Part Descr	ption						Qty.	Used \$	d Part Va	alue .00
7	Part # 7: Comments:	Part Descr	ption						Qty.	Used \$	d Part Va	alue .00



TQCN DOC#	Affiliate	Dept.		Source		Dealer Code		Ref	Date	
PR-64107-2344B	R-64107-2344B TMS QA-Powertrai		owertrain	ain MDT/DS		64107		23708-1	9/7/2004	
Dealer Name Dealer		ealer City	r City		State		Region			
LEXUS OF MEMPHIS MEMPHIS			TN		LSA					
Primary Model	M	lodel Year	Productio	n Date	Odometer		VIN			
ES 300	2	.002	22-JAN	I-02	13733 mi		JTHBF30G925			
Condition Title			,							
QA-Powertrain: Gas Pe	edal/Throttle/Flo	or Mat								

Repair Date	Optional Ref.	Applicable DTC Code(s)
10-AUG-2004		

#### **Condition Description**

Customer states vehicle accelerated on its own, stepping on brake pedal did not help in slowing it down. Customer was aware of the NHTSA investigation and refuses to drive vehicle.

### Diagnostic Steps:

Simply opened driver's door to get in vehicle and immediately saw a possible cause. Then put scan tool on to be sure ECM did not see anything abnormal, no codes in history, pending or current. All data reading normal.

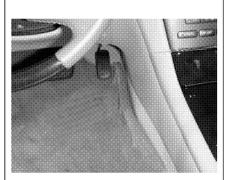
#### Probable Cause

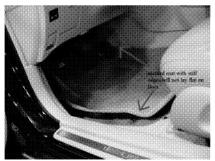
Customer using a hard molded carpeted floor mat with a smooth rubber bottom, enabling it to slide easily back and forth thus easily covering gas pedal.

Part # 1:	Part # 2:	Part # 3:	Parts Available on Request:	Parts Shipping Destination:
N/A			No part available	

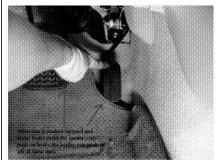
#### **Repair Process**

Spoke again with customer to see exactly when it occurred and customer stated that it happened on hard acceleration to pass someone. Also said engine shifted and sounded different, (transmission downshifted). By hand moved floor mat up to see just how it would interfere and it will interfere with accelerator pedal. Explained this to customer showing them the possibility and told them not to drive vehicle with that floor mat.





As shown in the picture the factory mat is still installed below aftermarket floor mat.



Aftermarket floor mat would slide forward and contact accelerator pedal. Pushing on brake pedal hard would cause floor mat to slide forward more.



TQCN DOC#			Dept. Source			Dealer Code	Ref	Date	
PR-64107-2344B			64107		23708	8-1 9/7/2004			
Dealer Name		Dealer City			State R		Region	Region	
LEXUS OF MEMPHIS MEMPHIS				TN LSA					
Primary Model		Model Year	Productio	n Date	Odometer		VIN		
ES 300		2002	22-JAN	I-02	13733 mi		JTHBF30	OG925	
Condition Title									
QA-Powertrain: Gas Pe	edal/Throttle/F	loor Mat							

Do	tachment 1: Parts Reco	-			Orig Tracking VIN Doc No.						
	rap", properly dispose of the part.  Final Destination:			SETR#:	B00 140.	••••	CQE E		N/A		
lm	porter: (Applies to TMC Shipmer	nts Only)	l Deliver	r to:				住所:			
Ov TO Nis 5-2	rth America EDER Gr., Technical I erseas Customer Service Technica YOTA MOTOR CORPORTATION shin Education & Training Center 110, SAKAE, NISSHIN, AICH, 470- pan	al Div.	Attn: Tel:					宛先: Tel:			
T-S	TAR										
Not	te: If this FTR contains more than on	e VIN, create	a table ii	n the report cont	aining VIN, p	roduc	tion date, an	d odomete	er		STOMS USE: Parts Value
	Part # 1:	Part Descri	ption						Qty.		Part Value
1	N/A Comments:								0	\$	0 .00
2	Part # 2: Comments:	Part Descri	ption						Qty.	Used F	Part Value 0 .00
	Part # 3:	Part Descri	ption						Qty.	Used F	Part Value
3	Comments:								0	_[Ψ	0 .00
	Part # 4:	Part Descri	ption						Qty.	1	Part Value
4	Comments:									\$	.00
	Part # 5:	Part Descri	ption						Qty.	Used F	Part Value
5	Comments:									\$	.00
_	Part # 6:	Part Descri	ption						Qty.	Used F	Part Value .00
6	Comments:										
_	Part # 7:	Part Descri	ption						Qty.	Used F	Part Value
7	Comments:	<u> </u>							1	<u>ΙΨ</u>	



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref Date
FTR-VQN134341	TMS	QA-Powertrain	FPE	TMS-LA	24891-1 12/9/2004
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	Tacoma	2005	01-Oct-2004	2368 mi	5TENX62N25Z
Condition Title					
NON-LINEAR OF	F-THROTTLE RE	SPONSE			

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

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

#### **Condition Description**

Customer complains engine RPM fluctuates or does not drop quickly when throttle is not applied (foot off of gas pedal).

- Customer states engine does RPM not decrease when clutch is disengaged (throttle released) during upshift.
- Customer states engine RPM may increase or decrease while the clutch is disengaged, and the throttle is released.
- Additional customer complaint describes a condition similar to an automatic transmission feeling during deceleration, where engine braking does not slow the vehicle while the throttle is released.

### Diagnostic Steps:

FPE test-drove vehicle with the dealer technician.

- Customer complaint of insufficient off-throttle engine braking could not be confirmed.
- Customer complaint of non-linear response during off-throttle was duplicated and recorded in attached Techview file.
- Condition can be duplicated by accelerating full throttle (4<sup>th</sup> gear) to above 4000 RPM, then
  releasing throttle as clutch pedal is depressed and held down.
- Click on NOTES icon to read explanations of data, as recorded and annotated by FPE.

#### **Probable Cause**

Unidentified characteristic of the vehicle.

- No DTC's stored in memory, and no DTC's found in Codes History.
- Customer vehicle drivability and performance consistent with other '05 Tacomas equipped with 2TR engine.

	art							ar							Р															)ar						
	J//																						: I\							٧//						

#### Repair Process

No action taken at this time.	
"5TENX62N25Z 12-8-04 04222.zir	Double-click icon to access Techview file. Click on Notes icon (top of Techview window) to read explanations of driving samples.



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref Date	
FTR-7I7105551	TMS	QA-Powertrain	FTS	TMS-NY	25816-1 2/2	5/2005
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Scion tC	2005	20-Sep-2004	2910 mi	JTKDE177750	
Condition Title						
Check engine ligh	t, engine speed surges	s/rough idle, DTC P030	0, P0301, P0304			

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

		 -	
Repair Date	Optional Ref.	Optional Approval	
28-JAN-2005			

# **Condition Description**

Customer states that the check engine light is on, engine has rough idle & surges when driving.

# Diagnostic Steps:

FTS verified customer concern. Retrieved diagnostic trouble codes P0300, P0301 & P0304 using diagnostic scan tool. Following checks were performed:

- Checked fuel quality & fuel pressure.
- · Checked engine timing.
- Checked for any vacuum leaks.
- Compression test.
- Checked spark plugs & wires.
- Performed EFI & checked injectors.
- Checked connections from all vital sensors to the ECM.

All above tests passed. FTS performed test drive using diagnostic scan tool to monitor following data:

- Engine RPM.
- MAF, O2 & A/F sensors
- Long & short fuel trim

Upon test drive FTS found A/F sensor fluctuating between 1.9v & 4.9v when the concern happens. FTS unplugged the A/F sensor & drove vehicle, vehicle acted normally. FTS swapped in known good A/F sensor to verify repair, vehicle operated within manufacturer's specification.

### Probable Cause

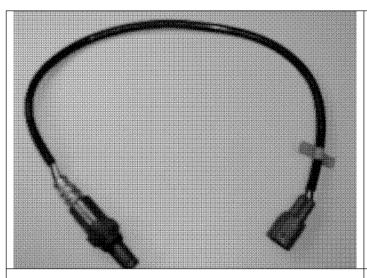
Failed A/F sensor.				
Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
8946733080			Have part / will ship	Z

#### **Repair Process**

Advised technician to replace A/F sensor.

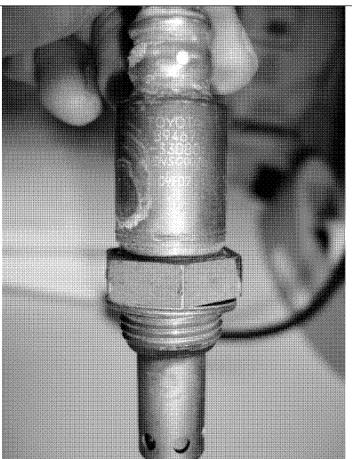


TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-717105551	TMS	QA-Powertrain	FTS	TMS-NY	25816-1	2/25/2005
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Scion tC	2005	20-Sep-2004	2910 mi	JTKDE177750	
Condition Title						
Check engine ligh	nt, engine speed surge	es/rough idle, DTC P0300	0, P0301, P0304			



Information on A/F sensor: 89467-33080, DENSO0070, 09F07





Attachment 1: PRCS



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref Date	
FTR-717105551	TMS	QA-Powertrain	FTS	TMS-NY	25816-1 2/25/2005	
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle	Scion tC	2005	20-Sep-2004	2910 mi	JTKDE177750	
Condition Title						
Check engine ligh	t, engine speed surges/	ough idle, DTC P0300	), P0301, P0304			

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking
VIN

Doc No.

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

	Final Destination: 2111	SETR#:	CQE Eng	: N/A	
lmį	porter: (Applies to TMC Shipments Only	Deliver to:	1	主所:	<u> </u>
Ov TO Nis	rth America EDER Gr., Technical Dept. #1 erseas Customer Service Technical Div. YOTA MOTOR CORPORTATION shin Education & Training Center	Attn: Tel:		包先: el:	
5-2 Jap	10, SAKAE, NISSHIN, AICH, 470-0113 pan				
	TAR				
Not	e: If this FTR contains more than one VIN, cr				FOR CUSTOMS USE: Used Parts Value
1		scription SOR, AIR FUEL RATI	0	<b>Qt</b> y	. Used Part Value
2	Part # 2: Part De Comments:	scription		Qty 0	
3	Part # 3: Part De	scription		Qty 0	
4	Part #4: Part De	scription		Qty	v. Used Part Value .00
		scription		Qty	v. Used Part Value \$ .00
5	Comments:  Part # 6: Part De	scription		Qty	
6	Comments:				\$ .00
7	Part #7: Part De	scription		Qty	Used Part Value  .00
8		scription		Qty	Used Part Value
	Comments:				



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code	Ref	Date
PR-61205-0735	TMS		QA-Powertrain	MDT/DS		61205	26112-1	3/15/2005
Dealer Name		Dealer	City		State	R	egion	
LEXUS OF HIGHLANI	D PARK	HIGH	LAND PARK		IL	L	CA	
Primary Model		Model `	Year Productio	n Date	Odometer	'	VIN	
LS 430		2005	10-NO	V-04	1098 m	ni	JTHBN36F855	
Condition Title								
QA-Powertrain: Autom	atic Transmi	ssion						

Repair Date	Optional Ref.	Applicable DTC Code(s)
03-MAR-2005		

#### **Condition Description**

THERE IS A DELAY WHEN SHIFTING FROM REVERSE TO DRIVE, THEN SHORTLY AFTER THAT YOU'LL FEEL IT ENGAGE WITH A LITTLE JERKING.

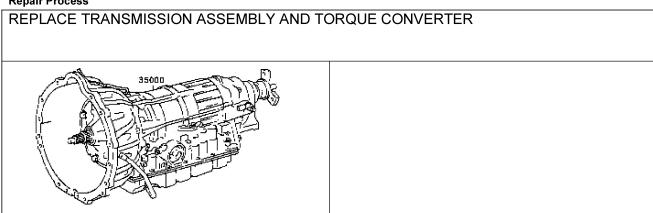
### Diagnostic Steps:

DID A PRESSURE TEST WITH THE TRANSMISSION PRESSURE GAGE. STALL TEST IN DRIVE WAS 60 PSI. STALL TEST IN REVERSE WAS 95 PSI. BOTH TESTS AT IDLE. STALL TEST IN DRIVE WAS 130 PSI. STALL IN REVERSE WAS 230 PSI. WITH FOOT ON BRAKE, IDLE SPEED YOU COULD SEE ON THE GAGE A DELAY IN PRESSURE FROM REVERSE TO DRIVE AND DRIVE TO REVERSE.

#### Probable Cause

i iobabic Gaase				
INTERNAL LE	AK DOWN IN TRAN	ISMISSION.		
Part # 1:	Part # 2:	Part # 3:	Parts Available on Request:	Parts Shipping Destination:
3500050150	3200050040		Yes	CQEC

### **Repair Process**





TQCN DOC#	Affiliate		Dept.	Source		Dealer Code	Ref		Date
PR-61205-0735	TMS		QA-Powertrain	MDT/DS		61205	26112	!-1	3/15/2005
Dealer Name		Dealer C	ity	•	State		Region		
LEXUS OF HIGHLAND PARK HIGH			ILAND PARK			IL I		LCA	
Primary Model		Model Ye	ear Productio	n Date	Odometei	r	VIN		
LS 430		2005	10-NO	V-04	1098 n	ni	JTHBN36	F855	
Condition Title			- I				-		
QA-Powertrain: Auton	natic Transmi	ssion							

Do	tachment 1: Parts Reco	-			Orig Tracking VIN Doc No.							
	Final Destination: CQI	ΞC		SETR#:			CQE Eng	:	N/A			
lm	porter: (Applies to TMC Shipme	nts Only)	Delive	r to:	I		1	 主所:		l		
Ov TO Nis 5-2	rth America EDER Gr., Technical erseas Customer Service Technic YOTA MOTOR CORPORTATION shin Education & Training Center 210, SAKAE, NISSHIN, AICH, 470-	al Div.	Attn:					宛先: `e1:				
T-S	TAR IIII											
Not	te: If this FTR contains more than on	e VIN, creat	e a table i	n the report con	taining VIN, p	roduc	tion date, and	odometer			CUSTOMS ed Parts Va	
	Part # 1:	Part Descr		NI ACOV					Qty.		ed Part Va	
1	3500050150 Comments:	TRANS	MISSIC	N ASSY					1	\$	834	.00
	Part # 2:	Part Descr							Qty.		ed Part Va	
2	3200050040 Comments:	CONVE	RTER /	ASSY, TOR	QUE				1	\$	143	.00
	Comments.											
	Part # 3:	Part Descr	iption						Qty.	Us	ed Part Va	alue
3									0	\$	0	.00
_	Comments:											
	Part # 4:	Part Descr	iption						Qty.	Use	ed Part Va	alue
4										\$		.00
•	Comments:											
	Part # 5:	Part Descr	iption						Qty.	Use	ed Part Va	alue
5										\$		.00
	Comments:											
	Part # 6:	Part Descr	iption						Qty.	l	ed Part Va	
6	Comments:									\$		.00
	Part # 7:	Part Descr	iption						Qty.		ed Part Va	
7	Comments:									\$		.00
	Comments.											

### 販売店プロダクトリポート



TQCN DOC#	系列会社	Ę	部	出所		ディーラー・コート	参考	日付
PR61205-0735	TMS	(	QAパワートレ	MDT/D		61205	26112-1	3/15/2005
ディーラー名		ディーラー	-都市		州	地	咸	
ハイランドパークの LE	EXUS	ハイラン	ノドパーク		IL	Lo	CA	
主要なモデル		モデルイヤ	·- 生産日		オドメータ		VIN	
LS 430		2005	10-11月	∃-04	1098 Ø	mi	JTHBN36F855	

修理期日	オプションの Ref	適用可能か DTC コード
03-3 月-2005		

### 状態記述

その直後にリバースからドライブのギアをその後入れる場合、遅れが出ています、感じるでしょう、IT、小さなジャーキングで従事します。

### 診断のステップ:

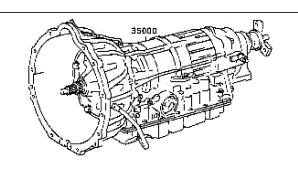
T/M 圧力計を備えた圧力試験を行いました。 駆動中のスト-ル・テストは 60P.S.I.でした。 スト-ル・テストは逆に 95P.S.I.でした。 アイドルの両方のテスト。 駆動中のスト-ル・テストは 130P.S.I.でした。 スト-ルは逆に 230P.S.I.でした。 ブレーキ上の足で、ゲージ上で見ることができるアイドル・スピード、運転するべきリバ-スおよびドライブからリバ-スまでの圧力の遅れ。

### 考えられる原因

IN T/M を下った内部漏れ。										
部分1番:	部分 2 番:	部分 3 番:	要求のあり次第利 用可能な部品:	部品を発送目的地:						
3500050150	3200050040		はい	CQEC						

# 修理処理

T/M アッセンブリとトルクコンバ-タを交換します



# 販売店プロダクトリポート



TQCN DOC#	系列会社		部		出所			ディーラー・コ	1 K	参考	日付
PR61205-0735	TMS		QA パワート	レ	MDT/D			61205		26112-1	3/15/2005
ディーラー名		ディー	ラー都市				州		地域		
ハイランドパークの <b>LEXUS</b>			ヘイランドパーク				IL LCA		LCA		
主要なモデル		モデル	イヤ- 生産!	1		7	ドメータ		VI	N	
LS 430		2005	10-	11 J	∃-04	1	098 Ø	mi	J.	ΓΗΒΝ36F855	
状態タイトル			-								
QA パワートレーン: オ	ートマチッ	クトラン	スミッション								

アタッチメント 1: 部品回収統制図

Orig ト ラッキン グ VIN

SHADED フィールドをタイプインしないでください。 下記の最終仕向 地フィールドが「切れ端」である場合は、適切にその部分を処分して ください。

doc No.

	regv.					I				
	最終仕向地: (	CQEC		SETR#:		CQE E	/G:	N/A		
	<b>入業者: (TMC</b> 出荷だけに当て) アメリカEDER Gr、技術的な		次のも	のに伝えます	:		住原	<b>广</b> :		
海:	外の顧客サービスの技術的な記 ヨタ自動車CORPORTATION		Attn:				宛分	七:		
	sshin教育&トレーニング・セン 210、SAKAE、NISSHIN、AIC 本		電話番	:号:			電記	舌番号:		
T星	<u>.</u>									
20	のFTRが1つを越えるVINを含んで	いる場合、注釈:、'	VIN、生產	全日およびオドメ·	ータを含んでいる報句	告の中でテー	ブルを	作成する。		関税使用のために: 使 用された部品価値
1	部分1番: 3500050150	部分記述 T/M ASS	SY						量。	使用された部分価値 <b>\$ 834.00</b>
	コメント:									
2	部分2番: 3200050040	部分記述コンバー	-タ AS	SY、トルク					量。	使用された部分価値 <b>第 143.00</b>
_	コメント:	<u> </u>								L
	部分3番:	部分記述							量。 0	使用された部分価値
3	コメント:									l
	部分 4 番:	部分記述							量。	使用された部分価値 <b>\$</b> .00
4	コメント:									
	部分 5 番:	部分記述							量。	使用された部分価値
5										\$ .00
	コメント:	<u>'</u>							'	•
	部分 6 番:	部分記述							量。	使用された部分価値

# 販売店プロダクトリポート



TQCN DOC#	系列会社		部	出所		ディーラー・コ	⊒ K	参考	日付	
PR61205-0735	TMS		QAパワートレ	MDT/D		61205		26112-1	3/15/2005	
ディーラー名		ディーラ	ラー都市		州		地域			
ハイランドパークの LEXUS ハ			ハイランドパーク			IL LC		A		
主要なモデル		モデルイ	イヤー 生産日		オドメータ		VI	N		
LS 430		2005	10-11 月	∃-04	1098 ⊄	mi mi	J.	THBN36F855		
状態タイトル			-		•					
QA パワートレーン: オー	ートマチック	トラン	スミッション							

	部分 6 番:	部分記述	量。	使用された部分価値
6	コメント:			\$ .00
	部分7番:	部分記述	量。	使用された部分価値 \$ .00
	コメント:			



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-JFK107551		TMS	QA-Powertrain	FTS	TMS-CAT	26189-1	3/18/2005
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Camry		2005	13-Jan-2005	830 mi	4T1BE30K35U	
Condition Title							
Surge under light	throttle						

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

Repair Date	Optional Ref.	Optional Approval
15-MAR-2005		
Condition Description		
Engine surge unde	r light throttle cruise.	

### Diagnostic Steps:

View engine data list on the scan tool while condition is present. Using active test I locked the A/F sensor value and the condition was eliminated.

#### **Probable Cause**

Incorrect signal from	n B1S1			
Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
8946706030			Have part / will Ship	2111
D				

#### Repair Process

No replacement part was available, swap part from known good vehicle to confirm repair and order replacement part.

Part # from A/F sensor 89467-06030 Build date 12F03

Part is not ready for recovery until replacement part is received.

<b>□ 05 be3.evn</b>	Tech view file of event



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-JFK107551		TMS	QA-Powertrain	FTS	TMS-CAT	26189-1	3/18/2005
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ers):
Base Vehicle	Camry		2005	13-Jan-2005	830 mi	4T1BE30K35U	
Condition Title							
Surge under light	throttle						

Doc No.

