



## NEW from the Battery Council International

### BCI's TECHNICAL MANUAL is now ready and available in both print and CD-ROM format

BCI has recently updated its **Technical Manual** to include the most current SAE Standards as well as the Industrial Battery Standards. The manual is for all users of automobile type lead acid batteries and some industrial batteries. Specific references to laboratory analyses and test methods for evaluation of battery performance, major component parts and raw materials used to manufacture these batteries are also included in the manual.

All BCI outlined test procedures were written by industry technical personnel who are members of the BCI Technical Committees. The manual provides a common means for manufacturers and their customers to describe and compare desired battery performance.

New also to the manual are the most current available SAE specifications, tests and procedures for batteries manufactured for Original Equipment (OE) purposes. The revisions are prepared by the SAE (Society of

Automotive Engineers) Storage Battery Subcommittee.

#### **The Sections of the Manual Include:**

- Section 0: Introduction, Safety Chapter, and Safe Booster Cable Operation
- Section 1: BCI Method for Assignment of Group Numbers
- Section 2: BCI Recommended Test Procedures for Battery Materials
- Section 3a: BCI Recommended Battery Materials Specifications, Valve Regulated Recombinant Batteries
- Section 3b: BCI Recommended Materials Specifications, Battery Separator Test Methods
- Section 4: BCI Recommended Storage Battery Specifications for Starting, Lighting and Ignition Types
- Section 5: BCI Recommended Specifications for Electric Vehicle Batteries
- Section 6: BCI Recommended Specifications for Constant Current Cycle Life Testing of Deep Cycle Batteries
- Section 7: BCI Recommended Specification for Cycle Life Testing of Batteries for Golf Cars
- Section 8: BCI Recommended Specification for Cycle Life Testing of Deep Cycle Marine/RV Batteries
- Section 9: BCI Battery Flame Retardant Venting Systems
- Section 10: Recommended Practices for Warning Messages, General Labeling & Marking and Shipping & Packaging
- Section 11: BCI Recommended Standardized Testing Methods for Polypropylene Resin
- Section 12: BCI Recommended Test Procedures for Lead Oxides
- Section 13: BCI Specification Reference for Standby Batteries
- Section 14: BCI Determination of Capacity of Lead-Acid Industrial Storage Batteries for Motive Power Service
- Section 15: BCI Life Cycle Testing of Lead-Acid Storage Batteries for Motive Power Service
- Section 16: BCI Standard for Deep Cycle Battery Chargers
- Section 17: BCI Procedures for Evaluating Plastic Jars and Covers for Motive Power Industrial Batteries
- Section 18: BCI Standard for Deep Cycle Fast/Battery Chargers
- Section 19: SAE Test Methods:
  - ❖ SAE J240 JUN1993 Life Test for Automotive Storage Batteries
  - ❖ SAE J537 JUN94 Storage Batteries
  - ❖ SAE J541 FEB89 Voltage Drop for Starting Motor Circuits
  - ❖ SAE J930 AUG84 Storage Batteries for Off-Road Self-Propelled Work Machines
  - ❖ SAE J539 MAR87 Voltages for Diesel Electrical Systems
  - ❖ SAE J1495 MAR92 Test Procedure for Battery Flame Retardant Venting Systems
  - ❖ SAE J2185 NOV 91 Life Test for Heavy-Duty Storage Batteries
- Section 20: BCI Recommended Procedures for Concentrated Sulfuric Acid for Use in Preparing Lead-Acid Battery Electrolyte

**Updates:** The manual is designed to allow for additional updates and revisions.

(See reverse side for additional information and ordering instructions)

**Battery Council  
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