

# Investigation Report for Tacoma vehicle

Oct 25, 2007

North America CQE-LA center

Investigation Date	10/25/2007
Investigated by	CQE : R. Lopez TMS: A. Curtin (PQSS), J. Diaz (FTS)

Approval	Review	Written
		R. Lopez 10/25/07

## 1. Vehicle Outline

Model & MY	06MY Tacoma	License No.	None
VIN	5TEMU52N86Z [REDACTED]	Mileage	46,642 mile
Engine	1GR-FE	Engine No.	8046010
Transmission	5AT	Manufacture	NUMMI
L/O date	12/15/2005		

*After Market Mat*

## 2. Vehicle check

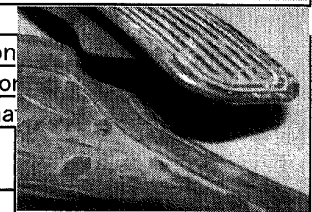
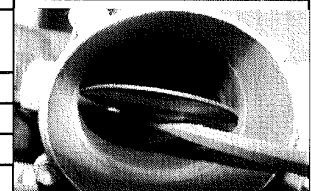
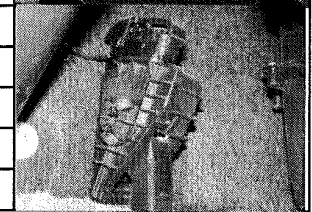
### (1) Check of vehicle

Vehicle Condition	General vehicle check		Lifted: [Tires (285/70R17), Leaf Springs, Shocks]	Air Intake, Bumper Siren
	Wire harness damage	None		
	Indicator lamps	Illumination or blink : None		
	Diagnostic code	Record : None		
	FFD	None		
	Replication of phenomenon	Replication at urban area and FWY : No duplication		
	Main equipment	A/C, Cruise control,		
	Aftermarket part	Tires, springs, shocks, floor mats, siren,		
	Floor mat	All Four: Husky Liners		

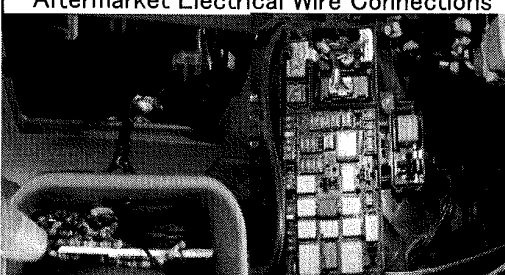
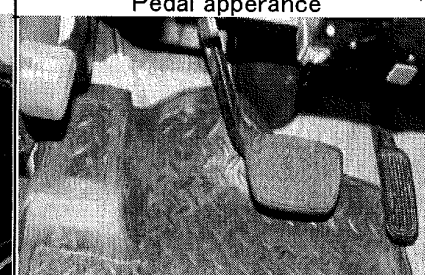
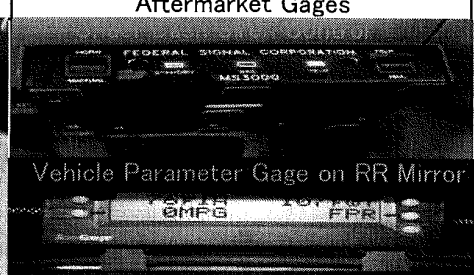
Vehicle appearance



