

SUPPLEMENT COMPONENT MAINTENANCE MANUAL

**TO: HOLDERS OF THE COMPONENT MAINTENANCE MANUAL SUPPLEMENT M811456,
DATED MAR 11/09.**

REVISION NO. 5 DATED JUN 30/21

HIGHLIGHTS

THIS PUBLICATION HAS BEEN REPRINTED IN ITS ENTIRETY. REPLACE ALL PREVIOUSLY ISSUED COPIES OF SUPPLEMENT M811456.

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 & PAGE NO.	DESCRIPTION OF CHANGE
All Pages	Updated template and company business name.
Table 1, page 1	Updated DOT marking information. Added chemical name and formula of extinguishing agent.
IPL Table 1001, page 1002	Corrected part number of filler valve with safety relief.

FIRE EXTINGUISHER, TRIPLE OUTLET

98 CUBIC-INCH (1,6 LITER)

P/N M811456

SUPPLEMENT TO
COMPONENT MAINTENANCE MANUAL 26-22-02
TECHNICAL PROPERTIES AND
ILLUSTRATED PARTS LIST

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PMA PARTS NOTICE

AMETEK Ameron, LLC d/b/a MASS Systems 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.

LIST OF EFFECTIVE PAGES

SUBJECT	PAGE	DATE
Title Page	T-1	Jun 30/21
Notices	T-2	Jun 30/21
Record of Revisions	RR-1	Jun 30/21
Record of Temporary Revisions	RTR-1	Jun 30/21
Service Bulletin List	SBL-1	Jun 30/21
List of Effective Pages	LEP-1	Jun 30/21
Technical Properties	1	Jun 30/21
	2	Jun 30/21
Assembly (Including Storage)	701	Jun 30/21
	702	Jun 30/21
Special Tools, Fixtures, and Equipment	901	Jun 30/21
Illustrated Parts List	1001	Jun 30/21
	1002	Jun 30/21

TECHNICAL PROPERTIES

Table 1

PROPERTY	SPECIFICATION
Description Part Number Nomenclature Complies With Overall Length Diameter Over Girth Weld	M811456 Fire Extinguisher, Triple Outlet MIL-C-22284 and DOT-SP-10440-500 11.15 inch (28,32 cm) maximum 5.81 inch (14,76 cm) maximum
Functional Properties Internal Volume Extinguishing Agent Pressurizing Gas	98 cubic-inches (1,6 liter) Bromodifluoromethane (CBrClF ₂) Halon 1211 Nitrogen (N ₂)
Pressure Data At 70°F (21°C) Charge Pressure Hydrostatic Test Pressure* Burst Pressure Leakage Rate	225 to 250 psig (1551 to 1724 kPag) 1000 psig (6895 kPag) 1500 psig (10343 kPag) minimum 1.0 x 10 ⁻⁶ scc/second maximum
Ambient Temperature Range	-40°F to +160°F (-40°C to +71°C)
Weight Data Empty Fire Extinguisher ** Extinguishing Agent (full charge) Nitrogen Charge Charged Fire Extinguisher **	3.50 pounds (1,59 kg) maximum 3.40 to 3.50 pounds (1,54 to 1,59 kg) 0.033 pound (0,015 kg) 7.03 pounds (3,19 kg) maximum
Allowable weight deviation – actual weight versus weight marked on identification plate Charged Fire Extinguisher with Cartridges Cartridge Weight	Minus 0.10 pound (0.05 kg) 7.39 pounds (3,35 kg) maximum 0.12 pound (0,054 kg) maximum each
<p>* The fire extinguisher hydrostatic test interval is every 5 years. If 5 years have not elapsed, hydrostatic test can be waived Per CFR Title 49, section 180.205.</p> <p>** Weight includes the discharge outlet valves (Item 25). Weight does <u>not</u> include the cartridges (Items 5, 10 & 15).</p>	



