ZONES: 133 **W/C NUMBER: 317M2601** **DATE:**
A/C NUMBER:
REV. DATE: 01/23/06
FREQUENCY: 1C

MFR P/N	DESCRIPTION	QTY
TTN95TY2	Solvent, Aliphatic Naptha -TT-N-95	A/R
BMS3-27	Compound, Corrosion Inhibiting	A/R

TOOLS	DESCRIPTION	QTY
Multimeter	Multimeter (Commercially Available)	1
Resistor	10k Ohm Resistor (Commercially Available)	1
DFM100	0-150 pounds scale, with hook and pad adapter kit	1

REFERENCES

Figure 1; AMM 20-40-12, 24-22-00, 26-21-00

MECH **INSP**

FAA Order: 8300.10

MPD Items: 26-070-00, 26-090-00, 26-100-00, 26-120-00, 26-130-00

_____ XXXXX 1. Engine fire extinguisher #1 and #2 bottle removal (Fig.1).

A. Open these circuit breakers on circuit breaker panel P6-2 and attach Do-Not-Close tags:

(1) 6B20 FIRE PROTECTION EXTINGUISHERS RIGHT.

(2) 6B22 FIRE PROTECTION EXTINGUISHERS LEFT.

(3) 6B23 FIRE PROTECTION EXTINGUISHERS ALTN R.

(4) 6B24 FIRE PROTECTION EXTINGUISHERS ALTN L.

B. Disconnect the electrical connectors [6] from the squibs [7].

WARNING: PUT A PROTECTIVE COVER ON THE SQUIB. IF YOU DO NOT, THE FIRE EXTINGUISHER BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

C. Install a protective cover on each squib [7].

D. Disconnect the electrical connector [5] from the pressure switch.

E. Remove the discharge line from both fire bottle discharge outlets.

NOTE: Loosen other fittings as necessary to move the discharge lines out of the way.

F. Remove the four mounting bolts [2] and washers [3].

WARNING: BE CAREFUL WHEN YOU MOVE THE FIRE EXTINGUISHER BOTTLE. IT IS HIGHLY PRESSURIZED AND HAS AN EXPLOSIVE CARTRIDGE AS A COMPONENT. ACCIDENTAL DISCHARGE OF THE FIRE EXTINGUISHER BOTTLE CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

G. Remove the #1 and #2 fire extinguishing bottle [1].

_____ _____ 2. Check the #1 bottle and record information as follows:

A. Perform a GVI of the #1 bottle, valving, safety relief devices, mounting brackets, and associated instrumentation.

B. Weigh the #1 bottle and record bottle weight.

(1) Bottle Weight:_____lbs.

(2) Replace bottle if weight is 0.10 lbs less than that marked on the nameplate. If bottle does not have a nameplate, use weight shown in Table 1.

NOTE: Replacement bottles must be weighed using this criteria prior to installation.

C. Verify the #1 bottle has a legible M-21 placard affixed to it.

(1) "Date of Next Insp./Expiration" should be marked N/A.

(2) "Date of Last Inspection" should indicate date of manufacture or last hydrostatic test, whichever is most recent.

NOTE: Date is marked on the bottle.

(3) If the placard is not present, complete the required information blocks on the new M-21 and affix it to the bottle.

D. Record the required #1 bottle information below.

(1) Part Number:_____

(2) Serial Number:_____

(3) Date of Manufacture:_____

XXXXX _____ 3. Check the #1 bottle squib cartridges and record information as follows:

A. If squib part number is not listed in Table 2, or if the squib will expire within 27 months, it must be replaced before continuing (AMM Task 26-21-02-000-801 and AMM Task 26-21-02-400-801).

(1) Left squib replaced Yes____No____

(2) Right squib replaced Yes____No____

B. Squibs must have the following information etched on an attached tag. If the tag is missing or illegible, a new tag must be installed IAW E.O. 737-26ID-2543.

(1) Left squib.

(a) Part Number:_____

(b) Mfg. Date:_____

(c) Expiration Date:_____

(2) Right squib.

