

# Remote Engine Starter (RES) Cold Temperature Operation Diagnostic Tips

**Service Category** Engine/Hybrid System

**Section** Starting

**Market** USA

Toyota Supports  
 ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2005 – 2009	Avalon	
2007 – 2010	Camry, Camry HV	
2009 – 2010	Corolla, Matrix	
2008 – 2009	Highlander, Highlander HV, Land Cruiser, Sequoia	
2006 – 2009	RAV4	
2007 – 2009	Tundra	
2009	Venza	

## Introduction

Some vehicles operated in extremely cold temperatures may exhibit a condition where the Remote Engine Starter (RES) does not function.

Before RES diagnosis, confirm with the customer the ambient temperature when the malfunction was experienced.

The RES system was designed to operate at temperatures above  $-22^{\circ}\text{F}$  ( $-30^{\circ}\text{C}$ ). Non-operation of the RES system below this threshold should be considered a normal condition.

## Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

## Remote Engine Starter (RES) Cold Temperature Operation Diagnostic Tips

---

### Diagnostic Procedure

If the customer has experienced a RES malfunction above  $-22^{\circ}\text{F}$  ( $-30^{\circ}\text{C}$ ), proceed with diagnosis referencing the applicable troubleshooting guide in the Technical Information System (TIS), Accessory tab, *Accessory Diagnostic Guide*:

- 2005 – 2009 Avalon:  
["2005-2009 Avalon TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. D"](#)
- 2007 – 2010 Camry:  
["2007-2010 Camry TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide"](#)
- 2007 – 2010 Camry HV:  
["2007-2010 Camry HV TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. A"](#)
- 2009 – 2010 Corolla/Matrix:  
"2009-2010 [Corolla](#) / [Matrix](#) TVIP V4 Remote Engine Starter (RES) Troubleshooting Guide Rev. B"
- 2008 – 2009 Highlander:  
["2008-2009 Highlander TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. A"](#)
- 2008 – 2009 Highlander HV:  
["2008-2009 Highlander HV TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide"](#)
- 2008 – 2009 Land Cruiser:  
["2008-2009 Land Cruiser TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide"](#)
- 2006 – 2009 RAV4:  
["2006-2009 RAV4 TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. B"](#)
- 2008 – 2009 Sequoia:  
["2008-2009 Sequoia TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. B"](#)
- 2007 – 2009 Tundra:  
["2007-2010 Tundra TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. A"](#)
- 2009 Venza:  
["2009 Venza TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. B"](#)

**For 2007 Camry, Camry HV, Tundra, and 2006 – 2007 RAV4:**

Refer also to TSB [T-SB-0070-08](#), "Remote Engine Starter (RES) Cold Temperature Operation".