

Subject		Market	
Engine Coolant Temperature Gauge Diagnosis		USA	
Service Category	Section		
Vehicle Interior	Meter/Gauge/Display		
Applicability			
16-18 MY RX350/RX450h/ES350/ES300h16-18 MY RX350/RX450h/ES350/ES300h			

APPLICABLE VEHICLES

2016-2018	RX450H	2016-2018	ES300H
2016-2018	RX350	2016-2018	ES350

CONDITION

In some cases, customers may report the engine coolant temperature gauge on the combination meter intermittently reading max hot, or “in the red zone,” (Fig.1) on a vehicle with no other symptoms of overheating.



Fig. 1

RECOMMENDATIONS

If the condition of your vehicle matches the condition described on this document:

1. Keep IG ON and
 - a. Take video and pictures showing the engine coolant temperature gauge position and any warning messages on the Multi Information Display
 - b. Confirm engine coolant temperature in Techstream combination meter data list (Fig.2) and engine data list (Fig.3) and take snapshot
 - c. Measure engine coolant temperature at upper radiator hose and take picture with visual infrared thermometer (if available)
 - d. Turn IG Off
2. Create a TAS case and contact TAS and provide details prior to the repair. If it's a weekend or holiday continue with diagnosis and repair, save all parts and details, contact TAS on the next available work day and review details with TAS engineer.
 - a. When creating a TAS case:
 - i. Use the following case coding to ensure it is directed to the Electrical group: Vehicle Interior + Meter/Gauge/Display + Temp Gauge + Abnormal Operation
 - ii. Attach Pictures, Videos, and Techstream File to TAS Case

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RECOMMENDATIONS

System Select | Stored Data | **Combination Meter Live**

2017 RX350
2GR-FKS
014470 mile
2T2ZZMCA8HC035200

Trouble Codes
Data List
Active Test
Monitor
Utility
Dual Data List

Parameter	Value	Unit
ODO/TRIP Change SW	OFF	
Vehicle Speed Meter	0	MPH
Engine Rpm	700	rpm
Coolant Temperature	175.1	F
Washer Switch	OFF	
Oil Level SW	OFF	
Light Control Up Switch	OFF	
Light Control Down Switch	OFF	
+B Voltage Value	13.8	V
Fuel Input	13.7	G
Ambient Temperature	66.2	F
Multi Switch (Up)	OFF	
Multi Switch (Down)	OFF	
Multi Switch (Menu)	OFF	
Multi Switch (Enter)	OFF	
Multi Switch (Right)	OFF	
Multi Switch (Left)	OFF	
2nd-Row Seatbelt Buckle (R)	ON	
2nd-Row Seatbelt Buckle (L)	ON	
2nd-Row Seatbelt Buckle (C)	ON	

Fig. 2

System Select | Stored Data | **Engine Live**

2017 RX350
2GR-FKS
014470 mile
2T2ZZMCA8HC035200

Trouble Codes
Data List
Active Test
Monitor
Utility

Parameter	Value	Unit
Vehicle Speed	0	MPH
Engine Speed	694	rpm
Calculate Load	16.4	%
Vehicle Load	13.3	%
Mass Air Flow Sensor	2.92	gm/sec
Atmospheric Pressure	-0	psi(gauge)
Coolant Temperature	187	F
Intake Air Temperature	102	F
Engine Run Time	360	sec
IG-ON Coolant Temperature	136.6	F
Initial Engine Coolant Temperature	135.5	F
IG-ON Intake Air Temperature	109.6	F
Initial Engine Intake Air Temperature	111.7	F
Battery Voltage	13.6	V
BATT Voltage	13.623	V
Accelerator Position	0.0	%
Accelerator Position Sensor No. 1 Voltage %	15.6	%
Accelerator Position Sensor No. 2 Voltage %	31.7	%

Fig. 3

LINK REFERENCES

This Tech Tip does not contain any link references