Attachment 1: PRCS

# 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.

scrap , property dispose of the				411 1			-11	
Final Destination:	2111		SETR#:		CQE Eng:	N/A		
Importer: (Applies to TMC S	hipments Only)	Delive	er to:		住原	· 斤:		
Mr. N. Okumura, Chief Expert		Attn:			宛约	는:		
Quality Div. Warranty Parts Ro								
TOYOTA MOTOR CORPORA		Tel:			Tel			
1 Toyota, Toyota-city, Aichi, 4	/1-85/1				lei	•		
Japan								
T-STAR								
Note: If this FTR contains more	than one VIN, create	e a table i	in the report cont	aining VIN, product	ion date, and odor	neter		FOR CUSTOMS USE: Used Parts Value
Part #1:	Part Descr					(	Qty.	Used Part Value
1 8946706030	SENSO	R, AIR	FUEL RATI	Э			1	\$ 30.00
Comments:								
Part # 2:	Part Descr	iption				C	Qty.	Used Part Value
2 Comments:							0	\$ 0.00
Comments:								
Part # 3:	Part Descr	iption				(	Qty.	Used Part Value
3 Commonts:							0	\$ 0.00
Comments:								
Part # 4:	Part Descr	iption				(	Qty.	Used Part Value
4 Comments:								\$ .00
Comments:								
Part # 5:	Part Descr	iption					Qty.	Used Part Value
5 Comments:								\$ .00
Comments:								
Part # 6:	Part Descr	iption					Qty.	Used Part Value
c								\$ .00
6 Comments:								
Part # 7:	Part Descr	iption					Qty.	Used Part Value
7								\$ .00
7 Comments:								
Part # 8:	Part Descr	iption					Qty.	Used Part Value
o								\$ .00
Comments:								



TQCN DOC#	Affilia	ate	Dept.	Source	Location	Ref	Date
FTR-JFK107551	TMS	S	QA-Powertrain	FTS	TMS-CAT	26189-1	3/18/2005
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Camry		2005	13-Jan-2005	830 mi	4T1BE30K35U	
Condition Title							
Surge under light	throttle						



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref Date
FTR-PEN111751	F	TMS	QA-Powertrain	PE	TMS	26741-1 4/27/2005
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	Tacoma	<b>a</b>	2005	01/05	2040	5TEUX42N25Z
Condition Title						
Manual Transmiss	sion Rear	Seal Leak				

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

Repair Date	Optional Ref.	Optional Approval
	·	

### **Condition Description**

The customer complained that the vehicle would buck while driving and at the same time hear a high pitch whining noise.

# Diagnostic Steps:

Technician confirmed customer complaint and isolated noise to manual transmission assembly. Technician checked fluid level and confirmed fluid level to be very low. Continued examining and confirmed that rear transmission extension housing seal was leaking fluid into extension housing and collecting between transfer case and transmission assembly.

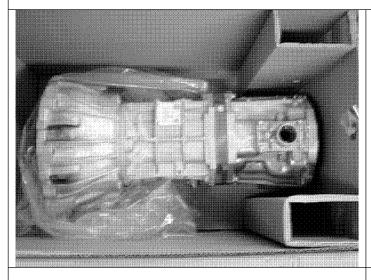
### **Probable Cause**

Seal damage

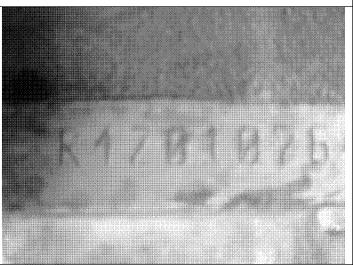
0000005450	
3303035A50   Ave part / will ship   CQEC	

#### **Repair Process**

Technician replaced transmission assembly (P/N 33030-35A50) to repair vehicle.



Transmission Assy (P/N 33030-35A50)



Transmission Serial Number R4Z01076

Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-PEN111751	F	TMS	QA-Powertrain	PE	TMS	26741-1	4/27/2005
Problem Area	Primary Mod	del	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ers):
Base Vehicle	Tacoma		2005	01/05	2040	5TEUX42N25Z	je i i i i i i i i i i i i i i i i i i i
Condition Title							
Manual Transmiss	sion Rear	Seal Leak					

# 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: CQE	EC		SETR#:			CQEE	ng:		N/A				
lm	porter: (Applies to TMC Shipmen	ts Only)	Deliver	r to:				住別	ī:				***************************************	
Qu TC	N. Okumura, Chief Expert ality Div. Warranty Parts Room YOTA MOTOR CORPORATION oyota, Toyota-city, Aichi, 471-8571 ban		Attn: Tel:					宛先 Tel						
T-S	TAR													
No	e: If this FTR contains more than one	VIN, create	a table in	the report co	ntaining VIN,	producti	on date, and	d odon	neter			F	OR CUSTO	
1	Part #1: 3303035A50 Comments:	Part Descri TRANSI		N UNIT AS	SSY						Qty.	\$	Used Par 3	t Value 09 .00
	Part # 2:	Part Descri	ption								Qty.	\$	Used Par	t Value 0.00
2	Comments:										-1	17.		
	Part # 3:	Part Descri	ption								Qty.	\$	Used Par	t Value 0.00
3	Comments:							<u> </u>			1	ΙΨ.		0 .00
	Part # 4:	Part Descri	ption								Qty.	\$	Used Par	
4	Comments:											Ψ		.00
	Part # 5:	Part Descri	ption								Qty.		Used Par	
5	Comments:											\$		.00
	Part # 6:	Part Descri	iption								Qty.	1	Used Par	
6	Comments:											\$		.00
	Part # 7:	Part Descri	iption								Qty.		Used Par	
7	Comments:											\$		.00
	Part # 8:	Part Descri	iption								Qty.		Used Par	
8	Comments:											\$		.00



TQCN DOC#		Affiliate	Dept.	Source	Location	- I RΔf	Date
FTR-JAK118851		TMS	QA-Powertrain	FTS	TMS-BOS	24078-1	7/9/2005
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ers):
Base Vehicle	Camry		2004	26-Nov-2003	22682 mi	4T1BF32K74U	
Condition Title							
04 Camry 1MZ-FE	engine	surge. B1S1 A/F	no DTCs				

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

	· · · · · · · · · · · · · · · · ·	and more and mean and page of the more
Repair Date	Optional Ref.	Optional Approval
23-JUN-2005		

#### **Condition Description**

Customer stated the vehicle surges intermittently and at intermittent speeds.

### Diagnostic Steps:

- FTS inspected this vehicle and confirmed the condition during a test drive with the customer.
- The condition occurred under load while accelerating. The condition was most noticeable at speeds up to ~ 35 MPH. The condition was not present at cruise.
- FTS found the B1S1 Air Fuel Ration Sensor voltage fluctuating rapidly while the condition occurred (review attached TV file).
- FTS inspected this vehicle's ECM for DTCs with none stored.
- FTS disconnected the B1S1 A/F Sensor which put the vehicle in limp mode and found the condition no longer occurred.
- FTS inspected the wiring associated with the B1S1 A/F Sensor. All inspected wiring and components were found operating as designed.

### Probable Cause

B1S1 Air Fuel Ratio Sensor.

	Part # 3:	Parts Disposition:	Parts Shipping Destination:
8946733060		Have part / will ship	CQEC

#### **Repair Process**

FTS replaced the B1S1 Air Fuel Ratio Sensor.



Attachment 1: PRCS



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref Date
FTR-JAK118851	TMS	QA-Powertrain	FTS	TMS-BOS	24078-1 7/9/2005
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	Camry	2004	26-Nov-2003	22682 mi	4T1BF32K74U
Condition Title					
04 Camry 1MZ-FE	engine surge. B1S1 A/	F no DTCs			

# 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 En	<b>j</b> :	N/A				
lm	porter: (Applies to TMC Sh	nipments Only)	Delive	r to:			住所:			1		
Ov TO Nis 5-2	rth America EDER Gr., Techerseas Customer Service Techerseas Customer Service Techerseas MOTOR CORPORTASSIN Education & Training Control (10, SAKAE, NISSHIN, AICHOAN)	echnical Div. ATION Center	Attn: Tel:	<b>元</b>								
T-S	STAR											
No	te: If this FTR contains more t	han one VIN, create	a table ii	n the report cont	aining VIN, product	ion date, and	domete	r			R CUSTON sed Parts	
4	Part # 1: 8946733060	Part Descri SENSO		FUEL RATIO	)				Qty.	U: \$	sed Part 3	Value 4 .00
1	Comments:											
	Part # 2:	Part Descri	ption						Qty.		sed Part	
2	Comments:								0	\$		00.00
	Part # 3:	Part Descri	ption						Qty.	U:	sed Part	Value 0.00
3	Comments:		<u> </u>				<u> </u>			φ	<u>-:-:-:-:-:-:</u>	0 .00
	Part # 4:	Part Descri	iption						Qty.		sed Part	
4	Comments:									\$		.00
	Part # 5:	Part Descri	iption						Qty.	U:	sed Part	Value .00
5	Comments:									Ψ		.00
	Part # 6:	Part Descri	iption						Qty.	U:	sed Part	Value .00
6	Comments:	<u> </u>								_Ψ		.00
	Part # 7:	Part Descri	iption						Qty.	U:	sed Part	Value .00
7	Comments:									Ψ		.00
	Part # 8:	Part Descri	iption						Qty.	1	sed Part	
8	Comments:									\$		.00



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code		Ref	Date	
PR-62904-3085	TMS		QA-Powertrain	MDT/DS		62904		23794-2	11/7/2005	
Dealer Name Dealer			City			State		Region		
LEXUS OF ENGLEWOOD ENGI			EWOOD		NJ		LEA			
Primary Model		Model	ear Production Date		Odometer		VII	v		
ES 330		2005	08-APR-05		6701 mi		J	THBA30G955		
Condition Title			-							
Jerk Feeling When Ac	celerating									

Primary Model	Model Year	Production Date	Odometer	VIN	
ES 330	2005	08-APR-05	6701 mi	JTHBA	30G955
Condition Title				•	
Jerk Feeling When Acce	elerating				
Repair Date	Optional Ref.	Applicable DTC	Code(s)		
11-NOV-2005					
<b>Condition Description</b>					
When accelerating	there is a jerk fee	ling when accele	rating from a stor	D.	
	,	J	J 1		
Diagnostic Steps:					
Checked current II	D numbers: un-to-c	hate (33360200 /	3340100)		
	b nambors, up to t	<i>aate</i> (00000200,0	700+0100).		
Probable Cause					
Not known					
Part # 1:	Part # 2:	Part # 3:	Parts Available	on Boowasti	Parts Shipping Destination:
0000000000	Fait#2.	Fail#3.			CQEC
			No part avail	able	CUEC
Repair Process					
No repair done.					



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code	Ref	Date	
PR-62904-3085	TMS QA-Powertrain MDT/DS		MDT/DS	S 62904		23794-	2 11/7/2005		
Dealer Name		Dealer City			State		Region		
LEXUS OF ENGLEW	ENGL	ENGLEWOOD				LEA	LEA		
Primary Model		Model	del Year Production Date		Odometer		VIN		
ES 330		2005	08-APR-05		6701 mi		JTHBA30G955		
Condition Title									
Jerk Feeling When Ac	celerating								

Do	tachment 1: Parts Reco	-			Orig Tracking VIN Doc No.							
	Final Destination: CQI	EC		SETR#:			CQE Eng	j:	N/A			
lm	porter: (Applies to TMC Shipmer	nts Only)	Delive	r to:			1	<b>上</b> 住所:				
Ov TO Nis 5-2	rth America EDER Gr., Technical I erseas Customer Service Technica YOTA MOTOR CORPORTATION shin Education & Training Center 210, SAKAE, NISSHIN, AICH, 470- pan	al Div.	Attn: Tel:					宛先: ſel:				
										FOR	CUSTON	MS LISE:
1	le: If this FTR contains more than on Part # 1:  0000000000  Comments:	e VIN, creat		n the report con	taining VIN, pr	roduci	tion date, and	odometer	Qty.	Us	ed Parts ed Part	Value
2	Part # 2: Comments:	Part Descr	iption						Qty.	Usi \$	ed Part	Value 0.00
3	Part # 3:  Comments:	Part Descr	iption						Qty.	Us \$	ed Part	Value 0 .00
4	Part # 4: Comments:	Part Descr	iption						Qty.	Use \$	ed Part	Value .00
5	Part # 5:  Comments:	Part Descr	iption						Qty.	Use \$	ed Part	Value .00
6	Part # 6: Comments:	Part Descr	iption						Qty.	Use \$	ed Part	Value .00
7	Part # 7:  Comments:	Part Descr	iption						Qty.	Uso \$	ed Part	Value .00



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code		Ref	Date	
PR-64530-0096	TMS		QA-Powertrain	MDT/DS		64530		29585-2	1/17/2006	
Dealer Name		Dealer C	Dealer City			State		Region		
CH BARKER'S LX/NWPRT		NEWF	NEWPORT NEWS				LEA	· ·		
Primary Model		Model Y	ear Productio	Production Date		Odometer		N		
RX 330		2005	5 20-OCT-04		15353 mi		2	T2GA31U85C		
Condition Title			•							
Jerking When Acceler	ating									

Primary Model		Model Year	Production Date	Odometer	VIN	
RX 330		2005	20-OCT-04	15353 mi	2T2GA	A31U85C
Condition Title						
Jerking When Accele	erating					
Repair Date	Optional Re	i.	Applicable DT	C Code(s)		
09-JAN-2006						
Condition Descripti	ion					
Customer states	s "still ierkin	g when a	ccelerating"			
Cactornor ctato	o ouiii joruuri	g whom a	oolorating			
Diagnostic Steps:						
Test drive. Tran	ารmission hเ	ints for the	e proper gear a	t low speeds whe	n on and $\circ$	off the accelerator.
D 1 11 0						
Probable Cause						
Part # 1:	Part # 2:		Part # 3:	Parts Availabl	e on Request:	Parts Shipping Destination:
8966148470				No part ava	•	CQEC
	<u> </u>			140 part ava	llabic	_ OQLO
Repair Process						
No repairs were	e made. ECl	J Cals: 34	1872000 548260	000		

Dealer Product Report – Toyota Lexus (4/2004)



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code		Ref	Date	
PR-64530-0096	TMS	MS QA-Powertrain MDT/DS		64530		29585-2		1/17/2006		
Dealer Name CH BARKER'S LX/NWPRT		Dealer City NEWPORT NEWS			State VA			egion EA		
Primary Model		Model	el Year Production Date		Odometer		VIIV	N		
RX 330		2005	05 20-OCT-04		15353 mi		2T2GA31U85C			
Condition Title  Jerking When Acceler	ating						•			

Do	tachment 1: Parts Reco	Final Desti			Orig Tracking VIN Doc No.								
	Final Destination: CQ	EC		SETR#:			CQE Er	ng:	N/A				
lm	porter: (Applies to TMC Shipme	nts Only)	Deliver	to:				住所:					
Ov TO Nis 5-2	rth America EDER Gr., Technical erseas Customer Service Technic POTA MOTOR CORPORTATION Shin Education & Training Center 210, SAKAE, NISSHIN, AICH, 470 pan	al Div. I	Attn: Tel:					宛先: Tel:					
T-S	STAR III						'						
No	te: If this FTR contains more than or	ne VIN, creat	e a table in	the report con	taining VIN, pro	oduct	tion date, an	d odomet	er			R CUSTON sed Parts	
1	Part # 1: 8966148470 Comments:	Part Descr COMPU		NGINE CO	NTROL					Qty.	U:	sed Part 21	Value 3.00
2	Part # 2: Comments:	Part Descr	iption							Qty.	Us	sed Part	Value 0.00
3	Part # 3: Comments:	Part Descr	iption							Qty.	Us \$	sed Part	Value 0.00
4	Part # 4: Comments:	Part Descr	iption							Qty.	Us \$	sed Part	Value .00
5	Part # 5: Comments:	Part Descr	iption							Qty.	Us \$	sed Part	Value .00
6	Part # 6: Comments:	Part Descr	iption							Qty.	Us \$	sed Part	Value .00
7	Part # 7:  Comments:	Part Descr	iption							Qty.	Us \$	sed Part	Value .00



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref Date		
FTR-VEV101861		TMS	QA-Powertrain	FPE	TMS-NY	30995-1 1/18	/2006	
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	RAV4		2005	21-Oct-2005	64 mi	JTEHD20V150		
Condition Title								
RAV4 vehicle surg	ges during	g acceleration						

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

Repair Date	Optional Ref.	Optional Approval	
18-JAN-2006			

### **Condition Description**

Customer states car surges during acceleration.

### Diagnostic Steps:

Technician verified the customer's complaint and took two snapshots during event. The manual trigger was set to 15 seconds (30 sec total). Trigger was hit as soon as surge started. There were no MILs in Pending or History. Mil was off.

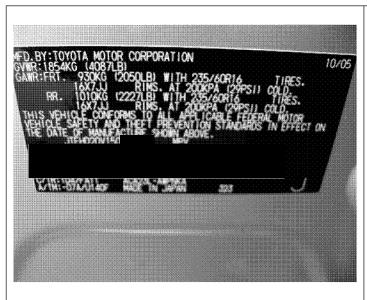
Because tech had seen this issue before in previous models, and car has no EGR valve, tech disconnected AF sensor and road tested. Surge was gone. Tech replaced A/F sensor.

### Probable Cause

Unknown				
Part #1:	Part # 2:	Part # 3:		Parts Shipping Destination:
8946742040			The Properties of the Control of the American Control of the Contr	CQEC

### Repair Process

The technician replaced the AF sensor PN 89467-42040 to remedy the condition Part was shipped UPS for quality evaluation purposes to TMS UPS tracking # 1Z 4X4 15X 06 2165 517 9



Vehicle info.



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date	
FTR-VEV101861 TMS		TMS	QA-Powertrain	FPE	TMS-NY	30995-1	1/18/2006
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):	
Base Vehicle	RAV4		2005	21-Oct-2005	64 mi	JTEHD20V150	
Condition Title							
RAV4 vehicle surg	ges durin	g acceleration					



Techview file with RAM 7, monitor info and snapshots of event.



Code on AF Sensor is '10G17'

Attachment 1: PRCS



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-VEV101861 TMS		QA-Powertrain	FPE	TMS-NY	30995-1	1/18/2006		
Problem Area	Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):	
Base Vehicle	RAV4		2005	21-Oct-2005	64 mi	JTEHD20V150		
Condition Title	Condition Title							
RAV4 vehicle surg	ges durin	g acceleration						

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN
Doc No.

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

scrap , properly dispose of the part.									
	Final Destination: CQEC		SETR#:		CQE Eng:	N/A			
lmį	porter: (Applies to TMC Shipments O	nly) Delive	r to:		住所	:			
Qu TO	N. Okumura, Chief Expert ality Div. Warranty Parts Room YOTA MOTOR CORPORATION oyota, Toyota-city, Aichi, 471-8571 oan	Attn: Tel:			宛先 Tel:	:			
T-S	.TAR								
Not	te: If this FTR contains more than one VIN,	create a table i	n the report contai	ining VIN, production	date, and odom	eter		FOR CUST Used Par	
1		Description NSOR, AIR	FUEL RATIO				Qty. 1	Used Pa \$	rt Value 30 .00
2	Part # 2: Part  Comments:	Description					Qty.	Used Pa \$	rt Value 0 .00
3		Description					Qty.	Used Pa \$	rt Value 0 .00
4	Part #4: Part  Comments:	Description					Qty.	Used Pa \$	rt Value .00
5	Part # 5: Part  Comments:	Description					Qty.	Used Pa \$	rt Value .00
	Part # 6: Part	Description					Qty.	Used Pa	rt Value .00
6	Comments:								
7	Part # 7: Part  Comments:	Description					Qty.	Used Pa \$	rt Value .00
8	Part #8: Part	Description					Qty.	Used Pa	rt Value .00
0	Comments:								



TQCN DOC# Affiliate TMS		Dept.	Source	Location	Ref	Date
		QA-Powertrain	FTS	TMS-KC	32485-1	4/6/2006
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 charac	iters):
Base Vehicle	Tacoma	2005	18-Aug-2005	3796 mi	5TETX22N05Z	
Condition Title						
Fast idle hunt/surg	ge after cold start					

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

		 ·	· ·
Repair Date	Optional Ref.	Optional Approval	
05-APR-2006			

### **Condition Description**

Customer complaining of an intermittent hunting/surging fast idle after a cold start.

# Diagnostic Steps:

- Technician has verified the customer's concern. Hard to duplicate unless the ambient temperature is just right and the technician believes that the condition is more prevalent in cooler ambient temperatures.
- The technician describes the condition as the engine acting like it is going into fuel cut because the idle is too high.
- After the engine acts like the fuel has been cut the RPM immediately rebounds back to a fast idle RPM.
- This idle RPM fluctuation may only occur once (as in the attached Techview file) or it may occur several times in succession.
- The technician replaced the Engine ECM at the recommendation of a TAS engineer (TA060860259) but to no avail.

#### **Probable Cause**

Unknown at this tim	ne.			
Part #1:	Part # 2:	Part # 3:		Parts Shipping Destination:
N/A			No part available	N/A

N/A		No part available	N/A	
Repair Process				
-	irs have been made d ECM logic to addr	Customer very upset	with condition.	Writer
	Taco cold start.zip			

TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date		
FTR-7LN109561 TMS		QA-Powertrain	FTS	TMS-KC	32485-1	4/6/2006		
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):		
Base Vehicle	Tacoma	<b>a</b>	2005	18-Aug-2005	3796 mi	5TETX22N05Z		
Condition Title	Condition Title							
Fast idle hunt/surg	ge after c	old start						

Attachment 1: PRCS



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref Date
FTR-7LN109561	TMS	QA-Powertrain	FTS	TMS-KC	32485-1 4/6/2006
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	Tacoma	2005	18-Aug-2005	3796 mi	5TETX22N05Z
Condition Title					
Fast idle hunt/surg	ge after cold start				

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN
Doc No.

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

	Scrap , property dispose of the part.									
	Final Destination: N/A		SETR#:		CQE Eng:	N/A				
lmį	porter: (Applies to TMC Shipments Only)	Deliver	to:		住店	<u></u> 听:				
Qu TO	N. Okumura, Chief Expert ality Div. Warranty Parts Room YOTA MOTOR CORPORATION oyota, Toyota-city, Aichi, 471-8571 oan	Attn: Tel:			宛力 Tel					
T-S	TAR									
Not	e: If this FTR contains more than one VIN, creat	e a table in	the report conta	aining VIN, produc	tion date, and odo	meter			TOMS USE: arts Value	
1	Part # 1: Part Desc N/A Comments:	ription					Qty.	Used P	art Value 0 .00	
2	Part # 2: Part Desc Comments:	ription					Qty.	Used P	art Value 0 .00	
3	Part # 3: Part Desc  Comments:	ription					Qty.	Used P	art Value 0 .00	
4	Part # 4: Part Desc Comments:	ription					Qty.	Used P	art Value .00	
5	Part # 5: Part Desc	ription					Qty.	Used P	art Value .00	
6	Part # 6: Part Desc	ription					Qty.	Used P	art Value .00	
_	Comments:									
7	Part # 7: Part Desc  Comments:	ription					Qty.	Used P	art Value .00	
8	Part # 8: Part Desc	ription					Qty.	Used P	art Value .00	
_	Comments:									



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-58K110461	TMS	QA-Powertra	in FTS	TMS-SET	32715-1	4/18/2006
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17	characters):
Base Vehicle	Camry	2007	21-Mar-2006	291 mi	4T1BE46K9	97U <b></b>
Condition Title						
	ward					

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

Repair Date	Optional Ref.	Optional Approval							
15-APR-2006									

### **Condition Description**

Vehicle lunges forward when coming to a stop

### Diagnostic Steps:

- Drove vehicle at 55mph, got vehicle to go into 5<sup>th</sup> gear, when slowing down and coming to stop, right at 5 mph the vehicle would lunge forward
- Drove vehicle in 4<sup>th</sup> gear, and when coming to a stop, once the vehicle reached 5mph, vehicle would lunge forward
- Drove vehicle in 3<sup>rd</sup> gear, and when coming to a stop, when the vehicle reached 5mph, vehicle would lunge forward
- Each of these test were complete with the A/C on and off, no change

#### **Probable Cause**

Unknown			
Part # 1:	Part # 2:	 Parts Disposition:	Parts Shipping Destination:
000000000		No part available	N/A

#### **Repair Process**

Replaced SLT solenoid. Test drove vehicle, no change. Order transaxle. Transmission serial # CU008932







07 Camry 8932 (3).evn

07 Camry 8932(1).evn

07 Camry 8932(2).evn

Attachment 1: PRCS



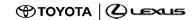
TQCN DOC#		Affiliate	Dept.	Source	Location	. I RΔf	Date
FTR-58K110461		TMS	QA-Powertrain	FTS	TMS-SET	32715-1	4/18/2006
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	eters):
Base Vehicle	Camry		2007	21-Mar-2006	291 mi	4T1BE46K97U	
Condition Title							
Vehicle lunges for	ward						

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN
Doc No.

