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2002 MAZDA Tribute OEM Service and Repair Workshop Manual

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STEP	INSPECTION	RESULTS	ACTION
		Yes	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
2	INSPECT INSTRUMENT CLUSTER • Inspect the instrument cluster. (See INSTRUMENT CLUSTER INSPECTION.) • Is there any malfunction?	No	Inspect for a short or open circuit between the following terminals: Instrument cluster terminal B-Active driving display terminal J Instrument cluster terminal D-Active driving display terminal L Active driving display terminal I-Front body control module (FBCM) terminal 2K Active driving display terminal K-Front body control module (FBCM) terminal 2I Front body control module (FBCM) terminal 2P-PCM terminal 2AK Front body control module (FBCM) terminal 2N-PCM terminal 2AL Repair or replace the wiring harness if necessary.
3	Verify the test results. • If normal, return to the diagnostic index to service ([SKYACTIV-G 2.5T].) • If the malfunction remains, inspect the related Service or diagnosis.		
	 If the vehicle is repaired, troubleshooting is co If the vehicle is not repaired or additional diaglater calibration is available. Retest. 		is not available, reprogram the PCM if a

0	and the second second second	maffers company	a should a			Repa	Repair order	Check	Check with customer	Diac	Diagnosis	6	Repair	Explanation to customer
Hepair	Repair order form and mailunction symptom check sneet	inction sympton	n check s		Data/time									
					n-charge									
Custome	Customer statement (When? What? What time(s)? Where it occurs. Waming light illumination? Can anyone replicate problem?)	What? What time	a(s)? Whe	re it occurs. V	/aming ligh	rt illumination?	Can anyone repl	licate problem?)						
Vehicle b	Vehicle body number:				Registration date:	in date:			Date of malfunction occurrence:	:courrence:			Odometer reading	g km {mile}
Engine (Engine (SOHC/DOHC/RE/DE) (Cab /EGI/Turbo/Miler cycle/LPG/Direct injection)	Cab /EGI/ Tu	irbo/ Mile	r cycle/ LPG/C	inect inject	ion)				Transmissiv	on (MT/HAT	Transmission (MT/HAT/EC-AT/CVT)		
	Emironmental condiso	ndsons							Driving conditions	dtions				
Weather	Ambient temp.	Drive scenario	Grade	Occurrence	F Usel	Warm-up condition	Driving operation	Driving posture	peon	Accelerator opening angle	Shift position	Eng RPM	Vehicle	Pattern of use
DIO, measure		Teaths am left) Standard city sheet) Standard city sheet Standard city sheet Highway H	Place Place Communication of the Communication of t	2-3 imesting 4-5 imesting 4-5 imesting Character work 4-6 imesting Character work 4-6 imesting 4-5 imesting 4-5 imesting 6-5 imesting Char Char Char Char Char Char Char Char	Projection of the project of the pro	Cond Felt-warmed And Water ferm, Gasdys H	After starting After starting Restarting Restarting Restarting Accell from stop Accell from stop Normal driving Set freshing Set freshi	Straight-on fining Reviews School Information (Repair, apocient Information Cities)	Summy 10-00 (14-32 ft) Pagate P	'		Less fran 1,000 Less fran 1,000 Less fran 2,000 Less fran 2,000 Less fran 2,000 Less fran 5,000 Less fran 5,000 Less fran 5,000 Less fran 5,000 T,000 or more	6 Smm (3 mpt) 20 benh (12 mpt) 20 benh (12 mpt) 40 benh (13 mpt) 60 benh (13 mpt) 60 benh (23 mpt) 70 benh (24 mpt) 100 benh (24 mpt) 110 benh (24 mpt) 120 benh (24 mpt) 120 benh (38 mpt) 120 benh (38 mpt) 120 benh (38 mpt) 120 benh (38 mpt) 140 benh (38 mpt) 150 benh (38 mpt) 160 benh (38 mpt) 160 benh (38 mpt) 160 benh (38 mpt) 160 benh (38 mpt)	Work Minor use % Tripes % Other % Other % Other % Other % Other % Other No. of occupants: Load condison % Other
009979														

INTERMITTENT CONCERN TROUBLESHOOTING [SKYACTIV-G 2.5T]

SM2897079

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Vibration Method

• If a malfunction occurs or becomes worse while driving on a rough road or when the engine is vibrating, perform the steps below.

