



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

**TO: HOLDERS OF THE COMPONENT MAINTENANCE MANUAL
SUPPLEMENT 50700-1, DATED MAR 30/99.**

REVISION NO. 1 DATED APR 15/99

HIGHLIGHTS

THIS PUBLICATION HAS BEEN REPRINTED IN ITS ENTIRETY. REPLACE ALL PREVIOUSLY ISSUED COPIES OF THE SUPPLEMENT 50700-1.

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 LEP-1	Added new logo. Added revision date. Revised page dates.	
Page 1003	Added Item Number -40A, Filler Valve with Safety Relief P/N 20440-2	



MASS Systems

A Unit Of AMERON GLOBAL, INC.

FIRE EXTINGUISHER, SINGLE OUTLET

86-CUBIC INCH (1,41 LITER)

P/N 50700-1

SUPPLEMENT TO

COMPONENT MAINTENANCE MANUAL 26-22-02

TECHNICAL PROPERTIES AND

ILLUSTRATED PARTS LIST

Original Issue MAR 30/99

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SUPPLEMENT 50700-1



**MASS SYSTEMS
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50700-1

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PMA PARTS NOTICE

MASS Systems, Inc. will provide full warranty on all fire extinguishers provided the component parts used in the repair and overhaul process have formal after market FAA-PMA authority for use on the fire extinguisher application.



RECORD OF REVISIONS

REV. NO.	ISSUE DATE	DATE FILED	BY
1	APR 15//99		

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
Service Information Letter 26-04	Mar 30/99	Apr 15/99	



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TECHNICAL PROPERTIES

Table 1

PROPERTY	SPECIFICATION
Description Part Number Nomenclature Complies With	50700-1 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 liters) HFC 125 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) 3750-psig (25856 kPag) minimum
Ambient Temperature Range	-65°F to +200°F (-54°C to +93°C)
Weight Data Empty Fire Extinguisher ** Extinguishing Agent (full charge) Nitrogen Charge Charged Fire Extinguisher **	2.70-pounds (1,22 kg) maximum 2.85- to 2.95-pounds (1,29 to 1,34 kg) 0.08-pound (0,04 kg) 5.73-pounds (2,60 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 can remain charged for 14-years, then it must be discharged and hydrostatic test performed. If the fire extinguisher is discharged or leaks down and 5-years have elapsed, hydrostatic test must be performed. If 5-years have not elapsed, hydrostatic test may be waived.

** Weight check includes the cartridge (Item 5) and the outlet valve (Item 20).



MASS SYSTEMS
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50700-1

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 maximum 0.02-ampere maximum continuous 0.9- to 1.1-Ohm 8-32 UNF 10-years 1.4s, UN0454 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 Weld	0.255- to 0.265-inch (6,48 to 6,73 mm) 0.095- to 0.105-inch (2,41 to 2,67 mm) Per MIL-W-8611A
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 (0FRR4)
Cradle	91033-86	MASS Systems (0FRR4)
Outlet Safety Cap *	27319-1	MASS Systems (0FRR4)
Resurfacing Tool, Discharge Boss	91044-1	MASS Systems (0FRR4)
Safety Chamber, Cartridge	91035-2	MASS Systems (0FRR4)
Welding Fixture	91100-1	MASS Systems (0FRR4)