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PROPERTY	SPECIFICATION
Cartridge Data, Single Bridgewire Voltage Current Rating – All-Fire No-Fire Test Current Bridgewire Resistance Maximum Life (from manufacture date) Classification Torque Lockwire Size	16 to 30 VDC 3.5 amps minimum for 50 milliseconds 1.0 amps or 1.0 watt for 5 minutes 20 milliamps maximum continuous 0.9 to 1.1 Ohm, Pin(s) A/B to Pin(s) E/F and Pin(s) C/D to Pin(s) E/F 15 years Total (12-years max. service) 1.4s, UN0323 90 to 100 inch-pounds (10.2 to 11.3 N·m) 0.032 inch (0.81 mm)
Cartridge P/N 30600-41 Electrical Connector	Red Band Per MIL-R-25988, Class 1 Mates with MS3476W1006SW
Cartridge P/N 30600-42 Electrical Connector	Green Band Per MIL-R-25988, Class 1 Mates with MS3476W1006P
Cartridge P/N 30600-43 Electrical Connector	Yellow Band Per MIL-R-25988, Class 1 Mates with MS3476W1006S
Pressure Gauge Accuracy at 600 psig Orientation to Filler Valve Lockwire Size	±20 psig Perpendicular along pressure gauge centerline 0.032 inch (0,81 mm)
Outlet Disc Data Burst Pressure Data at 70°F (21°C) ID Code	1250 to 1450 psig (8618 to 9997 kPag) 25
Fill Valve with Safety Relief Data Burst Pressure Data at 70°F (21°C) Thread Size Torque Lockwire Size	700 to 950 psig (4826 to 6550 kPag) AS4395E04 (0.4375-20 UNJF-3A) 110 to 130 inch-pounds (12,4 to 14,7 N·m) 0.032 inch (0,81 mm)
Discharge Outlet Fitting Data Port Thread Size Torque Lockwire Size	MS33656E8 25 to 30 foot-pounds (33,9 to 40,7 N·m) 0.032 inch (0,81 mm)
Outlet Boss Data Boss Minimum Height Boss ID Chamfer	0.200 inch (5,08 mm) Not required

ASSEMBLY (INCLUDING STORAGE)

The Nitrogen gas charge pressure for the actual temperature of the fire extinguisher is listed in Table 701 and Table 702.

**Temperature versus Pressure - PSIG
Table 701**

TEMP °F	PRESSURE – PSIG		TEMP °F	PRESSURE – PSIG	
	MIN	MAX		MIN	MAX
60	217	242	81	239	264
61	218	243	82	240	265
62	219	244	83	241	266
63	220	245	84	242	267
64	221	246	85	244	269
65	222	247	86	245	270
66	223	248	87	246	271
67	224	249	88	247	272
68	225	250	89	249	274
69	226	251	90	250	275
70	227	252	91	251	276
71	228	253	92	253	278
72	229	254	93	254	279
73	230	255	94	255	280
74	231	256	95	257	282
75	232	257	96	258	283
76	233	258	97	260	285
77	234	259	98	261	286
78	236	261	99	262	287
79	237	262	100	264	289
80	238	263			

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**Temperature versus Charge Pressure – KPAG
Table 702**

TEMP °C	PRESSURE – KPAG		TEMP °C	PRESSURE – KPAG	
	MIN	MAX		MIN	MAX
15,6	1497	1670	27,2	1648	1820
16,1	1504	1676	27,8	1656	1828
16,7	1511	1683	28,3	1664	1836
17,2	1518	1690	28,9	1672	1844
17,8	1524	1697	29,4	1680	1852
18,3	1531	1703	30,0	1687	1860
18,9	1538	1710	30,6	1697	1869
19,4	1545	1717	31,1	1706	1878
20,0	1551	1724	31,7	1715	1887
20,6	1559	1731	32,2	1724	1896
21,1	1566	1738	32,8	1733	1905
21,7	1573	1745	33,3	1742	1915
22,2	1580	1752	33,9	1751	1924
22,8	1587	1760	34,4	1760	1933
23,3	1594	1767	35,0	1770	1942
23,9	1602	1774	35,6	1780	1952
24,4	1609	1781	36,1	1789	1962
25,0	1616	1788	36,7	1799	1972
25,6	1624	1796	37,2	1809	1982
26,1	1632	1804	37,8	1819	1992
26,7	1640	1812			

SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

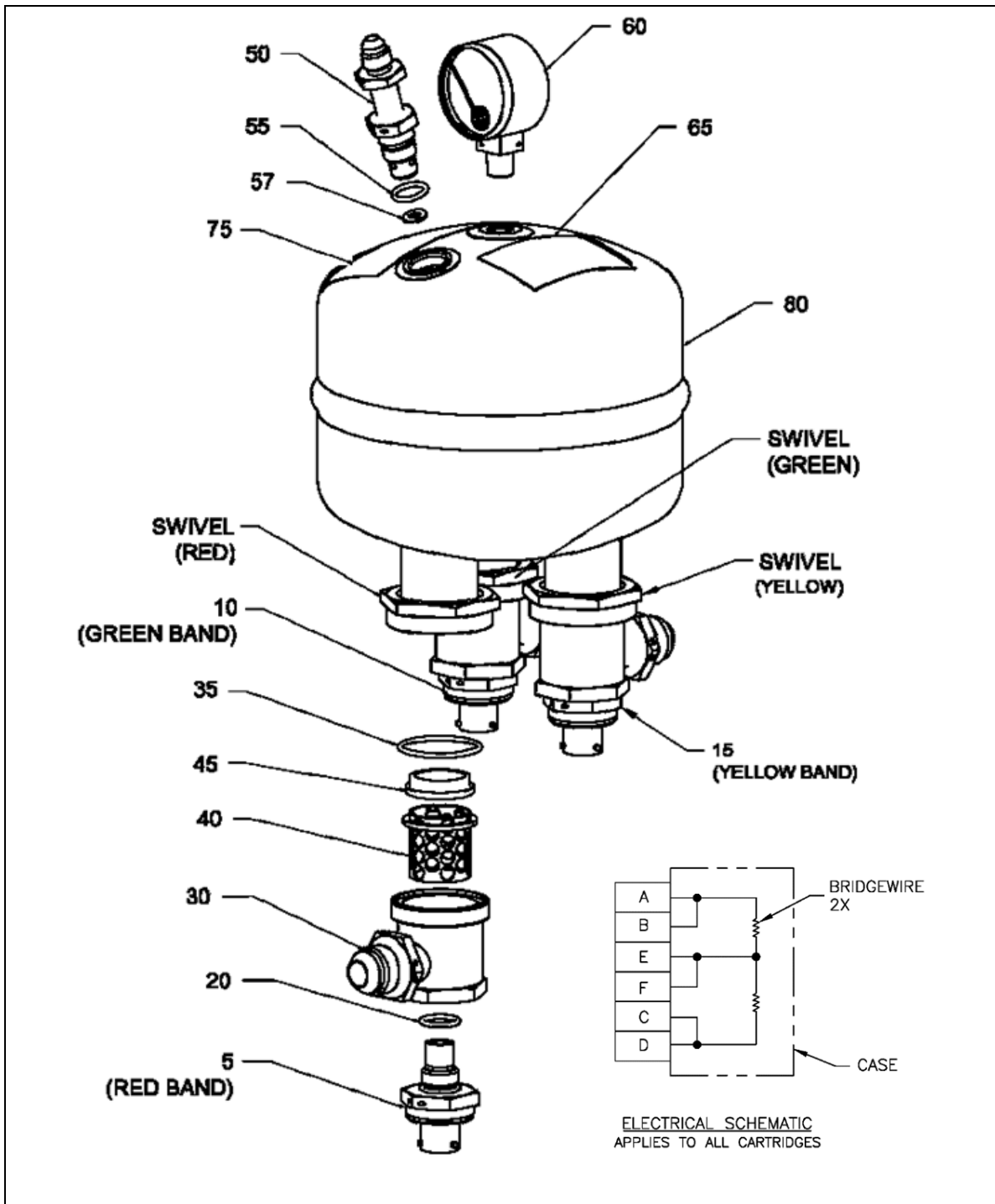
Special tools, fixtures, and test equipment required for maintenance of the fire extinguisher are listed in Table 901. Equivalent items may be substituted.

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

NOMENCLATURE	PART OR SPECIFICATION NUMBER	SOURCE (CAGE)
Cap, Hydrostatic Test, Discharge Boss	91021-100	AMETEK Ameron / MASS Systems (OFFR4)
Cradle, Fire Extinguisher	91033-100	
Resurfacing Tool, Discharge Boss	91044-1	
Safety Chamber, Cartridge	91035-2	AMETEK Ameron / MASS Systems (OFFR4)



ILLUSTRATED PARTS LIST



Fire Extinguisher Exploded View
IPL Figure 1001

ILLUSTRATED PARTS LIST

**Fire Extinguisher P/N M811456
IPL Table 1001**

FIG. ITEM NO.	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE							EFF	UNITS PER ASSY
			1	2	3	4	5	6	7		
1 -1	M811456		FIRE EXTINGUISHER, 98-CUBIC INCH								RF
5	30600-41		.	CARTRIDGE (RED BAND)							1
10	30600-42		.	CARTRIDGE (GREEN BAND)							1
15	30600-43		.	CARTRIDGE (YELLOW BAND)							1
20	NAS1612-6		.	.	O-RING (SU01254-6)						3
-25	SU00950-1		.	.	TAG, CARTRIDGE						3
30	52320-1		.	OUTLET, DISCHARGE							3
35	MS29513-026		.	O-RING (SU01251-26)							3
40	22740-1		.	SCREEN WELDMENT							3
45	M33440018-8		.	DISC, RUPTURE							3
50	52330-3		.	FILLER VALVE WITH SAFETY RELIEF							1
55	MS28775-013		.	.	O-RING (SU01251-13)						1
57	20432-3		.	.	SEAL, COPPER						1
60	14800-1		.	GAUGE, PRESSURE							1
65	52315-1		.	PLATE, DATA							1
70	DELETED		.	DELETED							1
75	52314-1		.	PLATE, IDENTIFICATION							1
80	52310-1		.	WELDMENT, CONTAINER							1

- Item not illustrated