### (2) Check of each component

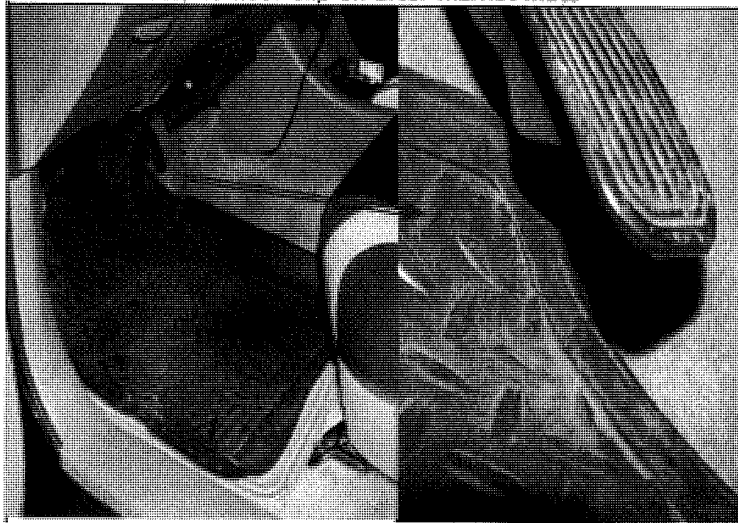
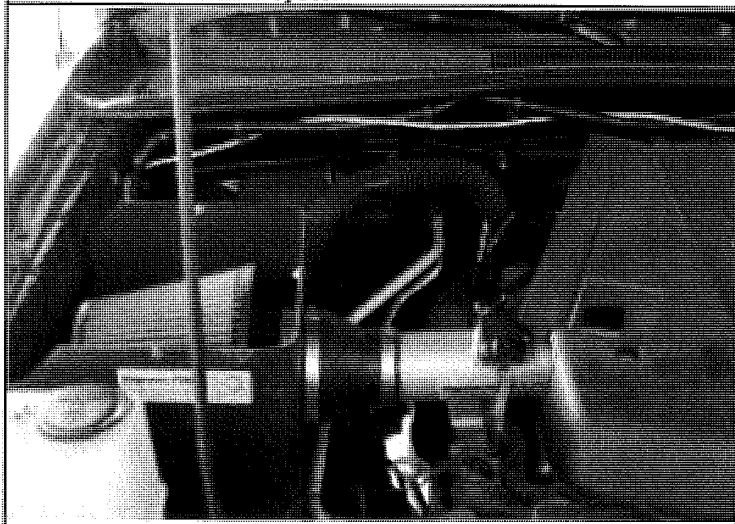
Intake System	Accelerator Pedal	Abnormal position. Deformation (fully closed) : None	
		Abnormal position. Deformation (fully opened) : None	
		Contact of movement range : Bottom of Husky mat	
		Abnormal pedal force, Contact with other component : Bottom/top of mat	
		Return spring : Good	
Throttle Body	Foreign body adhesion from air cleaner to surge tank : None		
	Valve movement : Good		
	Valve damage : None		
	Range of deposit adhesion : Good		
	Resistance value of throttle motor : Good		
Wire Harness	Fuse & Fusible Link	Disposition : Good	
	Accel & Throttle Sensor	Fitting of connector: Good	
	EFI Computer	Fitting of connector: Good	
	Cruise Control / Actuator	Fitting of connector: Good	
	Other Wire Harness	Scratch, Damage, Fitting failure : None	

### (3) Notes

Aftermarket Electrical Wire Connections	Pedal appearance	Aftermarket Gages
		

**3. Detail of other investigation****(1) Check using Diagnostic Tester**

Tester Display	Item	With Double Mats		Original Mats	Control Range	Judgement
ACCEL POS#1	Pedal position Sensor No.2	Idle	0.8 V	0.7 V	0.5-1.1 V	OK
		WOT	3.5 V	3.7 V	2.6-4.5 V	OK
ACCEL POS#2	Pedal position Sensor No.2	Idle	1.6 V	1.6 V	1.2-2.0 V	OK
		WOT	4.3 V	4.5 V	3.4-5.0 V	OK
THROTTLE POS#2	Throttle position Sensor No.2	Idle	2.3 V	2.3 V	2.0-2.9 V	OK
		WOT	4.9 V	4.9 V	4.6-5.0 V	OK
THROTTLE TARGET	Target position Of throttle	Idle	0.8 V	0.8 V	0.5-1.0 V	OK
THROTTLE OPEN DUTY	Throttle motor Opening duty ratio	Closed :	0 %	0%	0-40 % Idling	OK
THROTTLE CLS DUTY	Throttle motor Closed duty ratio	Closed :	18 %	15%	0-40 % Idling	OK
THROTTLE INITIAL	Throttle closed (Learned value)		0.6 V	0.6 V	0.4-0.8 V	OK
ACCEL LEARN VALUE	Accelerator closed (Learned value)		0.8 V	0.7 V	-	-

