



MASS Systems

A Unit Of AMERON GLOBAL

FIRE EXTINGUISHER, DUAL OUTLET

50-CUBIC INCH (0,82 LITER)

P/N 51500-105

SUPPLEMENT TO

COMPONENT MAINTENANCE MANUAL 26-22-02

TECHNICAL PROPERTIES AND

ILLUSTRATED PARTS LIST

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**MASS SYSTEMS
A UNIT OF AMERON GLOBAL
COMPONENT MAINTENANCE MANUAL
51500-105**

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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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RECORD OF REVISIONS

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TECHNICAL PROPERTIES

Table 1

PROPERTY	SPECIFICATION
Description Part Number Customer Part Number Nomenclature Complies With	51500-105 427-369-510 -105 Fire Extinguisher, Dual Outlet MIL-C-22284 and DOT-E-10440-1200
Functional Properties Internal Volume Extinguishing Agent Pressuring Gas	50-cubic inches (0,82 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) 2400-psig (16548 kPag) 3600-psig (24822 kPag) minimum
Ambient Temperature Range	-65°F to +165°F (-54°C to +74°C)
Weight Data Empty Fire Extinguisher ** Extinguishing Agent (full charge) Nitrogen Charge Charged Fire Extinguisher **	2.65-pounds (1,20 kg) maximum 1.90- to 2.00-pounds (0,86 to 0,91 kg) 0.06-pound (0,03 kg) 4.71-pounds (2,14 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 discharge outlet valves (Items 30). Weight check <u>does not</u> include the cartridges (Items 5 and 10).



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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, Mates With 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 MS38999/26MA98SN (J 1 – red stripe) MS38999/26MA98SA (J 2 – blue stripe) 10-years 1.4s, UN0323 (both cartridges) 90 to 100 inch-pounds (10,2 to 11,3 N·m) 0.032-inch (0,81 mm)
Pressure Gauge Data Pressure Range Accuracy Full Scale	0- to 1500-psig, 100-psi increments (0 to 10342 kPag, 689,5 Kpag increments) ± 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	Blue MS33656-4 110 to 130 inch-pounds (12,4 to 14,7 N·m)
Outlet Valve Assembly Data Thread Size Torque Lockwire Size	MS33656G12 (typical – STD and BY-PASS) 25 to 30 foot-pounds (33,9 to 40,7 N·m) 0.032-inch (0,81 mm)

