

# Tech Tip L-TT-0242-18

May 18, 2018

# **Engine Coolant Temperature Gauge Diagnosis**

USA

Service Categor

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

Expires on

11/18/2018

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16-18 MY RX350/RX450h/ES350/ES300h	

#### RECOMMENDATIONS

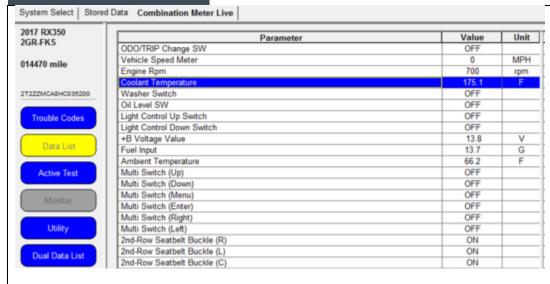


Fig. 2

2017 RX350	Parameter	Value	Unit
2GR-FKS	Vehicle Speed	0	MPH
014470 mile	Engine Speed	694	rpm
	Calculate Load	16.4	%
	Vehicle Load	13.3	%
2T2ZZMCA8HC035200	Mass Air Flow Sensor	2.92	gm/sec
Trouble Codes	Atmospheric Pressure	-0	psi(gau e)
	Coolant Temperature	187	F
Data List	Intake Air Temperature	102	F
	Engine Run Time	360	sec
	IG-ON Coolant Temperature	136.6	F
Active Test	Initial Engine Coolant Temperature	135.5	F
	IG-ON Intake Air Temperature	109.6	F
Monitor	Initial Engine Intake Air Temperature	111.7	F
	Battery Voltage	13.6	V
	BATT Voltage	13.623	V
Utility	Accelerator Position	0.0	%
	Accelerator Position Sensor No.1 Voltage %	15.6	%
	Accelerator Position Sensor No 2 Voltage %	31.7	96

Fig. 3

## **LINK REFERENCES**

This Tech Tip does not contain any link references