

Subject

**MIL "ON" - (P0335 and/or P0340) Due To Low Battery Voltage**

Market

**USA**

Service Category

**Engine/Hybrid System**

Section

**Engine Control**

Applicability

**All Vehicles**
**APPLICABLE VEHICLES**

2001-2015	Highlander	2001-2015	Prius
2000-2015	Tundra	1998-2015	Sienna
2012-2014	RAV4 EV	1994-1998	T100
1995-2011, 2013-2015	Land Cruiser	1996-2015	4Runner
2001-2015	Sequoia	1995-2015	Avalon
2009-2015	Venza	2004-2015	Yaris
1995-2015	Tacoma	1996-2015	Corolla
2007-2014	FJ Cruiser	1994-2015	Camry
1996-1998	Supra	2003-2011	Matrix
2013-2015	Avalon HV	1996-1999	Paseo
2006-2015	Hiace	1995-1999	Tercel
2012-2015	Prius V	2000-2005	Echo
1996-2015	RAV4	2000-2005	MR2 Spyder
2012-2015	Prius PHV	1996-2005	Celica
1999-2008, 2010	Solara	2012-2015	Prius C
1994-1997	Previa	2012-2015	Highlander HV
2012-2015	Camry HV		

**CONDITION**

Low battery voltage can contribute to a MIL "ON" condition for P0335 (Crankshaft Position Sensor Circuit) and/or P0340 (Camshaft Position Sensor Circuit) due to inconsistent rotational speed of the engine's crankshaft.

**RECOMMENDATIONS**

- Review the vehicle's Freeze Frame Data (FFD) and verify if the battery voltage was below the minimum specification of 11 volts when the DTC was set.
- If battery voltage was below the minimum specification, determine cause and repair accordingly.
- If the battery voltage is within specification, refer to the appropriate repair manual procedure for the applicable DTC.
- The following Freeze Frame Data example indicates battery voltage was only ~6.3 volts when DTC P0335 was set.

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**RECOMMENDATIONS**

**Dealer:**

**Mil Log Type:** DTCFFD

**Log Timestamp:**

**DTC Code:** P0335

**Information Code:**

**Info Code / Freeze Frame Data**

Parameter	-3	-2	-1	0	1	Units
Vehicle Speed	0	0	0	0	0	MPH
Engine Speed	0	0	0	0	0	rpm
Calculate Load	0.0	0.0	0.0	0.0	0.0	%
Vehicle Load	0.0	0.0	0.0	0.0	0.0	%
MAF	0.39	0.39	0.39	0.39	0.40	gm/sec
Atmosphere Pressure	-0	-0	-0	-0	-0	psi(gauge)
Coolant Temp	111	111	111	111	111	F
Intake Air	97	97	97	97	97	F
Ambient Temperature	84	84	84	84	84	F
Engine Run Time	0	0	0	0	0	s
Initial Engine Coolant Temp	111.7	111.7	111.7	111.7	111.7	F
Initial Intake Air Temp	97.2	97.2	97.2	97.2	97.2	F
<b>Battery Voltage</b>	<b>6.445</b>	<b>6.386</b>	<b>6.347</b>	<b>6.328</b>	<b>6.328</b>	<b>V</b>
Accel Sens. No.1 Volt %	15.6	15.6	15.6	15.6	15.6	%
Accel Sens. No.2 Volt %	31.7	31.7	31.7	31.7	31.7	%
Throttle Sensor Volt %	15.6	15.6	15.6	15.6	15.6	%
Throttli Sensor #2 Volt %	47.0	47.0	47.0	47.0	47.0	%
Throttle Sensor Position	0.0	0.0	0.0	0.0	0.0	%
Throttle Motor DUTY	15.6	15.6	15.6	15.6	15.6	%