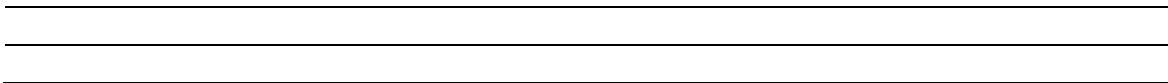


FIRE EXTINGUISHER, SINGLE OUTLET

MASS Systems P/N	Honda Aircraft P/N	Volume
FX03400-1	HJ1-12620-100-001	36 CUBIC-INCH (0.59 LITER)
FX03400-2	HJ1-12620-100-003	36 CUBIC-INCH (0.59 LITER)

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



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PMA PARTS NOTICE

MASS Systems, AMETEK Ameron, LLC 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
0	May 15/14	May 15/14	EK

REV. NO.	ISSUE DATE	DATE FILED	BY

RECORD OF TEMPORARY REVISIONS

REVISION NO.	PAGE NUMBER	ISSUE DATE	BY	DATE REMOVED	BY

LIST OF EFFECTIVE PAGES

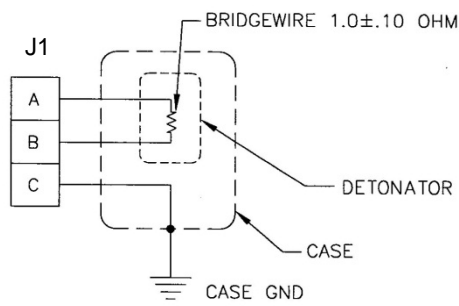
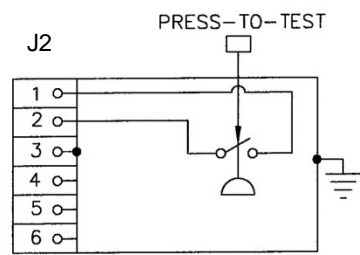
SUBJECT	PAGE	DATE
Title Page	T-1	May 15/14
Notices	T-2	May 15/14
Record of Revisions	RR-1	May 15/14
Record of Temporary Revisions	RTR-1	May 15/14
Service Bulletin List	SBL-1	May 15/14
List of Effective Pages	LEP-1	May 15/14
Technical Properties	1	May 15/14
	2	May 15/14
	3	May 15/14
Testing and Fault Isolation	101	May 15/14
Assembly (Including Storage)	701	May 15/14
	702	May 15/14
Special Tools, Fixtures, and Equipment	901	May 15/14
Illustrated Parts List	1001	May 15/14
	1002	May 15/14

TECHNICAL PROPERTIES

Table 1

PROPERTY	SPECIFICATION
Description Part Number Nomenclature Complies With	FX03400-1 & -2 Fire Extinguisher. Single Outlet MIL-C-22284 and DOT-SP 10440-1000
Functional Properties Internal Volume (FX03400-1, -2) Extinguishing Agent Pressurizing Gas	36 cubic-inches (0.59 liter) Bromotrifluoromethane (CBrF ₃) Halon 1301 Nitrogen (N ₂)
Pressure Data At 70°F (21°C) Charge Pressure Hydrostatic Test Pressure * Burst Pressure Leakage Rate Safety Relief	600 to 625 psig (4137 to 4309 kPag) 2000 psig (13790 kPag) 3000 psig (20684 kPag) minimum 1.0 x 10 ⁻⁶ scc/second maximum 1600 to 1800 psig (11032 to 12411 kPag)
Ambient Temperature Range	-65°F to +185°F (-54°C to +85°C)
Weight Data Empty Fire Extinguisher ** Extinguishing Agent (full charge) Nitrogen Charge Charged Fire Extinguisher Allowable weight deviation – actual weight versus weight marked on identification plate	See Table 2 See Table 2 See Table 2 See Table 2 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 Per CFR Title 49, section 180.205.	
** Weight does <u>not</u> include cartridge (Item 10).	

