

	JFM Engineering, Inc.		<i>26 February 2003</i>
	Product Technical Bulletin		PB0301
Products Affected			
Product	Model	SN	NOTES
Superseder	III	From 0250-960-16517	New Features
MasterCharger	All	From 0303-803-00341	New Features
New Clock-Timer Board and additional Peak Charging Voltage function			

1.0 Introduction

- A new Clock-Timer circuit board replaces the original individual Clock and Timer circuit boards.
- A new Peak Voltage mode has been added to provide stopping the charge on a peak voltage.

2.0 Details

2.1 Clock-Timer Circuit Board

- The functions of the original Clock and Timer circuit boards are now combined in the new Clock-Timer circuit board. PN 9879903109
- All new units are wired for this new board and are mutually incompatible with the original set.
- Replacements for earlier units are: Clock, PN 9879903009 and Timer PN, 9879903010
- The Timer Speed Switch is now located on the Front Panel to the right of the Elapsed Time window.
- Performance specifications and method of Verification are identical to the original circuit boards.
- Total Time is extended to 79 (was 60)

2.2 New Peak Voltage Feature

- The Voltage Mode Switch (charge cycles only) now has two Peak Voltage positions. The first one is the original transfer from Main Charge to Topping Charge on a Peak Voltage. The second one provides for stopping the charge on a peak voltage anywhere in the charge cycle.
- The first one is most useful for the rapid charging of Nickel-Cadmium batteries and for the standard charging of Marathon's Micromaintenance batteries.
- The new mode is most useful for the slow (overnight at C/15) charging of sealed Lead-Acid batteries.
- Either mode, however, is applicable to either type of battery. It is imperative that the chart on page 19 of the manual be reviewed for the most appropriate settings of the Cell Selector Switch which acts as a Nominal Battery voltage selector for the Constant Voltage and Peak Voltage Charge Modes.