(a) Part Number:_____

(b) Mfg. Date:_____

(c) Expiration Date:_____

_____ _____ 4. Check the #2 bottle and record information as follows:

A. Perform a GVI of the #2 bottle, valving, safety relief devices, mounting brackets, and associated instrumentation.

B. Weigh the #2 bottle and record bottle weight.

(1) Bottle Weight:_____lbs.

(2) Replace bottle if weight is 0.10 lbs less than that marked on the nameplate. If bottle does not have a nameplate, use weight shown in Table 1.

NOTE: Replacement bottles must be weighed using this criteria prior to installation.

C. Verify the #2 bottle has a legible M-21 placard affixed to it.

(1) "Date of Next Insp./Expiration" should be marked N/A.

(2) "Date of Last Inspection" should indicate date of manufacture or last hydrostatic test, whichever is most recent.

NOTE: Date is marked on the bottle.

(3) If the placard is not present, complete the required information blocks on the new M-21 and affix it to the bottle.

D. Record the required #2 bottle information below.

(1) Part Number:_____

(2) Serial Number:_____

(3) Date of Manufacture:_____

XXXXX _____ 5. Check the #2 bottle squib cartridges and record information as follows:

A. If squib part number is not listed in Table 2, or if the
| squib will expire within 27 months, it must be replaced before continuing (AMM Task 26-21-02-000-801 and

AMM Task 26-21-02-400-801).

(1) Left squib replaced Yes____No____

(2) Right squib replaced Yes____No____

B. Squibs must have the following information etched on an attached tag. If the tag is missing or illegible, a new tag must be installed IAW E.O. 737-26ID-2543.

(1) Left squib.

(a) Part Number:_____

(b) Mfg. Date:_____

(c) Expiration Date:_____

(2) Right squib.

(a) Part Number:_____

(b) Mfg. Date:_____

(c) Expiration Date:_____

6. Engine fire extinguisher bottle installation (Fig. 1).

_____ XXXXX A. Prepare for the installation.

(1) If the previous bottle was discharged, do these steps:

(a) Check the discharge tube for any debris.

NOTE: Pay particular attention to the discharge outlets at the engine.

(b) Examine the check valve to make sure the ball moves freely.

NOTE: It may be necessary to further disconnect the discharge tubes to get access to the check valve.

(2) Ensure the following circuit breakers on circuit breaker panel P6-2 are open and tagged.

(a) 6B20 FIRE PROTECTION EXTINGUISHERS RIGHT.

(b) 6B22 FIRE PROTECTION EXTINGUISHERS LEFT.

(c) 6B23 FIRE PROTECTION EXTINGUISHERS ALTN R.

(d) 6B24 FIRE PROTECTION EXTINGUISHERS ALTN L.

_____ XXXXX B. Install fire extinguisher #1 and #2 bottles as follows:

(1) Make sure the fire extinguisher bottle and support fixture mounting surfaces are clean.

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(2) Put the fire extinguisher bottle [1] in its correct position on the support bracket.

(3) Install the bolts [2] and washers [3].

(4) Do a check of the resistance between the fire extinguisher bottle [1] and the support bracket.

(a) Make sure the resistance is not more than 0.0025 ohm.

1) If the resistance is more than 0.0025 ohm, clean the bonding surfaces between the fire extinguisher bottle [1] and the support bracket with solvent, TT-N-95, Type II and retest.

(5) If the discharge head does not align with the hose assembly, do these steps:

(a) Loosen the discharge outlet gland nut and rotate the discharge port so it aligns with the tube assembly.

(b) Tighten the gland nut to 45-55 foot-pounds.

(c) Install lockwire on the gland nut.

(6) Apply a layer of compound, BMS3-27 to the outlet threads, outlet end, and outlet inner diameter where the tube assembly attaches to the discharge head.

(7) Connect the tube assembly to the discharge head.

NOTE: Yellow is used to show the plumbing which supplies extinguishant to engine number 1. Blue is used to show the plumbing which supplies extinguishant to engine number 2.

(8) Remove any unwanted compound, BMS3-27.

(9) Tighten the nut to 342-378 pound-inches on the tube assembly.

