



# TECHNICAL SUPPORT BULLETIN



SUBJECT: Genisys EVO Battery Charging  
EQUIP. AFFECTED: EVO Hardware Version of  
Genisys  
ACTION REQUIRED: Read and Follow

NO. 561293  
DATE: 4/29/2011  
AUTHOR: D. Jordahl

This document serves to educate our customers on the proper battery charging and battery life expectations for the Genisys EVO platform.

*Important note: The Genisys battery design capabilities are to assist the user so that when a vehicle power source is switched off for under hood testing purposes or if the vehicle is started, the unit will not shut down, thus removing the need to power the unit back on and rekey the vehicle information into the tool software. The battery is not designed to power the tool for extended use off the vehicle's power supply.*

The Genisys EVO unit is equipped with a quick charge feature. When the AC adapter is used, this feature allows a depleted battery to be fully charged in approximately three (3) hours. EVO will perform this charge feature regardless whether the unit is turned on or off. Additionally, the EVO unit will charge the main battery anytime it is connected to a vehicle power supply, although the charge rate is less than with the AC adapter.

The expected run-time of a new, fully charged battery is approximately one and one-half (1 ½) hours without any external power being supplied to the unit.

The expected shelf life of a new, fully charged battery is approximately three to five (3 -5) days due to battery technology and the power management strategy used in EVO.

The Genisys EVO unit was designed to lengthen the life and usability of the main battery, lessening many detrimental effects to the battery. This new EVO technology allows for the charger to be connected to the unit any time the unit is not in use. Because of this, it is recommended to connect the AC adapter to the EVO unit any time the unit is not being used to provide a fully charged battery each time the unit is used.



To provide more clarity on the Genisys EVO battery, the three points below provides greater detail.

- Battery life-span is defined at the overall time the battery is in a serviceable state, e.g. the real age of the battery measured in time units, before it will no longer accept a charge or the voltage supplied by the battery is severely compromised, providing a unit run-time of a minute or two before shutting down.
- Battery life-span is directly related to the frequency of charge/discharge cycles and the length of charge applied to the battery. There is no formula that will provide a real life-span of the battery; however, if the tool usage and charge sequences outlined by SPX are adhered to, the battery may last for several years before it requires replacement.
- Genisys battery chemistry is Nickel-Metal Hydride (NiMH) and is chemically the same as a typical over-the-counter NiMH rechargeable battery. As with all rechargeable batteries, they will eventually 'wear out' due to repeated charge/discharge cycles and become unusable, necessitating replacement.

