

2001 MY for Transmission Fluid Temp. Sensor "A" Performance Monitor (P0711)

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MONITOR STRATEGY

Required sensors/Components	Main	ATF temperature sensor
	Sub	None
Frequency of operation	Continuous	
Duration	Less than 10 sec.	
MIL operation	2 driving cycles	
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

Item	Specification	
	Minimum	Maximum
The monitor will run whenever the following DTCs are not present.		
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Engine family	Item	Specification	
		Minimum	Maximum
1MZ-FE, 2AZ-FE	Rationality check (A)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,000 sec. or more	–
	Driving distance after engine start	9 km (6 mile) or more	–
	IAT (12 sec. after engine start)	–10 °C (14 °F) or more	–
	ECT (12 sec. after engine start)	–10 °C (14 °F) or more	–
	Rationality check (B)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,000 sec. or more	–
	Driving distance after engine start	15 km (9 mile) or more	–
	IAT (12 sec. after engine start)	–15 °C (5 °F) or more	–
	ECT (12 sec. after engine start)	–15 °C (5 °F) or more	–
3UZ-FE, 2JZ-GE	Rationality check (A)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,100 sec. or more	–
	Driving distance after engine start	9 km (6 mile) or more	–
	IAT (12 sec. after engine start)	–10 °C (14 °F) or more	–
	ECT (12 sec. after engine start)	–10 °C (14 °F) or more	–
	Rationality check (B)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,100 sec. or more	–
	Driving distance after engine start	16 km (10 mile) or more	–
	IAT (12 sec. after engine start)	–15 °C (5 °F) or more	–
	ECT (12 sec. after engine start)	–15 °C (5 °F) or more	–

Component T/M Inputs – Transmission Temp. Sensor

2ZZ-GE	Rationality check (A)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,000 sec. or more	–
	Driving distance after engine start	9 km (6 mile) or more	–
	IAT (12 sec. after engine start)	–10 °C (14 °F) or more	–
	ECT (12 sec. after engine start)	–10 °C (14 °F) or more	–
	Rationality check (B)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,000 sec. or more	–
	Driving distance after engine start	15 km (9 mile) or more	–
	IAT (12 sec. after engine start)	–15 °C (5 °F) or more	–
	ECT (12 sec. after engine start)	–15 °C (5 °F) or more	–
1ZZ-FE	Rationality check (A)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,000 sec. or more	–
	Driving distance after engine start	9 km (6 mile) or more	–
	IAT (12 sec. after engine start)	–10 °C (14 °F) or more	–
	ECT (12 sec. after engine start)	–10 °C (14 °F) or more	–
	Rationality check (B)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,000 sec. or more	–
	Driving distance after engine start	15 km (9 mile) or more	–
	IAT (12 sec. after engine start)	–15 °C (5 °F) or more	–
	ECT (12 sec. after engine start)	–15 °C (5 °F) or more	–
1NZ-FE	Rationality check (A)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,000 sec. or more	–
	Driving distance after engine start	9 km (6 mile) or more	–
	IAT (12 sec. after engine start)	–10 °C (14 °F) or more	–
	ECT (12 sec. after engine start)	–10 °C (14 °F) or more	–
	Rationality check (B)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,000 sec. or more	–
	Driving distance after engine start	15 km (9 mile) or more	–
	IAT (12 sec. after engine start)	–15 °C (5 °F) or more	–
	ECT (12 sec. after engine start)	–15 °C (5 °F) or more	–

1AZ-FE	Rationality check (A)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,000 sec. or more	–
	Driving distance after engine start	9 km (6 mile) or more	–
	IAT (12 sec. after engine start)	–15 °C (5 °F) or more	–
	ECT (12 sec. after engine start)	–15 °C (5 °F) or more	–
	Rationality check (B)		
	Engine coolant temperature	–15 °C (5 °F) or more	–
	Time after engine start up	1,000 sec. or more	–
	Driving distance after engine start	15 km (9 mile) or more	–
	IAT (12 sec. after engine start)	–15 °C (5 °F) or more	–

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
1MZ-FE, 2AZ-FE, 2ZZ-GE, 1AZ-FE	Rationality check (A) or (B)	
	Transmission fluid temperature	10 °C (50 °F) or more
3UZ-FE, 2JZ-GE	Rationality check (A) or (B)	
	Transmission fluid temperature	Less than –4 °C (25 °F) (3 sec. or more)
1ZZ-FE, 1NZ-FE	Rationality check (A) or (B)	
	Transmission fluid temperature	Less than 20 °C (68 °F)