

2003 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	3 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.		See page In-39	
Engine family	Item	Specification	
		Minimum	Maximum
2UZ-FE	Condition (A)		
	Engine coolant temperature	-10 °C (50 °F) or more	-
	Time after engine start up	1,100 sec. or more	-
	Transmission fluid temperature sensor circuit	Not circuit malfunction	
	ECT sensor circuit	Not circuit malfunction	
	IAT sensor circuit	Not circuit malfunction	
	Condition (B)		
	Driving distance after engine start	9 km (6 mile) or more	-
	IAT (12 sec. after engine start)	-20 °C (-4 °F) or more	-
	ECT (12 sec. after engine start)	-20 °C (-4 °F) or more	-
2JZ-GE, 3UZ-FE	Condition (A)		
	Engine coolant temperature	-15 °C (5 °F) or more	-
	Time after engine start up	1,100 sec. or more	-
	Transmission fluid temperature sensor "A" circuit	Not circuit malfunction	
	Condition (B)		
	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	-

Component T/M Inputs – Transmission Temp. Sensor

2ZZ-GE, 2AZ-FE, 1AZ-FE, 1MZ-FE (ES300, CAMRY), 1ZZ-FE (CELICA)	Condition (A)		
	Engine coolant temperature	-15 °C (5 °F) or more	-
	Time after engine start up	1,000 sec. or more	-
	Transmission fluid temperature sensor "A" circuit	Not circuit malfunction	
	ECT sensor circuit	Not circuit malfunction	
	IAT sensor circuit	Not circuit malfunction	
	Condition (B)		
	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	-
1MZ-FE (RX300, HIGH LANDER)	Condition (A)		
	Engine coolant temperature	-15 °C (5 °F) or more	-
	Time after engine start up	1,000 sec. or more	-
	Transmission fluid temperature sensor "A" circuit	Not circuit malfunction	
	ECT sensor circuit	Not circuit malfunction	
	IAT sensor circuit	Not circuit malfunction	
	Condition (B)		
	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	-
1ZZ-FE (MATRIX 4WD)	Condition (A)		
	Engine coolant temperature	-15 °C (5 °F) or more	-
	Time after engine start up	1,000 sec. or more	-
	Transmission fluid temperature sensor circuit	Not circuit malfunction	
	ECT sensor circuit	Not circuit malfunction	
	IAT sensor circuit	Not circuit malfunction	
	Condition (B)		
	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	-
1NZ-FE	Condition (A)		
	Engine coolant temperature	-15 °C (5 °F) or more	-
	Time after engine start up	1,000 sec. or more	-
	Transmission fluid temperature sensor circuit	Not circuit malfunction	
	ECT sensor circuit	Not circuit malfunction	
	IAT sensor circuit	Not circuit malfunction	
	Condition (B)		
	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	-

TYPICAL MALFUNCTION THRESHOLDS

Engine family	Detection criteria	Threshold
2UZ-FE	(A) & (B)	
	Transmission fluid temperature	23 °C (73 °F) or more (THO = -20 °C (-4 °F) at engine start) (Conditions vary with THO at engine start) *THO: Transmission fluid temperature
2JZ-GE, 3UZ-FE	(A) & (B)	
	Transmission fluid temperature	Less than -4 °C (25 °F)
1NZ-FE, 2ZZ-GE, 2AZ-FE, 1AZ-FE, 1MZ-FE	(A) & (B)	
	Transmission fluid temperature	Less than 10 °C (50 °F)
1ZZ-FE	(A) & (B)	
	Transmission fluid temperature	Less than 20 °C (68 °F)