



**MASS SYSTEMS
A UNIT OF AMERON GLOBAL, INC.**

**TO: HOLDERS OF THE COMPONENT MAINTENANCE MANUAL
SUPPLEMENT 24600-2, DATED MAR 15/03**

REVISION NO. 2 DATED MAR 15/04

HIGHLIGHTS

THIS PUBLICATION HAS BEEN REPRINTED IN ITS ENTIRETY. REPLACE ALL PREVIOUSLY ISSUED COPIES OF THE SUPPLEMENT 24600-2.

The highlights of the revision are outlined below. The pages have been revised and maintain the format of ATA 100 and the AECMA Simplified English guidelines.

Chapter/Section and Page No.	Description of Change	Effectivity
All pages	Added new logo. Added revision date.	
Page RR-1	Added revision status and revision date.	
Page LEP-1	Revised page dates.	
Page 1	Revised hydrostatic test pressure to 2500-psig (17238 kPag).	

26-22-02

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SUPPLEMENT 24600-2**



MASS Systems

A Unit of AMERON GLOBAL, INC.

FIRE EXTINGUISHER, DUAL OUTLET

86-CUBIC INCH (1,41 LITER)

P/N 24600-2

SUPPLEMENT TO

COMPONENT MAINTENANCE MANUAL 26-22-02

TECHNICAL PROPERTIES AND

ILLUSTRATED PARTS LIST

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PMA PARTS NOTICE

MASS Systems, A Unit of Ameron Global, Inc. authorizes the use of FAA-PMA component parts approved for use on the fire extinguisher application.



RECORD OF REVISIONS

REV. NO.	ISSUE DATE	DATE FILED	BY
1	May 15/03	May 15/03	
2	Mar 15/04	Mar 15/04	

REV. NO.	ISSUE DATE	DATE FILED	BY



RECORD OF TEMPORARY REVISIONS

REV. NO.	PAGE NUMBER	ISSUE DATE	BY	DATE REMOVED	BY



SERVICE BULLETIN LIST

SERVICE BULLETIN	ISSUE DATE	DATE FILED	BY



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TECHNICAL PROPERTIES

Table 1

PROPERTY	SPECIFICATION
Description Part Number Nomenclature Complies With	24600-2 Fire Extinguisher, Single Outlet MIL-C-22284 and DOT-E-10440-1250
Functional Properties Internal Volume Extinguishing Agent Pressuring Gas	86-cubic inches (1,41 liter) Bromotrifluoromethane (CBrF ₃) Nitrogen (N ₂)
Pressure Data At 70°F (21°C) Charge Pressure Hydrostatic Test Pressure * Burst Pressure	600- to 625-psig (4137 to 4309 kPag) 2500-psig (17238 kPag) 3000-psig (20685 kPag) minimum
Ambient Temperature Range Thermal Safety Relief Temperature Range	-65°F to +165°F (-54°C to +74°C) 255°F to 259°F (124°C to 126°C)
Weight Data Empty Fire Extinguisher ** Extinguishing Agent (full charge) Nitrogen Charge Charged Fire Extinguisher **	2.70-pounds (1,22 kg) maximum 2.50- to 2.60-pounds (1,13 to 1,18 kg) 0.10-pound (0,05 kg) 5.40-pounds (2,45 kg) maximum
Weight Check Interval Allowable weight deviation – actual weight versus weight marked on identification plate	Once a year is recommended Minus 0.10-pound (0,05 kg)

* The fire extinguisher hydrostatic test interval is every 5-years. If 5-years have not elapsed, hydrostatic test can be waived.