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

scrap , properly dispose of the part.						
	Final Destination: N/A		SETR#:	CQE Eng:	N/A	
lmį	porter: (Applies to TMC Shipment	ts Only) [	Deliver to:	住	所:	
Ov TO Nis	rth America EDER Gr., Technical Derseas Customer Service Technical YOTA MOTOR CORPORTATION shin Education & Training Center 110, SAKAE, NISSHIN, AICH, 470-Coan	I Div. 7	Attn: <sup>-</sup> el:	宛:	先: 1:	
T-S	TAR					
Not	te: If this FTR contains more than one	VIN, create a	table in the report containing V	N, production date, and odo	meter	FOR CUSTOMS USE: Used Parts Value
1	Part # 1: 0000000000 Comments:	Part Descript	on		Q(	y. Used Part Value 0 \$ 0 .00
	Part # 2:	Part Descript	on		Qı	7 . <b>.</b>
2	Comments:					0 .00
	Part # 3:	Part Descript	on		Q	
3	Comments:					0.00
	Part # 4:	Part Descript	ion		Qt	y. Used Part Value
4	Comments:					σσ
	Part # 5:	Part Descript	ion		Qt	
5	Comments:					\$ .00
	Part # 6:	Part Descript	ion		Q	
6	Comments:					\$ .00
	Part # 7:	Part Descript	ion		Qt	
7	Comments:					\$ .00
	Part # 8:	Part Descript	ion		Qt	
8	Comments:					\$ .00



TQCN DOC# Affiliate I		Dept.	Source	Location	Ref	Date	
FTR-8FX211661 TMS		QA-Powertrain	FTS	TMS-LWA	29846-1	4/26/2006	
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	cle GS 430		2006	12-Jan-2005	3064 mi	JTHBN96S265	
Condition Title							
Accelerator Pedal							

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

	<u> </u>	
Repair Date	Optional Ref.	Optional Approval
24-APR-2006		

#### **Condition Description**

During the slalom portion of New Model training session the driver reported that the throttle stuck open and he had to apply heavy brake pressure to slow the car.

### Diagnostic Steps:

- Inspected the pedal assembly and the mounting point on the vehicle floor.
- During the inspection I was able to remove the pedal assembly from the lower mounting bracket.
- When removing a pedal assembly from a donor car I was not able to remove the pedal assembly from the lower mounting bracket.

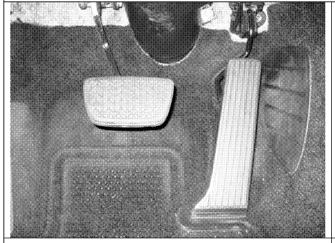
#### **Probable Cause**

Unknown. Possibly the pedal became separated from the lower mounting bracket and was jammed in the open position.

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
7811130130	7811430100		Have part / will ship	2440

#### **Repair Process**

Replaced pedal with a service part (78111-30130).





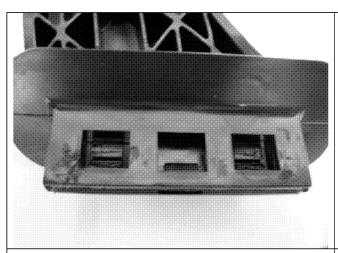
Accelerator Pedal

Accelerator pedal and bracket from donor JTHBN96S665

Field Technical Report - Toyota Lexus Scion (8/2005)



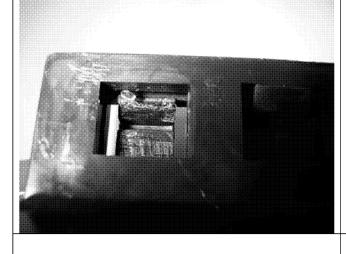
TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-8FX211661 TMS		TMS	QA-Powertrain	FTS	TMS-LWA	29846-1	4/26/2006
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	GS 430		2006	12-Jan-2005	3064 mi	JTHBN96S265	
Condition Title	•		<u>'</u>	•	•		
Accelerator Pedal							

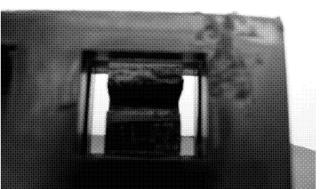




Attachment tabs - pedal from JTHBN96S265

Attachment tabs – new service part





Detail of attachment tab - pedal from JTHBN96S265

Detail of attachment tab - pedal from JTHBN96S265

Attachment 1: PRCS



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date	
FTR-8FX211661 TMS		QA-Powertrain	FTS	TMS-LWA	29846-1	4/26/2006	
Problem Area	Primary Model		Model Year	Production Date	Oate Odometer VIN (confirm 17 characters		ters):
Base Vehicle	GS 430		2006	12-Jan-2005	3064 mi	JTHBN96S265	
Condition Title	•						
Accelerator Pedal							

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN
Doc No.

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

CQE Eng: N/A Final Destination: 2440 SETR#: Importer: (Applies to TMC Shipments Only) Deliver to: 住所: Mr. N. Okumura, Chief Expert Attn: 宛先: Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION Tel: Tel: 1 Toyota, Toyota-city, Aichi, 471-8571 Japan T-STAR FOR CUSTOMS USE: Used Parts Value Note: If this FTR contains more than one VIN, create a table in the report containing VIN, production date, and odometer Used Part Value Part Description Qty. 7811130130 PEDAL, ACCELERATOR 1 \$ 2 .00 Comments: Part Description Used Part Value Part # 2: Qty 7811430100 BRACKET, ACCELERATOR PEDAL SUPPORT 1 \$ 1.00 2 Comments: Part # 3: Part Description Qty Used Part Value 0 \$ 0.00 Comments: Part # 4: Part Description Qty. Used Part Value \$ .00 Comments: Part # 5: Used Part Value Part Description Qty. .00 \$ 5 Comments: Part # 6: Part Description Qty. **Used Part Value** .00 Comments: Part # 7: Part Description Qty. Used Part Value \$ .00 7 Comments: Part # 8: Used Part Value Part Description Qty. .00 8 Comments:



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code	Ref		Date
PR-60201-1266	TMS		QA-Powertrain	MDT/DS		60201		32941-1	5/15/2006
Dealer Name		Dealer	City		State		Regio	in	
BELL LEXUS		PHOE	ENIX		AZ		LWA		
Primary Model	ry Model Model Year Produ			ion Date Odometer			VII	VIN	
LS 430		2006	30-MA	R-06	53 mi		JTHBN36F265		
Condition Title									
QA-Body: Trunk Com	partment								

Repair Date	Optional Ref.	Applicable DTC Code(s)
29-APR-2006		

## **Condition Description**

CUSTOMER STATES THAT AFTER DRIVING VEHICLE 20 MILES ENGINE WILL SURGE AND STALL AT STOPS.

# Diagnostic Steps:

NO MIL ON. FOUND RAW FUEL IN VACUUM LINE FROM INTAKE MANIFOLD TO CHARCOAL CANISTER.

## **Probable Cause**

ORVR VALVE IN I	FUEL TANK FAILEI	O AND CAUSED FUE	L TO BE PUSHED I	NTO CANISTER.
Part #1:	Part # 2:	Part # 3:	Parts Available on Request:	Parts Shipping Destination:
7700150120			Available upon request	CQEC

## **Repair Process**

REPLACED FUEL TANK, CHAR	COAL CANISTER, AND FITER F	OR CANISTER.

Dealer Product Report – Toyota Lexus (4/2004)



TQCN DOC# Affiliate		Dept.		Source	Source			Ref	Date		
PR-60201-1266	TMS	QA-Powert	QA-Powertrain			60201		32941-1	5/15/2006		
Dealer Name Dealer City			State				Region				
BELL LEXUS	PHOENIX			AZ		LWA					
Primary Model	ry Model Model Year Production		n Date	Date Odometer		VIN					
LS 430	30 2006 30-MAR-06			₹-06	.06 53 mi			JTHBN36F265			
Condition Title		-									
QA-Body: Trunk Comp	partment										

Do	tachment 1: Parts Reco	-			Orig Tracking VIN Doc No.							
	Final Destination: CQI	ΞC		SETR#:			CQEE	ng:	N/A			
lm	porter: (Applies to TMC Shipme	nts Only)	Deliver	to:			1	住所:		l		
Ov TO Nis 5-2	rth America EDER Gr., Technical erseas Customer Service Technic PYOTA MOTOR CORPORTATION Shin Education & Training Center 210, SAKAE, NISSHIN, AICH, 470-					宛先: Tel:						
T-S	STAR IIII											
No	te: If this FTR contains more than on	the report con	taining VIN, p	roduc	ction date, ar	nd odometer			R CUSTO			
1	Part # 1: 7700150120 Comments:	7700150120 TANK SUB-ASSY, FUEL							Qty.	\$	sed Part	: Value 78 .00
2	Part # 2: Comments:	Part Descr	iption						Qty.	\$	sed Part	Value 0 .00
3	Part # 3: Comments:	Part Descr	iption						Qty.	\$	sed Part	Value 0 .00
4	Part # 4: Comments:	Part Descr	iption						Qty.	U:	sed Part	Value .00
	Part # 5:	Part Descr	iption						Qty.	υ: \$	sed Part	: Value .00
5	Comments:											
Part # 6: Part Description									Qty.	υ: \$	sed Part	: Value .00
J	Comments:					_						
	Part # 7:	Part Descr	iption						Qty.	υ: \$	sed Part	: Value .00
7	Comments:	1								ιΨ		00_



**CQEC** 

No part available

S	QA-Powert									
	Q' ( I OWCIL	rain	MDT/DS			62908		30537-1	6/1/2006	
Dealer	Dealer City				State		Regio	Region		
LIVIN	LIVINGSTON			NJ LEA						
Model	Year Pro	oduction	n Date	Odome	eter		VIN			
2006	22	2- <b>NO</b> \	/-05	4484	l mi		JTHBA30GX65			
•										
ght Accele	ration									
	Model 2006	Model Year Pro	Model Year Production 2006 22-NOV	Model Year Production Date 2006 22-NOV-05	Model Year         Production Date         Odom           2006         22-NOV-05         4484	Model Year         Production Date         Odometer           2006         22-NOV-05         4484 mi	Model Year         Production Date         Odometer           2006         22-NOV-05         4484 mi	Model Year         Production Date         Odometer         VIN           2006         22-NOV-05         4484 mi         JT	Model Year         Production Date         Odometer         VIN           2006         22-NOV-05         4484 mi         JTHBA30GX65	

Repair Date	Optional Ref.	Applicable DTC Code(s)
17-MAY-2006		

## **Condition Description**

Customer states vehicle is bucking at 20 mph

## Diagnostic Steps:

Checked vehicle for trouble codes no codes found.

Test drove customer vehicle and felt a shudder intermittently at 20 mph during light acceleration and felt a harsh shift intermittently between 35-40mph also during light acceleration.

Test drove a similar car and felt similar shifting concern.

Probable Cause				
Part # 1:	Part # 2:	Part # 3:	Parts Available on Request:	Parts Shipping Destination:

# 

No repair available or attempted at this time.



TQCN DOC#	TQCN DOC# Affiliate		Dept. Source			Dealer Code	Ref		Date
PR-62908-1386	TMS	MS QA-Powerti		ertrain MDT/DS		62908		30537-1	6/1/2006
Dealer Name Dealer City				State			Region		
WARNOCK LEXUS	IVINGSTON	INGSTON			NJ		LEA		
Primary Model	Model Model Year Production Da		n Date	Odometer		VIN			
ES 330	2006 22-NOV-05		V-05	05 4484 mi		JTHBA30GX65			
Condition Title									
Harsh Shifts, Shudder	During Light Acc	celeration							

Do	tachment 1: Parts Reco			Orig Tracking VIN Doc No.								
	Final Destination: CQI	EC		SETR#:			CQE En	g:	N/A			
lm	porter: (Applies to TMC Shipmer	nts Only)	Delive	r to:				住所:				
Ov TO Nis	rth America EDER Gr., Technical I erseas Customer Service Technica YOTA MOTOR CORPORTATION shin Education & Training Center 110, SAKAE, NISSHIN, AICH, 470- pan	al Div.	Attn: 宛先: Tel:									
T-S	TAR IIII									LEOD	OLICTOM:	0.1105
Not	te: If this FTR contains more than on	e VIN, creat	e a table i	n the report con	taining VIN, p	roduc	tion date, and	l odometei			d Parts V	
	Part # 1: 0000000000000	Part Descr	iption						Qty.	Use \$	d Part V د	/alue ) .00
1	Comments:	L							0	Ψ		.00
2	Part # 2:  Comments:	Part Descr	iption						Qty.	Use:	d Part V	/alue ) .00
	Part # 3:	Part Descr	iption						Qty.	Use	d Part V	/alue
3	Comments:								0	\$	(	00. 0
	Comments.											
	Part # 4:	Part Descr	iption						Qty.	1	d Part V	
4	Comments:									\$		.00
	Part # 5:	Part Descr	iption						Qty.	Use	d Part V	/alue
5	Comments:									\$		.00
	Comments.											
	Part # 6:	Part Descr	iption						Qty.	1	d Part V	
6	Comments:									\$		.00
	Part # 7:	Part Descr	iption						Qty.	Use	d Part V	/alue
7										\$		.00
1	Comments:											



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-9VK117461	N TCI	TCI	PE	TCI		6/27/2006
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ers):
Base Vehicle	Camry	2007	01-Mar-2006	3259 km	4T1BK46K07U	

Condition Title

Engine Surge during 3-4 upshift

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

Repair Date	Optional Ref.	Optional Approval	
22-JUN-2006			

## **Condition Description**

Engine RPM surges during when the following conditions are met:

Transmission is shifting from 3<sup>rd</sup> to 4<sup>th</sup> gear.

Vehicle is traveling on a slight uphill road.

Light throttle is applied.

## Diagnostic Steps:

Vehicle had transmission replaced on June 9, 2006 due to internal failure. (Odometer reading was 910 at the time of repair.).

"MIL" is not on.

No pending codes in memory.

New Transmission serial number is 2A06E108878.

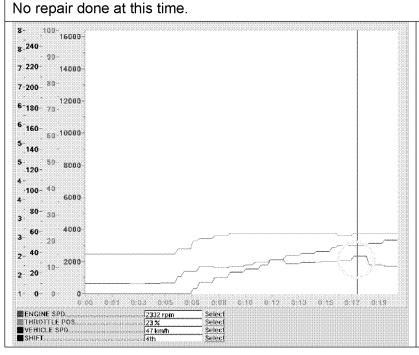
Condition was duplicated and snapshot was taken.

Snapshot shows that engine revolution increases by 243 rpm for 1 second when transmission is shifting from 3<sup>rd</sup> to 4<sup>th</sup> gear and then drops by 550 rpm. (See photo below and compare with techview file)

## **Probable Cause**



# Repair Process



Yellow enclosure shows when condition happened.



TQCN DOC#		Affiliate	Dept	<u>.</u>	Source	Location	Ref	Date
FTR-9VK117461A	١	TCI	TCI	l	PE	TCI		6/27/2006
Problem Area	Primary M	odel	M	Nodel Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Camry		2	2007	01-Mar-2006	3259 km	4T1BK46K07U	

C:\Documents and Settings\no	At 17.4 seconds, Transmission upshifts to 4 <sup>th</sup> gear. Engine RPM goes from 2089 to 2332 (243 rpm increase.) At 18.4 seconds, Engine RPM drops from 2332 to 1782 rpm (550 rpm decrease) See Techview file for details.
C:\Documents and Settings\no	See video of location where condition happened.

Attachment 1: PRCS



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-9VK117461	A TCI	TCI	PE	TCI		6/27/2006
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ers):
Base Vehicle	Camry	2007	01-Mar-2006	3259 km	4T1BK46K07U	

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN

Doc No.

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

CQE Eng: SETR#: N/A Final Destination: N/A Importer: (Applies to TMC Shipments Only) Deliver to: 住所: North America EDER Gr., Technical Dept. #1 Attn: 宛先: Overseas Customer Service Technical Div. TOYOTA MOTOR CORPORTATION Tel: Nisshin Education & Training Center 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 Part # 1: **Used Part Value** Part Description Qty. 3050033470 TRANSAXLE ASSY, AUTOMATIC 0 \$ 565 1 Comments: Part # 2: Used Part Value Part Description Qty. 0 \$ 00.0 2 Comments: Part # 3: Part Description Qty. **Used Part Value** 0 \$ 0.00 3 Comments: Part # 4: Used Part Value Part Description Qty. .00 4 Comments: Part # 5: Part Description Qty. **Used Part Value** .00 5 Comments: Part # 6: Part Description Qty. **Used Part Value** \$ .00 6 Comments: Part # 7: Part Description Qty. Used Part Value .00 7 Comments: Part # 8: Used Part Value Part Description Qty. \$ .00 8 Comments:



TQCN DOC#	Affiliate Dept. Source			Dealer Code	Ref		Date		
PR-60105-2516	TMS	Q/	A-Powertrain	in MDT/DS		60105	351	70-1	9/15/2006
Dealer Name		Dealer City		•	State		Region		
TOM WILLIAMS LEX	WILLIAMS LEXUS IRONDALE				AL		LSA		
Primary Model		Model Year	Productio	n Date	Odometer	-	VIN		
LS 430		2005	15-DE0	C-04	16690	mi	JTHBN	36FX55	
Condition Title ATM(Electrical)ECM	Harsh Shift on <i>i</i>	Acceleration	on						
Repair Date 08-SEP-2006	Optional Ref	:	Арі	plicable DTC Co	ode(s)				
Condition Description	on								
Customer states gears smoothly.	there is a s	siignt jei	ik iii tile ve	THOIC WHO	40001	oraung, a	000 1100	orane a	irougriout
								orinic ti	- Inoughout
gears smoothly.  Diagnostic Steps:									noughout
gears smoothly.  Diagnostic Steps: Checked softwa									- Inoughout
gears smoothly.  Diagnostic Steps: Checked softwa  Probable Cause unknown				t is in vehi	icle's E0	CM.	Request:	Parts Sh	nipping Destination
gears smoothly.  Diagnostic Steps: Checked softwa  Probable Cause	re calibratic		ost current	t is in vehi	icle's E0	CM.	Request:		nipping Destination

Cicarca icarrica values. Test air	Cleared learned values. Test drove verifice to help with the Eow relearning.								

Dealer Product Report – Toyota Lexus (4/2004)



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code		Ref	Date
PR-60105-2516	TMS		QA-Powertrain	MDT/DS		60105		35170-1	9/15/2006
Dealer Name Dealer City				State		Region	1		
TOM WILLIAMS LEXUS			RONDALE			AL LSA			
Primary Model		Model Y	ear Productio	n Date	Odometer		VIN		
LS 430		2005	05 15-DEC-04		16690 mi		JTHBN36FX55		
Condition Title									
ATM(Electrical)ECM F	larsh Shift on	Acceler	ation						

Do	tachment 1: Parts Reco		Orig Tracking VIN Doc No.									
	Final Destination: CQI	EC		SETR#:			CQE Eng	<b>j</b> :	N/A			
lm	porter: (Applies to TMC Shipme	nts Only)	Delive	r to:				 住所:		l		
Ov TO Nis	rth America EDER Gr., Technical erseas Customer Service Technic YOTA MOTOR CORPORTATION shin Education & Training Center 10, SAKAE, NISSHIN, AICH, 470 can	al Div.	Attn: Tel:					宛先: ſel:				
T-S	TAR										- OLIOTOM	
Not	te: If this FTR contains more than on	e VIN, creat	e a table i	n the report con	taining VIN, p	roduc	tion date, and	odometer			CUSTOMS sed Parts V	
	Part # 1: 3500050150	Part Descr		N ASSY					Qty.	Us \$	ed Part V	
1	Comments:	LIKANS	WISSIC	IN ASST					1	Φ	904	.00
2	Part # 2:  Comments:	Part Descr	iption						Qty.	Usi	ed Part V	'alue ) .00
	Part # 3:	Part Descr	iption						Qty.	Us	ed Part V	alue
3	Comments:								0	\$	0	.00
	Part # 4:	Part Descr	iption						Qty.	Us	ed Part V	alue
4	Comments:									\$		.00
	Comments.											
	Part # 5:	Part Descr	iption						Qty.		ed Part V	
5	Comments:									\$		.00
	Part # 6:	Part Descr	iption						Qty.	Use \$	ed Part V	alue .00
6 Comments:										<u>1 Ψ</u>		.50
	Part # 7:	Part Descr	iption						Qty.		ed Part V	
7	Comments:									\$		.00
	Comments.											



