

2002 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	3UZ-FE (SC430)	Less than 10 sec.
	Except 3UZ-FE (SC430)	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
1MZ-FE, 1AZ-FE, 2AZ-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	-
3UZ-FE (SC430)	Condition (A)		
	Engine coolant temperature	-15 °C (5 °F) or more	-
	Time after engine start up	1,100 sec. or more	-
	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	-

3UZ-FE (LS430, GS430)	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 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	-
2JZ-GE	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 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	-
2ZZ-GE	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	-
1ZZ-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	-

Component T/M Inputs – Transmission Temp. Sensor

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
1MZ-FE, 1AZ-FE, 2AZ-FE, 2ZZ-GE	(A) & (B)	
	Transmission fluid temperature	Less than 10 °C (14 °F)
3UZ-FE (SC430)	(A) & (B)	
	Transmission fluid temperature	Less than –4 °C (25 °F) (3 sec. or more)
2JZ-GE, 3UZ-FE (LS430, GS430)	(A) & (B)	
	Transmission fluid temperature	Less than –4 °C (25 °F)
1ZZ-FE, 1NZ-FE	(A) & (B)	
	Transmission fluid temperature	Less than 20 °C (68 °F)