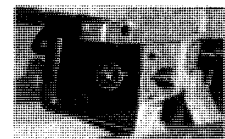
**(2) Photographs****1. Double mats, no floor clip on after market mats****2. Scuff marks on mats below accelerator pedal****3. After Market Intake system****4. Inside Air Intake Outlet**

(3) Measurement of pedal location

1. Distance between each pedal		2. Distance between each pedal height	
W 1 : Minimum gap of each pedal	62 mm	D : Difference between each pedal height	29 mm
W 2 : Minimum gap of each pedal	147 mm		

<p>Diagram illustrating the horizontal distance between the centerlines of the Brake Pedal and Accelerator Pedal. The Brake Pedal is on the left and the Accelerator Pedal is on the right. W1 is the minimum gap between the inner edges of the pedals. W2 is the minimum gap between the outer edges of the pedals.</p>	<p>Diagram illustrating the vertical distance D between the top edges of the Brake Pedal and Accelerator Pedal. The Brake Pedal is positioned higher than the Accelerator Pedal. D is the vertical distance between the top edge of the Brake Pedal and the top edge of the Accelerator Pedal.</p>
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# Investigation Report for Tacoma vehicle

Oct 24, 2007

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North America CQE center Tech G

Investigation Date	10/23-2007-10/24/2007
Investigated by	CQE : M. Kobu, M. Shaw, T. Saito TMC3GY : M. T. Miyazaki

Approval	Review	Written
		T. Saito M. Kobu M. Shaw

## 1. Vehicle Outline

Model & MY	07MY Tacoma	License No.	73P JG6 TX
VIN	5TEKU72N77Z	Mileage	3114 mile
Engine	1GR-FE	Engine No.	8285485
Transmission	AA750E (5AT)	Manufacture	NUMMI
L/O date	8/3/2007		




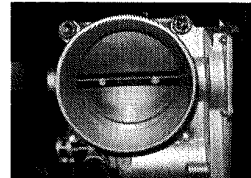
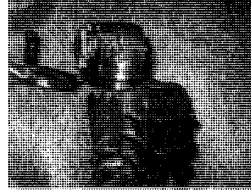
Vehicle appearance

## 2. Vehicle check


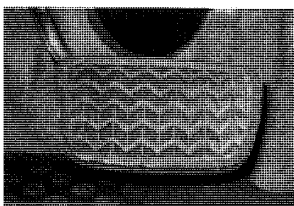
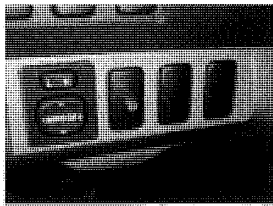
### (1) Check of vehicle

Vehicle Condition	General vehicle check	Abnormality of tires, vehicle under, engine component., oil : None
	Wire harness damage	None
	Indicator lamps	Illumination or blink : None ( Result of check using Diagnostic tester )
	Diagnostic code	Record : None ( Result of check using Diagnostic tester )
	FFD	None
	Replication of phenomenon	Replication at urban area and FWY : None
	Main equipment	A/C, PS, ECT, Cruise control, Shift lock
	Aftermarket part	Keyless upgrade system ( TMS GST option )
	Floor mat	Toyota aftermarket floor mat on Toyota genuine part

### (2) Check of each component

Intake System	Accelerator Pedal	Abnormal position.Deformation (fully closed):None Abnormal position.Deformation (fully opened):None Contact of movement range : None Abnormal pedal force, Contact with other component : Pedal stuck the floor mat at full position when floor mat was moved. Return spring : Good	
	Throttle Body	Foreign body adhesion from air cleaner to surge tank : None Valve movement : Good Valve damage : None Range of deposit adhesion : Good Resistance value of throttle motor : Good	
Wire Harness	Fuse & Fusible Link	Disposition : Good, Blown Good	
	Accel & Throttle Sensor	Fitting of connector : Good	
	EFI Computer	Fitting of connector : Good	
	Cruise Control / Actuator	Fitting of connector : Good	
	Other Wire Harness	Scratch, Damage, Fitting failure : Good	

### (3) Notes

Fitting of Floor mat	Brake Pedal	Aftermarket part (TMS GST keyless upgrade system)
 There were 2 floor mats. Upper mat was not fixed and moved easily.	 The right side of brake pedal was a little bit dirty.	 It was installed at the left side of the steering.