Note

- There are several reasons why the vehicle or engine vibration could cause an electrical malfunction. Check the following:
 - Connectors are not fully seated.
 - Wiring harnesses do not have full play.
 - Wires laying across brackets or moving parts.
 - Wires routed too close to hot parts.
- An improperly routed, improperly clamped, or loose harness can cause a wiring harness to become pinched between parts.
- The connector joints, points of vibration, and places where the wiring harnesses pass through the firewall and body panels are the major areas to be checked.

Inspection Method for Switch Connectors or Wires

- 1.Connect the M-MDS to the DLC-2.
- 2. Switch the ignition ON (engine off).

Note

- If engine starts and runs, perform the following steps during idle.
- 3. Access the PIDs for the switch you are inspecting.
- 4. Turn the switch on manually.
- 5. Slightly shake each connector or wiring harness vertically and horizontally while monitoring the PID.
 - If the PID value is unstable, check for a poor connection.

- Indirectly change the temperature and humidity by spraying water onto the front of the radiator.
- If a vehicle is subject to water leakage, the leakage may damage the control module. When testing a vehicle with a water leakage problem, special caution must be used.
- 1.Connect the M-MDS to the DLC-2 if you are inspecting sensors or switches.
- 2. Switch the ignition ON (engine off).

Note

- If the engine starts and runs, perform the following steps at idle.
- 3. Access the PIDs for the sensor or the switch if you are inspecting sensors or switches.
- 4.If you are inspecting the switch, turn it on manually.
- 5.Spray water onto the vehicle or run it through a car wash.
 - If the PID value is unstable or a malfunction occurs, repair or replace parts if necessary.



QUICK DIAGNOSTIC CHART [SKYACTIV-G 2.5T]

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																X: Ap	plie
			Possible factor													stat)	
Trout	oleshooting item			Starter motor malfunction (mechanical or electrical)	Starter circuit including ignition switch is open	Improper engine oil level	Low or dead battery	Charging system malfunction	Improper engine compression	Improper oil level gauge	Base engine malfunction	Drive plate is seized	Improper tension or damaged drive belts	Improper engine coolant level	Water and anti-freeze mixture is improper	Cooling system malfunction (such as radiator, hoses, overflow system, thermostat)	Cooling fan system malfunction
1	Blown fuses								A.								
2	Check engine light ille	uminate	\$														
3	Will not crank			X	X		Х				Х	Х					
4	Hard to start/long cra			X					X								
5	Engine stalls		start/at idle						X								
6	Cranks normally but	will not a	tart						Х								\perp
Fingine oil warning light illuminated/ message related to engine hydraulic pressure malfunction indicated in display						x					x						
8	Engine runs rough/ro	lling idle							Х								П
9	Fast idle/runs on															X	
10	Low idle/stalls during	deceler	ation					х	х								
	Engine stalls/quits	Accel	eration/cruise						Х								
Ī	Engine runs rough	Accel	eration/cruise						Х								
1	Misses	Accel	eration/ĉruise		1				х								
11	Buck/jerk	Accel	eration/cruise/deceleration						х								
İ	Hesitation/stumble	Accel	eration	1					X								\top
İ	Surges	Accel	eration/cruise						х								\vdash
12	Lack/loss of power	Accel	eration/cruise						х								T
13	Knocking/pinging	Accel	eration/cruise													Х	T
14	Poor fuel economy								Х					х		х	7
15	Emission compliance								х					х		х	\vdash
16	High oil consumption									х	х						
17	Cooling system conc	ems	Overheating					х					х	х	х	Х)
18	Cooling system conc		Runs cold													Х)
19	Exhaust smoke								х							Х	
20	Fuel odor (in engine	compart	ment)														
21	Engine noise							х			х		х				
22	Vibration concerns (e	ngine)															
23	Sulfuric smell occurs																\top
24	Fuel refill concerns																+
25	Fuel filling shut off co	ncerns															+
				-	_				х								+

