



# HAWKER®

## Headlines

Spring 2017 edition

### Quick Tips!



Not sure how to properly **INSPECT** a Hawker® ARMASAFE™ Plus 6TAGM battery?

No problem...watch the video at [www.hawkerplus.com](http://www.hawkerplus.com) under the **NEW** Hawker® Helpdesk tab.



### Answer to question from last issue:

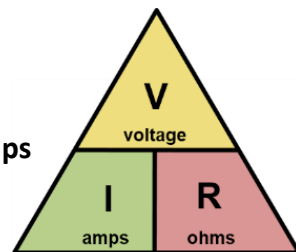
Why is just measuring voltage inadequate for testing a Hawker® ARMASAFE™ Plus battery?

Well, generally, *that's true for all lead acid batteries!* And, here's why...

According to Ohm's Law:

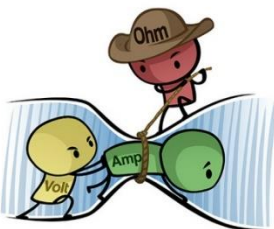
$$\text{Voltage} \div \text{Resistance} = \text{Amps (Current)} \text{ or simply } V/R = I$$

So, for a New Hawker® ARMASAFE™ Plus battery:  
12.9 volts ÷ 0.0017 ohms (internal resistance) = 7588 max amps  
and about 1/6 of max amps = CCAs = 1265  
(though we publicize 1225 CCAs)



but

for a permanently **sulfated** battery that is charged:  
12.9 volts ÷ 0.645 ohms (internal resistance) = 20 max amps  
1/6 max amps = **about 3 CCAs**



In other words, it takes the same amount of voltage to push 3 CCAs through **380 times** more resistance!

So, while you have the **voltage**, there are **very few Cold Cranking Amps!**

### Did you know:



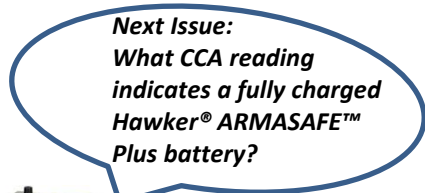
that your Hawker® ARMASAFE™ Plus 6TAGM battery is manufactured to strict military design and performance specifications?  
*It's true...MIL-PRF-32143C* (dated 9 Feb 16) is the most current edition. Need a copy? Contact us at 877-485-1472.



### Training:



Want on-site Battery Maintenance and Recovery Training ...but don't want to spend a lot?  
Well, contact your Hawker® FSR today for **FREE BMRT!**  
Oh, and did I mention that it's **FREE?** Yup, **FREE!**



**Next Issue:**  
What CCA reading indicates a fully charged Hawker® ARMASAFE™ Plus battery?

### Questions?

Visit our website at: [www.hawkerplus.com](http://www.hawkerplus.com)  
Call us at 877-485-1472



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