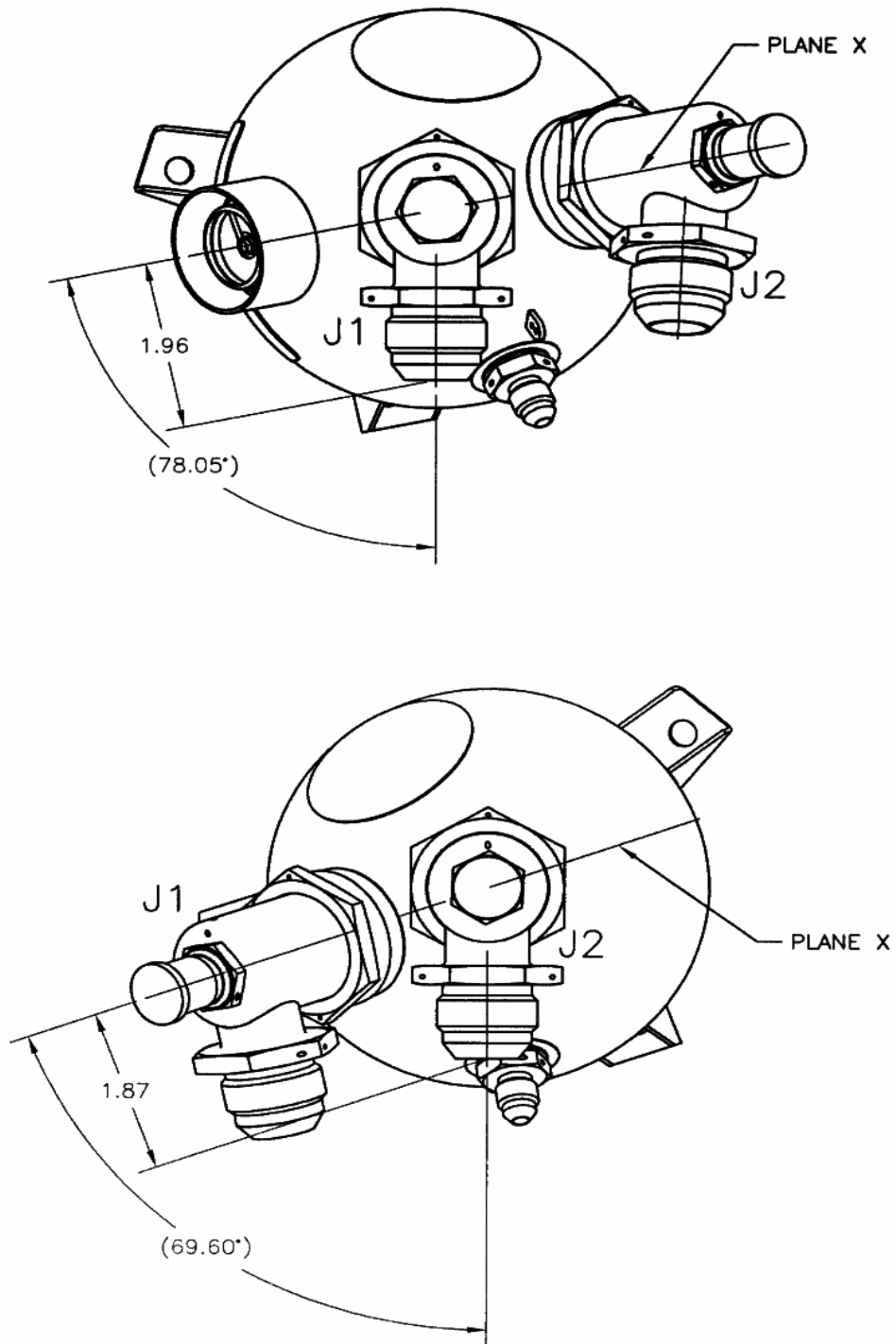


SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

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

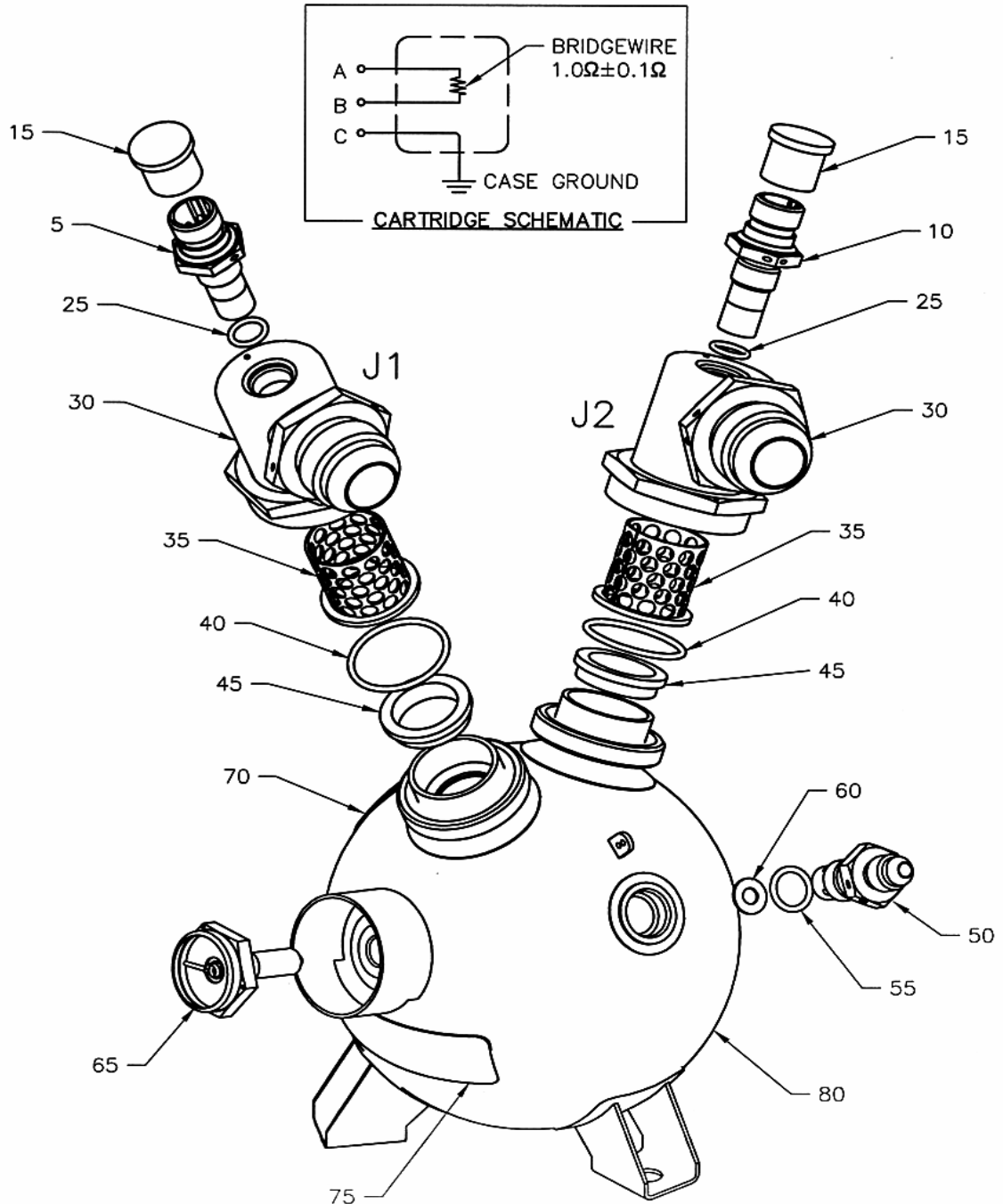
NOMENCLATURE	PART OR SPECIFICATION NUMBER	SOURCE (CAGE)
Cap, Hydrostatic Test, Discharge Boss	91021-1	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)
Charging Fixture	23540-1	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)
Cradle	91033-60	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)
Discharge Tool	91097-1	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)
Resurfacing Tool, Fill Boss	91045-1	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)
Safety Chamber, Cartridge	91035-1	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)
Welding Fixture	91100-1	MASS Systems, A Unit of Ameron Global, Inc. (0FRR4)



IPL FIGURE 1. FIRE EXTINGUISHER EXPLODED VIEW



ILLUSTRATED PARTS LIST



IPL FIGURE 1. FIRE EXTINGUISHER EXPLODED VIEW



ILLUSTRATED PARTS LIST

FIG. ITE M NO.	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE							EFF	UNITS PER ASSY
			1	2	3	4	5	6	7		