** Weight check includes the cartridge (Items 5) and the outlet valve (Item 10).



MASS SYSTEMS
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24600-2

PROPERTY	SPECIFICATION
Cartridge Data Voltage Current Rating - All Fire No Fire Test Current Bridgewire Resistance Actuation and Ground Terminal Size Maximum Life – Service and Storage Classification Torque Lockwire Size	16- to 30-VDC 3.5-amperes minimum 1.0-ampere, 1.0-Watt for five-minutes maximum 0.02-ampere maximum continuous 0.9- to 1.1-Ohm 8-32 UNF 10-years 1.4s, UN0323 90 to 100 inch-pounds (10,2 to 11,3 N·m) 0.020-inch (0,51 mm)
Pressure Switch Data Voltage Rating Current Rating Actuates Open - Decreasing Pressure Electrical Connection Pigtail Wire Code Torque	30-VDC 0.5-ampere 250- to 50-psig (1724 to 345 kPag) 2 pigtails, 12-inches (304,8 mm) long Black = Common / White = N.O. 150 to 170 inch-pounds (16,9 to 19,2 N·m)
Pressure Gauge Data Pressure Range Accuracy at 600 psig Accuracy Remainder of Scale	0- to 1500-psig, 100-psi increments (0 to 10342 kPag, 689,5 kPag increments ± 20-psig (± 137,9 kPag) ± 45-psig (± 310,3 kPag)
Outlet Disc Data ID Length Flange Thickness	0.255- to 0.265-inch (6,48 to 6,73 mm) 0.095- to 0.105-inch (2,41 to 2,67 mm)
Filler with Safety Relief Data Color Code Thread Size Torque Lockwire Size	Blue MS33656-4 110 to 130 inch-pounds (12,4 to 14,7 N·m) 0.032-inch (0,81 mm)
Outlet Valve Data Thread Size Torque Lockwire Size	MS33656G12 25 to 30 foot-pounds (33,9 to 40,7 N·m) 0.020-inch (0,51 mm)



SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

Special tools, fixtures, and test equipment required for maintenance of the fire extinguishers are listed in Table 901. Equivalent items may be substituted.

**Special Tools, Fixtures, and Equipment
Table 901**

NOMENCLATURE	PART OR SPECIFICATION NUMBER	SOURCE (CAGE)
Cap, Hydrostatic Test, Discharge Boss	91021-1	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)
Cradle	91033-86	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)
Outlet Safety Cap	27319-1	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)
Resurfacing Tool, Discharge Boss	91044-1	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)
Safety Chamber, Cartridge	91035-2	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)
Welding Fixture	91100-1	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)



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ILLUSTRATED PARTS LIST



IPL FIGURE 1. FIRE EXTINGUISHER EXPLODED VIEW



ILLUSTRATED PARTS LIST

FIG. ITEM NO.	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE							EFF	UNITS PER ASSY
			1	2	3	4	5	6	7		
1 -1	24600-2		FIRE EXTINGUISHER, 86-CUBIC INCH								RF
5	30600-22		.	CARTRIDGE							1
10	MS29513-016		.	.	O-RING						1
-15	24626-1		.	TAG, CAUTION							1
20	24630-1		.	OUTLET VALVE, STANDARD							1
25	22740-1		.	SCREEN WELDMENT							1
30	MS29513-023		.	O-RING							1
35	22720-1		.	DISC, OUTLET							1
40	20440-2		.	FILLER WITH SAFETY RELIEF							1
45	MS29513-013		.	O-RING							1
50	20432-1		.	SEAL, FILLER (COPPER)							1
55	11300-1		.	GAUGE, PRESSURE (SUPSD BY ITEM -55A)							1
-55A	11800-1		.	GAUGE, PRESSURE (SUPSDS ITEM 55)							1
60	12600-1		.	SWITCH, PRESSURE (SUPSD BY ITEM -60A)							1
-60A	12800-2		.	SWITCH, PRESSURE (SUPSDS ITEM 60)							1
65	NAS1612-4		.	GASKET							1
70	22724-1		.	PLATE, IDENTIFICATION							1
75	24610-1		.	WELDMENT, CONTAINER							1

- Item not illustrated