# CHAPTER 26 — FIRE PROTECTION

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## FIGURES

# FIRE PROTECTION

## 26-1. FIRE PROTECTION SYSTEMS.

Fire protection items include engine fire detection elements and extinguishers, baggage compartment smoke detector, and two cabin mounted, hand-held, portable fire extinguishers.

# FIRE DETECTION

## 26-2. ENGINE FIRE DETECTION

Engine compartment fire detection consists of two heat sensing elements and two flexible cable assemblies for each power section of the engine. A press-to-test switch is provided to test the system.

If a fire or overheat condition occurs, the heat sensing elements in the affected power section close a circuit, which causes the corresponding FIRE PULL handle (located on the instrument panel) to illuminate. Pulling the handle turns off the heater by de-energizing both bleed air valves, and causes the engine air management bypass door and the fuel shutoff valve to close, shutting off both air and fuel to the affected power section. Pulling FIRE 1 PULL or FIRE 2 PULL handle also arms the main and reserve fire extinguisher circuits for the corresponding power section. Placing the FIRE EXT switch to MAIN causes the main fire extinguisher bottle to discharge extinguishing agent (Halon and nitrogen) into the selected power section compartment. Placing the FIRE EXT switch to RESERVE discharges the reserve fire extinguisher bottle into the same compartment.

Pressing the FIRE EXT PRESS TO TEST switch places a low resistance across each of the fire sensing elements to simulate a fire/overheat condition. If sensing elements are operating properly, both FIRE 1 PULL and FIRE 2 PULL handles will illuminate.

## 26-3. ENGINE UPPER FIRE DETECTION SENSING ELEMENTS

The upper fire detection sensing elements are mounted on the underside of the upper engine cowling (Figure 26-1).

**NOTE**

Maintenance procedures are the same for both left and right upper sensing elements.

## 26-4. Engine Upper Fire Detection Sensing Elements — Removal

**1.** Verify all electrical power is removed from helicopter.

**2.** Disconnect electrical connectors (10 and 11, Figure 26-1).

**3.** Remove screw (9) from clamp (8). Remove screws from six remaining clamps in same manner.

**4.** Spreading clamps as little as possible, remove sensing element (2).

## 26-5. Engine Upper Fire Detection Sensing Elements — Inspection and Repair

Refer to Chapter 96 for inspection and functional testing of sensing elements. Replace elements and/or retaining hardware if unserviceable.

## 26-6. Engine Upper Fire Detection Sensing Elements — Installation

**MATERIALS REQUIRED**

Refer to BHT-ALL-SPM for specifications.

| NUMBER | NOMENCLATURE |
|---|---|
| C-405 | Lockwire |

**1.** Verify all electrical power is removed from helicopter.

**2.** Position sensing element (2, Figure 26-1) on upper cowl as shown in View A.

**3.** Spreading clamps (8) as little as possible, install sensing element (2) in clamps.

**4.** Install screws (9) in clamps (8).

**5.** Connect electrical connectors (10 and 11). Apply lockwire (C-405).

**6.** Perform operational check (paragraph 26-11).

## 26-7. ENGINE FIREWALL FIRE DETECTION SENSING ELEMENTS.

**NOTE**

Maintenance procedures are the same for both left and right sensing elements.

### 26-8. Removal.

**1.** Verify all electrical power removed from helicopter.

**2.** Disconnect electrical connectors (14 and 15, figure 26-1 ).

**3.** Remove screws (13) from clamps (12).

**4.** Spread clamps as little as possible and remove sensing element.

### 26-9. Inspection and repair.

Refer to Chapter 96 for inspection of sensing elements. Replace elements and/or retaining hardware if unserviceable.

### 26-10. Installation.

**1.** Verify all electrical power removed from helicopter.

**2.** Position sensing element in clamps (12, figure 26-1 ).

**3.** Install retaining screws (13) in clamps.

**4.** Connect electrical connectors (14 and 15).

**5.** Perform operational check ( paragraph 26-11 ).

### 26-11. Operational check.

Perform operational check after any maintenance on fire detection system ( Chapter 96 ).

## 26-12. BAGGAGE COMPARTMENT SMOKE DETECTION SYSTEM.

The baggage compartment smoke detector is a closed assembly housing solid-state electronic components and a light sensitive detector. The detector (4, figure 26-2 ) is located in the forward end of the baggage compartment roof. A protective screen is installed over the detector to provide protection from items stowed in the compartment. The instant smoke reduces light transmission in the baggage compartment 30 to 35% below that of clear air, the detector causes the BAGGAGE FIRE warning light on the instrument panel to flash intermittently. For more detailed description and wiring diagrams, refer to Chapters 96 and 98.

