

Subject		Market	
<b>Engine Coolant Temperature Gauge Diagnosis</b>		USA	
Service Category	Section		
Vehicle Interior	Meter/Gauge/Display		
Applicability			
16-18 MY RX350/RX450h/ES350/ES300h16-2018 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  2T2ZZMCABHC035200  <a href="#">Trouble Codes</a> <a href="#">Data List</a> <a href="#">Active Test</a> <a href="#">Monitor</a> <a href="#">Utility</a> <a href="#">Dual Data List</a>	Parameter	Value	Unit
	ODO/TRIP Change SW	OFF	
	Vehicle Speed Meter	0	MPH
	Engine Rpm	700	rpm
	<b>Coolant Temperature</b>	<b>175.1</b>	<b>F</b>
	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  2T2ZZMCABHC035200  <a href="#">Trouble Codes</a> <a href="#">Data List</a> <a href="#">Active Test</a> <a href="#">Monitor</a> <a href="#">Utility</a>	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)
	<b>Coolant Temperature</b>	<b>187</b>	<b>F</b>
	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