1 -1	51500-105		FIRE EXTINGUISHER, 50-CUBIC INCH								RF
5	30600-12		. CARTRIDGE, PRIMARY, J 1 (RED STRIPE CODE)								1
10	30600-13		. CARTRIDGE, SECONDARY, J 2 (BLUE STRIPE CODE)								1
15	CEC 08		. CAP, BLACK (CAPLUG) (NHA ITEM 5 AND 10)								2
-20	24626-1		. TAG, CAUTION (NHA ITEM 15)								2
25	NAS1612-5		. O-RING (NHA ITEM 5 AND 10)								2
30	22730-2		. OUTLET VALVE, DISCHARGE, STANDARD								2
35	22740-1		. SCREEN WELDMENT								2
40	MS29513-023		. O-RING								2
45	22720-1		. DISC, OUTLET								2
50	20440-1		. FILLER VALVE WITH SAFETY RELIEF								2
55	MS29513-013		. O-RING								1
60	20432-1		. SEAL, FILLER (COPPER)								1
65	13900-1		. GAUGE, PRESSURE SWITCH 0- TO 1500-PSI (0 TO 10342 KPAG)								1
70	26117-1		. PLATE, IDENTIFICATION AND DATA								1

IPL FIGURE 1. FIRE EXTINGUISHER EXPLODED VIEW



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75	25719-1		. DECAL, PRESS. VS. TEMP.		1
80	51510-1		. WELDMENT, CONTAINER		1

- Item not illustrated

IPL FIGURE 1. FIRE EXTINGUISHER EXPLODED VIEW

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