CH-39

TQCN DOC#		Affiliate	Dept.	Source	Location	Ref Date
FTR-PIF335461A		TMS	QA-Powertrain	PE	TMS	36701-1 12/22/2006
Problem Area	Primary M	odel	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	LS 460		2007	9/19/06	2994	JTHGL46F75
Condition Title						
ATM(Electrical)EC	M Erration	Shift on Acce	leration			

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

Repair Date	Optional Ref.	Optional Approval								
	•									

## **Condition Description**

Customer complaint: Transmission hesitates and has a double bump when accelerating from a stop after sitting at a traffic light for more than a few second

## Diagnostic Steps:

Technician test drove with customer and confirmed the following conditions are needed to duplicate the condition:

Vehicle is placed in "D" (Drive) and Park Hold Feature is turned "OFF", vehicle is stopped at the traffic light for greater than 45 seconds. Throttle application is made immediately to 50% and there is a hesitation and then bump as vehicle engages a gear

## **Probable Cause**

Electronic transmission control related to shift from 1<sup>st</sup> to neutral after being stopped for greater than 45 seconds with brake applied

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
8053550010			No port available	
090000010			i ivo part avallable - i	CUEC
			[	

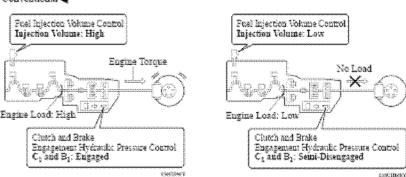
CHASSIS - AASOE AUTOMATIC TRANSMISSION

## Repair Process

None available

## **QAP Comment:** Information in this report obtained from TAS hotline contact

Neutral Control
Neutral control is used to disengage the transmission from the engine while the vehicle is stopped.
When the shift lever is in the D position and the vehicle is stopped, the ECT ECU semi-disengages the C₁ clutch and the B₂ brake. This reduces the load on the engine and improves fuel economy while the vehicle is stopped. This commol continues if the driver switches the shift lever to the S mode at this time. However, neutral control does not take effect if the vehicle comes to a stop in the S mode.
Conventional ◄



2007 LS460 New Car Features Page CH-39

Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-PIF335461A		TMS	QA-Powertrain	PE	TMS	36701-1	12/22/2006
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	LS 460		2007	9/19/06	2994	JTHGL46F75	
Condition Title							
ATM(Electrical)EC	CM Erratio	Shift on Accel	eration				

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking
VIN

Doc No.

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

	Final Destination: CQEC	SE	TR#:		CQE En	g:	N/A		
lm	porter: (Applies to TMC Shipments Only)	Deliver to:		14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		住所:			
Qu TO	N. Okumura, Chief Expert ality Div. Warranty Parts Room YOTA MOTOR CORPORATION oyota, Toyota-city, Aichi, 471-8571 oan	Attn: 宛先: Tel: Tel:							
T-S	TAR								
Not	e: If this FTR contains more than one VIN, create	a table in the re	eport cont	taining VIN, product	ion date, and	odometer			ISTOMS USE: Parts Value
1	Part # 1: Part Describer		NSMISS	SION CONTRO	<u> </u>		Qty. 1		Part Value 126 .00
2	Part # 2: Part Descr Comments:	iption					Qty.	Used \$	Part Value 0 .00
3	Part #3: Part Descr Comments:	ption					Qty.	Used \$	Part Value 0 .00
4	Part # 4: Part Descri	ption					Qty.	Used \$	Part Value .00
5	Part # 5: Part Descri	ption					Qty.	Used \$	Part Value .00
6	Part # 6: Part Descri	iption					Qty.	Used \$	Part Value .00
7	Part #7: Part Descri	ption					Qty.	Used \$	Part Value .00
8	Part #8: Part Descri	ption					Qty.	Used	Part Value .00
	Comments:								



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VRE601271		TMS	QA-Powertrain	FPE	TMS-LSA	37294-1	1/12/2007
Problem Area	Primary Mod	del	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	IS 350		2006	14-Jul-2006	254 mi	JTHBE262X62	
Condition Title							
Erratic throttle ope	eration						

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

Repair Date	Optional Ref.	Optional Approval
10-JAN-2007	64230 0110071	

## **Condition Description**

Customer states intermittently the vehicle is very sluggish and surges for the first 5 minutes of driving when started cold, and then the vehicle operates properly. This sluggish/surging occurs about 80% of the time driving until the vehicle reaches operating temperature.

When the condition occurs, if the accelerator pedal is completely depressed the engine speed will slowly climb to about 4000rpm and then drop to about 3000rpm. As long as the accelerator pedal is depressed the engine speed will surge up and down around these RPMs.

There is no Diagnostic Trouble Codes present, pending or in history.

## Diagnostic Steps:

- 1. A video was taken of this condition as well as multiple snapshots. These files are attached below.
- 2. The condition felt like a low fuel pressure concern, so the techstream was used to monitor fuel pressure when the condition occurred. While pressure did decrease slightly the pressure loss is not seem to fit such an immediate drop in engine speed.
- 3. The techstream was then used to monitor throttle position. When engine speed and throttle position were overlapped in graph mode and zoomed in on, it revealed the throttle position was closing prior to the drop in engine speed (the accelerator position sensor read wide open throttle during this).
- 4. The throttle body motor resistance was checked  $2.5\Omega$  (spec 0.3  $100\Omega$ ). This measurement was also compared to another vehicle and found to be very similar.
- 5. The throttle body was swapped to a donor vehicle and then both vehicles were test driven cold. The condition moved to the donor vehicle.

## Probable Cause

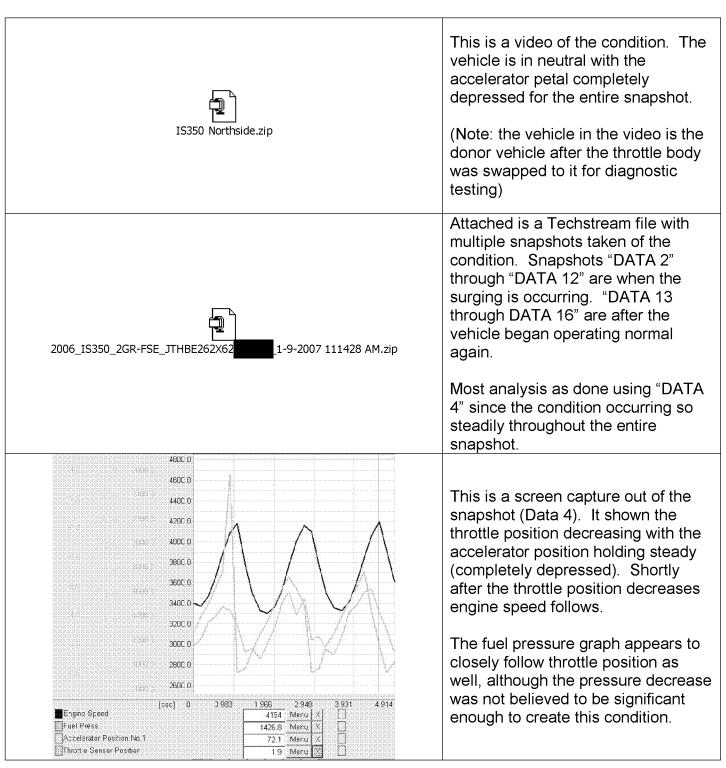
Internal throttle body co	ncern.			
	<b>1</b> · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
Part #1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
2203031040			Have part / will	CQEC

#### Repair Process

Replacing the throttle body repaired the vehicle.

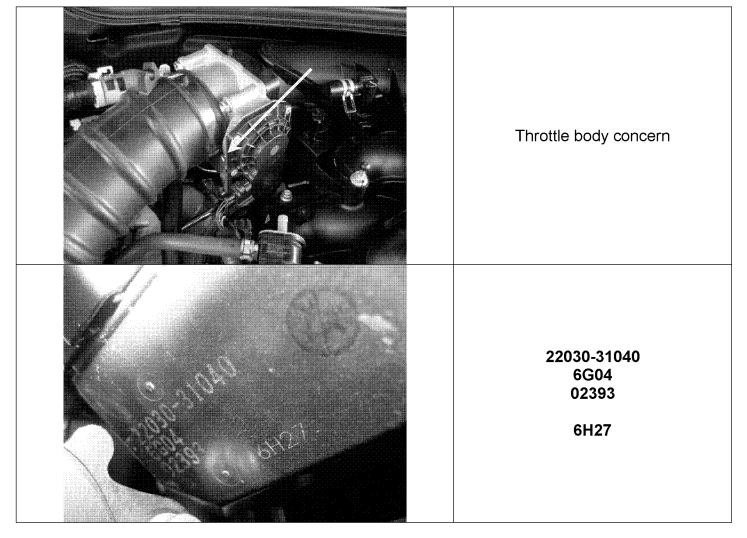


TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date	
FTR-VRE601271		TMS	QA-Powertrain	FPE	TMS-LSA	37294-1	1/12/2007	
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):	
Base Vehicle	IS 350		2006	14-Jul-2006	254 mi	JTHBE262X62		
Condition Title	Condition Title							
Erratic throttle ope	eration							





TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VRE601271		TMS	QA-Powertrain	FPE	TMS-LSA	37294-1	1/12/2007
Problem Area	Primary Mo	del	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	IS 350		2006	14-Jul-2006	254 mi	JTHBE262X62	
Condition Title							
Erratic throttle ope	eration						



Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-VRE601271		TMS	QA-Powertrain	FPE	TMS-LSA	37294-1	1/12/2007
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ers):
Base Vehicle	IS 350		2006	14-Jul-2006	254 mi	JTHBE262X62	
Condition Title							
Erratic throttle ope	eration						

# Attachment 1: Parts Recovery Control Sheet

Orig Tracking
VIN

Doc No.

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

	Final Destination:	CQEC		SETR#:		CQI	E Eng:		N/A			
lm	porter: (Applies to TMC Ship	pments Only)	Deliver	r to:			住所	Ī:				
Ov TC Nis 5-2	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 T-STAR						宛先 Tel:					
T-5	STAR											
No	te: If this FTR contains more tha	an one VIN, create	a table in	the report cont	taining VIN, pro	duction date	, and odom	eter		F	OR CUSTON	
1	Part # 1: 2203031040 Comments:	Part Descri BODY A		HROTTLE	W/MOTOR				Qty.	\$	Used Part 10	Value 5 .00
2	Part # 2: Comments:	Part Descri	ption						Qty. 0	\$	Used Part	Value 0.00
3	Part # 3: Comments:	Part Descri	ption						Qty. 0	\$	Used Part	Value 0 .00
4	Part # 4: Comments:	Part Descri	ption						Qty.	\$	Used Part	Value .00
5	Part # 5:  Comments:	Part Descri	ption						Qty.	\$	Used Part	Value .00
6	Part # 6: Comments:	Part Descri	ption						Qty.	\$	Used Part	Value .00
7	Part # 7:  Comments:	Part Descri	ption						Qty.	\$	Used Part	Value .00
8	Part # 8:  Comments:	Part Descri	ption						Qty.	\$	Used Part	Value .00



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-78K110171 TMS		TMS	QA-Powertrain	FTS	TMS-NY	39199-1	4/17/2007
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle	Camry		2006	26-Sep-2005	19777 mi	4T1BE32K66U	
Condition Title							
A/F Sensor- Surge during light Acceleration							

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

	<u> </u>	
Repair Date	Optional Ref.	Optional Approval
11-APR-2007		

## **Condition Description**

Customer states vehicle surges on light to moderate acceleration.

## Diagnostic Steps:

Technician verified the customer's complaint.

- Technician used tech stream and found A/F sensor reading 4.99 Volts during surge.
- Technician disconnected A/F sensor and test drove vehicle. Concern was resolved.
- Technician stated A/F sensor appears to be cracked.

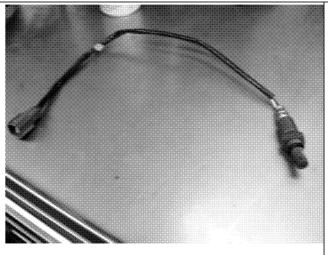
## Probable Cause

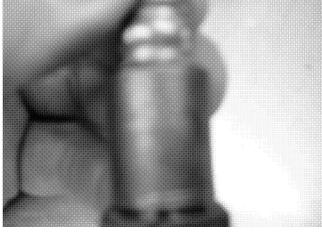
# Unknown

Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
8946706030			Have part / will ship	CQEC

## Repair Process

• Technician replaced A/F sensor and test drove concern was resolved.





A/F Sensor P/N 89467-06030

Picture attempts to show the following data:
Toyota 89467-06030
Denso 0350 09G19



TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date	
FTR-78K110171 TMS		QA-Powertrain FTS		TMS-NY	39199-1	4/17/2007	
Problem Area	Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle Camry		2006	26-Sep-2005	19777 mi	4T1BE32K66U		
Condition Title							
A/F Sensor- Surge during light Acceleration							

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN
Doc No.

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

CQE Eng: Final Destination: CQEC SETR#: N/A Importer: (Applies to TMC Shipments Only) Deliver to: 住所: Mr. N. Okumura, Chief Expert Attn: 宛先: Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION Tel: Tel: 1 Toyota, Toyota-city, Aichi, 471-8571 Japan T-STAR FOR CUSTOMS USE: Used Parts Value Note: If this FTR contains more than one VIN, create a table in the report containing VIN, production date, and odometer **Used Part Value** Part Description Qty. 8946706030 SENSOR, AIR FUEL RATIO 1 \$ 31 .00 1 Comments: Part # 2: Part Description Used Part Value Qty 0 |\$ 0.00 2 Comments: Part # 3: Part Description Qty Used Part Value \$ 0 .00 0 Comments: Part # 4: Qty. Used Part Value Part Description \$ .00 Comments: Part # 5: Part Description Used Part Value Qty. .00 \$ 5 Comments: Part # 6: Part Description Qty. **Used Part Value** .00 Comments: Part # 7: Part Description Qty. Used Part Value \$ .00 7 Comments: Part # 8: Used Part Value Part Description Qty. .00 8 Comments:



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-501115271	TMS	QA-Powert	rain FTS	TMS-PT	40151-1	6/4/2007
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 chara	cters):
Base Vehicle	Tundra	2007	06-Feb-2007	2791 mi	5TBBV58167S	
Condition Title						
Driveline Rear Dri	veshaft Thunk v	vhen accelerating fron	n a stop			

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

Repair Date	Optional Ref.	Optional Approval
12-MAY-2007		

## **Condition Description**

- The owner complains of a bump in the drivetrain when accelerating from a stop.
- The bump occurs just as the vehicle begins to move.

## Diagnostic Steps:

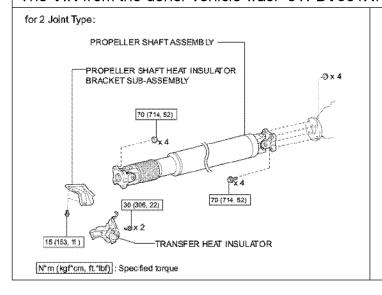
- Operated the vehicle and verified the condition.
- The vehicle had to be stopped aggressively from speeds of about 35mph or higher.
- The condition did not occur with slow gentle stops.
- The sensation is similar to the driveline bump that was present in the '00-'06 MY Tundra.
- This bump is different because it occurs as the vehicle starts to move rather than when the engine idle drops as the A/C compressor cycles off.

## **Probable Cause**

# Unknown Part #1: Part #2: Part #3: Parts Disposition: Parts Shipping Destination: 371000C150 Have part / will ship CQEC

## **Repair Process**

The rear propeller shaft assembly was replaced with one from another comparable vehicle and the condition was corrected. A new replacement part was subsequently installed in the donor vehicle. The VIN from the donor vehicle was: 5TFBV581X7X



Attachment 1: PRCS



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref Date
FTR-5O1115271	TMS	QA-Powertrain	FTS	TMS-PT	40151-1 6/4/2007
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	Tundra	2007	06-Feb-2007	2791 mi	5TBBV58167S
Condition Title					
Driveline Rear Dri	veshaft Thunk when acc	elerating from a stop			

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN

Doc No.

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

Tinal Destination - COFO		CETD#.	, <b>h</b> 1/A				
Final Destination: CQEC		SETR#:		CQE Eng			
oorter: (Applies to TMC Shipments Only)	Delive	er to:		住所:			
	Attn:			多	<b>范先</b> :		
oyota, Toyota-city, Aichi, 471-8571	Tel:			Т	el:		
TAR							
e: If this FTR contains more than one VIN, crea	te a table i	n the report conta	aining VIN, product	ion date, and o	dometer		FOR CUSTOMS US Used Parts Value
371000C150 SHAFT		PROPELLE	R W/CTR BE	ARING			Used Part Valu 3 224 .0
Part # 2: Part Desc	ription						Used Part Valu
Comments:						U I	)
Part #3: Part Desc	ription						Used Part Valu
Comments:							
Part # 4: Part Desc	ription				C		Used Part Valu
Comments:							
Part # 5: Part Desc	ription				C		Used Part Valu
Comments:						- 17	
Part # 6: Part Desc	ription				C		Used Part Valu
Comments:							
Part # 7: Part Desc	ription					- 1	Used Part Valu
Comments:						1.7	
Part #8: Part Desc	ription				C		Used Part Valu
Comments:						1	٠. ر
	N. Okumura, Chief Expert ality Div. Warranty Parts Room YOTA MOTOR CORPORATION oyota, Toyota-city, Aichi, 471-8571 an  TAR  ### 1: ### 2: ### 2: ### 2: ### 2: ### 2: ### 3: ### Part Desc Comments:  Part # 4: ### 4: ### Comments:  Part # 5: ### 5: ### Comments:  Part # 6: ### Comments:  Part # 7: #### Comments:  Part # 7: ##################################	N. Okumura, Chief Expert ality Div. Warranty Parts Room YOTA MOTOR CORPORATION oyota, Toyota-city, Aichi, 471-8571 an  TAR  IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	N. Okumura, Chief Expert Attn: Attn: Attn: Attn: Attn: Attn: Attn: Tel: Oyota, Toyota-city, Aichi, 471-8571 an  Part #1: 371000C150 Comments:  Part #2: Part #3: Part Description  Comments:  Part #4: Part Description  Comments:  Part #6: Part #6: Part #7: Part Description  Comments:  Part #7: Part Description  Comments:  Part #7: Part Description  Comments:  Part #8: Part Description	N. Okumura, Chief Expert ality Div. Warranty Parts Room YOTA MOTOR CORPORATION oyota, Toyota-city, Aichi, 471-8571 an  TAR  IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Deliver to:    Attn:	Deliver to:    Attr:   Attr:	Deliver to: 住所: Applies to TMC Shipments Only)  N. Okumura, Chief Expert Attn: %证先: Shity Div. Warranty Parts Room VOTA MOTOR CORPORATION Oyota, Toyota-city, Aichi, 471-8571 an  Tel:  T



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code	Ref	Date	
<b>PR-62930-1427</b> TMS		QA-Powertrain		MDT/DS		62930	36918-1	6/7/2007	
Dealer Name		Dealer (	Dealer City			F	Region		
RAY CATENA		FREE	FREEHOLD		NJ	ı	LEA		
Primary Model		Model Y	l Year Production Date		Odometer		VIN		
ES 350		2007	07 28-JUN-06		10357 mi		JTHBJ46G772		
Condition Title									
U660E: Shift Flare on	Reacceleration	on							

Repair Date	Optional Ref.	Applicable DTC Code(s)
22-MAY-2007		

## **Condition Description**

• Quoting the repair order, Customer states when driving from 35-40 MPH and accelerate lightly, vehicle takes off as if it was floored

## Diagnostic Steps:

- Test drive to duplicate 2/3 and or 4/5 shift issue.
- Was able to duplicate 5/4 downshift as in TSB TC005-07.
- After performing TSB there was a noticeable difference in shifting.

## **Probable Cause**

Part #1:

Part #2:

Part #3:

Parts Available on Request:

No part available

CQEC

# Repair Process

- Perform TSB TC005-07
- This report created to provide feedback regarding TSIB TC005-07



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code		Ref	Date	
PR-62930-1427	TMS		QA-Powertrain	in MDT/DS		62930		36918-1	6/7/2007	
Dealer Name		Dealer City			State		Regio	Region		
RAY CATENA		FREEHOLD			NJ		LEA			
Primary Model		Model \	del Year Production Date		Odometer		VIN			
ES 350		2007	7 28-JUN-06		10357 mi		JTHBJ46G772			
Condition Title										
U660E: Shift Flare on Reacceleration										

Do	tachment 1: Parts Reco	-			Orig Tracking VIN Doc No.						
I	Final Destination: CQI	EC		SETR#:			CQE Eng:	N/A			
lm	porter: (Applies to TMC Shipme	nts Only)	Delive	r to:			住月	· 新:			
Ov TO Nis 5-2	rth America EDER Gr., Technical erseas Customer Service Technic YOTA MOTOR CORPORTATION shin Education & Training Center 10, SAKAE, NISSHIN, AICH, 470 can	al Div.	Attn:				宛:	先:			
T-S	TAR										_
Not	te: If this FTR contains more than on	e VIN, creat	e a table i	n the report con	taining VIN, pro	ducti	ion date, and od	ometer		R CUSTOMS USE Ised Parts Value	:
1	Part # 1: 8953033041 Comments:	Part Descr COMPU		SSY, TRAN	SMISSION	CO	NTROL	Qty 1		sed Part Value 88 .00	)
2	Part # 2:  Comments:	Part Descr	iption					Qt <sub>y</sub> 0		sed Part Value 0 .00	)
3	Part # 3:  Comments:	Part Descr	iption					Qt <sub>3</sub>		sed Part Value 0 .00	)
4	Part # 4: Comments:	Part Descr	iption					Qty	γ. U	sed Part Value .00	<u> </u>
5	Part # 5: Comments:	Part Descr	iption					Qty	7. U	sed Part Value .00	)
6	Part # 6: Comments:	Part Descr	iption					Qty	r. U	sed Part Value .00	<u> </u>
7	Part # 7:  Comments:	Part Descr	iption					Qty	r. U	sed Part Value .00	)



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref Date
FTR-JZU225471	TMS	QA-Chassis	FTS	TMS-CAT	41024-1 9/12/2007
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 characters):
Base Vehicle	Highlander	2008	13-Jun-2007	3300 mi	JTEES42A482
Condition Title					
MIL Light "ON" Co	ode C1430 - Brake Peda	l Load Sensing Switch	n OFF Malfunction		

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

Repair Date	Optional Ref.	Optional Approval
11-SEP-2008		

## **Condition Description**

- VSC, ABS, Brake warning lights illuminate immediately after hard brake pedal application, (panic stop maneuver.)
- DTC C1430: Brake Pedal Load Sensing Switch OFF Stuck Malfunction
- DTC C1431: Brake Pedal Load Sensing Switch ON Stuck Malfunction
- Depressing the brake pedal less than a few mm will cause the Brake Assist system to activate and the vehicle to lurch to a stop with little pedal travel, making the vehicle undriveable.
- Brake malfunction message displayed
- ABS malfunction message displayed
- VSC system malfunction

## Diagnostic Steps:

- Visually inspect brake pedal load sensing switch, switch plunger doesn't align with actuator bracket. Please see photos.
- Switch plunger jammed against actuator bracket.
- Bracket appears to be bending or shifting with extreme braking maneuvers.