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5 Engine stalls 6 Cranks normall Engine oil warn 7 message relate malfunction ind 8 Engine runs rot 9 Fast idle/runs o																	X: Ap	plied
1 Blown fuses 2 Check engine ii 3 Will not crank 4 Hard to start/for 5 Engine stalls 6 Cranks normall Engine oil warn 7 message relate malfunction ind 8 Engine runs ror 9 Fast idle/runs o 10 Low idle/stalls o Engine runs ror Misses Buck/jerk Hesitation/stum Surges 12 Lack/loss of por 13 Knocking/pingir 14 Poor fuel econo 15 Emission comp 16 High oil consur 17 Cooling system 19 Exhaust smoke 20 Fuel odor (in er 21 Engine noise 22 Vibration conce			Possible factor	Fuel injector malfunction (inoperative)	Fuel filler cap malfunction	Fuel filters restricted or clogged	Relief valve malfunction (built-into high pressure fuel pump)	Spill valve control solenoid valve malfunction (built-into high pressure fuel pump)	Fuel leakage at fuel line	High pressure fuel pump malfunction	Incorrect fuel injection timing or amount	Improper airfuel ratio mixture control	Exhaust system or catalytic converter restriction	Exhaust gas leakage	Catalytic converter malfunction	PCV valve malfunction	Fuel tank vent system malfunction	Charcoal canister malfunction aid
2 Check engine li 3 Will not crank 4 Hard to start/lor 5 Engine stalls 6 Cranks normall Engine oil warn 7 message relate malfunction ind 8 Engine runs ror 9 Fast idle/runs of 10 Low idle/stalls of Engine stalls/qu Engine runs ror Misses Buck/jerk Hesitation/stum Surges 12 Lack/loss of por 13 Knocking/pingir 14 Poor fuel econo 15 Emission comp 16 High oil consum 17 Cooling system 18 Cooling system 19 Exhaust smoke 20 Fuel odor (in er 21 Engine noise 22 Vibration conce	g item			Fue	Fue	Fuel	Peli (buil	Spill (pnill)	Fee	High	lnoo	III	Ě	EXP	Cats	PCV	를	Sa
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Fingine oil warm message relate malfunction ind Engine runs rou Fast idle/runs of Low idle/stalls of Engine stalls/quencing Engine runs rou Misses Buck/jerk Hesitation/stum Surges Lack/loss of por Knocking/pingir Poor fuel econor Emission comp High oil consum Cooling system Cooling system Exhaust smoke Fuel odor (in er Engine noise Vibration conce			start/at idle	Х		Х	Х	Х	Х	х	Х	X	Х			X		\square
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Misses Buck/jerk Hesitation/sturn Surges 12 Lack/loss of por 13 Knocking/pingir 14 Poor fuel econo 15 Emission comp 16 High oil consun 17 Cooling system 18 Cooling system 19 Exhaust smoke 20 Fuel odor (in er 21 Engine noise 22 Vibration conce		_	eration/cruise	Х			Х	Х	Х	х	Х	х	X	х		х		\Box
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13 Knocking/pingir 14 Poor fuel econo 15 Emission comp 16 High oil consun 17 Cooling system 18 Cooling system 19 Exhaust smoke 20 Fuel odor (in er 21 Engine noise 22 Vibration conce	of power		eration/cruise	X			X	X	X	Х	X		x			X	\Box	\vdash
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15 Emission comp 16 High oil consum 17 Cooling system 18 Cooling system 19 Exhaust smoke 20 Fuel odor (in er 21 Engine noise 22 Vibration conce				х			X	X	х	х	х		x			x		
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18 Cooling system 19 Exhaust smoke 20 Fuel odor (in er 21 Engine noise 22 Vibration conce			Overheating	Ť														\neg
19 Exhaust smoke 20 Fuel odor (in er 21 Engine noise 22 Vibration conce			Runs cold														\Box	\vdash
20 Fuel odor (in er 21 Engine noise 22 Vibration conce							X	х		х	х			х		х	\Box	\vdash
21 Engine noise 22 Vibration conce		ompart	ment)		X				х							-		\neg
22 Vibration conce				Х		1				х								\Box
		ngine)															\Box	\Box
					ľ													\Box
24 Fuel refill conce																	\Box	\vdash
25 Fuel filling shut		ncerns															\Box	\vdash
26 Spark plug con											х		х				\Box	\vdash

