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## 2001 MAZDA Tribute OEM Service and Repair Workshop Manual

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6	Master warning light illuminated/ message related to vehicle system malfunction indicated in display	-	-	-	-	-	-	-
7	Charging system warning light illuminated/ message related to charging system malfunction indicated in display	-	-	-	-	-	-	-
8	Engine oil warning light illuminated/ message related to engine hydraulic pressure indicated in display	-	-	-	-	-	-	-
9	Will not crank	-	-	-	-	-	-	-
10	Hard to start/long crank/erratic start/erratic crank	-	-	-	-	-	-	-
11	Engine stalls-after start/at idle	-	-	-	-	-	-	-
12	Cranks normally but will not start	-	-	-	-	-	-	-
13	Engine runs rough/rolling idle	-	-	-	-	-	-	-
14	Fast idle/runs on	-	-	-	-	-	-	-
15	Low idle/stalls during deceleration	-	-	-	-	-	-	-
16	Engine stalls/quits, engine runs rough, misses, buck/jerk, hesitation/stumble, surges	-	-	-	-	-	-	-

Troubleshooting item		Exhaust system					Fuel system	
		EGR valve	EGR cooler		EGR pipe	Diesel particulate filter	Fuel line	
		Improper operation	Leakage (gas)	Clogging	Clogging	Loss	Leakage	Restriction
7	Charging system warning light illuminated/message related to charging system malfunction indicated in display	-	-	-	-	-	-	-
8	Engine oil warning light illuminated/message related to engine hydraulic pressure indicated in display	-	-	-	-	-	-	-
9	Will not crank	-	-	-	-	-	-	-
10	Hard to start/long crank/erratic start/erratic crank	-	-	-	-	-	-	-
11	Engine stalls-after start/at idle	-	-	-	-	-	-	-
12	Cranks normally but will not start	-	-	-	-	-	-	-
13	Engine runs rough/rolling idle	-	-	-	-	-	-	-
14	Fast idle/runs on	-	-	-	-	-	-	-
15	Low idle/stalls during deceleration	-	-	-	-	-	-	-

Troubleshooting item		Fuel system						
		Sedimentor switch		Fuel warmer	Supply pump	Jet pump	Suction control valve	
		Always on	Always off	Improper operation	Poor discharge amount	Poor discharge amount	Low adjusted pressure value	High adjusted pressure value
4	Diesel particulate filter indicator light flashes/message related diesel particulate filter malfunction indicated in display	–	–	–	–	–	–	–
5	Wrench indicator light illuminated/message related to sedimentor indicated in display	×	–	–	–	–	–	–
6	Master warning light illuminated/message related to vehicle system malfunction indicated in display	–	–	–	–	–	–	–
7	Charging system warning light illuminated/message related to charging system malfunction indicated in display	–	–	–	–	–	–	–

Troubleshooting item		Fuel system						
		Fuel check valve	Fuel feed valve	Fuel system/Fuel injection system malfunction (such as leakage)	Fuel injector			
		Improper operation	Improper operation		Open circuit in drive circuit	Short circuit in drive circuit	Leakage	Restricted or clogged
1	Blown fuses	—	—	—	—	—	—	—
2	Check engine light illuminates	×	×	×	×	×	×	×
3	Diesel particulate filter indicator light illuminated frequently/message related to accumulation condition in diesel particulate filter indicated in display	—	—	—	—	—	—	—
4	Diesel particulate filter indicator light flashes/message related diesel particulate filter malfunction indicated in display	—	—	—	—	—	—	—
5	Wrench indicator light illuminated/message related to sedimentor indicated in display	—	—	—	—	—	—	—
6	Master warning light illuminated/message related to vehicle system malfunction indicated in display	—	—	—	—	—	—	—

Troubleshooting item		Fuel system						
		Fuel check valve	Fuel feed valve	Fuel system/Fuel injection system malfunction (such as leakage)	Fuel injector			
		Improper operation	Improper operation		Open circuit in drive circuit	Short circuit in drive circuit	Leakage	Restricted or clogged
30	SCR system warning indication turned on or flashes/message related to SCR system indicated in display	—	—	—	—	—	—	—
31	SCR system warning indication turned on/[Overfilled DEF] indicated in display	—	—	—	—	—	—	—