#### **Probable Cause**

Unknown at this time

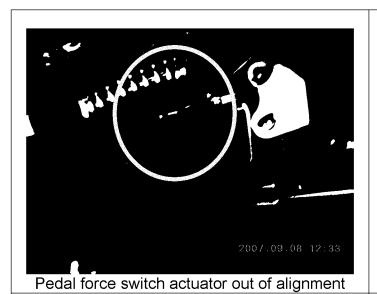
				,
Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
4710648060			Special request only	2750

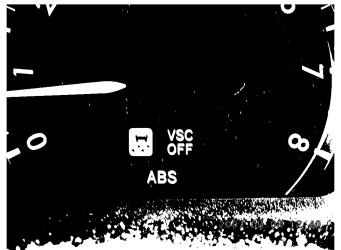
## Repair Process

- Reposition bracket back into place, code immediately changes to stored.
- ABS and VSC lights turn off.
- After repositioning bracket and performing another panic stop maneuver, bracket moves out of position again.
- If repeating another panic stop maneuver, the code immediately reset

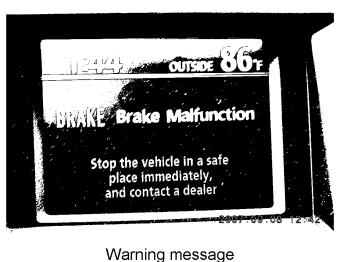


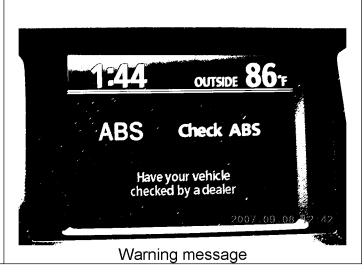
TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date
FTR-JZU225471	TMS	QA-Chassis	FTS	TMS-CAT	41024-1	9/12/2007
Problem Area	Primary Model	Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):
Base Vehicle	Highlander	2008	13-Jun-2007	3300 mi	JTEES42A482	
Condition Title						
MIL Light "ON" Co	ode C1430 - Brake Peda	Load Sensing Switcl	h OFF Malfunction			





Warning message





Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-JZU225471		TMS	QA-Chassis	FTS	TMS-CAT	41024-1	9/12/2007
Problem Area	Primary Mo	odel	Model Year	Production Date	Odometer	VIN (confirm 17 charact	ers):
Base Vehicle	Highlan	der	2008	13-Jun-2007	3300 mi	JTEES42A482	
Condition Title MIL Light "ON" Co	nde C143	∩ - Brake Pedal	Load Sensing Switc	h OFF Malfunction			

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN
Doc No.

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

"scrap", properly dispose of the part.			DOC NO.			
Final Destination:	2750	SETR#:	CQE Eng:	N/A		
Importer: (Applies to TMC St	nipments Only)	Deliver to:	住所	:		
Mr. N. Okumura, Chief Expert Quality Div. Warranty Parts Ro	om	Attn:	宛先	:		
TOYOTA MOTOR CORPORA 1 Toyota, Toyota-city, Aichi, 47		Tel:	Tel:			
Japan						
T-STAR						
Note: If this FTR contains more t	han one VIN, create	e a table in the report contai	ning VIN, production date, and odom	eter FOR CUSTOMS USE: Used Parts Value		
1 Part # 1: 4710648060 Comments:	Part Descr	iption		Qty. Used Part Value 1 \$ 0.00		



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code		Ref	Date
PR-48028-2987	TMS		QA-Powertrain	MDT/DS		48028		32179-1	10/27/2007
Dealer Name		Dealer Ci	ity		State		Regio	n	
KOLOSSO TOYOTA		APPLE	TON		WI		CHI		
Primary Model		Model Ye	ear Production	n Date	Odometer		VIIV	N	
Camry		2007	28-NO\	<b>/</b> -06	5674 m	ni	J٦	NBE46K773	
Condition Title		•	-		-1				
Shifting Concerns									

Repair Date	Optional Ref.	Applicable DTC Code(s)
25-OCT-2007		

## **Condition Description**

- Customer states the vehicle surges on a steady cruise, vehicle is aggressive while in cruise and going up an incline.
- Vehicle also has a harsh down shift into 1st gear before stop.
- The vehicle has all the latest cal updates.

## Diagnostic Steps:

- 1. Perform health check for any updates
- 2. Check trans fluid level and monitor data while driving during test drive
- 3. Compared to like vehicle with same engine ECU calibration and vehicle behaved in the same manner.

## **Probable Cause**

● Unknown

Part # 1: Part # 2: Part # 3: Parts Available on Request: Parts Shipping Destination: No part available CQEC

## **Repair Process**

• Technician advised customer that vehicle is operating as designed at this time.



Health Check Information



TQCN DOC#	Affiliate	Dept.		Source		Dealer Code	R	ef	Date
PR-48028-2987	TMS	QA-	Powertrain	MDT/DS		48028	3	2179-1	10/27/2007
Dealer Name		Dealer City			State		Region		
KOLOSSO TOYOTA		APPLETON			WI CHI		СНІ		
Primary Model		Model Year	Model Year Production Date		Odometer		VIN		
Camry		2007	2007 28-NOV-06			5674 mi JTNBE4			
Condition Title		-							
Shifting Concerns									

Do	tachment 1: Parts Reco	-			Orig Tracking VIN Doc No.							
	Final Destination: CQI	ΞC		SETR#:			CQE Eng	g:	N/A			
lm	porter: (Applies to TMC Shipme	nts Only)	Deliver	r to:				 住所:				
Ov TO Nis 5-2	rth America EDER Gr., Technical I erseas Customer Service Technical YOTA MOTOR CORPORTATION shin Education & Training Center 210, SAKAE, NISSHIN, AICH, 470- pan	al Div.	Attn: Tel:					宛先: Tel:				
										LEOR	CUSTON	AC LICE:
1	Part # 1: 000000000000000000000000000000000000	e VIN, creat		n the report con	taining VIN, p	roduc	tion date, and	odometer	Qty.	Use	ed Parts ed Part '	Value
2	Part # 2: Comments:	Part Descr	iption						Qty.	Use \$	ed Part '	Value 0.00
3	Part # 3: Comments:	Part Descr	iption						Qty.	Use \$	ed Part '	Value 0.00
4	Part # 4: Comments:	Part Descr	iption						Qty.	Use \$	ed Part	Value .00
5	Part # 5:  Comments:	Part Descr	iption						Qty.	Use \$	ed Part '	Value .00
6	Part # 6: Comments:	Part Descr	iption						Qty.	Use \$	ed Part '	Value .00
7	Part # 7:  Comments:	Part Descr	iption						Qty.	Use \$	ed Part	Value .00



TQCN DOC#	Affiliate	Dept.		Source		Dealer Code	Ref	Date	
PR-39052-2717	TMS	QA-	Powertrain	MDT/DS		39052	43491-1	10/30/2007	
Dealer Name		Dealer City		-	State		Region		
JIM HUDSON TOYOT	Ā	IRMO			SC		SET		
Primary Model		Model Year	Productio	n Date	Odometer		VIN		
Tundra		2007	007 30-MAY-07		4120 mi		5TFRT54147X	5TFRT54147X	
Condition Title			<u> </u>						
Electronic Controls EC	CM Surge								
Repair Date	Optional Re	ef.	Ар	plicable DTC Co	de(s)				
22-SEP-2007									
0 - 110 - D 1 - 0 -	n		'						
Condition Descriptio									

Tested engine controls found no codes or any abnormal readings	
Probable Cause	

Part # 1:	Part # 2:	Part # 3:	Parts Available on Request:	Parts Shipping Destination:
896610C800			No part available	CQEC

# Repair Process

none at this time -	

Dealer Product Report – Toyota Lexus (4/2004)



TQCN DOC#	Affiliate		Dept.	Source		Dealer Code	Ref	Date
PR-39052-2717	ТМЅ		QA-Powertrain	MDT/DS		39052	43491-1	10/30/2007
Dealer Name		Dealer Cit	ty		State		Region	
JIM HUDSON TOYOT	IRMO			SC		SET		
Primary Model		Model Ye	ar Production	n Date	Odometer	•	VIN	
Tundra		2007	30-MA	<b>Y-</b> 07	4120 m	ni	5TFRT54147X	
Condition Title			•				'	
Electronic Controls EC	CM Surge							

Do	tachment 1: Parts Reco	-			Orig Tracking VIN Doc No.							
ı	Final Destination: CQI	EC		SETR#:			CQE Eng:		N/A			
lm	porter: (Applies to TMC Shipme	nts Only)	Delive	r to:			住	<u> </u>		l		
Ov TO Nis	rth America EDER Gr., Technical I erseas Customer Service Technical YOTA MOTOR CORPORTATION shin Education & Training Center 110, SAKAE, NISSHIN, AICH, 470- pan	al Div.	Attn: 宛先: Tel: Tel:									
T-S	TAR IIII											
Not	te: If this FTR contains more than on	e VIN, creat	e a table i	n the report con	taining VIN, pro	duct	tion date, and o	lometer			CUSTOMS ed Parts V	
	Part # 1:	Part Descr		-NOINE OO	NITOOL				Qty.		ed Part V	
1	896610C800 Comments:	COMPL	JIER, E	ENGINE CO	NIROL				1	\$	132	2 .00
	Part # 2:	Part Descr	iption						Qty.		ed Part V	
2	Comments:								0	\$	C	00. 0
	onimonio.											
	Part # 3:	Part Descr	iption						Qty.		ed Part V	
3	Comments:								0	\$	(	00. 0
	Comments.											
	Part # 4:	Part Descr	iption						Qty.	l	ed Part V	
4	Comments:									\$		.00
	onimonio.											
	Part # 5:	Part Descr	iption						Qty.	l	ed Part V	
5	Comments:									\$		.00
	Part # 6:	Part Descr	iption						Qty.	l	ed Part V	
6	Comments:									\$		.00
	Part # 7:	Part Descr	iption						Qty.		ed Part V	
7	Comments:									\$		.00



TQCN DOC#	Affiliate	Dept.	Source	Location	Ref	Date						
FTR-7ZK131071 TMS		QA-Powertrain	FTS	TMS-NY	33236-3	11/6/2007						
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charac	ters):						
Base Vehicle	Camry	2007	12-Jul-2007	1435 mi	4T1BE46K97U							
Condition Title												
Post C/M Hesitation	Post C/M Hesitation on Acceleration from a Stop and at 35-50MPH											

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

Repair Date	Optional Ref.	Optional Approval	
01-NOV-2007			

# **Condition Description**

- Customer states vehicle does not accelerate when gas pedal is depressed. TSB has already been completed on Oct.3, 2007.
- When traveling 30-40 MPH in the City and attempting to keep up with traffic vehicle will not accelerate when accelerator is depressed up to a 1/4 of the way down.
- When traveling a low speeds and attempting to accelerate vehicle will not accelerate when accelerator is depressed up to a ¼ of the way down.
- When continuing to depress throttle pedal past 1/4 of the way vehicle will downshift abruptly and accelerate much faster then expected.
- Customer is afraid to drive vehicle.

## Diagnostic Steps:

- FTS inspected and found vehicle had most current calibration file from bulletin EG036-07 previously installed.
- FTS test drove vehicle and noted vehicle operates consistently with other Camry's that the technician has updated with bulleting EG036-07.
- FTS recorded snapshot using tech stream of acceleration events for review.

## **Probable Cause**

<ul> <li>Unknown</li> </ul>				
Part # 1:	Part # 2:	Part # 3:	Parts Disposition:	Parts Shipping Destination:
N/A			No part available	N/A

## **Repair Process**

No repairs attempted, vehicle has most current ECU calibration



Techstream Snapshot at 45MPH Accelerating To Keep Up With Traffic

Attachment 1: PRCS



TQCN DOC#		Affiliate	Dept.	Source	Location	Ref	Date
FTR-7ZK131071		TMS	QA-Powertrain	FTS	TMS-NY	33236-3	11/6/2007
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 charact	ers):	
Base Vehicle Camry		2007	12-Jul-2007	1435 mi	4T1BE46K97U		
Condition Title							
Post C/M Hesitation	on on Acc	eleration from a	a Stop and at 35-50N	1PH			

# Attachment 1: Parts Recovery Control Sheet

Orig
Tracking
VIN
Doc No.

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 Eng		N/A		
lm	porter: (Applies to TMC Shipment	s Only) Delive	r to:		1	主所:			
Qu TC	N. Okumura, Chief Expert ality Div. Warranty Parts Room YOTA MOTOR CORPORATION oyota, Toyota-city, Aichi, 471-8571 pan	Attn: Tel:	<b>9</b> 5九.						
T-S	TAR								
Not	e: If this FTR contains more than one		the report conta	aining VIN, producti				FOR CUSTOM: Used Parts \	
1	Part # 1: I N/A Comments:	Part Description					Qty.	Used Part \	
2	Part # 2: I	Part Description					Qty. 0	Used Part \	/alue ) .00
3	Part #3: I	Part Description					Qty.		/alue ) .00
4	Part # 4:  Comments:	Part Description					Qty.	Used Part \	/alue .00
5	Part # 5:	Part Description					Qty.	Used Part \	/alue .00
6	Part # 6:	Part Description					Qty.	Used Part \	/alue .00
7	Part # 7:	Part Description					Qty.	Used Part \	/alue .00
8	Part #8:	Part Description					Qty.	Used Part \	/alue .00
-	Comments.								



TQCN DOC#	Affiliate	Dept.		Source		Dealer Code	Ref	Date
TQCN_DPR-080860012	TMS	QAPowertr	rain	MDT/DS		63105	80883282	03/28/2008
Dealer Name		Dealer City			Sta	te	Region	
RALLYE LEXUS		GLEN COVE			NY		EAS	
Primary Model		Model Year	Proc	duction Date	Od	ometer	VIN	
ES350		2008	10-	SEP-07	49	89 mi	JTHBJ46G882	
Condition Title								-
U660E: Harsh Downshift v	vhen Acc	elerating from	40 MP	H				

Repair Date	Optional Ref.	Applicable DTC Code(s)
3/25/2008		

## **Condition Description**

• Customer states at around 40 MPH when reaccelerating the vehicle jerks

## Diagnostic Steps:

• Road tested vehicle and confirmed condition, checked fluid level, for dtc's and shift program updates

## **Probable Cause**

• The car is performing the same as other like vehicles. It is the "pause" while the ECM decided what gear to downshift to.

Part # 1:	Part # 2:	Part # 3:	Parts Available on Request:	Parts Shipping Destination:
00000000000			No part available	CQE

## **Repair Process**

• None, vehicle is operating as designed.

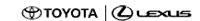
TQCN\_DPR 03/21/2008 Page 1 of 2



TQCN DOC#	Affiliate	Dept.		Source		Dealer Code	Ref	Date
TQCN_DPR-080860012	TMS	QAPowertr	rain	MDT/DS		63105	80883282	03/28/2008
Dealer Name		Dealer City		State		Region		
RALLYE LEXUS		GLEN COVE			NY		EAS	
Primary Model		Model Year	Produ	uction Date	Ode	ometer	VIN	
ES350		2008	10-8	SEP-07	49	89 mi	JTHBJ46G882	
Condition Title							•	
U660E: Harsh Downshift v	vhen Acce	elerating from	40 MPF	ł				

At	tachment 1: Parts	Recovery	Contro	ol Sheet	Orig Tracking VIN					
	not type in SHADED field: scrap", properly dispose o		stinatio	n field below	Doc No.					
F	inal Destination:	CQE		SETR#:		CQEE	ng:	N/A		
lmp On	oorter: (Applies to TMC S ly)	er to:		•	住所:		•			
	N. Okumura, Chief Exper ality Div. Warranty Parts R				宛先:					
	YOTA MOTOR CORPOR, oyota, Toyota-city, Aichi, 4 oan		Tel:				Tel:			
									FOR CUSTOMS USE:	Used
Not	e: If this FTR contains more	Part Desc		ne in the report	containing vin,	production da	ate, and odd	Qty.	Parts Value Each Used Part Value Ea	
1	000000000000	TEST P						0	\$	0
ľ	Comments:									
2	Part # 2:	Part Desc	ription					Qty.	Used Part Value Ea	ach
_	Comments:									
_	Part # 3:	Part Desc	ription					Qty.	Used Part Value Ea	ach
3	Comments:									
	Part # 4:	Part Desc	ription					Qty.	Used Part Value Ea	ach
4	Comments:								<b>1</b>	
	Part # 5:	Part Desc	ription					Qty.	Used Part Value Ea	ach
5	Comments:						ĮΨ			
	Part # 6:	Part Desc	ription					Qty.	Used Part Value Ea	ach
6	Comments:							I	1.1	

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TQCN DOC# Affiliate		Dept.	Source	Location	Ref	Date
TQCN_FTR-080910035 TMS		QAPowertrain	FTS	REG-POR	80270115	04/04/2008
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):	
Base Vehicle Camry		2005	2005-06-17	38,515	JTDBE32K453	
Condition Title						
2AZ-FE: Vehicle Surges on Acceleration						

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

Repair Date	Optional Ref.	Optional Approval						
3/3/2008								

#### **Condition Description**

Customer states that there is a surge on moderate to heavy acceleration between 30-50 mph.

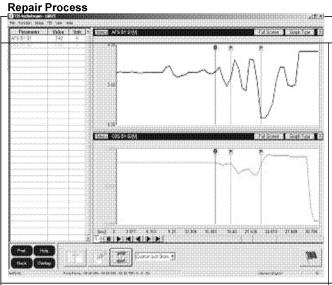
## Diagnostic Steps:

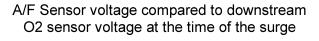
- Verified customer's complaint during road test.
- Performed health check and no codes were present.
- While driving the vehicle at the time of the concern data list showed no miss fires.
- Readings were within repair manual specifications for the following data parameters:
  - o MAF
- o Ignition Timing o Fuel Trims

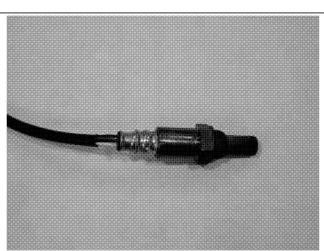
- o RPM o VVT-i
- o Knock o ECT
- o TP o APP
- Found that A/F sensor voltage appeared to be erratic when all other monitors were linear.
- After disconnecting the A/F sensor and driving the vehicle the concern was no longer present.

## **Probable Cause**

Unknown Part # 1: Part # 2: Part # 3: Parts Disposition: Parts Shipping Destination: 8946733080 CQE Special request only







A/F Sensor 89467-33080

Attachment 1: PRCS



TQCN DOC# Affiliate		Affiliate	Dept.	Source	Location	Ref	Date
TQCN_FTR-080910035 TMS		QAPowertrain	FTS	REG-POR	80270115	04/04/2008	
Problem Area Primary Model		Model Year	Production Date	Odometer	VIN (confirm 17 characters):		
Base Vehicle Camry		2005	2005-06-17	38,515	JTDBE32K453		
Condition Title							
2AZ-FE: Vehicle	Surges or	n Acceleration					

n od	achment 1: Parts Re	the <b>Final Dest</b>			Orig Tracking VIN - Doc No.						
	"scrap", properly dispose of the part.  Final Destination: CQE SETR#:					CQE Eng: N		N/A			
lmp Onl	orter: (Applies to TMC Ship y)	ments	Deliver	to:			住所:				
Qua TO\	N. Okumura, Chief Expert ality Div. Warranty Parts Roon OTA MOTOR CORPORATIO oyota, Toyota-city, Aichi, 471- an	n DN	Attn: Tel:				宛先: Tel:				
T-S1	TAR										105 11 1
Note	e: If this FTR contains more tha	n one VIN, creat	te a table	in the report c	ontaining VIN, p	production dat	e, and odd	meter		FOR CUSTOMS Parts Val	
1	Part # 1: 8946733080	Part Descrip SENSOR		UEL RATIO					Qty. 1	Used Part Va \$	lue Each 31.08
•	Comments:										
	Part # 2:	Part Descrip	ption						Qty.	Used Part Va \$	lue Each
2	Comments:									17	
	Part # 3:	Part Descrip	ption						Qty.	Used Part Va	lue Each
3	Comments:									ĮΨ	
	Part # 4:	Part Descrip	ption						Qty.	Used Part Va	lue Each
4	Comments:									ΙΨ	
	Part # 5:	Part Descrip	ption						Qty.	Used Part Va	lue Each
5	Comments:									\$	



TQCN DOC#	Affiliate	Dept.	Source		Dealer Code	Ref	Date
TQCN_DPR-080890008	TMS	QAPowertrai	n MDT/DS		64107	80953695	04/04/2008
Dealer Name		Dealer City		Stat	te	Region	
LEXUS OF MEMPHIS		MEMPHIS		TN		SOU	
Primary Model		Model Year	Production Date	Odometer		VIN	
LS460		2007	02-AUG-07	6224 mi		JTHGL46F475	
Condition Title		1					
Customer states vehicle lu	inge while	braking					

Repair Date	Optional Ref.	Applicable DTC Code(s)
3/25/2008		

## **Condition Description**

Customer states that when applying the brake at 20-30 mph car will start to brake, then jerk and lunge forward about 5 feet before stopping. Happened 3 times but is intermittent.

## **Diagnostic Steps:**

Drove vehicle to try and verify and duplicate the concern but could not get it to do how customer described. Did feel a slight surge as car slowed down and transmission would downshift, as it did the engine rpm's would raise.

# Probable Cause Unknown Unknown Part #1: Part #2: Part #3: Parts Available on Request: Parts Shipping Destination: 4405050130 3500050160 No part available CQE

## Repair Process

Called and talked with FTS. We checked the transmission fluid level which was good, as well as brake operation. There was a plastic floor mat near accelerator pedal, do not know if this had anything to do with concern or not but fastened it out of the way anyway. Talked with customer, they will keep an eye on issue and let us know.