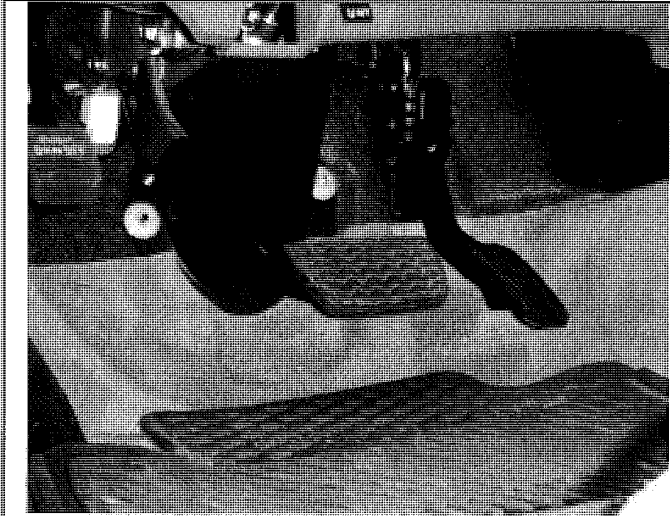
### 3. Detail of other investigation

#### (1) Check using Diagnostic Tester

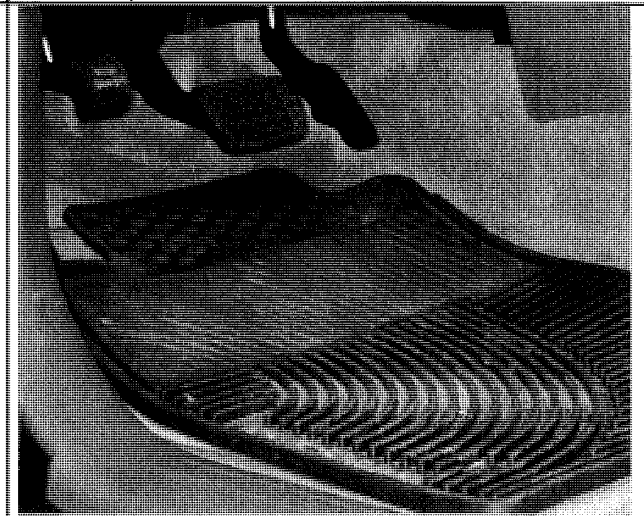
Tester Display	Item	Measured number		Criteria	Judgement
ACCEL POS#1	Pedal position Sensor No.2	Idle	0.79 V	V	OK
		WOT	3.73 V	V	OK
ACCEL POS#2	Pedal position Sensor No.2	Idle	1.60 V	V	OK
		WOT	4.48 V	V	OK
THROTTLE POS#2	Throttle position Sensor No.2	Idle	2.40 V	V	OK
		WOT	4.98 V	V	OK
THROTTLE TARGET	Target position Of throttle	Idle	0.9 V	V	OK
THROTTLE OPEN DUTY	Throttle motor Opening duty ratio	Closed :	0%	0%	OK
THROTTLE CLS DUTY	Throttle motor Closed duty ratio	Closed :	0%	%	OK
THROTTLE INITIAL	Throttle closed (Learned value)		0.60 V	V	OK
ACCEL LEARN VALUE	Accelerator closed (Learned value)		0.70 V	V	OK