SUPPLEMENT COMPONENT MAINTENANCE MANUAL

PROPERTY	SPECIFICATION
<p>Cartridge Data, Single Bridgewire</p> <p>Voltage</p> <p>Current Rating – All-Fire</p> <p style="padding-left: 40px;">No-Fire</p> <p>Test Current</p> <p>Bridgewire Resistance</p> <p>Electrical Connector, 3 Pin, Mates with</p> <p>Service Life</p> <p>Maximum Life (Service and Storage)</p> <p>Classification</p> <p>Torque</p> <p>Lockwire Size</p> <p>Electrical Schematic</p>	<p>16 to 32 VDC</p> <p>3.5 amps minimum for 50 milliseconds</p> <p>1.0 amps or 1.0 watt for 5 minutes</p> <p>20 milliamps maximum continuous</p> <p>0.9 to 1.1 Ohm</p> <p>MS38999-26WA98SN (J1)</p> <p>12-years max. service</p> <p>15 years total</p> <p>1.4s, UN0323</p> <p>90 to 100 inch-pounds (10.2 to 11.3 N·m)</p> <p>0.032 inch (0.81 mm)</p> 
<p>Temperature Compensated Pressure Switch Data (TCPS) at 70°F (21°C)</p> <p>Voltage Rating</p> <p>Current Rating</p> <p>Actuates Open – Decreasing Pressure</p> <p>Connector Pins</p> <p>Press-To-Test</p> <p>Electrical Connector</p> <p>Electrical Connector Mates With</p> <p>Electrical Schematic</p>	<p>28 VDC nominal</p> <p>0.5 amps nominal</p> <p>Below 540 psig (3723 kPag)</p> <p>Normally Close between Pins 1 and 2 with pressure</p> <p>Actuates Open between Pins 1 and 2</p> <p>D38999/21YA35PN (J2)</p> <p>D38999/26WA35SN</p> 
<p>Outlet Disc Data</p> <p>Burst Pressure Data at 70°F (21°C)</p> <p>Flange Thickness</p>	<p>1600 to 1800 psig (11032 to 12411 kPag)</p> <p>0.095 to 0.105 inch (2.41 to 2.67 mm)</p>



SUPPLEMENT COMPONENT MAINTENANCE MANUAL

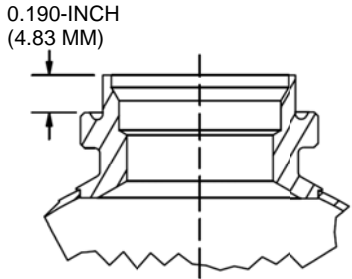
Minimum boss height	
Discharge Outlet Fitting Data Thread Size Torque Lockwire Size	AS4395E08 (.750-16 UNJ-3A) 25 to 30 foot-pounds (33.9 to 40.7 N·m) 0.032 inch (0.81 mm)

Table 2

FIRE EXTINGUISHER PART NO. VS. WEIGHT				
PART NO.	EMPTY FIRE EXT. (nominal)	AGENT	NITROGEN	CHARGED FIRE EXT. (nominal)*
FX03400-1	2.07 lbs (0.94 kg)	0.75 to 0.85 lb (0.34 to 0.39 kg)	0.05 lb (0.02 kg)	2.96 lbs (1.34 kg)
FX03400-2	2.07 lbs (0.94 kg)	1.00 to 1.10 lbs (0.45 to 0.50)	0.05 lb (0.02 kg)	3.21 lbs (1.46 kg)
* Charged Fire Extinguisher maximum weight does not include any protective caps or anti-recoil device.				

TESTING AND FAULT ISOLATION

Test the Temperature compensated pressure switch (TCPS) P/N SW00600-1 using Table 101 to compare temperature versus pressure switch points requirements. Table 101 provides the pressure tolerance band (min. & max) that each TCPS is allowed to switch over from a closed circuit to an open circuit between pins 1 & 2 as pressure is decreasing. The TCPS should output a “closed circuit” for pressures above the max. switch point value and an “open circuit” for pressures below the min. switch point value at the specified temperature.

