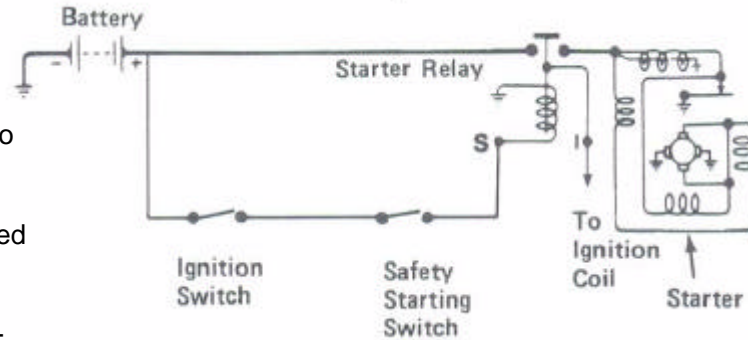


## Starter Performance Evaluation

### APPLICATION

Evaluation of starter motors involves measuring the voltage to the starter motor and currents of both the armature and field coil. The starter motor should be tested repeatedly to find problems by evaluating waveform data and measured values such as Peak - Peak and Average.



Voltage

Current

RPM



### SOLUTION

#### 1) History Memory

The DL708E will save up to 1,000 previous waveform displays and corresponding data. After acquisition, all waveform displays can be superimposed on the screen allowing engineers to quickly find trouble points.

#### 2) Measurements Saved as File and Exported to Excel

Measurements such as p-p and average can be made automatically on each waveform, and saved as an ASCII File. These measurement values can then be exported to a PC for further analysis.



The figure at left is an example of the History Mode display. All waveforms are superimposed on the screen. The selected waveform is highlighted with the remaining waveforms displayed as ghost images behind it. The data for the displayed waveforms are also saved for later analysis. These waveforms were captured over a one second time window at a sampling rate of 1kS/sec.