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															Х	: App	lied
			Possible factor														
Troi	ubleshooting item			A/C system improper operation	mproper refrigerant charging amount	A/C relay (A/C control signal circuit) malfunction	A/C compressor magnetic clutch malfunction	ATX related parts malfunction	mproper ATF level	Brake dragging	Loose parts	mproper balance of wheels and tires	Drive line malfunction	Suspension malfunction	mmobilizer system operating properly	Immobilizer system or related circuit malfunction	Advanced keyless entry system malfunction
1	Blown fuses			_	-	_	_	-	-	-	_	_	<u> </u>	٠,	_	_	-
2	Check engine light illu	ıminate	9														\vdash
3	Will not crank	211111111111111111111111111111111111111														х	\vdash
4	Hard to start/long crar	nk/errati	ic start/erratic crank													-	\vdash
5	Engine stalls	After :	start/at idle	х		х											
6	Cranks normally but v	vill not s	tart														
7	Engine oil warning lig message related to er malfunction indicated	ngine hy	draulic pressure														
8	8 Engine runs rough/rolling idle			х		х											
9				х		х		х									
10							х	х			Х						
	Engine stalls/quits	Accel	eration/cruise	х				Х	7 (х						
	Engine runs rough	Accel	eration/cruise	х				х			х		Ť				
1	Misses	Accel	eration/cruise	х				х			х						
11	Buck/jerk	Accel	eration/cruise/deceleration	х				х			Х						\Box
	Hesitation/stumble	Accel	eration	x				X			X						\Box
1	Surges	Accel	eration/cruise	X				X			X						
12	Lack/loss of power		eration/cruise	X		x		x	М	X							\Box
13	Knocking/pinging		eration/cruise					7		- 1							\Box
14	Poor fuel economy			х					х	х		х					\vdash
15	Emission compliance									-,							\vdash
16	High oil consumption/)														\vdash
17	Cooling system conce		Overheating	x	x												\vdash
18	Cooling system conce		Runs cold	^	^												\vdash
19	Exhaust smoke																\vdash
20	Fuel odor (in engine o	ompart	ment)														\vdash
21	Engine noise			х			х										\vdash
22	Vibration concerns (e	ngine)		-			_				х	х	х	х			\vdash
23	Sulfuric smell occurs	- Jan (C)									^			^			\vdash
24	Fuel refill concerns																\vdash
25	Fuel filling shut off cor	entane															\vdash
26	Spark plug condition	inellia(\vdash
26	Spark plug condition																

