



Preliminary Information

PIC5442C (EREV) Informational - Testing And Charging Of The Absorbent Glass Mat (AGM) 12 Volt Battery

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Cadillac	ELR	2014 - 2016	All	All	All	All
Chevrolet	Spark	2014 - 2015	All	All	All	All
Chevrolet	Volt	2011 - 2019	All	All	All	All

Supersession Statement

This PI was superseded to update Models and Recommendation/Instructions Please discard PIC5442B.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition / Concern

The Cadillac ELR, Chevrolet Spark, andthe Chevrolet Volt are all equipped with a AGM Battery (Absorbent Glass Mat Battery)

This is similar to current vehicle lead acid flood batteries, except they use glass mats that absorb electrolytes that arepressed between the plates instead of immersing the plates in electrolytes.

This allows a smaller lighter battery with the same amount of power ad is less susceptible to heat.

The maximum permissible voltage allowed for the absorbent glass mat battery is 14.80Vts (at room temperature).

Recommendations / Instructions

Be sure when using any battery charger that it is set up properly to charge an AGM battery

The preferred charger is the EL-50313 Midtronics GR8 battery charger/tester for use during a PDI, calibration updates or any otherrepairs that requires use of a battery charger

Make sure to select the proper battery type, AGM and CCA rating during charger set up. The Cadillac ELR and the Chevy Volt have a CCA rating of 600 and the Chevy Spark has a CCA rating of 520.

Selecting the wrong type of battery and CCA rating could cause misdiagnosis and or over charging of the battery which couldlead to inadvertent battery replacement or battery damage.

Also, when load testing the AGM battery make sure to connect GR8 tester directly to the battery and not the remote connection underthe hood.

Note: When chargingthe Chevy Volt, it is also recommended to connect the charger directly to the battery if the battery is accessible.

If the battery is not accessible such as a dead battery and the cargo area can not be opened, it is OK to charge or jump startfrom the remote access area under the hood as long as 40 amps is not exceeded by the charging device.

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.



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