

**Marathon Power Technologies Co**  
**Service Bulletin**

**SB# 041802-25**

**1. Summary**

The purpose of this service bulletin is to ensure the required minimum capacity of Marathon batteries after conditioning and prior to reinstallation on certain Boeing aircraft. Boeing has reviewed aircraft load requirements and concluded that the capacity test requirements after conditioning of 85% of the rated capacity does not meet the 30-minute emergency load requirement. Therefore the batteries described herein shall be tested at the next service interval and shall meet 100% of nameplate capacity to maintain airworthiness.

**2. Planning Information**

**A. Effectivity**

The Marathon batteries described in section (D) shall be serviced at the next scheduled maintenance interval per the Marathon applicable Component Maintenance Manual (CMM).

**B. Concurrent Requirements**

None

**C. Reason**

**i. Problem**

Boeing recently reviewed Marathon test steps as part of a load analysis in support of an aircraft modification, which adds a small load to the standby bus. The Boeing review determined that the 85% capacity allowed by the tests is insufficient to meet existing airplane certification requirements for standby power. Boeing load analysis, which is used for airplane certification, is based on 100% of rated capacity.

**ii. Cause**

Disparity between shop practices and aircraft requirements.

**iii. Solution**

Require minimum battery capacity of 100% of nameplate before returning to service.

**D. Description**

The following Marathon batteries must meet 100% of nameplate capacity when reconditioned per the applicable Marathon CMM.

**i. Models**

727 Series

| <b>MPTC Model</b> | <b>MPTC P/N</b> | <b>Boeing P/N</b> | <b>MPTC Manual</b> |
|-------------------|-----------------|-------------------|--------------------|
| CA-27-20          | 28111-003       | 10-60707-9        | BA-24-34-00        |
| CA-727-20         | 25582-003       | 10-60707-10       | BA-24-34-00        |
| KCA-727-20        | 29069-002       | 10-60707-11       | BA-24-34-00        |

**Marathon Power Technologies Co  
Service Bulletin**

**SB# 041802-25**

|              |           |             |             |
|--------------|-----------|-------------|-------------|
| CA-27-20C    | 28111-004 | 10-60707-15 | BA-24-34-00 |
| CA-727-20CR  | 25582-006 | 10-60707-16 | BA-24-34-00 |
| KCA-727-20CR | 29069-004 | 10-60707-17 | BA-24-34-00 |

737-100,200

| <b>MPTC Model</b> | <b>MPTC P/N</b> | <b>Boeing P/N</b> | <b>MPTC Manual</b> |
|-------------------|-----------------|-------------------|--------------------|
| CA-727-20         | 25582-003       | 10-60707-10       | BA-24-34-00        |
| CA-727-20CR       | 25582-006       | 10-60707-16       | BA-24-34-00        |

737-300,400,500

| <b>MPTC Model</b> | <b>MPTC P/N</b> | <b>Boeing P/N</b> | <b>MPTC Manual</b> |
|-------------------|-----------------|-------------------|--------------------|
| SP-747            | 30874-001       | 60B40017-9        | BA-24-34-02        |

**E. Compliance**

At the next scheduled maintenance battery check or within the next 12 months, which ever comes first.

**F. Approval**

This service bulletin has been reviewed by the Federal Aviation Administration (FAA). The changes specified in this service bulletin comply to all-applicable FAR's, and are FAA approved.

**G. Manpower**

There is no additional manpower required over the existing manpower required to perform the battery check at the required service interval.

**H. Weight and Balance**

No impact.

**I. Electrical Load Data**

The battery must meet 100% of the nameplate capacity when discharged at the "C" rate to be re-installed on the aforementioned aircraft

**J. Software Accomplishment Summary**

N/A

**K. Reference**

N/A

**L. Other Publications**

Marathon Instruction Manual BA-24-34-00 and BA-24-34-02.

**M. Intermixability or Interchangeability of Parts**

N/A

**Marathon Power Technologies Co**  
**Service Bulletin**

**SB# 041802-25**

**3. Material Information**

**A. Material Availability**

Marathon Maintenance/Instruction manuals can be obtained directly from Marathon Power Technologies Company or any authorized distributor:

Aviall

2527 Willowbrook Road  
Dallas, TX 75220  
Phone: 1-800-284-2551  
Fax: 1-800-329-2842

Aero Quality Sales

47 Harbor View Avenue  
Stamford, CT 06902  
Phone: 1-800-288-1954  
Fax: 203-351-8555

D+C Airparts

An Der Bruke  
64546 Morfelden-Walldorf  
Germany  
Phone: 49-(0)61-05-60-05  
Fax: 49-(0)61-05-57-66

Gelbyson

Via A. Albricci, 15  
00194 Roma  
Italy  
Phone: 39-06-363-04-761  
Fax: 39-06-32-97-337

Marathon Power Tech. Co.

8301 Imperial Drive  
Waco, Texas 76712  
Phone: 1-254-776-0650  
Fax: 1-254-776-6558

**B. Industry Support Information**

N/A

**C. Re-Identify Parts**

N/A

**D. Tooling**

N/A

**4. Instructions**

Follow standard battery servicing procedures as specified in BA-24-34-00 and BA-24-34-02 for the applicable battery type. Batteries must meet the minimum requirements for new batteries when discharged at the "C" rate for 60 minutes.



---

David B. Ginder  
Engineering Manager  
Marathon Power Technologies

4/18/2002

Date