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3	WILL NOT CRANK
	 Battery malfunction Fuse malfunction Poor connection of push button start connector Instrument cluster or related wiring harness malfunction Immobilizer system malfunction PCM continuous memory DTC is stored Open circuit in wiring harness between the following terminals:
	 Main relay terminal E-PCM terminal 2K Main relay terminal C-PCM terminal 1CK, 2S DLC-2-PCM terminal 2AK, 2AL Main relay malfunction (stuck open) Open or poor ground circuit Poor connection of vehicle body ground
	Starter relay malfunction Starter relay related wiring harness malfunction Put and the starter transfer to the SCM t
	— Between starter relay terminal E and PCM terminal 2AU — Between starter relay terminal E and start stop unit terminal 1D — Between start stop unit terminal 2V and starter relay terminal A • Following circuit malfunction:
	 Between battery positive terminal and starter terminal 1A Between battery positive terminal and starter relay terminal D Between starter relay terminal C and starter terminal 2A TCM and related wiring harness malfunction Starting system malfunction Following circuit and/or connector malfunction:
POSSIBLE CAUSE	 Between push button start terminal A and start stop unit terminal 1AC Between push button start terminal B and start stop unit terminal 1AE Between start stop unit terminal 2M-Front body control module (FBCM) terminal 2K Between start stop unit terminal 2O-Front body control module (FBCM) terminal 2I Between front body control module (FBCM) terminal 2P-PCM terminal 2AK Between front body control module (FBCM) terminal 2N-PCM terminal 2AL Seized engine, drive plate Engine damage during compression due to liquid (such as water, fuel, or engine oil) penetration into cylinder
	Warning The following troubleshooting flow chart contains the fuel system diagnosis and repair procedures. Read the following warnings before performing the fuel system services: • Fuel vapor is hazardous. It can easily ignite, causing serious injury and damage. Always keep sparks and flames away from fuel.
	 Fuel line spills and leakage are dangerous. Fuel can ignite and cause serious injury or death and damage. Fuel can also irritate skin and eyes. To prevent this, always complete "BEFORE SERVICE PRECAUTION" and "AFTER SERVICE PRECAUTION" described in this manual. (See BEFORE SERVICE PRECAUTION [SKYACTIV-G 2.5T].)
	Caution
	 Disconnecting/connecting the quick release connector without cleaning it may possibly cause damage to the fuel pipe and quick release connector. Always clean the quick release connector joint area before disconnecting/connecting, and make sure that it is free of foreign matter.

STEP	INSPECTION	RESULTS	ACTION
7	DETERMINE IF MALFUNCTION CAUSE IS STARTER RELAY CONTROL SIGNAL CIRCUIT OR OTHER	Yes	Go to Step 17.
,	Switch the ignition ON (engine on).Is a clicking sound heard from the starter relay?	No	Go to the next step.
8	INSPECT TCM CONNECTOR CONDITION • Switch the ignition off. • Disconnect the TCM connector. • Inspect for poor connection (such as	Yes	Repair or replace the connector and/or terminals, ther repeat Step 7.
	damaged/pulled-out pins, corrosion). • Is there any malfunction?	No	Go to the next step.
		Yes	Go to the next step.
9	INSPECT TCM CIRCUIT FOR OPEN CIRCUIT • Verify that the TCM connector is disconnected. • Inspect for continuity between TCM terminal J (wiring harness-side) and PCM terminal 2BD (wiring harness-side). • Is there continuity?	No	Refer to the wiring diagram and verify whether or not there is a common connector between TCM terminal J and PCM terminal 2BD. If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has an open circuit. Repeat Step 7.
10	INSPECT STARTER RELAY • Remove the starter relay. (See RELAY LOCATION.) • Inspect the starter relay. (See RELAY INSPECTION.) • Is there any malfunction?	Yes	Replace the starter relay. Repeat Step 7. Go to the next step.
11	INSPECT START STOP UNIT CONNECTOR CONDITION • Disconnect the start stop unit connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion).	Yes	Repair or replace the connector and/or terminals, ther repeat Step 7.
	• Is there any malfunction?	No	Go to the next step.
12	INSPECT STARTER RELAY CONTROL CIRCUIT FOR SHORT TO GROUND • Verify that starter relay is removed. • Verify that the TCM connector is disconnected. • Verify that the start stop unit connector is disconnected. • Inspect for continuity between starter relay terminal A (wiring harness-side) and body ground. • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between starter relay terminal A and start stop unit terminal 2V. If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has a short to ground. Repeat Step 7.

No

Go to the next step.