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|---|---------------------|--------|--|
| Subject | | Market | |
| Engine Coolant Temperature Gauge Diagnosis | | USA | |
| Service Category | Section | | |
| Vehicle Interior | Meter/Gauge/Display | | |
| Applicability | | | |
| Applicable Models Models | | | |

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 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 2T2ZZMCABHC035200 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