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TQCN DOC#	Affiliate	Dept.	Source		Dealer Code	Ref	Date
TQCN_DPR-080890008	TMS	QAPowertrain	wertrain MDT/DS		64107	80953695	04/04/2008
Dealer Name		Dealer City		State		Region	
EXUS OF MEMPHIS		MEMPHIS	MEMPHIS			sou	
Primary Model		Model Year	Production Date	Odo	meter	VIN	
LS460		2007	02-AUG-07	6224 mi		JTHGL46F475	
Condition Title						_	
Customer states vehicle lu	inge while	braking					

	achment 1: Parts Reco	-	Orig Tracking VIN			
	not type in SHADED fields. If the rap", properly dispose of the part.		Doc No.			
F	inal Destination: CQE	SETR#:		CQE Eng:	N/A	
lmp Onl	orter: (Applies to TMC Shipme y)	nts Deliver to:		住店	· 听:	
	N. Okumura, Chief Expert	Attn:		宛约	<b>先</b> :	
TO\ 1 To	YOTA MOTOR CORPORATION byota, Toyota-city, Aichi, 471-857	Tel:		Tel	:	
Jap	an					
T-S	rar IIIIIIII					
Note	e: If this FTR contains more than on	ne VIN, create a table in the report co	ontaining VIN, pr	oduction date, and	odometer	FOR CUSTOMS USE: Used Parts Value Each
		Part Description ACTUATOR ASSY, BRAKE V	V/FLUID		<b>Q</b> ty.   1	Used Part Value Each \$ 276.33
1	Comments:					S
		Part Description TRANSMISSION ASSY			Qty.	Used Part Value Each \$ 1,186.23
2	Comments:	TIVINO MICCION 71001				h 8,100,20
	Part # 3:	Part Description			Qty.	Used Part Value Each
3	Comments:					
	Part # 4:	Part Description			Qty.	Used Part Value Each
4	Comments:					<b> \$</b>
	Part # 5:	Part Description			Qty.	Used Part Value Each
5	Comments:					<b>  \$</b>
	Part # 6:	Part Description			Qty.	Used Part Value Each
6	Comments:					

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TQCN DOC#	Affiliate			Dealer Code	Ref	Date	
TQCN_DPR-080990041	TMS			62906	81054279	04/14/2008	
Dealer Name		Dealer City	-	State	Region		
LAWRENCE LEXUS		LAWRENCEVILLE		NJ	EAS	EAS	
Primary Model		Model Year	Production Date	Odometer	VIN		
ES350		2008	21-DEC-07	2555 mi	JTHBJ46G082		
Condition Title			-				
U660E: Harsh Downshift of	on Reacce	eleration from	30 MPH				

Repair Date	Optional Ref.	Applicable DTC Code(s)
4/8/2008		

## **Condition Description**

• When going from 50 to 30 mph and then reaccelerating, transaxle jerks.

## Diagnostic Steps:

- No codes stored.
- Inspected transaxle fluid level

## **Probable Cause**

• Fluid level was between 1 to 1.5 quarts low.

Part # 1:	Part # 2:	Part # 3:	Parts Available on Request:	Parts Shipping Destination:
00289ATFWS			No part available	CQE

## **Repair Process**

Performed fluid procedure and reset ECT memory

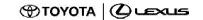
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TQCN DOC#	Affiliate	Dept.	Source			Dealer Code	Ref	Date
TQCN_DPR-080990041	PR-080990041 TMS QAPowertrain MDT/DS			62906	81054279	04/14/2008		
Dealer Name		Dealer City		State		Region		
LAWRENCE LEXUS	LEXUS LAWRE		NCEVILLE N		N.		EAS	
Primary Model		Model Year	Proc	duction Date	Ode	ometer	VIN	
ES350		2008	21-	21-DEC-07 255		55 mi	JTHBJ46G082	
Condition Title								
U660E: Harsh Downshift of	on Reacce	eleration from	30 MPI	Н				

Att	achment 1: Parts	Recovery	Control Sheet	Orig Tracking VIN			
	not type in SHADED field scrap", properly dispose		estination field below	Doc No.			
F	inal Destination:	CQE	SETR#:		CQE Eng:	N/A	
lm p On	oorter: (Applies to TMC y)	Deliver to:		住所	:		
	N. Okumura, Chief Expe ality Div. Warranty Parts		Attn:		宛先	:	
	YOTA MOTOR CORPOF oyota, Toyota-city, Aichi, an		Tel:				
	TAR		rests a table in the rene	rt containing VIN	production data and		FOR CUSTOMS USE: Used
1	Part # 1: 00289ATFWS	Part Des	<u> </u>	-	Qty.	Parts Value Each Used Part Value Each \$ 0.86	
•	Comments:						
2	Part # 2:	Part Des	cription			Qty.	Used Part Value Each
_	Comments:						
_	Part # 3:	Part Des	cription			Qty.	Used Part Value Each
3	Comments:	-					
_	Part # 4:	Part Des	cription			Qty.	Used Part Value Each
4	Comments:	<u> </u>				•	17
	Part # 5:	Part Des	cription			Qty.	Used Part Value Each
Comments:							ļΨ
6	Part # 6:	Part Des	cription			Qty.	Used Part Value Each
6	Comments:						•

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TQCN DOC#	Affiliate	Dept.	Source		Dealer Code	Ref	Date
TQCN_DPR-082540019	TMS	QAPowertra	QAPowertrain MDT/DS		60404	80802620	09/16/2008
Dealer Name		Dealer City	Dealer City		ite	Region	
LEXUS CARLSBAD		CARLSBAD	RLSBAD CA WES				
Primary Model		Model Year	Production Date	Od	Odometer VIN		
RX330		2005	27-MAY-05	95 44055 mi		JTJGA31U250	
Condition Title				•			
Drivability Concerns							

Repair Date	Optional Ref.	Applicable DTC Code(s)
8/19/2008		

#### **Condition Description**

• Customer states the vehicle jerks and hesitates upon hard acceleration.

## **Diagnostic Steps:**

- Inspected engine control system with Techstream for any malfunctions and found none.
- Road tested and confirmed that vehicle operates as designed.
- Searched TSIB's for related concerns found TSIB TC005-03

#### **Probable Cause**

Customer driving style and transaxle programming logic.

Part # 1:	Part # 2:	Part # 3:	Parts Available on Request:	Parts Shipping Destination:
N/A			No part available	CQE

#### **Repair Process**

- Performed update per TSIB TC005-03.
- The vehicle was delivered to the customer and after they drove the vehicle they feel the repair done was not satisfactory.
- · Advised customer that no other repair is available or necessary.
- Customer states they are very unhappy with this condition and states this is not something a Lexus should do.

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TQCN DOC#	Affiliate	Dept.	Source		Dealer Code	Ref	Date
TQCN_DPR-082540019	TMS	QAPowertraii	Powertrain MDT/DS		60404	80802620	09/16/2008
Dealer Name		Dealer City	Dealer City		te	Region	
LEXUS CARLSBAD	D CARLSBAD		C	4	WES		
Primary Model		Model Year	Production Date	Od	Odometer VIN		
RX330		2005	27-MAY-05	27-MAY-05 44055 mi		JTJGA31U250	
Condition Title				•		-	
Drivability Concerns							

	tachment 1: Parts	-			Orig Tracking VIN					
	not type in SHADED field scrap", properly dispose		estinatior	i field below	Doc No.		101 10 101 101 101 101 101 101 101 101			
F	inal Destination:	CQE		SETR#:		CQEE	ng:	N/A		
lm p On	oorter: (Applies to TMC ly)	Shipments	Delive	r to:			住所:			
Mr. N. Okumura, Chief Expert  Quality Div. Warranty Parts Room  TOYOTA MOTOR CORPORATION			Attn:				宛先: 元先: Tel:			
	oyota, Toyota-city, Aichi,						161.			
					Maio io - MAI				FOR CUSTOMS USE: Used	
1	e: If this FTR contains mor Part # 1: N/A	Part Des		e in the report	containing vin,	production da	ate, and od	Qty.	Parts Value Each Used Part Value Each 0.00	
	Comments:	•								
2	Part # 2:  Comments:	Part Des	cription					Qty.	Used Part Value Each	
3	Part # 3:  Comments:	Part Des	cription					Qty.	Used Part Value Each	
	Part # 4:	Part Des	cription					Qty.	Used Part Value Each	
4	Comments:	T dit bes	сприон					gary.		
	Part # 5:	Part Des	cription					Qty.	Used Part Value Each	
5 Comments:									5	
	Part # 6:	Part Des	cription					Qty.	Used Part Value Each	
6	Comments:	<b>I</b>								

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TQCN DOC#	Affiliate	Dept.	Source		Dealer Code	Ref	Date
TQCN_DPR-082740007	TMS	QAPowertrain	MDT/DS		60105	80271890	10/23/2008
Dealer Name		Dealer City		State		Region	
TOM WILLIAMS LEXUS		IRONDALE		A	AL SOU		
Primary Model		Model Year	Production Date	Oc	lometer	VIN	
RX350		2008	05-DEC-07	10	0029 mi	2T2GK31U18C	
Condition Title							
Hesitation/Harsh Downshi	ft Concer	n on Reaccelerati	on from Low Vehic	e Speed	I (U151E)		

Repair Date	Optional Ref.	Applicable DTC Code(s)
9/30/2008		

## **Condition Description**

- Customer states: "When slowing down to go through a yield sign and then reaccelerate, the vehicle hesitates, jerks and slams into gear."
- Vehicle speed on reacceleration is approximately 5-10 MPH.

## Diagnostic Steps:

• Test drove to try to confirm customer concern.

#### **Probable Cause**

Unknown.

Part # 1:	Part # 2:	Part # 3:	Parts Available on Request:	Parts Shipping Destination:
N/A			No part available	CQE

## **Repair Process**

• Normal operation observed during test drive. (no duplication) Information only.

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TQCN DOC#	Affiliate	Dept.	Source		Dealer Code	Ref	Date
TQCN_DPR-082740007	TMS	QAPowertrain	MDT/DS		60105	80271890	10/23/2008
Dealer Name		Dealer City		State		Region	
TOM WILLIAMS LEXUS		IRONDALE		AL		sou	
Primary Model		Model Year Pro	oduction Date	Odd	ometer	VIN	
RX350		2008 05	5-DEC-07	10	029 mi	2T2GK31U18C	
Condition Title	•	,					
Hesitation/Harsh Downshif	t Concern	on Reacceleration	from Low Vehicle Spe	eed	(U151E)		

Atí	tachment 1: Pai	rts Recovery	Control She	Orig Tracking VIN				
	not type in SHADED f		estination field be	elow Doc No.				
Fi	inal Destinatior	n: CQE	SETI	R#:	CQEE	ng:	N/A	
lm p Onl	oorter: (Applies to TN ly)	/IC Shipments	Deliver to:			住所:		
Mr. N. Okumura, Chief Expert  Quality Div. Warranty Parts Room  TOYOTA MOTOR CORPORATION  Tel:		Attn:			宛先: Tel:			
	oyota, Toyota-city, Aic					101.		
	*•			15,				FOR CUSTOMS USE: Used
Note	Part # 1:	Part Des		report containing viiv	s, production d	ate, and odo	Qty.	Parts Value Each Used Part Value Each \$ 0.00
•	Comments:							
2	Part # 2: Comments:	Part Des	cription				Qty.	Used Part Value Each
	Part # 3:	Part Des	cription				Qty.	Used Part Value Each
3	Comments:							] <b>⊅</b>
_	Part # 4:	Part Des	cription				Qty.	Used Part Value Each
4	Comments:	•					-	
5	Part # 5:	Part Des	cription				Qty.	Used Part Value Each
3	Comments:							
6	Part # 6:	Part Des	cription				Qty.	Used Part Value Each
0	Comments:							

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TQCN DOC#	Affiliate	Dept.	Source	Dealer Code	Ref	Date
TQCN_DPR-082960026	TMS	QAPowertr	ain MDT/DS	63408	82976526	10/23/2008
Dealer Name		Dealer City		State	Region	
METRO LEXUS		CLEVELANI	<b>D</b>	ОН	CEN	
Primary Model		Model Year	Production Date	Odometer	VIN	
GS350		2008	30-OCT-07	6456 mi	JTHCE96S380	)
Condition Title						
Engine Surge						

METRO LEXUS	RO LEXUS CLEVELAND OH		ОН	CEN	
Primary Model	Model Year	Production Date	Odometer	VIN	
GS350	2008	30-OCT-07	6456 mi	JTHCE96S380	
Condition Title					
Engine Surge					
Repair Date	Optional Ref.	Applicable DTC Cod	le(s)		
10/22/2008					
Condition Description					
Customer states the c	ar will surge forward w	hen stopped. It has l	nappened 4 times	o customer and once to his	wife.
Diagnostic Steps:					
Test drove vehicle and	I the condition did not p	oresent itself. Perfori	med DTC check ar	nd no DTCs were present.	
Duckable Cause					
Probable Cause Unknown.					
Olikilowii.					
Part#1:	Part#2:	Рап # 3:	Parts Available o	on Request: Parts Shipping Destin	ation:
Part#1: 4711030440	Part # 2:	Part #3:	Parts Available o		ation:
	Part#2:	Part#3:			ation
4711030440		Part #3:			ation:
4711030440 Repair Process		Part#3:			ation:
4711030440 Repair Process		Part#3:			ation:
4711030440 Repair Process		Part#3:			ation:
4711030440 Repair Process		Part#3:			ation:
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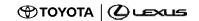
TQCN\_DPR 03/21/2008 [ANP]

Page [APG] of [APG]



TQCN DOC#	Affiliate	Dept.	Source	De	aler Code	Ref	Date
TQCN_DPR-082960026	TMS	QAPowertrain	MDT/DS	6:	3408	82976526	10/23/2008
Dealer Name		Dealer City		State		Region	
METRO LEXUS		CLEVELAND		ОН		CEN	
Primary Model		Model Year	Production Date	Odome	ter	VIN	
GS350		2008	30-OCT-07	6456	mí	JTHCE96S380	
Condition Title							
Engine Surge							

Att	achment 1: Parts Reco	very Contro	l Sheet	Orig Tracking VIN				
Do i	not type in SHADED fields. If the <b>I</b> r <b>ap</b> ", properly dispose of the part.	inal Destination	field below is	Doc No.				
F	inal Destination: CQE		SETR#:		CQE E	ng: N	I/A	
lmp Onl	oorter: (Applies to TMC Shipmer y)	<b>its</b> Delive	r to:			住所:		
	N. Okumura, Chief Expert ality Div. Warranty Parts Room	Attn:				宛先:		
	YOTA MOTOR CORPORATION oyota, Toyota-city, Aichi, 471-857′ an	Tel:				Tel:		
T-S								
	e: If this FTR contains more than on	O VINL excets a telel		antaining V/IN a				FOR CUSTOMS USE: Used
1	Part #1: F	Part Description SUPPORT ASS	•	-		, and odometer	Qty.	Parts Value Each Used Part Value Each \$ 23.72
2		Part Description					Oty.	Used Part Value Each
3	Part # 3:	Part Description					Qty.	Used Part Value Each
_		Part Description					Qty.	Used Part Value Each
4	Comments:					·		
5		Part Description					Qty.	Used Part Value Each
6	Comments:  Part # 6:	Part Description					Qty.	Used Part Value Each
0	Comments:							



TQCN DOC#	Affiliate	Dept.	Source		Dealer Code	Ref	Date		
TQCN_DPR-083040051	TMS	QAPowertra	in MDT/DS		61031	80661670	11/04/2008		
Dealer Name		Dealer City		Sta	ate	Region			
NALLEY LEXUS - ROSW	ELL	ROSWELL		GA		SOU		sou	
Primary Model		Model Year	Production Date	Od	lometer	VIN			
ES350		2008	15-OCT-07	86	611 mi	JTHBJ46G382			
Condition Title				-		-			
Harsh 3-2 Downshift on R	eaccelera	tion (U660E)							

Repair Date	Optional Ref.	Applicable DTC Code(s)
10/30/2008		

#### **Condition Description**

• The customer states that the transmission jerks while driving in stop and go traffic.

## Diagnostic Steps:

- Test drove to verify the condition.
- Test drove with Techstream and recorded a snapshot.
- The transaxle downshifts hard from third to second gear when using moderate throttle at about 16 MPH.
- It is also easier to duplicate with the transaxle temperature below about 100 degrees F.

#### **Probable Cause**

<ul> <li>Unknown</li> </ul>				
Part # 1:	Part # 2:	Part # 3:	Parts Available on Request:	Parts Shipping Destination:
N/A		, 4,17,7	No part available	CQE

## **Repair Process**

- Compared the customer's car with another 2008 ES 350 with 10,583 miles.
- It felt the same as the customer's car under the same conditions.
- Transaxle serial number: 2A07K102239

تَجُرُّاءُ zRDMObjectFile2.zip	्रेट्र ं zRDMObjectFile.zip					
Customer vehicle	Comparison vehicle					
Techstream Snapshot Attachments						

TQCN\_DPR 03/21/2008 Page 1 of 2



TQCN DOC#	Affiliate	Dept.		Source		Dealer Code	Ref	Date	
TQCN_DPR-083040051	TMS	QAPowertr	ertrain MDT/DS			61031	80661670	11/04/2008	
Dealer Name	Dealer City	er City			te	Region			
NALLEY LEXUS - ROSWI	ROSWELL			GA		SOU			
Primary Model		Model Year	Production Date		Ode	ometer	VIN		
ES350		2008	15-	5-OCT-07 8611 mi		11 mi	JTHBJ46G382		
Condition Title									
Harsh 3-2 Downshift on Re	eaccelera	tion (U660E)							

Att	tachment 1: Par	ts Recovery	Control Sheet	Orig Tracking VIN			
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Quality Div. Warranty Parts Room			Attn:	<b>记先</b> :			
			Tel:		`el:		
T-S	TAR						
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1	Part # 1: N/A	Part Des n/a	cription			Qty. 1	Used Part Value Each \$ 0.0
•	Comments:						
	Part # 2;	Part Des	cription			Qty.	Used Part Value Each
2	Comments:					<u> </u>	Ψ
	Part # 3:	Part Des	cription			Qty.	Used Part Value Each
3	Comments:						\$
	Part # 4:	Part Des	cription			Qty.	Used Part Value Each
4	Comments:	<u> </u>				l l	ĮΨ
_	Part # 5:	Part Des	cription			Qty.	Used Part Value Each
5	Comments:	-				•	1 - 7
_	Part # 6:	Part Des	cription			Qty.	Used Part Value Each
6	Comments:	1				1	17

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TQCN DOC#		Affiliate	Dept.			Dealer Code		Ref	Date	
TQCN_DPR-09114	40001	TMS	QAElectric	cal		60906		91184816	04/28/2009	
Dealer Name			Dealer City			State		Region	Source	
LEXUS OF ORLAN	NDO		WINTER I	WINTER PARK				SOU	TECH	
Primary Model			Model Year	Production Date		Odometer		VIN		
GS300			2006 07-APR-06			34626 mi		JTHCH96S360		
Part #1:	Part # 2:		Part #3:		Parts Destination:		Parts Available:		Repair Date	
883203A310	884103	884103A290			CQE		Available upon request		4/23/2009	
Condition Title						Applicable DTC Code(s)				
HVAC-Engine Idle	Surge (A/C	Compress	sor)							

## **Condition Description**

Idle surges when vehicle stopped. Problem was duplicated

## Diagnostic Steps:

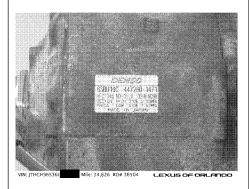
Verified idle surge at stop only with A/C on. Low side pressure fluctuating between 29 psi and 42 psi causing idle surge.

## **Probable Cause**

Internal compressor failure.

## Repair Process

Replaced A/C compressor and clutch





TQCN DOC#	Condition Title			[ [	Date
TQCN_DPR-091140001	HVAC-Engine Idl	e Surge (A/C Comp	oressor)	(	04/28/2009
Primary Model	Model Year	Production Date	Odometer	VIN	
GS300	2006	07-APR-06	34626 mi	JTHCH96S360	

Attachment 1: Parts Recovery	Control Sheet	Orig Tracking			
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Importer: (Applies to TMC Shipments Only)				:	
Mr. N. Okumura, Chief Expert	Attn:		宛先	:	
Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION	Tel:		Tel:		
1 Toyota, Toyota-city, Aichi, 471-8571 Japan					

				VALUE FOR CUSTOMS USE
	Part #1:	Part Description	Qty.	Used Part Value Each
	883203A310	COMPRESSOR ASSY	1	\$ 213.53
1	Comments:		•	
	Part#2:	Part Description	Oty.	Used Part Value Each
2	884103A290	CLUTCH ASSY, MAGNET	1	\$ 89.51
2	Comments:			
	Part#3:	Part Description	Qty.	Used Part Value Each
2				\$
3	Comments:			



TQCN DOC#			Affiliate	Dept.				Ref	Date	9
TQCN_FTR-091630034   TM		TMS	QAHybrid			91677367	06	/16/2009		
Primary Model		Model Year	Production Date	•	Odometer	VIN		_	Rep	air Date
RX450H		2010	2009-03-25	<u>,                                     </u>	451	JTJZB1	BAXA2		6/1	12/2009
Source Location Problem Area Parts Destination DTC										
FTS	AREA-V	VESTERN	Base Vehicle	Vehicle CQE						
Part # 1		Part # 1 Serial/D	ate Code		Part # 2	•	Part # 2 Serial/Dat	te Code		Parts Available
000000000	, l									No Part(s)
000000000	000000000									Available
Condition Title	Condition Title									
Surging at Freeway Speeds										

#### **Condition Description**

FTS noted the vehicle exhibits a non rhythmic surge under the following conditions:

- Driving vehicle at 65 to 75 mph on a smooth and flat road.
- Maintaining a constant speed as needed with steady throttle in put.
- The sensation is in frequency with the energy monitor as it changes from "engine drive" to "battery drive" to "battery charge".
- The sensation is like a slow speed up and slow speed down as the computer changes between "engine, battery, and charge control".
- The sensation is not present with cruise control set.
- Another description of the condition is like a slow rocking motion.

## Diagnostic Steps

FTS has only driven this one vehicle. No other vehicles were available for comparison.

## Probable Cause

Unknown.

## **Repair Process**

No repairs performed.