#### (2) Photographs

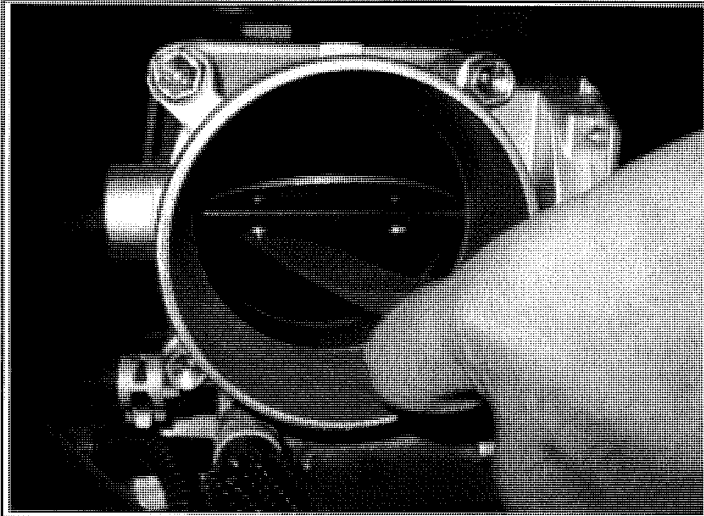
1. Around pedals Part1



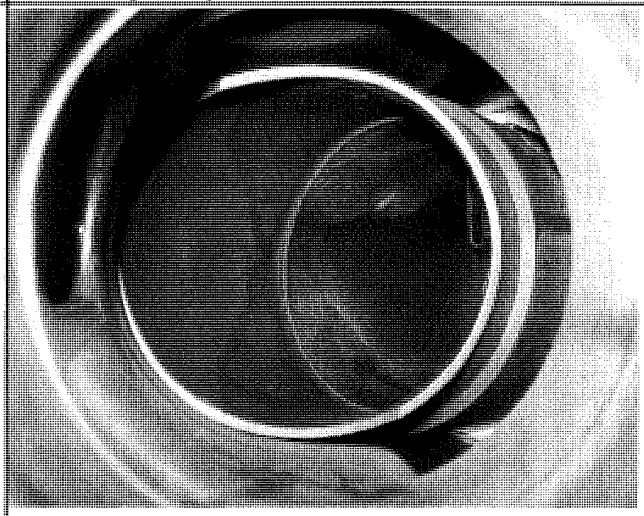
2. Around pedals Part2



3. Inside of throttle body



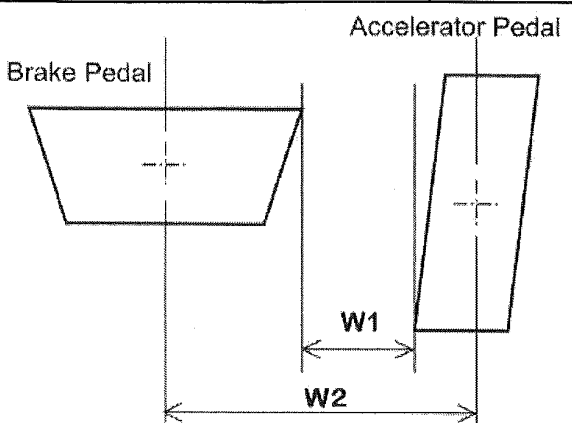
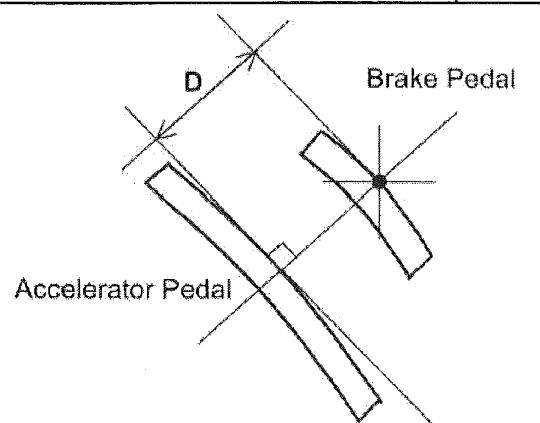
4. Intake system part (Intake side of air cleaner case)



(3) Measurement of pedal location

1. Distance between each pedal		2. Distance between each pedal height	
W 1 : Minimum gap of each pedal	81mm	D : Difference between each pedal height	33mm
W 2 : Minimum gap of each pedal	146mm		

 <p>Brake Pedal</p> <p>Accelerator Pedal</p> <p>W1</p> <p>W2</p>	 <p>Brake Pedal</p> <p>Accelerator Pedal</p> <p>D</p>
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