_____ XXXXX C. Do these steps to connect the #1 and #2 bottle squib connectors [6] to the squib [7].

WARNING: DO NOT TOUCH THE SQUIB BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

(1) Before you touch the squib, do the following procedures:

(a) ESDS handling for metal encased unit removal (AMM Task 20-40-12-000-802 p201).

(b) ESDS handling for metal encased unit installation (AMM Task 20-40-12-400-802 p201).

(2) Remove the protective cover from the squib [7].

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS, THE SQUIB CAN ACCIDENTALLY FIRE AND CAUSE THE FIRE EXTINGUISHER BOTTLE TO

RELEASE ITS CONTENTS. ACCIDENTAL DISCHARGE OF THE FIRE EXTINGUISHER BOTTLE CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

(3) Make sure there is no voltage between pins 3 and 4 as well as pins 6 and 7 of the electrical connector [6].

(a) Connect a 10k ohm resistor across the meter leads to remove any stray voltage from the electrical connector.

(4) Connect the electrical connector [6] to the squib [7].

NOTE: The squib pins can cause damage to the electrical connector if the pins do not correctly engage the connector.

_____ XXXXX D. Connect the electrical connectors [5] to the #1 and #2 bottle pressure switches.

_____ XXXXX 7. Engine fire extinguisher bottle installation test.

A. Remove the Do-Not-Close tags and close these circuit breakers on circuit breaker panel P6-2:

(1) 6B20 FIRE PROTECTION EXTINGUISHERS RIGHT.

(2) 6B22 FIRE PROTECTION EXTINGUISHERS LEFT.

(3) 6B23 FIRE PROTECTION EXTINGUISHERS ALTN R.

(4) 6B24 FIRE PROTECTION EXTINGUISHERS ALTN L.

B. Do this task: Engine fire extinguishing bottle squib circuit test (AMM Task 26-21-00-730-801).

C. Do this task: Engine fire extinguishing bottle pressure switch test (AMM Task 26-21-00-730-802).

_____ XXXXX 8. Put the airplane back to its usual condition.

A. Remove external power as required (AMM Task 24-22-00-860-814).

Table 1
Engine Fire Extinguisher Bottle

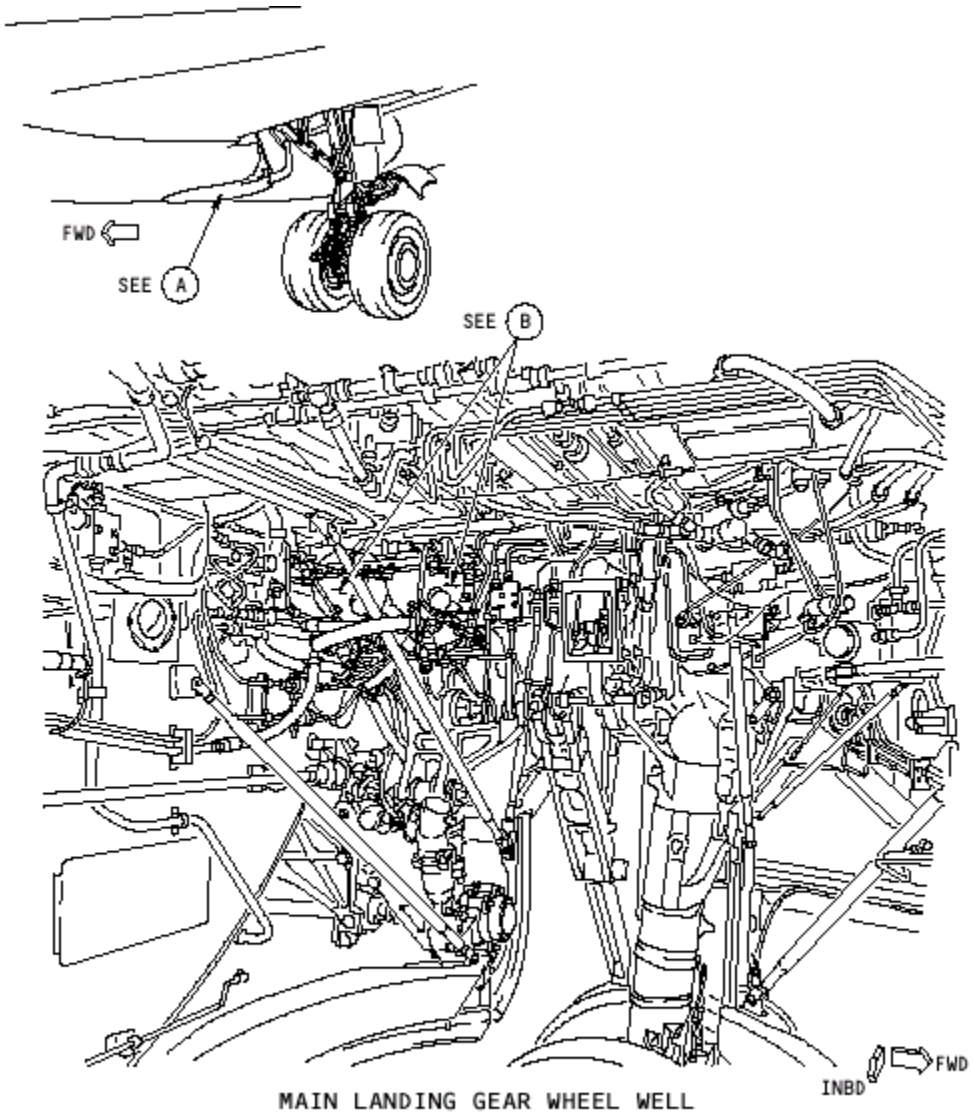
Part Number	Life Limit	CCN	Weight (lbs)
33700002	unlimited	2630008	* 12.97