**TCPS Switch Points – Temperature versus Pressure (SW00600-1)
Table 101**

TEMP °F	PRESSURE – PSIG		TEMP °C	PRESSURE KPAG	
	MIN	MAX		MIN	MAX
60	448	508	15.6	3089	3503
62	454	514	16.7	3130	3544
64	461	521	17.8	3178	3592
66	467	527	18.9	3220	3634
68	473	533	20.0	3261	3675
70	480	540	21.1	3309	3723
72	486	546	22.2	3351	3765
74	493	553	23.3	3399	3813
76	500	560	24.4	3447	3861
78	506	566	25.6	3489	3902
80	513	573	26.7	3537	3951
82	521	581	27.8	3592	4006
84	528	588	28.9	3640	4054
86	535	595	30.0	3689	4102
88	543	603	31.1	3744	4158
90	550	610	32.2	3792	4206
92	558	618	33.3	3847	4261
94	565	625	34.4	3896	4309
96	573	633	35.6	3951	4364
98	580	640	36.7	3999	4413
100	588	648	37.8	4054	4468

NOTE: If the measured temperature is not in the table, use the higher temperature listed for the required pressure.

Recommended Test Intervals:

Weight check: The recommended weight check interval for the fire extinguisher should be every 5 years.

Bridgewire check: The recommended bridgewire check interval for the cartridge should be every 3 years.

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 Charge Pressure – PSIG
Table 701**

TEMP °F	PRESSURE – PSIG		TEMP °F	PRESSURE PSIG	
	MIN	MAX		MIN	MAX
60	566	591	80	637	662
61	569	594	81	641	666
62	573	598	82	645	670
63	576	601	83	649	674
64	579	604	84	653	678
65	583	608	85	657	682
66	586	611	86	661	686
67	590	615	87	665	690
68	593	618	88	669	694
69	597	622	89	673	698
70	600	625	90	677	702
71	604	629	91	681	706
72	607	632	92	685	710
73	611	636	93	689	714
74	615	640	94	694	719
75	618	643	95	698	723
76	622	647	96	702	727
77	626	651	97	706	731
78	629	654	98	710	735
79	633	658	99	714	739
			100	718	743

SUPPLEMENT COMPONENT MAINTENANCE MANUAL

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

TEMP °C	PRESSURE – KPAG		TEMP °C	PRESSURE KPAG	
	MIN	MAX		MIN	MAX
15.6	3902	4075	26.7	4392	4564
16.1	3923	4095	27.2	4420	4592
16.7	3951	4123	27.8	4447	4619
17.2	3971	4144	28.3	4475	4647
17.8	3992	4164	28.9	4502	4675
18.3	4020	4192	29.4	4530	4702
18.9	4040	4213	30.0	4557	4730
19.4	4068	4240	30.6	4585	4757
20.0	4089	4261	31.1	4613	4785
20.6	4116	4289	31.7	4640	4813
21.1	4137	4309	32.2	4668	4840
21.7	4164	4337	32.8	4695	4868
22.2	4185	4357	33.3	4723	4895
22.8	4213	4385	33.9	4750	4923
23.3	4240	4413	34.4	4785	4957
23.9	4261	4433	35.0	4813	4985
24.4	4289	4461	35.6	4840	5012
25.0	4316	4488	36.1	4868	5040
25.6	4337	4509	36.7	4895	5068
26.1	4364	4537	37.2	4923	5095
			37.8	4950	5123

