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2001 MAZDA Xedos 9 OEM Service and Repair Workshop Manual

Go to manual page

		Control system (PCM input signal)									
Troubleshooting ite	m	MAP sensor No.1			MAP sensor N	Fuel tempera					
noubleshooting ite			Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input			
30	SCR system warning indication turned on or flashes/mes sage related to SCR system indicated in display	_	-	-	_	_	_	_			
31	SCR system warning indication turned on/[Overfille d DEF] indicated in display	-	_	_			-	-			

×: Applicable-: Not applicable

	roubleshooting item		Control system (PCM input signal)								
Troubleshooting its			rature sensor N	lo.1	Exhaust gas pressure sensor No.1			Engine oil tei			
		High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input			
1	Blown fuses		-	-	-	-	-	-			
2	Check engine light illuminates	×	×	×	×	×	×	×			
3	Diesel particulate filter indicator light illuminated frequently/ message related to accumulatio n condition in diesel particulate filter indicated in display	_	_	_	_	-	-	_			

		Control system (PCM input signal)								
Troubleshootin	na item	Exhaust gas temper	ature sensor N	o.1	Exhaust gas p	ressure sensor	No.1	Engine oil tei		
11 3 4 5 1 5 1 5 1	ig item	High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input		
23	Cooling system concerns- runs cold	-	-	-	_	_	_	_		
24	Excessive black smoke	-	-	-	_	_	_	-		
25	Fuel odor (in engine compartmen t)	-	-	-	-		_	_		
26	Engine noise	-	-	-	-	Y	_	-		
27	Vibration concerns (engine)	-	_	-	-	×	_	_		
28	Sulphuric odor	_	_	-	- >	_	_	_		
29	Ammonia odor	_	_) -	_	_	_		
30	SCR system warning indication turned on or flashes/mes sage related to SCR system indicated in display	-		_	-	-	-	-		
31	SCR system warning indication turned on/[Overfille d DEF] indicated in display		-	-	-	-	-	-		

×: Applicable-: Not applicable

		Control system (PC	M input signal)					
Troubleshooting iter	m	Exhaust gas temperature sensor No.2			Exhaust gas t	Exhaust gas		
Troubleshooting item		High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input
1	Blown fuses	_	_	_	_	_	-	_

			Control system (PCM input signal)									
-	Troubleshooting ite	am	Exhaust gas temper	ature sensor N	0.2	Exhaust gas t	Exhaust gas					
	Toubleshooting he		High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input			
	16	Engine stalls/quits, engine runs rough, misses, buck/jerk, hesitation/st umble, surges	_	_	_	_	-	_	_			
	17	Lack/loss of power- acceleration /cruise	_	-	- 🗸	- (-)	_	_			
	18	Knocking/pi nging- acceleration /cruise	_	-		-	-	-	_			
	19	Poor fuel economy	-	-) -	-	-	-			
	20	Emission compliance	-	- (-	5	-	-	-			
	21	High oil consumptio n/leakage	-	-		_	_	_	-			
	22	Cooling system concerns- overheating			_	_	_	_	_			
	23	Cooling system concerns- runs cold		-	_	_	_	_	_			
	24	Excessive black smoke		_	_	-	_	_	_			
	25	Fuel odor (in engine compartmen t)		_	_	_	_	_	_			
	26	Engine noise	-	-	-	-	-	-	-			
	27	Vibration concerns (engine)	-	-	_	_	_	_	-			
	28	Sulphuric odor	-	-	_	-	-	-	-			
	29	Ammonia odor	_	-	-	-	-	-	-			

			Control system (PCM input signal)									
Trou	ıbleshooting ite	em	BARO sensor (built-	-into PCM)		Regulating va sensor	lve position	EGR cooler by position sense				
			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			
	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/errati c start/erratic crank	_	-			-	-	_			
	11	Engine stalls-after start/at idle	-		-		_	_	-			
	12	Cranks normally but will not start			-	_	_	_	-			
	13	Engine runs rough/rollin g idle	×	×	_	_	_	_	_			
	14	Fast idle/runs on		-	_	-	-	_	-			
	15	Low idle/stalls during deceleration		-	_	_	_	_	_			
	16	Engine stalls/quits, engine runs rough, misses, buck/jerk, hesitation/st umble, surges	-	-	-	-	_	-	-			
	17	Lack/loss of power- acceleration /cruise		×	_	×	×	_	-			
	18	Knocking/pi nging- acceleration /cruise	_	-	_	_	_	_	_			
	19	Poor fuel economy	-	-	-	_	_	_	-			