NOTES: * Maximum charged container weight including discharge head(s), cartridge(s) and protective cap(s) for the cartridge(s). Weight recorded on the container's data plate may indicate less than those listed above because the last time the unit was recharged, the listed weight may not include discharge heads and cartridges. In the event of conflict between the listed weight and the data plate, the data plate takes precedence.

Table 2
Engine Fire Extinguisher Bottle Squibs

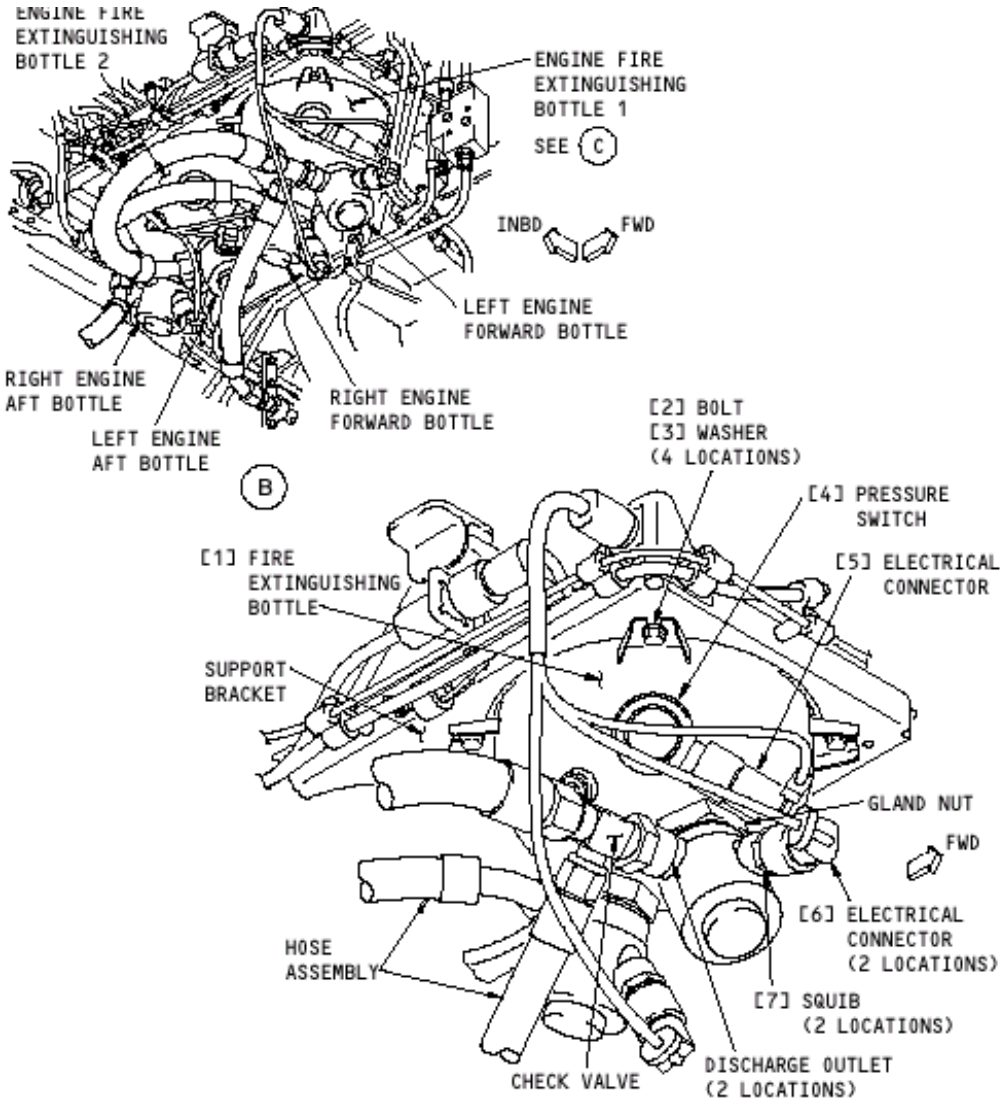
CCN	Part Number	Description	Total Life (yrs)	Service Life (yrs)
2630164	30903937 or 30903871	Engine Squib (Fwd)	15	10
2630163	30903938 or 30903872	Engine Squib (Aft)	15	10