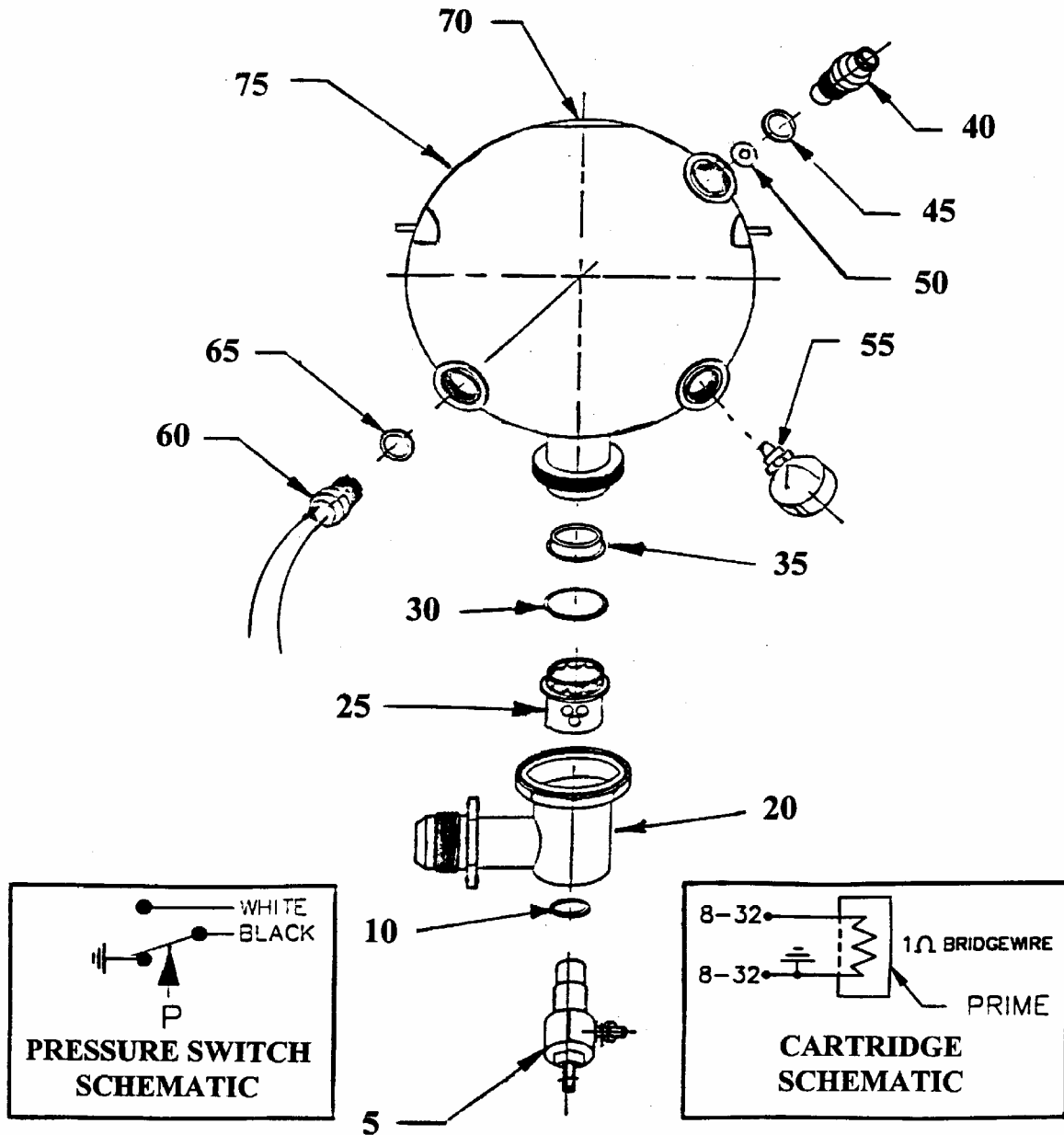
***AN OUTLET SAFETY CAP MUST BE INSTALLED IN PLACE OF THE DISCHARGE OUTLET WHEN THE FIRE EXTINGUISHER IS BEING SHIPPED**



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ILLUSTRATED PARTS LIST



PL 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	50700-1		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	20440-1		.	FILLER WITH SAFETY RELIEF (SUSPD BY ITEM -40A, PRE SIL 26-04)							1
-40A	20440-2		.	FILLER WITH SAFETY RELIEF (SUSPS ITEM 40, POST SIL 26-04)							1
45	MS29513-013		.	O-RING							1
50	20432-1		.	SEAL, FILLER (COPPER)							1
55	11800-1		.	GAUGE, PRESSURE							1
60	12800-2		.	SWITCH, PRESSURE							1
65	NAS1612-4		.	GASKET							1
70	22724-1		.	PLATE, IDENTIFICATION							1
75	25719-1		.	DECAL, PRESSURE VS PRESSURE							1
80	24610-2		.	WELDMENT, CONTAINER							1

- Item not illustrated