

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
2010	4Runner, Prius	
2005 – 2011	Avalon	
2007 – 2011	Camry, Camry HV	
2009 – 2010	Corolla, Matrix, Venza	
2008 – 2010	Highlander, Highlander HV, Land Cruiser, Sequoia	
2006 – 2010	RAV4	
2011	Sienna	
2007 – 2010	Tundra	

TSB REVISION NOTICE

March 9, 2010 Rev1:

- **Applicability has been updated to include applicable 2010 – 2011 model year vehicles.**

Any previous printed versions of this service bulletin should be discarded.

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°F (-30°C). Non-operation of the RES system below this threshold should be considered a normal condition.

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Warranty Information

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

Diagnostic Procedure

If the customer has experienced a RES malfunction above –22°F (–30°C), proceed with diagnosis referencing the applicable troubleshooting guide in the Technical Information System (TIS), Accessory tab, *Accessory Diagnostic Guide*:

- 2010 4Runner (with Smart Key):
["2010 4Runner TVIP V4 Remote Engine Starter w/ Smart Troubleshooting Guide"](#)
- 2010 4Runner (without Smart Key):
["2010 4Runner TVIP V4 Remote Engine Starter w/o Smart Troubleshooting Guide"](#)
- 2005 – 2011 Avalon:
["2005-2011 Avalon TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. D"](#)
- 2007 – 2011 Camry (with Smart Key):
["2007-2011 Camry TVIP V4 Remote Engine Starter \(RES\) \(with Smart\) Troubleshooting Guide Rev. B"](#)
- 2007 – 2011 Camry (without Smart Key):
["2007-2011 Camry TVIP V4 Remote Engine Starter \(RES\) \(without Smart Key\) Troubleshooting Guide Rev. B"](#)
- 2007 – 2011 Camry HV:
["2007-2011 Camry HV TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. A"](#)
- 2009 – 2010 Corolla:
["2009-2010 Corolla TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. C"](#)
- 2008 – 2010 Highlander (with Smart Key):
["2008-2010 Highlander TVIP V4 Remote Engine Starter \(RES\) w/ Smart Troubleshooting Guide Rev. A"](#)
- 2008 – 2010 Highlander (without Smart Key):
["2008-2010 Highlander TVIP V4 Remote Engine Starter \(RES\) w/o Smart Troubleshooting Guide Rev. C"](#)
- 2008 – 2010 Highlander HV:
["2008-2010 Highlander HV TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide"](#)
- 2008 – 2010 Land Cruiser:
["2008-2010 Land Cruiser TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide"](#)
- 2009 – 2010 Matrix:
["2009-2010 Matrix TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. C"](#)

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Diagnostic Procedure (Continued)

- 2010 Prius:
["2010 Prius TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide"](#)
- 2006 – 2009 RAV4:
["2006-2009 RAV4 TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. B"](#)
- 2009 – 2010 RAV4 (with Smart Key):
["2009-2010 RAV4 w/ Smart TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. B"](#)
- 2009 – 2010 RAV4 (without Smart Key):
["2009-2010 RAV4 w/o Smart TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. B"](#)
- 2008 – 2010 Sequoia:
["2008-2010 Sequoia TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. B"](#)
- 2011 Sienna:
["2011 Sienna TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. C"](#)
- 2007 – 2010 Tundra:
["2007-2010 Tundra TVIP V4 Remote Engine Starter \(RES\) Troubleshooting Guide Rev. A"](#)
- 2009 – 2010 Venza (with Smart Key):
["2009-2010 Venza TVIP V4 Remote Engine Starter \(RES\) With Smart Troubleshooting Guide Rev. C"](#)
- 2009 – 2010 Venza (without Smart Key):
["2009-2010 Venza TVIP V4 Remote Engine Starter \(RES\) Without Smart Troubleshooting Guide Rev. C"](#)

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".