********** End of Workcard **********



Engine Fire Extinguishing Bottle Installation

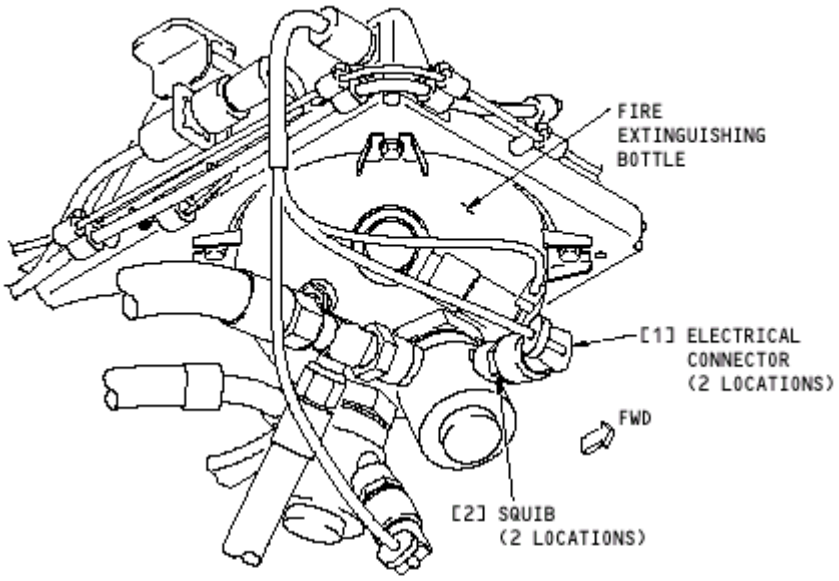
ENGINE FIRE BOTTLE SQUIB INSTALLATION	FIGURE 1 SHEET 1 OF 3	10/30/2001



ENGINE FIRE EXTINGUISHING BOTTLE 1
(ENGINE FIRE EXTINGUISHING BOTTLE 2 IS EQUIVALENT)

C

Engine Fire Extinguishing Bottle Installation



ENGINE FIRE EXTINGUISHING BOTTLE
(EXAMPLE)

B

Engine Fire Extinguishing Bottle Squib Installation