

**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

MPTC Model	MPTC P/N	Boeing P/N	MPTC Manual
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

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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

MPTC Model	MPTC P/N	Boeing P/N	MPTC Manual
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

MPTC Model	MPTC P/N	Boeing P/N	MPTC Manual
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

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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