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TQCN	DOC#		Condition Title							ח	ate	
TQC	N_FTR-091630034		Surging at Fr	eeway	Speeds						6/16/2009	
Primai RX4	y Model SOH	Model Year 2010	Production 2009-03	Date	Odometer 451			m 17 charac BAXA2	ters):			
11/14	3011	2010	2009-00			01	JZDI					
				Ori Tra	g cking							
				VALE	ı							
Att	achment 1: Parts Reco	overy Con	trol Sheet	VIN	1							
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	N. Okumura, Chief Expert		ul l				T.					
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	Serial No. / Date Code			Comm	ents:					ا ۳ ا		
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	Serial No. / Date Code			Comm	ents.							
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7										\$		
	Serial No. / Date Code			Comm	ents:							

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TQCN DOC#		Affiliate	Dept.	Dept.			de	Ref	Date
TQCN_DPR-0924	70009	TMS	QAPower	train		60105		92521987	09/09/2009
Dealer Name			Dealer City			State		Region	Source
TOM WILLIAMS L	EXUS	IRONDAL	IRONDALE				SOU	TECH	
Primary Model			Model Year	ar Production Date		Odometer		VIN	
LX470			2007 09-MAR-07			34925 mi		JTJHT00W374	
Part # 1:	Part # 2:		Part # 3	:	Parts D	Parts Destination: Parts Avail		able:	Repair Date
2322050160					CQE	CQE		e upon request	9/4/2009
Condition Title						Applicable DTC Code(s)			
Surge at 2200 RPI	Ms - Fuel Pu	mp							

## **Condition Description**

- Customer states the engine surges, especially going up an incline
- The condition is most noticeable with engine RPM at approximately 2200 rpm

## Diagnostic Steps:

- Inspected fuel pressure, observed gauge moving from 2.25 bar to 3.25 bars during surge
- Inspected fuel pump relay control voltage which was correct and constant
- Inspected fuel pump resistor resistance, correct at 1 ohm

Probable	Cause
----------	-------

<ul> <li>Unknown</li> </ul>		
Repair Process		

Replaced fuel pump	

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Condition Title

Surge at 2200 RPMs - Fuel Pump

Production Date

09-MAR-07

Model Year

2007

TQCN DOC#

Primary Model

LX470

TQCN\_DPR-092470009



Attachment 1: Parts Recovery  Do not type in SHADED fields. If the Final D is "scrap", properly dispose of the part.			Orig Tracking VIN Doc No.			
Final Destination: CQE	SETF	R#:		CQEE	Eng:	
Importer: (Applies to TMC Shipments Only)  Mr. N. Okumura, Chief Expert Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION 1 Toyota, Toyota-city, Aichi, 471-8571 Japan	Deliver to: Attn: Tel:	<b>1</b> 8			住所: 宛先: Tel:	

				VALUE FOR CUSTOMS US				
	Part # 1:	Part Description	Qty.	Used Part Value Each				
a	2322050160	PUMP ASSY, FUEL W/FILTER	1	\$ 50.94				
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	Part # 3:	Part Description	Qty.	Used Part Value Each				
				1\$				

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TQCN DOC#			Affiliate	Dept.			Ref	Date				
TQCN_FTR	2-09274001	2	TMS	QAC	Chassis		92753577	10/02/2009				
Primary Model		Model Year	Production Date	;	Odometer	VIN		Repair Date				
Prius			2009-06-29	)	1255	JTDKN3DU6A0		9/29/2009				
Source			Problem Area		Parts Destination	DTC						
FTS	REG-NY		Base Vehicle	,	CQE							
Part # 1	Pa	art # 1 Serial/D	ate Code		Part # 2	Part # 2 Serial/Date	Code	Parts Available				
N/A								Part(s) Available				
Condition Title												
VSC Activat	VSC Activates Prematurely When Going Over Bumps And Braking											

#### **Condition Description**

Customer states that when driving 15-25 MPH and hitting a bump while braking the vehicle accelerates.

#### **Diagnostic Steps**

- FTS inspected customer's vehicle and duplicated condition.
- When driving at low speeds around 15-25 MPH and hitting a bump such as a manhole cover while braking the VSC turns "ON".
- When the VSC turns "ON" while braking it feels as though vehicle is accelerating, but in actuality the vehicle is just not slowing down at the same rate.
- Other like vehicles were compared to customer's vehicle and operated in the same manner.

Р	r۸	ha	h	le	Ca	 Se

Unknowr	1
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#### Repair Process

No repairs made, customer was advised vehicle is operating as designed.

Note: Customer stated that he understands this is how the VSC system is designed to operate, but he feels it is too sensitive. Customer stated while driving in inclement weather he is aware of the road conditions and is prepared for ABS or VSC activation. Customer is not prepared for VSC activation to occur when going over bumps. He feels this not safe and when it occurs and not expected could possibly cause an unsafe condition to occur.

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Serial No. / Date Code



TQC	DOC# CN_FTR-092740012		\ \	ondition Title /SC Activates F							Dat 10	e /02/2009	_
	ry Model		l Year	Production Dat		Odometer			rm 17 characters):				
Prius	3	201	0	2009-06-29	9	1255	J	IDKN	3DU6A0				
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						ung.							
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Comments:



TQCN DOC#			Affiliate	Dept.				Ref	Dat	te
TQCN_FTR	2-0927300	016	TMS	QAF	Powertrain			92733351	09	9/30/2009
Primary Model		Model Year	Production Date	•	Odometer	VIN		_	Re	pair Date
RX350			2009-08-26	)	82	82 2T2ZK1BA1AC			9/	22/2009
Source Location			Problem Area		Parts Destination	DTC				
PE TMS-PQSS		QSS	Base Vehicle	,	CQE					
Part # 1	Part # 1 Part # 1 Serial/Da				Part # 2	•	Part # 2 Serial/Dat	e Code		Parts Available Manual Part
3050001010	3A09H111140									Return
Condition Title		•					•			
Vehicle Jerks When Accelerating From a Stop (U660E)										

#### **Condition Description**

Customer states the vehicle is jerking when accelerating from a stop.

## **Diagnostic Steps**

- 1. Confirmed customer condition
- 2. Found the condition is not present in reverse or in "S" mode when left in 1st gear
- Check trans fluid level and condition OK
   Reset memory using Techstream
- 5. Test drove and found the condition is still present
- 6. Replaced the ECM and test drove condition is still present
- 7. Swapped the ECT and test drove condition is still present

## **Probable Cause**

Unknown

## Repair Process

Replaced the transaxle assembly.

Note: Serial #: 3A09H111140



Snap shot of condition occurring.

Note: Flags are recorded immediately following the condition occurring.

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Serial No. / Date Code



								<u> </u>		,	<del></del>
	DOC# CN FTR-092730016			ndition Title ehicle Jerks Whe	n Acceler	ating Fron	n a Sto	on (H660E)		Date 09/30/2	2009
Prima	ry Model		el Year	Production Date	Odomete	r VIN	l (confir	m 17 characters	):	1 00/00/2	2000
RX3	50	201	10	2009-08-26	82	21	2ZK1	BA1AC			
				Or	ig acking						
				111	acking						
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			Attn:				宛先	::			
Mr.	N. Okumura, Chief Expe	ert									
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	YOTA MOTOR CORPOR										
	oyota, Toyota-city, Aichi,	471-8571									
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										•	
	Part # 1:	Part Desc	cription					Q	ty.	Used	Part Value Each
1	305000T010			ASSY, AUTOM	ATIC				1	\$	737.63
	Serial No. / Date Code	'		Comn	nents:			<u>'</u>			
	3A09H111140										
2	Part # 2:	Part Des	cription					- 0	Qty.		Part Value Each
_	Serial No. / Date Code			10						\$	
	Serial No. / Date Code			Comn	nents:						
	Part # 3:	Part Des	cription					10	Qty.	Used	Part Value Each
3			•						•	\$	
	Serial No. / Date Code	·		Comn	nents:						
4	Part # 4:	Part Des	cription						Qty.		Part Value Each
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	Serial No. / Date Code			Comn	nents:						
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	Serial No. / Date Code										
6	Part # 6:	Part Des	cription					(	Qty.		Part Value Each
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	Serial No. / Date Code			Comn	nents:						
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<b>∣7</b>		1 411 563							,-	¢	

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Comments:



TQCN DOC#			Affiliate	Dept.			Ref	Date	9	
TQCN_FTF	R-09295003	34	TMS	QAF	Powertrain		92160029	10	/22/2009	
Primary Model		Model Year	Production Dat	е	Odometer	VIN	_	Rep	air Date	
Corolla		2009	2008-09-11		10596	1NXBU40E99Z		10	/14/2009	
			Problem Area		Parts Destination	DTC	<del>-</del>			
FTS	Base Vehicle	•	CQE							
Part # 1	P	art # 1 Serial/D	ate Code		Part # 2	Part # 2 Serial/Dat	e Code		Parts Available	
781100701	7811007011								Part(s) Available	
Condition Title	•									
Engine Inte	Engine Intermittent Erratic RPM									

#### **Condition Description**

- Customer reports she was just driving. RPM shot up to 7000
- Vehicle jumped forward she had to slam brakes/pull parking brakes
- Vehicle kept going forward. Customer states this happened once. She turn off vehicle then she started car, high idle 9000

## Diagnostic Steps

- Tech road tested vehicle and unable to verify customer concern
- Tech performed health check and no DTC's recorded in any system contacted FTS
- FTS inspected vehicle and confirmed factory floormats correctly secured and no evidence of stacked mats
- No evidence of outside or foreign interference with pedal assembly
- Depressed pedal by hand and noted return to complete idle position but not as smooth as comparable vehicle

#### **Probable Cause**

Unknown

#### Repair Process

• Replaced Accel Pedal and Sensor Assembly for recovery and further inspection

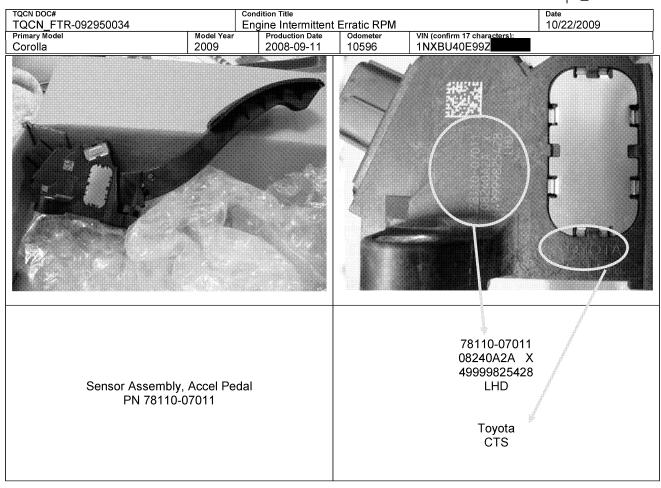




Floor Mat Location Upon Inspection

Inspection & Comparison Method

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Serial No. / Date Code



TQCN	DOC#		Condition Title								ate
TQC	N_FTR-092950034		Engine Inter								0/22/2009
Prima	ry Model olla	Model Ye 2009	ear Production 2008-0		0dometer 10596			n 17 characters 10E99Z	5):		
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Imp	porter: (Applies to TMC Ship	ments [	Deliver to:				餅	:[ ]			
Mr. Qua	N. Okumura, Chief Expert ality Div. Warranty Parts Roon YOTA MOTOR CORPORATIO oyota, Toyota-city, Aichi, 471-	ı T	∖ttn: ēl:				宛先 Tel:	, ,			
T-S	TAR	n one VIN, creat		ort conta	aining VIN, p			nd odometer			OR CUSTOMS USE: Used Parts Value
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	Serial No. / Date Code			Comn	ients.						
2	Part # 3:	Part Descrip	tion	-li i					Qty.		Used Part Value Each
3										\$	
	Serial No. / Date Code			Comn	nents:						
	Part # 4:	Part Descrip	tion						Qty.	Г	Used Part Value Each
4	1 416 # 71	i air Descrip							αιy.	\$	Jose I alt Value Lacil
	Serial No. / Date Code			Comn	nents:					<u>  T  </u>	
5	Part # 5:	Part Descrip	tion						Qty.	ای	Used Part Value Each
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	Part # 6:	Part Descrip	tion						Qty.		Used Part Value Each
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7	Part # 7:	Part Descrip	tion						Qty.	ام	Used Part Value Each
										\$	

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Comments:



TQCN DOC#			Affiliate	Dept.			Ref	Date	)		
TQCN_FTR	2-09310001	4	TMS	QAF	Powertrain		93135912	11/	09/2009		
Primary Model		Model Year	Production Date	,	Odometer	VIN	_	Rep	air Date		
Camry		2009	2008-09-29	)	11024	4T1BE46K49U		11.	/2/2009		
Source	Location	•	Problem Area		Parts Destination	DTC					
FTS REG-NY			Base Vehicle	,	5700						
Part # 1	P	art # 1 Serial/D	ate Code		Part # 2	Part # 2 Serial/Da	te Code		Parts Available		
111010H01	111010H011								Part(s) Available		
Condition Title											
Engine surg	Engine surge at 1200 RPM (2AZ-FE)										

#### **Condition Description**

Customer States: Engine surging at 1200RPM.

#### **Diagnostic Steps**

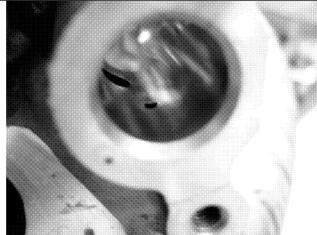
- 1. Technician inspected and confirmed customer's concern.
- 2. No VVT codes, but has pending misfire codes.
- 3. Noticed that the engine idle was high 750-790rpms.
- 4. Found condition goes away when OCV is unplugged.
- 5. Swapped OCV concern did not change.
- 6. Replaced A/F and O2 sensors, concern did not change.
- 7. Swapped ECM, fuel pump, MAF, throttle sensor, pedal sensor, cam sensor, crank sensor, coils, from a known good vehicle, <u>concern did not change</u>.
- 8. Using active test to add fuel, concern did not change.
- 9. Performed compression test all cylinders 165psi.
- 10. Performed running compression test, all cylinders 55psi.
- 11. Removed oil pan, found metal debris in pan.
- 12. Disassembled short block, no abnormal wear found.
- 13. Reassembled with new short block, adjusted four tight exhaust valves, Results: <u>concern did not change</u>, engine misfires, and high engine idle corrected.
- **14.** Disabled VVT system, which keeps cam controller locked under all engine running conditions, **condition eliminated**.
- 15. Removed cylinder head to replace, found oil supply port in OCV passage not machined correctly.

#### **Probable Cause**

Oil supply port in OCV passage not machined correctly

#### Repair Process

Technician replaced cylinder head assembly.



Incorrect OCV oil supply port machining in problem cylinder head.



Replacement cylinder head with a considerable larger oil supply port



TQCN FTR-093100014

Primary Model Camry

Model Year 2009

Production Date Engine surge at 1200 RPM (2AZ-FE)

Production Date 2008-09-29

TOCN FTR-093100014

Primary Model Year 2009

Production Date 2008-09-29

TOCN FTR-093100014

Primary Model Year 2009

Production Date 2008-09-29

TOCN FTR-093100014

TITLE Primary Tocharacters): C: WIN (confirm 17 characters): C: WIN (confirm 17

Serial No. / Date Code



TOO	DOC#			dition Title	1200 001/1/2	247 55				Date 14/00/2000
	N_FTR-093100014 ry Model	Model Ye		gine surge at Production Date	1200 RPM (2 Odometer	<u> </u>	l (confirm 1	7 character	s):	11/09/2009
Cam	nry	2009		2008-09-29	11024	47	1BE46	<49U		
					Orig Tracking					
					-					
At	tachment 1: Parts Recov	very Co	ontro	Sheet	VIN					
	not type in SHADED fields. If the <b>F</b> scrap", properly dispose of the par		ination	field below	Doc No.					
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		A	Attn:				宛先:			
Mr.	N. Okumura, Chief Expert									
	ality Div. Warranty Parts Room	Т   Т	el:				Tel:			
	YOTA MOTOR CORPORATION									
1     Jap	oyota, Toyota-city, Aichi, 471-8571									
Jap	odii									
T-S	TAR									
Not	e: If this FTR contains more than one	VIN, creat	te a table	e in the report co	ntaining VIN, p	roduction	date, and	odometer		FOR CUSTOMS USE: Use Parts Value
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2	Serial No. / Date Code								Qty.	Used Part Value Eac
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	Serial No. / Date Code			Col					Qty.	Used Part Value Eac
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3 4 5	Serial No. / Date Code  Part # 3:  Serial No. / Date Code  Part # 4:  Serial No. / Date Code  Part # 5:  Proceedings of the Code  Serial No. / Date Code	art Descrip art Descrip art Descrip	otion	Con Con Con	mments:				Qty.  Qty.  Qty.	Used Part Value Each  Used Part Value Each

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Comments:



TQCN DOC#			Affiliate	Dept.					Ref	Da	te
TQCN_FTR	-09320003	36	TMS	QA	Chassis				92753577	11	/16/2009
Primary Model		Model Year	Production Dat	е	Odometer	VIN			i	Re	pair Date
Prius		2010	2009-06-08	3	4489	JTDKN3	BDU4A0			11	1/11/2009
Source	Location		Problem Area		Parts Destination	DTC	,				
FTS	REG-NY		Base Vehicle	∍	CQE						
Part # 1	P	art # 1 Serial/D	ate Code		Part # 2 Part # 2 Serial/Date Cod			Code	Code Parts Available		
N/A											No Part(s)
IV/A						Available					
Condition Title	Condition Title										
Inconsistent	t brake feel	l when Goi	ng Over Bumps	And	Braking						

#### **Condition Description**

Customer states that when driving 15-25 MPH and hitting a bump while braking the vehicle accelerates.

## **Diagnostic Steps**

- FTS inspected customer's vehicle and duplicated condition.
- When driving at low speeds around 15-25 MPH and hitting a bump such as a manhole cover while braking the VSC turns "ON".
- When the VSC turns "ON" while braking it feels as though vehicle is accelerating, but in actuality the vehicle is just not slowing down at the same rate.
- Other like vehicles were compared to customer's vehicle and operated in the same manner.

	Р	ro	ha	h	le	Ca		Se
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Unknown			

#### **Repair Process**

No repairs made, customer was advised vehicle is operating as designed.

Note: Customer stated that he understands this is how the VSC system is designed to operate, but he feels it is too sensitive. Customer stated while driving in inclement weather he is aware of the road conditions and is prepared for ABS or VSC activation. Customer is not prepared for VSC activation to occur when going over bumps. He feels this not safe and when it occurs and not expected could possibly cause an unsafe condition to occur.

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TQCN	DOC#		Condition Title	e						Da	ate
TQC	N_FTR-093200036	1	Inconsiste	ent brake					,	1	1/16/2009
Prima	ry Model	Model Year 2010		tion Date -06-08	Odometer 4489			m 17 character 3DU4A0	s):		
Att	achment 1: Parts Reco	overy Cor	ntrol Shee	Ori Tra VIN	g icking	Landra and		ul ann a tha tha tha ann		2000	6
	scrap", properly dispose of the pa			Do	c No.						
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Mr.	N. Okumura, Chief Expert	Att	n:[				宛先				
TO`	ality Div. Warranty Parts Room YOTA MOTOR CORPORATION Dyota, Toyota-city, Aichi, 471-85	71 Te	,				Tel:				
Jap	an										
T-S	TAR IIIIII			:						H	
Note	e: If this FTR contains more than o	ne VIN, create	a table in the r	eport conta	iining VIN, p	roduction	date, ar	nd odometer		F	OR CUSTOMS USE: Used Parts Value
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1		n/a							1	\$	0.00
	Serial No. / Date Code			Comm	ents:						
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	Serial No. / Date Code			Comm	ents:					<u> Ψ </u>	
3	Part # 3:	Part Description	on						Qty.	\$	Used Part Value Each
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	-			33,,,,,,							
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F	Part # 5:	Part Description	on	I					Qty.	_	Used Part Value Each
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TQCN DOC#		Affiliate	Dept.			Dealer Cod	le	Ref	Date
TQCN_DPR-0934	90050	TMS	QAPowert	rain		64606		93507939	12/16/2009
Dealer Name			Dealer City			State		Region	Source
LEXUS OF SEATTLE, LLC			LYNNWO	LYNNWOOD		WA		WES	TECH
Primary Model		Model Year Production Date			Odometer		VIN		
ES350			2008	26-MAY-08		13282 ו	ni	JTHBJ46G982	
Part#1:	Part # 2:		Part # 3:		Parts Destination: Parts A		Parts Avail	rts Available: Repair	
7811033020					CQE		No part	available	11/27/2009
Condition Title						Applicable	DTC Code(s)		
Drivability concern	with no floor	mat insta	alled						

## **Condition Description**

- Guest reported vehicle would not slow down in traffic on 11/25/09.
- Guest applied "all force possible with my right foot to the brake pedal, and the car still did not slow down and seemed to be accelerating. Just before I would have struck the car in front of me, I then put the car in neutral, which caused the car to stop accelerating.
- Guest reported vehicle had been driven for approximately 5 minutes from cold start.
- Vehicle was in to the dealer for the floor mat concern on 11/14 and had the floor mat removed.
- Reported concern happened with no floor mat in vehicle.

## **Diagnostic Steps:**

- Electronic system health check revealed no codes stored.
- Verified no floor mat was installed in vehicle at time of inspection.
- Test drove vehicle and verified operation.

Pro	bal	ble	Ca	use
-----	-----	-----	----	-----

Unknown		

#### **Repair Process**

No repairs performed.	
1	

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TQCN DOC#	Condition Title			Da	ate
TQCN_DPR-093490050	Drivability concerr	n with no floor mat in	stalled	1	2/16/2009
Primary Model	Model Year	Production Date	Odometer	VIN	
ES350	2008	26-MAY-08	13282 mi	JTHBJ46G982	

Attachment 1: Parts Recovery  Do not type in SHADED fields. If the Final D "scrap", properly dispose of the part.		Orig Tracking VIN Doc No.		
Final Destination: CQE	SETR#:		CQE Eng:	
Importer: (Applies to TMC Shipments Only)  Mr. N. Okumura, Chief Expert Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION 1 Toyota, Toyota-city, Aichi, 471-8571 Japan	Deliver to:  Attn:  Tel:		全所: 定所: 宛先: Tel:	

				VALUE FOR CUSTOMS USI			
	Part#1:	Part Description	Qty.	Used Part Value Each			
	7811033020	SENSOR ASSY, ACCELERATOR PEDAL	1	\$ 26			
1	Comments:						
	Part # 2:	Part Description	Qiy.	Used Part Value Each			
2	Comments:						
	Part#3:	Part Description	Qty.	Used Part Value Each			
2				\$			
3	Comments:						

TQCN DOC#	Dept.	Dept.			e	Ref	Date	
TQCN_DPR-1002700	QAPowertrain			04344				
Dealer Name	Dealer City		State		Region	Source		
VENTURA TOYOTA	VENTURA	VENTURA CA		LOS	TECH			
Primary Model	Model Year Production Date		Odometer		VIN			
Corolla		2010 18-AUG-09		5545 mi		1NXBU4EE5AZ		
Part #1: Part #2:		Part #3	Part #3: Parts I		ts Destination: Parts Availab		ible:	Repair Date
00000000000				CQE	No part available		1/25/2010	
Condition Title				Applicable	DTC Code(s)			
Gas Pedal/Throttle				U100				

Condition	Description
Condition	Describtion

CUSTOMER STATES VEHICLE FEELS	SLIKE IT ACCELERATES OF	N ITS OWN MOST!	NOTICEABLE ON SLOW
SPEEDS			

## Diagnostic Steps:

What inspections or diagnostic steps did you perform? Inspect driver side floor mat, health check and diagnostic report, testdrive vehicle with techstream and record data, check for SSC. Inspect accel. pedal for mechanical failure, inspect accel, pedal with techstream per R.M. Inspect trottle body for sticking, inspect idle speed operation with Techstream.

