



A Unit of AMERON GLOBAL, INC.

FIRE EXTINGUISHER, SINGLE OUTLET

86-CUBIC INCH (1,41 LITER)

P/N 25700-3

SUPPLEMENT TO

COMPONENT MAINTENANCE MANUAL 26-22-02

TECHNICAL PROPERTIES AND

ILLUSTRATED PARTS LIST

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SUPPLEMENT 25700-3



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

25700-3

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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.



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25700-3

RECORD OF REVISIONS

REV. NO.	ISSUE DATE	DATE FILED	BY

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
25700-26-2	JAN 30/03	MAR 1/03	MASS SYSTEMS



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TECHNICAL PROPERTIES

PROPERTY	SPECIFICATION
Description Part Number Nomenclature Customer Specification Number Complies With	25700-3 Fire Extinguisher, Single Outlet 332GM590000C MIL-C-22284 and DOT-E 10440-1000
Functional Properties Internal Volume Extinguishing Agent Pressuring Gas	86-cubic inches (1,41 liters) 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) 2000-psig (13790 kPag) 3000-psig (20685 kPag) minimum
Ambient Temperature Range Safety Relief Temperature	-60°F to +160°F (-50°C to +70°C) 205°F to 226°F (96°C to 108°C)
Weight Data Empty Fire Extinguisher ** Extinguishing Agent (full charge) Nitrogen Charge Charged Fire Extinguisher **	2.30-pounds (1,04 kg) maximum 2.50- to 2.60-pounds (1,13 to 1,18 kg) 0.10-pound (0,05 kg) 5.00-pounds (2,27 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 outlet valve (Item 20).
Weight check does **not** include the cartridge (Item 5).



MASS SYSTEMS
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PROPERTY	SPECIFICATION
Cartridge Data, Dual Bridgewire Voltage Current Rating -All Fire No Fire Test Current Bridgewire Resistance Electrical Connector, 3 Pin 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 MIL-C-83723 Series 3 Class R, Type 08TO3P6 10-years 1.4s, UN 0323 90 to 100 inch-pounds (10,2 to 11,3 N·m) 0.032-inch (0,81 mm)
Pressure Gauge Data Pressure Range Accuracy at 600 psig Accuracy Remainder of Scale Orientation to Vertical Centerline	0- to 1500-psig, 100-psi increments (0 to 10342 kPag, 689,5 kPag increments) ± 10-psig (± 68,9 kPag) ± 60-psig (± 413,7 kPag) ± 15-degrees
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 90 to 100 inch-pounds (10,2 to 11,3 N·m) 0.032-inch (0,81 mm)
Outlet Valve Assembly Data Thread Size Torque Lockwire Size	M18 x 1.5 25 to 30 foot-pounds (33,9 to 40,7 N·m) 0.032-inch (0,81 mm)
Minimum Height Dimension Data Discharge Boss	0.250-inch (6,35 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