		Control system (PCM input signal)									
Troubleshooting it	em	Refrigerant pressure sensor			Check connector	Prako ewitch (No. 1 cignal)		Brake switch			
		High input	Low input	Open or short circuit in signal circuit	Open circuit	Always on	Always off	Always on			
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	- 4	9-7	-	_	-	-	-			
10	Hard to start/long crank/errati c start/erratic crank			_	-	-	_	_			
11	Engine stalls-after start/at idle	7	_	_	_	_	-	-			
12	Cranks normally but will not start	_	_	_	_	_	_	-			
13	Engine runs rough/rollin g idle	-	_	_	_	_	_	-			
14	Fast idle/runs on	-	_	_	_	_	_	_			
15	Low idle/stalls during deceleration	-	-	-	-	_	-	_			

		Control system (PCM output signal)									
Troubleshooting item		A/C relay circuit			Generator control signal	Starter relay circuit					
		Open circuit in circuit on coil side	Circuit on switch side constantly on	Circuit on switch side constantly off	Open or short circuit	Open circuit in circuit on coil side	Circuit on switch side constantly on	Circuit on switch side constantly off			
par filt ind ligh illu fre me rel. acc n c in c par filt ind	licator ht liminated quently/ essage ated to cumulatio condition diesel rticulate	-	-	-	-		_	_			
par filt ind ligh flas 4 sag die par filt ma	licator ht shes/mes ge related esel rticulate	-			_	_	_				
Wr ind ligh illu 5 me rel sec ind	ench licator		-	_	_	_	_	_			
wa ligh illu me 6 rel- veh sys ma ind	ster rning ht iminated/ essage ated to hicle stem alfunction licated in play	-	-	_	_	_	_	-			

		Control system (PCM output signal)									
Troubleshooting ite	roubleshooting item		A/C relay circuit			Starter relay circuit					
			Circuit on switch side constantly on	Circuit on switch side constantly off	Open or short circuit	Open circuit in circuit on coil side	Circuit on switch side constantly on	Circuit on switch side constantly off			
30	SCR system warning indication turned on or flashes/mes sage related to SCR system indicated in display	_	×	_	-	-	_	_			
31	SCR system warning indication turned on/[Overfille d DEF] indicated in display	_	×			-	_	_			

×: Applicable -: Not applicable

		Control system (PCM output signal)								
		Glow control module	A/F sensor heater							
Troubleshooting its	em em	Open circuit in power supply circuit	Control signal circuit constantly energizes (FET malfunction)	Control signal circuit always off	Open circuit in ground circuit	Always on	Always off			
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	_	_	_	_	_	-			

		Mechanical									
Troubleshooting iter	m	Each engine interna	l part								
modules moduling itel	"	Large mechanical resistance	Deviation in valve timing	High compression pressure	No compression in specific cylinder	No compression in all cylinders	Bad compression in specific cylinder	Bad compression in all cylinders			
3	Diesel particulate filter indicator light illuminated frequently/ message related to accumulatio n condition in diesel particulate filter indicated in display	_	_	_	-		_				
4	Diesel particulate filter indicator light flashes/mes sage 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	_	_	-	_	_	_	_			

		Mechanical									
Troubleshooting ite	e m	Each engine internal part									
		Large mechanical resistance	Deviation in valve timing	High compression pressure	No compression in specific cylinder	No compression in all cylinders	Bad compression in specific cylinder	Bad compression in all cylinders			
30	SCR system warning indication turned on or flashes/mes sage related to SCR system indicated in display	_	_	_	_	-	_	_			
31	SCR system warning indication turned on/[Overfille d DEF] indicated in display	_	-	-			-	-			

×: Applicable-: Not applicable

Troubleshooting item		Mechanical						
		Blow-by heater		Engine oil solenoid valve				Belts for engine accessories
		Always on	Always off	Open circuit in drive circuit	Short circuit in drive circuit	Valve stuck open	Valve stuck close	Slippage
1	Blown fuses	-	-	_	-	-	-	-
2	Check engine light illuminates	-	×	×	×	×	×	×
3	Diesel particulate filter indicator light illuminated frequently/ message related to accumulatio n condition in diesel particulate filter indicated in display	_	_	_	_	_	_	_