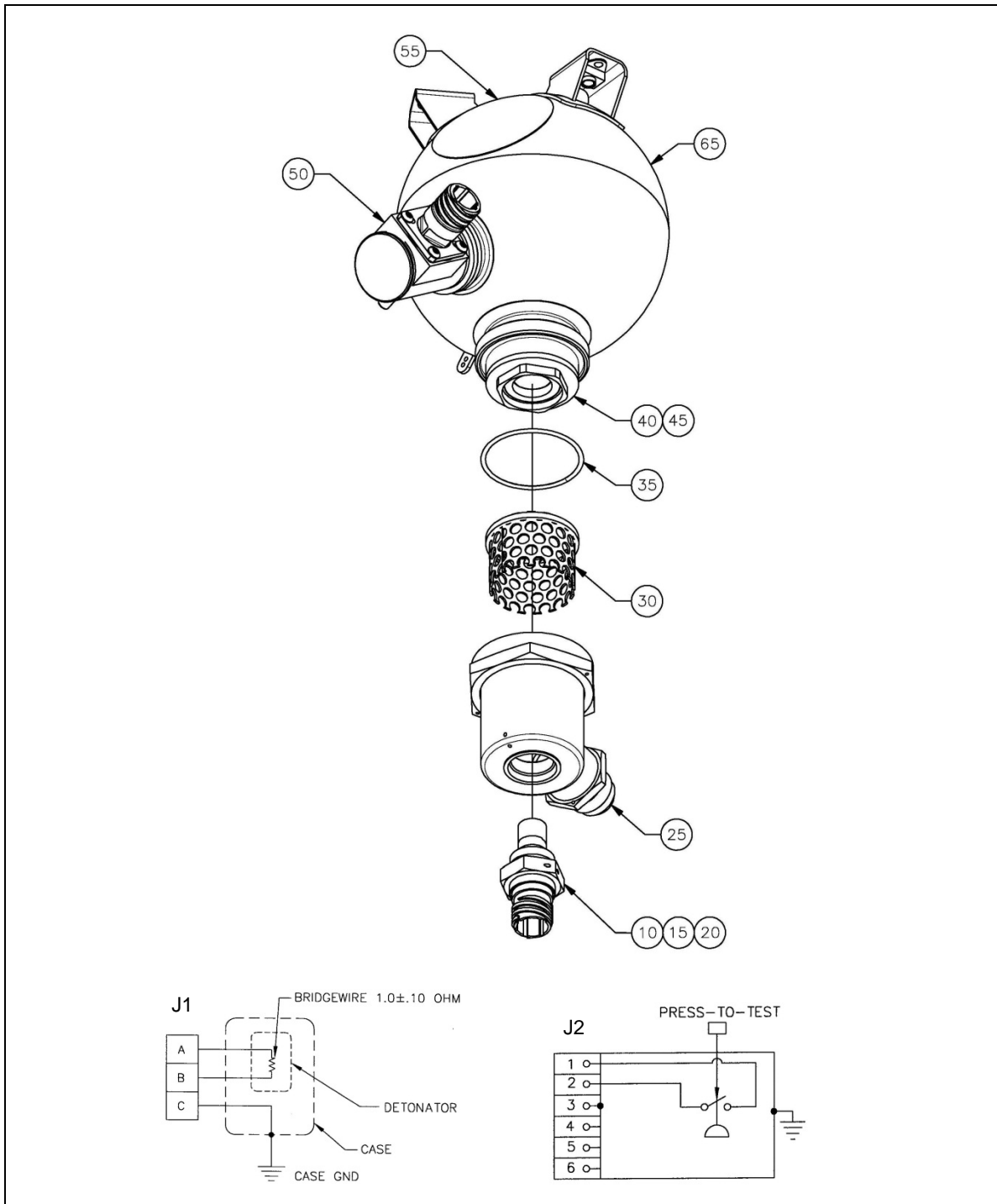
SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

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	MASS Systems, AMETEK Ameron, LLC (0FRR4)
Cradle, Fire Extinguisher	91033-1	
Outlet Safety Cap	51831-1	
Resurfacing Tool, Discharge Boss	91044-1, -2	
Safety Chamber, Cartridge	91035-2	
TCPS Test Box	SS00200-1	MASS Systems, AMETEK Ameron, LLC (0FRR4)
Welding Fixture	91100-1	

ILLUSTRATED PARTS LIST



**Fire Extinguisher FX03400-1, -2 Exploded View
IPL Figure 1001**

ILLUSTRATED PARTS LIST

**Fire Extinguisher P/N FX03400-1, -2
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	FX03400-1, -2		FIRE EXT., 36 CUBIC INCH								RF
10	CT01400-1		.	CARTRIDGE							1
-15	MS29513-016		.	.	O-RING						1
-20	SU00950-1		.	.	TAG, CAUTION						1
25	FX03425-1		.	OUTLET, DISCHARGE							1
30	51870-2		.	SCREEN WELDMENT							1
35	MS29513-028		.	O-RING (SCD SU01251-28)							1
40	FX03420-1		.	ASSEMBLY, RUPTURE DISC (WELDED)							1
45	FX03435-1		.	.	RUPTURE DISC						1
50	SW00600-1		.	PRESSURE SWITCH, TEMP. COMPENSATED (WELDED)							1
55	FX03404-1		.	PLATE, IDENTIFICATION							1
-60	FX03410-1		.	WELDMENT, CONTAINER							1
65	FX03405-1		.	CHARGED CONTAINER							1

- Item not illustrated