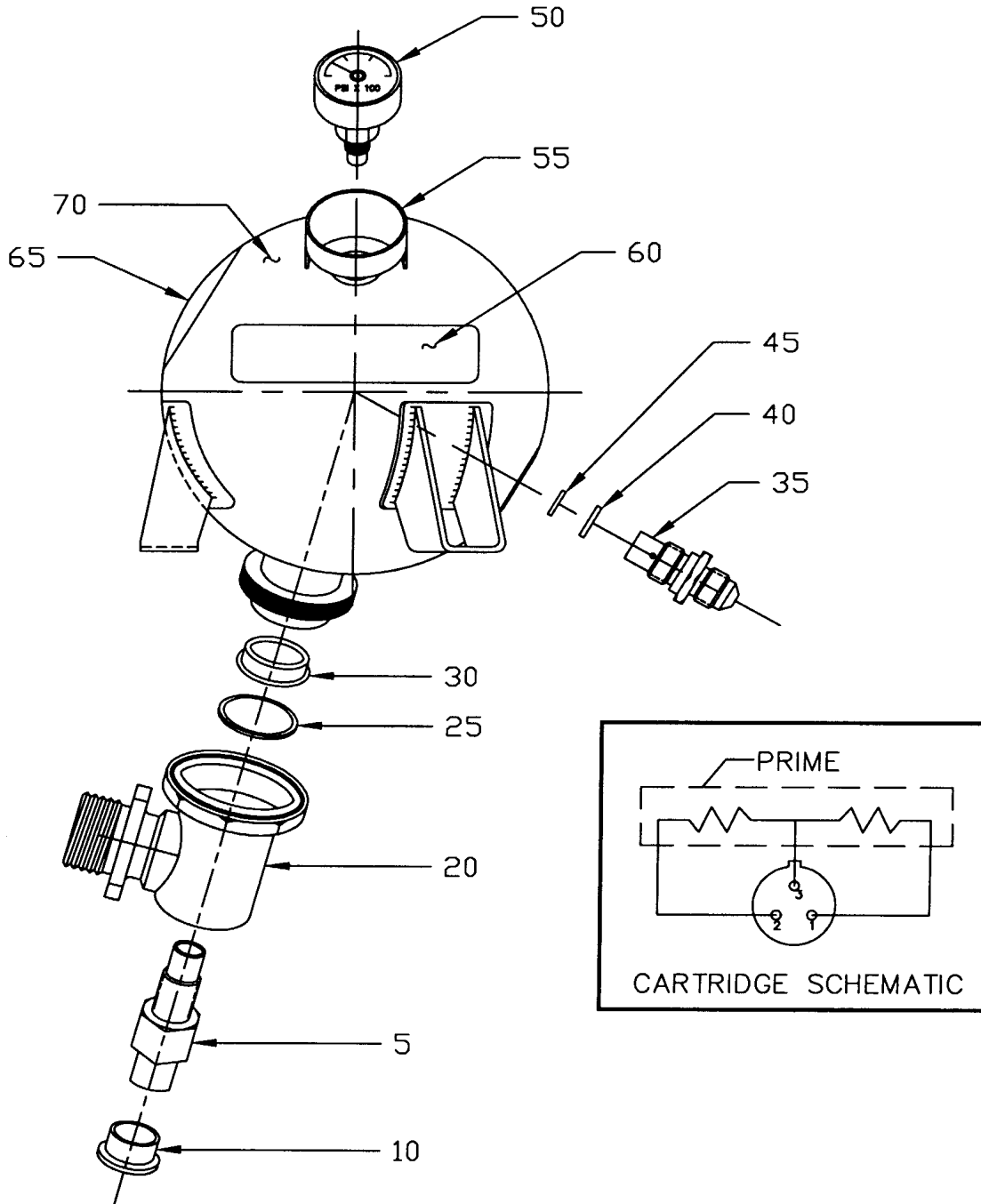
NOMENCLATURE	PART OR SPECIFICATION NUMBER	SOURCE (CAGE)
Cap, Hydrostatic Test, Discharge Boss	91021-1	MASS Systems Unit of Ameron Global, Inc. (0FRR4)
Cradle, Fire Extinguisher	91033-86	MASS Systems Unit of Ameron Global, Inc. (0FRR4)
Outlet Safety Cap	27319-1	MASS Systems Unit of Ameron Global, Inc. (0FRR4)
Resurfacing Tool, Discharge Boss	91044-1	MASS Systems Unit of Ameron Global, Inc. (0FRR4)
Safety Chamber, Cartridge	91035-2	MASS Systems Unit of Ameron Global, Inc. (0FRR4)
Welding Fixture	91100-1	MASS Systems 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	25700-3		FIRE EXTINGUISHER, 86-CUBIC INCH								RF
5	30600-18		CARTRIDGE *								RF
10	CEC 08		PLUG, BLACK (CAPLUG) (NHA ITEM 5) *								RF
-15	24626-1		TAG, CAUTION (NHA ITEM 5) *								RF
20	25720-1		. OUTLET VALVE (BLACK)								1
25	MS29513-023		. O-RING								1
30	22720-1		. DISC, OUTLET								1
35	20440-1		. FILLER VALVE WITH SAFETY RELIEF								1
40	MS29513-013		. O-RING								1
45	20432-1		. SEAL, FILLER (COPPER)								1
50	20450-1		. GAUGE, PRESSURE 0- TO 1500-PSI (0 TO 10342 KPAG)								1
-50A	14200-1		. GAUGE, PRESSURE 0- TO 1500-PSI (0 TO 10342 KPAG) (SUPSDS ITEM 50)								1
55	25721-1		. DECAL, WEIGHT INSPECTION								1
60	25719-1		. DECAL, PRESSURE VERSUS TEMPERATURE								1
65	25717-1		. PLATE, IDENTIFICATION								1
70	25710-1		. WELDMENT, CONTAINER								1

- Item not illustrated

* CARTRIDGE (ITEM 5), WITH PLUG (ITEM 10), IS PURCHASED SEPARATELY.