## **Probable Cause**

Unable to duplicate concern, CTS pedal present.							

## **Repair Process**

No repair done on this vehicle, contact DSPM/FTS								

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TQCN DOC#	Condition Title		1	Date
TQCN_DPR-100270042	Gas Pedal/Throttle			
Primary Model	Model Year Production	n Date Odometer	VIN	
Corolla	2010 18-AU	G-09 5545 mi	1NXBU4EE5A	Z

Attachment 1: Parts Recovery  Do not type in SHADED fields. If the Final De  "scrap", properly dispose of the part.		Orig Tracking VIN Doc No.		
Final Destination: CQE	SETR#:		CQE Eng:	
Importer: (Applies to TMC Shipments Only)	Deliver to:		住所:	
Mr. N. Okumura, Chief Expert Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION 1 Toyota, Toyota-city, Aichi, 471-8571 Japan	Tel:		Tel:	

Part #1:						
0000000000						
00000000000   TEST PART   0  Comments:						
Part#2:						
Comments:						
Part #3:						
Comments:						
Comments:						

TQCN DOC# Affiliate		Dept.			Dealer Code		Ref	Date	
TQCN_DPR-100270038 TMS			QAPowertrain			04344			
Dealer Name			Dealer City		State		Region	Source	
VENTURA TOYOTA			VENTURA	URA CA LOS		LOS	TECH		
Primary Model			Model Year Production Date Odometer		VIN				
Corolla		2010 02-OCT-09		1979 mi		1NXBU4EE8AZ			
Part#1: Part#2:			Part #3: Parts D		estination:	Parts Availa	ible:	Repair Date	
0000000000				CQE	No part available		1/27/2010		
Condition Title						Applicable	DTC Code(s)		
Gas Pedal/Throttle									

Conc	lition	Desc	ription
COLIC	4141011	DC30	HIDUUUI

CUSTOMER STATES CAR KEEPS ON GOING WHILE TRYING TO BRAKE MOST NOTICEABLE AT HIGHER SPEEDS INSPECT AND ADVISE

## Diagnostic Steps:

Inspect driver side floor mat, health check and diagnostic report, testdrive vehicle with techstream and record data, check for SSC. Inspect accel. pedal for mechanical failure, inspect accel, pedal with techstream per R.M. Inspect trottle body for sticking, inspect idle speed operation with Techstream.

## Probable Cause

What likely caused this customer concern?	Unable to duplicate concern, CTS pedal present.

# Repair Process

Contact DSPM/FTS	

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TQCN DOC#	Condition Title	Date
TQCN_DPR-100270038	Gas Pedal/Throttle	
Primary Model	Model Year Production Date	Odometer VIN
Corolla	2010 02-OCT-09	1979 mi 1NXBU4EE8AZ

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.			Orig Tracking VIN Doc No.			
Final Destination: CQE		SETR#:		CQEE	ing:	
Importer: (Applies to TMC Shipments Only)  Mr. N. Okumura, Chief Expert Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION 1 Toyota, Toyota-city, Aichi, 471-8571 Japan	Deliver t  Attn:  Tel:	to:			住所: 宛先: Tel:	

				VALUE FOR CUSTOMS USE:
	Part#1;	Part Description	Oty.	Used Part Value Each
4	00000000000	TEST PART	0	\$ 0
1	Comments:			
	Part # 2:	Part Description	Cty.	Used Part Value Each
2	Comments:			[ <b>9</b>
	Part#3:	Part Description	Oty	Used Part Value Each
3	Comments:		1	



TQCN DOC#		Affiliate	Dept.			Dealer Code		Ref	Date
TQCN_DPR-1002	70043	TMS	QAPowertrain			19026			
Dealer Name			Dealer City			State Region		Region	Source
KOONS TOYOTA	<b>L</b>		ANNAPOLIS			MD CAT		CAT	TECH
Primary Model	Primary Model Year Production Date		Odometer		VIN				
Camry			2010	26-MAR-09		3442 m	ıİ	4T4BF3EK4AR	
Part # 1:	Part # 2:		Part #3	į.	Parts D	estination:	Parts Avail	able:	Repair Date
8966106J10					CQE	No part available		available	1/27/2010
Condition Title						Applicable	DTC Code(s)		
Gas Pedal/Throttl	е								

Con	dition	Desci	rintion
COII	aluvii	Desci	IPUOI

s/s when accelerating from a stop the car lurches forward	

## Diagnostic Steps:

road test with owner, scan test. visual inspection of floor mat, cts gas pedal, and throttle body.

## **Probable Cause**

driver error/input. first time with a drive by wire system vehicle.	

## **Repair Process**

none.	

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TQCN DOC#	Condition Title				Date
TQCN_DPR-100270043	Gas Pedal/Throttle				
Primary Model	Model Year	Production Date	Odometer	VIN	
Camry	2010	26-MAR-09	3442 mi	4T4BF3EK4AI	₹

Attachment 1: Parts Recovery  Do not type in SHADED fields. If the Final  "scrap", properly dispose of the part.		Orig Tracking VIN Doc No.				
Final Destination: CQE SETR#		SETR#:		CQEE	ing:	
Importer: (Applies to TMC Shipments Only)  Mr. N. Okumura, Chief Expert Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION 1 Toyota, Toyota-city, Aichi, 471-8571 Japan	Deliver t  Attn:  Tel:	to:			住所: 宛先: Tel:	

			VALUE FOR CUSTOMS USE
Part #1:	Part Description	Qty.	Used Part Value Each
8966106J10	COMPUTER, ENGINE CONTROL	1	\$ 82.8
Comments:		·	
Part # 2;	Part Description	Qty.	Used Part Value Each
Comments:			:  <b>Y</b>
Part#3:	Part Description	Qty.	Used Part Value Each
			\$
Comments:			
	8966106J10  Comments:  Part # 2:  Comments:  Part # 3:	8966106J10         COMPUTER, ENGINE CONTROL           Comments:         Part #2:           Part #2:         Part Description           Comments:         Part Description	8966106J10         COMPUTER, ENGINE CONTROL         1           Comments:         Part #2:         Part Description         Qty.           Comments:         Part #3:         Part Description         Qty.

TQCN DOC#		Affiliate	Dept.			Dealer Code		Ref	Date
TQCN_DPR-10027	0049	TMS	QAPowertrain		04344				
Dealer Name		Dealer City		State		Region	Source		
VENTURA TOYOTA		VENTURA		CA		LOS	TECH		
Primary Model		Model Year	Model Year Production Date Odomet		Odometer		VIN		
Camry		2007 16-APR-07		31875 mi		4T1BE46K07U			
Part #1:	Part # 2:		Part # 3:		Parts De	stination:	Parts Available:		Repair Date
00000000000					CQE		No part	available	1/27/2010
Condition Title						Applicable	DTC Code(s)		
Gas Pedal/Throttle									

CUSTOEMR STATES WHEN APPLYING THE GAS PEDAL VE	HICLE IS ACCELERATING MORE THAN IT
NORMALL;Y WOULD,	

## Diagnostic Steps:

Inspect driver side floor mat,health check and diagnostic report, testdrive vehicle with techstream and record data, check for SSC. Inspect accel. pedal for mechanical failure, inspect accel, pedal with techstream per R.M. Inspect trottle body for sticking, inspect idle speed operation with Techstream.

## **Probable Cause**

unable to verify condition.		

## Repair Process

Nepali Flocess		
No repair performed. CTS pedal. Conta	ct DSPM/FTS	

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TQCN DOC#	Condition 1	itle				Date
TQCN_DPR-100270049	Gas Pe	dal/Throttle				
Primary Model		Model Year	Production Date	Odometer	VIN	
Camry		2007	16-APR-07	31875 mi	4T1BE46K07	U

Attachment 1: Parts Basevo	Shoot	Orig Tracking				
Attachment 1: Parts Recove	Sileet	VIN				
Do not type in SHADED fields. If the <b>Fina</b> " <b>scrap</b> ", properly dispose of the part.	Doc No.					
Final Destination: CQE SETR#:			CQEE	ng:		
Importer: (Applies to TMC Shipments Only)	Delive	r to:			住所:	
Mr. N. Okumura, Chief Expert	Attn:	Attn:			   宛先:	
Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION 1 Toyota, Toyota-city, Aichi, 471-8571	Tel:	Tel:			Tel:	
Japan						

				VALUE FOR CUSTOMS USE:			
	Part#1;	Part Description	Oty.	Used Part Value Each			
4	00000000000	TEST PART	0	\$ 0			
1	Comments:						
	Part # 2:	Part Description	Cty.	Used Part Value Each			
2	Comments:						
_	Part#3:	Part Description	Oty	Used Part Value Each			
3	Comments:						

TQCN DOC#		Affiliate	Dept.			Dealer Code		Ref	Date	
TQCN_DPR-10027	0050	TMS	QAPowertrain			04344				
Dealer Name			Dealer City			State		Region	Source	
VENTURA TOYOTA			VENTURA	<b>\</b>		CA		LOS	TECH	
Primary Model			Model Year	Model Year Production Date		Odometer		VIN		
Camry	Camry		2010 06-JUL-09		6672 m		İ	4T1BK3EKXAU	KAU	
Part#1:	Part # 2:		Part # 3:		Parts Des		Parts Avail	able:	Repair Date	
0000000000						CQE		available	1/27/2010	
Condition Title						Applicable	DTC Code(s)			
Gas Pedal/Throttle										

## **Condition Description**

A CUSTOMER STATES THAT THE VEHICLE ACCELERATED ON ITS OWN WHEN AT A STOP. CUSTOMER STATES THAT WHEN SHE PRESSED THE BRAKE IT WENT ALL THE WAY TO THE FLOOR AND SHE HAD TO TURN OFF THE ENGINE FOR THE VEHICLE TO STOP. INSPECT AND ADVISE.

## **Diagnostic Steps:**

Inspect driver side floor mat,health check and diagnostic report, testdrive vehicle with techstream and record data, check for SSC. Inspect accel. pedal for mechanical failure, inspect accel, pedal with techstream per R.M. Inspect trottle body for sticking, inspect idle speed operation with Techstream.

Probable Cause
Unable to verify concern.

Repair Process								
No repair done, Denso pedal, contact D	SPM/FTS							

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TQCN DOC#	Condition Title				Date
TQCN_DPR-100270050	Gas Pedal/Throttle				
Primary Model	Model Year	Production Date	Odometer	VIN	
Camry	2010	06-JUL-09	6672 mi	4T1BK3EKXAL	J

Attachment 1: Parts Recovery ( Do not type in SHADED fields. If the Final De "scrap", properly dispose of the part.		Orig Tracking VIN Doc No.			
Final Destination: CQE	SETR#:		CQE Er	ng:	
Importer: (Applies to TMC Shipments Only)	Deliver to:			住所:	
Mr. N. Okumura, Chief Expert	Attn:			宛先:	
Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION 1 Toyota, Toyota-city, Aichi, 471-8571	Tel:		Tel:		
Japan					

1: 000000000 ents:	Part Description TEST PART	Otty.	Used Part Value Each \$ 0
	TEST PART	0	\$ 0
ents:			
2:	Part Description	Oty.	Used Part Value Each
ents:			<b> \$</b>
3:	Part Description	Qty.	Used Part Value Each
			\$
	) <u>:</u>	): Part Description	E. Part Description Qty.



TQCN DOC#		Dept.		Dealer Code		Ref	Date		
TQCN_DPR-10036	TQCN_DPR-100360007 TMS			QAChassis				92753577	02/09/2010
Dealer Name			Dealer City			State		Region	Source
THOMPSON TOY	ATC		DOYLEST	ΓOWN		PA		CAT	TECH
Primary Model			Model Year	Year Production Date		Odometer		VIN	
Prius			2010	30-JUN-09		7692 m	i	JTDKN3DU4A0	
Part # 1:	Part # 2:		Part # 3	:	Parts D	estination:	Parts Avail	able:	Repair Date
00000000000					CQE		Availabl	e upon request	2/5/2010
Condition Title						Applicable	DTC Code(s)		
Brake Feel over bu	mps								

00000000000	CQE		Available upon request	2/5/2010
Condition Title		Applicable D1	C Code(s)	
Brake Feel over bumps				
Condition Description				
The customer states car feels like it ac	celerates on bumpy roads w	hen brakınç	9	
Diagnostic Steps:				
Test-drove the vehicle and could not de	uplicate the concern.			
Performed a health check	4			
Found that there were no codes preser  Probable Cause	nt			
Unknown				
Olikilowii				
Repair Process				
No repair attempted The vehicle is operating as designed				
The customer is unhappy with the feel	of the brakes on bumpy road	ds		
,	1,			

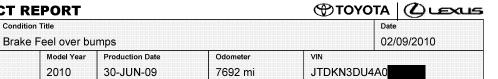
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TQCN DOC#

Primary Model

Prius

TQCN\_DPR-100360007



Attachment 1: Parts  Do not type in SHADED field is "scrap", properly dispose			Orig Tracking VIN Doc No.				
Final Destination:	CQE		SETR#:		CQEE	ng:	
Importer: (Applies to TMC Only)  Mr. N. Okumura, Chief Expe Quality Div. Warranty Parts I TOYOTA MOTOR CORPORT 1 Toyota, Toyota-city, Aichi,	rt Room RATION	Attn:	er to:			住所: 宛先: Tel:	•
Japan							

				VALUE FOR CUSTOMS US
	Part # 1:	Part Description	Qty.	Used Part Value Each
4	00000000000	TEST PART	1	\$ 0
•	Comments:			
_	Part # 2:	Part Description	Qty.	Used Part Value Each
2	Comments:		<u> </u>	
	Part # 3:	Part Description	Qty.	Used Part Value Each
				1\$

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TQCN DOC#			Affiliate	Dept.				Ref	Date	
TQCN_FTR	1-1003500	04	GST	QA	Powertrain			90431573	02/10/2010	
Primary Model		Model Year	Production Date	9	Odometer	VIN			Repair Date	
Corolla		2009	2008-10-14	ļ	5989	1NXBU	40E79Z		1/26/2010	
Source	Location		Problem Area		Parts Destination	DTC				
FTS	REG-GS	ST	Base Vehicle	•	CQE					
Part # 1		Part # 1 Serial/D	ate Code		Part # 2	•	Part # 2 Seria	I/Date Code	Parts Available	
N/A									No Part(s)	
IN/A									Available	
Condition Title									·	
Unintended	Unintended Acceleration after leaving from a stop									

#### **Condition Description**

Customer states while at a stop the engine started to rev and tried to take off. Customer turned off vehicle and restarted. Vehicle continued to rev when running. Turned vehicle off 3rd time and restarted vehicle operated normally after third start.

#### **Diagnostic Steps**

**Probable Cause** 

- Technician who was inspecting the vehicle had driven it approximately 10-12 minutes.
- 7-8 minutes into the drive the technician was sitting at a stop light. When the stop light changed the tech started to lightly accelerate.
- After traveling 20-30 feet the vehicle exhibited a slight hesitation then began to accelerate on its own.
- Engine speed was estimated to have gone from 1500 rpm to 5500 rpm at the time of the occurrence.
- Vehicle traveling 9-10 mph at time of occurrence. Approximate maximum speed reached was 20 mph prior to accelerator pedal release / brake application.
- Estimated throttle position at the time of the occurrence was 15-20 percent.
- No accessories were on at the time of occurrence.
- The external lights were not on at the time of the occurrence.
- The HVAC system was not in use at time of occurrence.
- DTC U0100 was set in memory, but the technician cleared the DTC prior to duplication and the DTC did not return following duplication
- The technician experienced a problem with the scan tool loosing communication with the car at the time of the occurrence. The scan tool in use was a newer unit to the dealer. It is unknown if this was related to the vehicle concern or solely a scan tool concern.

# Repair Process The vehicle was taken back to the dealer and parked after the occurrence. The national office and region office inspected the vehicle. The vehicle was driven extensively on 3 different occasions over 3 different days with the vehicle sitting for 3 days between the second and 3<sup>rd</sup> driving sessions. The condition experienced by the consumer and the technician was never duplicated. It was decided in the interest of the customer to repurchase the vehicle

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TQCN	DOC#		Condition Title							Da	nte	
TQC	N_FTR-100350004		Unintended	Accele	ration afte	r leaving	from a	a stop		1	2/10/2010	)
Prima	ry Model olla	Model Yea 2009	<b>I</b>	Production Date         Odometer         VIN (confirm 17 characters)           2008-10-14         5989         1NXBU40E79Z				1):				
Att	cachment 1: <b>Parts Rec</b> not type in SHADED fields. If the scrap", properly dispose of the p	overy Col	ntrol Sheet	Or Tra VII	ig acking		0 45 West 115 M					
Fi	nal Destination: CQE	<u> </u>	SETR#	:		CQEE	ing:	N/A				
lmp Onl	oorter: (Applies to TMC Shipm ly)	ents De	eliver to:	1			住所	î:[		- <b>1</b>		
Qua	N. Okumura, Chief Expert ality Div. Warranty Parts Room	Att					宛先 Tel:					
	YOTA MOTOR CORPORATION oyota, Toyota-city, Aichi, 471-85 an											
T-S	TAR IIIIII											
Note	e: If this FTR contains more than c	one VIN, create	a table in the rep	ort cont	aining VIN, p	roduction o	date, ar	nd odometer		F	OR CUSTOMS Parts V	
	Part # 1:	Part Description	on					lo	Qty.	Т	Used Part \	/alue Fach
1	N/A	n/a							1	\$		.00
	Serial No. / Date Code			Comn	nents:			<u>'</u>				
	Dowl # 2.	Dant Danaminti							O4	Т	Used Part \	/alua Faab
2	Part # 2:	Part Descripti	UII						Qty.	\$	USEU Part V	Alue Eacii
	Serial No. / Date Code			Comn	nents:					IΨI		
3	Part # 3:	Part Descripti	on						Qty.	_	Used Part \	/alue Each
<u> </u>	Serial No. / Date Code			C a ma m						\$		
	Octial 140.7 Bate Gode			Comn	ients.							
	Part # 4:	Part Descripti	on	II I					Qty.	-	Used Part \	/alue Each
4										\$		
	Serial No. / Date Code			Comn	nents:							
_	Part # 5:	Part Descripti	on					Т	Qty.	1	Used Part \	/alua Fach
5	ι αιτ π Ο.	. art Descripti	VII						αιy.	\$	Joeu Fail V	and Lacii
	Serial No. / Date Code	<u>l</u>		Comn	nents:					141		
6	Part # 6:	Part Descripti	on				·		Qty.	_	Used Part \	/alue Each
<u> </u>	Carial Na. / Data Code			T						\$		
	Serial No. / Date Code			Comn	nents:							
<u> </u>	Part # 7:	Part Descripti	on					Ī	Qty.	Τ	Used Part \	/alue Each
7										\$		
	Serial No. / Date Code	1		Comn	nents'					1.51		

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TQCN DOC#		Affiliate	Dept.			Dealer Code		Ref	Date
TQCN_DPR-1005	50039	TMS	QAChassis		19061		A0562103	02/25/2010	
Dealer Name			Dealer City			State		Region	Source
POHANKA OF SALISBURY			SALISBURY			MD		CAT	TECH
Primary Model		Model Year Production Date		Odometer		VIN			
Prius		2007 23-Nov-06			33576 mi		JTDKB20U277		
Part # 1:	Part # 2:	Part # 2:		Part # 3:		Parts Destination: Parts Ava		able:	Repair Date
8966147160	3966147160			CQE		No part a		available	2/23/2010
Condition Title				Applicable DTC Code(s)					
Brake feel on unev	en road surf	ace							

#### **Condition Description**

- Customer states that a handful of times, especially on a specific road when applying brakes over a dip in the road, the car feels like it is surging forward instead of stopping
- · Customer does not think the ABS is being activated and does not think the VSC is being activated either
- Customer sees a similarity between this situation and the one being reported on the 2010 Prius

## Diagnostic Steps:

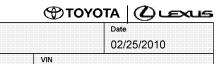
**Probable Cause**Unknown

- Road tested vehicle with customer over a rough surface that customer states they had a problem with
- Customer was unable to duplicate the condition
- Checked ECU programming for the most current version and re-flashed engine ECU to newest software

Repair Process  Engine ECLI was re-flashed to newest software version (not for customer complaint issue)									
Engine ECU was re-flashed to newest software version (not for customer complaint issue)									

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Comments:



TQCN DOC#	Condition Title		Date		
TQCN_DPR-100550039	Brake feel on ui	02/25/2010			
Primary Model	Model Ye	ar Production Date	Odometer	VIN	
Prius	2007	23-Nov-06	33576 mi	JTDKB20U277	

Do	tachment 1: Parts Reconot type in SHADED fields. If the scrap", properly dispose of the	e Final Destin		Orig Tracking VIN Doc No.					
Final Destination: CQE			SETR#:		CQEE	ng:			
Importer: (Applies to TMC Shipments Only)		nents De	eliver to:			住所:			
Ma N. Olympium Objet Francis			Attn: 宛先:						
Mr. N. Okumura, Chief Expert Quality Div. Warranty Parts Room TOYOTA MOTOR CORPORATION 1 Toyota, Toyota-city, Aichi, 471-8571 Japan		N   1	Tel:			Tel:			
								VALUE FOR CUSTOMS US	E:
	Part # 1:					Qty.	Used Part Value Each		
1 8966147160 COMF			PUTER, ENGINE CONTROL					\$ 113.58	
'	Comments:								
			scription				Qty.	Used Part Value Each	
2	Comments:						Licad Part Value Fach		

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