×: Applicable—: Not applicable

Troubleshooting item		Fuel system			Control system			
		Fuel injector	Fuel		PCM			
		Injection amount correction mismatch	Low cetane value	Inferior constituent	No initiation	No configuration	No learning	Open circuit in back-up power supply circuit of PCM
1	Blown fuses	—	—	—	—	—	—	—
2	Check engine light illuminates	×	×	×	—	×	×	×

Troubleshooting item		Fuel system			Control system			
		Fuel injector	Fuel		PCM			
		Injection amount correction miss-match	Low cetane value	Inferior constituent	No initiation	No configuration	No learning	Open circuit in back-up power supply circuit of PCM
16	Engine stalls/quits, engine runs rough, misses, buck/jerk, hesitation/stumble, surges	—	×	×	—	—	×	—
17	Lack/loss of power-acceleration/cruise	—	×	×	—	—	×	—
18	Knocking/pinging-acceleration/cruise	×	—	×	—	—	—	—
19	Poor fuel economy	—	×	×	—	—	×	—
20	Emission compliance	×	×	×	—	—	×	—
21	High oil consumption/leakage	—	—	—	—	—	—	—
22	Cooling system concerns-overheating	—	—	—	—	—	—	—
23	Cooling system concerns-runs cold	—	—	—	—	—	—	—
24	Excessive black smoke	—	—	—	—	—	—	—
25	Fuel odor (in engine compartment)	—	—	—	—	—	—	—
26	Engine noise	—	—	—	—	—	×	—
27	Vibration concerns (engine)	×	×	×	—	—	×	—
28	Sulphuric odor	—	—	×	—	—	—	—
29	Ammonia odor	—	—	×	—	—	—	—

Troubleshooting item		Control system (PCM input signal)						
		MAF sensor			Intake shutter valve position sensor		APP sensor	
		High input	Low input	Open or short circuit in signal circuit	Erratic signal input	Open or short circuit in signal circuit	Erratic signal input	Open or short circuit in signal circuit
7	Charging system warning light illuminated/message related to charging system malfunction indicated in display	-	-	-	-	-	-	-
8	Engine oil warning light illuminated/message related to engine hydraulic pressure indicated in display	-	-	-	-	-	-	-
9	Will not crank	-	-	-	-	-	-	-
10	Hard to start/long crank/erratic start/erratic crank	-	-	-	-	-	-	-
11	Engine stalls-after start/at idle	-	-	-	-	-	-	-
12	Cranks normally but will not start	-	-	-	-	-	-	-
13	Engine runs rough/rolling idle	-	-	-	-	-	-	-
14	Fast idle/runs on	-	-	-	-	-	-	-
15	Low idle/stalls during deceleration	-	-	-	-	-	-	-



Troubleshooting item		Control system (PCM input signal)						
		ECT sensor			IAT sensor No.1			Boost air tem
		High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input
4	Diesel particulate filter indicator light flashes/message related diesel particulate filter malfunction indicated in display	–	–	–	–	–	–	–
5	Wrench indicator light illuminated/message related to sedimentor indicated in display	–	–	–	–	–	–	–
6	Master warning light illuminated/message related to vehicle system malfunction indicated in display	–	–	–	–	–	–	–
7	Charging system warning light illuminated/message related to charging system malfunction indicated in display	–	–	–	–	–	–	–
8	Engine oil warning light illuminated/message related to engine hydraulic pressure indicated in display	–	–	–	–	–	–	–

Troubleshooting item		Control system (PCM input signal)						
		MAP sensor No.1			MAP sensor No.2			Fuel tempera
		High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input
2	Check engine light illuminates	×	×	×	×	×	×	×
3	Diesel particulate filter indicator light illuminated frequently/ message related to accumulation condition in diesel particulate filter indicated in display	–	–	–	–	–	–	–
4	Diesel particulate filter indicator light flashes/ message related diesel particulate filter malfunction indicated in display	–	–	–	–	–	–	–
5	Wrench indicator light illuminated/ message related to sedimentor indicated in display	–	–	–	–	–	–	–
6	Master warning light illuminated/ message related to vehicle system malfunction indicated in display	–	–	–	–	–	–	–