The BAGGAGE FIRE TEST switch provides a means to test the baggage smoke detection system.

## 26-13. BAGGAGE COMPARTMENT SMOKE DETECTOR.

The smoke detector is a sealed, solid-state unit. Refer to Chapter 96 fo additional information.

### 26-14. Removal.

**1.** Remove all electrical power from helicopter.

**2.** Open baggage compartment door (9, figure 26-2 ).

**3.** Remove screws (7) and screen (6).

**4.** Disconnect electrical connector (5).

**5.** Remove screws (3) and washers (2). Remove smoke detector (4).

### 26-15. Inspection.

**1.** Inspect smoke detector for physical damage.

**2.** Inspect electrical connector for pin alignment and contact retention.

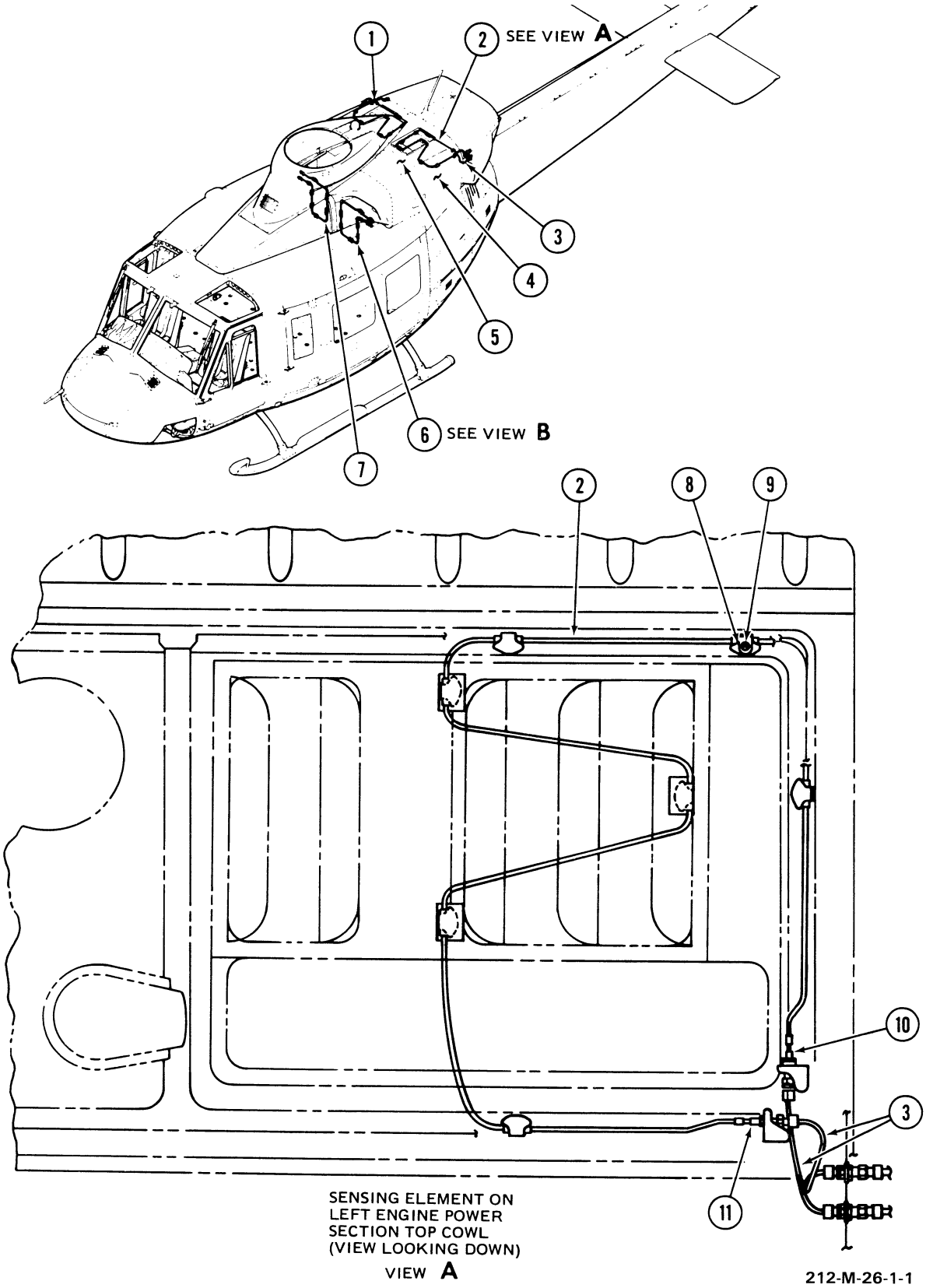
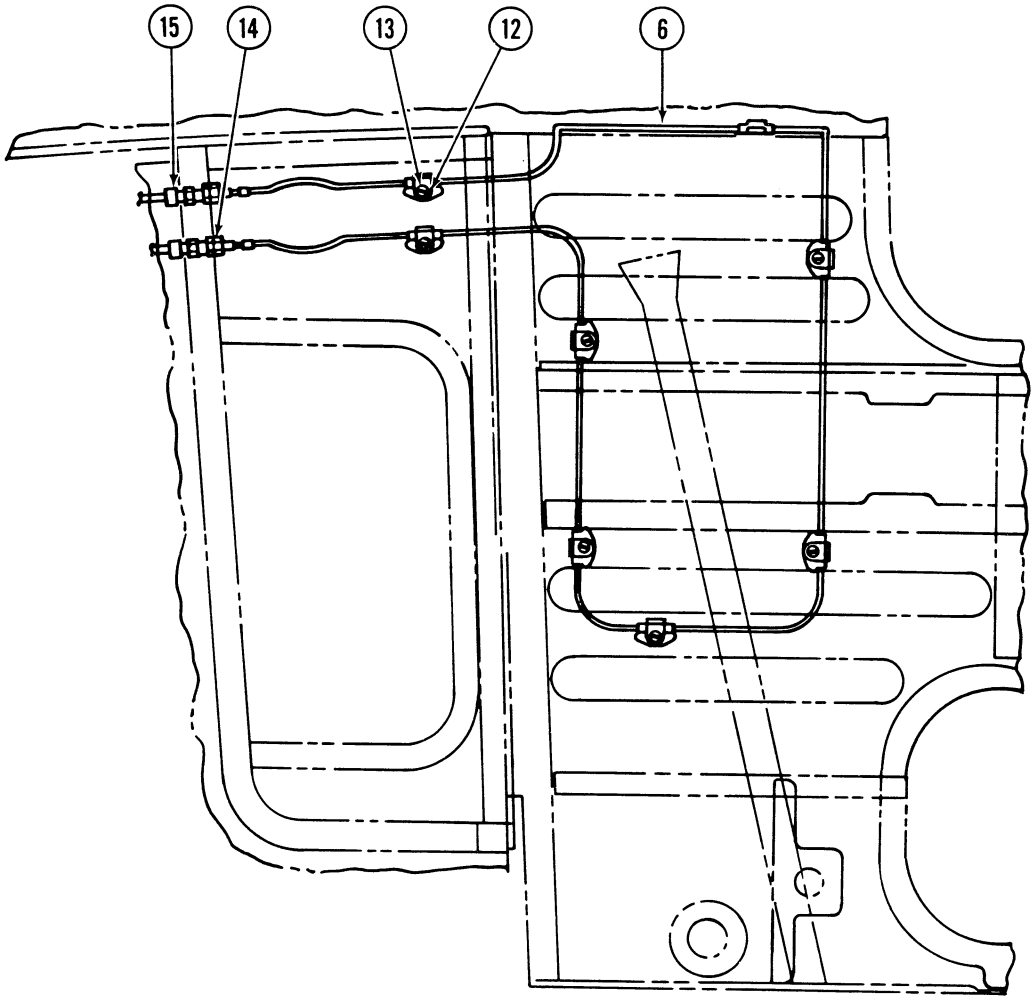



**Figure 26-1. Engine compartment fire detection sensing element (sheet 1 of 2)**




SENSING ELEMENT ON
LEFT ENGINE POWER
SECTION FIREWALL
(VIEW LOOKING FORWARD)
VIEW **B**

1. Sensing element (right engine power section top cowl)
2. Sensing element (left engine power section top cowl)
3. Flex cable
4. Upper engine cowling
5. Engine cowl top panel
6. Sensing element (left power section firewall)
7. Sensing element (right power section firewall)
8. Clamp (seven required)
9. Screw
10. Electrical connector
11. Electrical connector
12. Clamp (eight required)
13. Screw
14. Electrical connector
15. Electrical connector

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**Figure 26-1. Engine compartment fire detection sensing element (sheet 2)**

**26-16. Installation.**

**1.** Align mounting holes in detector (4, figure 26-2) with airframe mounting holes.

**2.** Install screws (3) and washers (2).

**3.** Connect electrical connector (5).

**4.** Install screen (6) with screws (7) and washers (8).

**5.** Close baggage compartment door.

**6.** Perform operational check ( paragraph 26-17).

**26-17. Operational check.**

Perform operational check after any maintenance on baggage compartment smoke detection system ( Chapter 96 ).

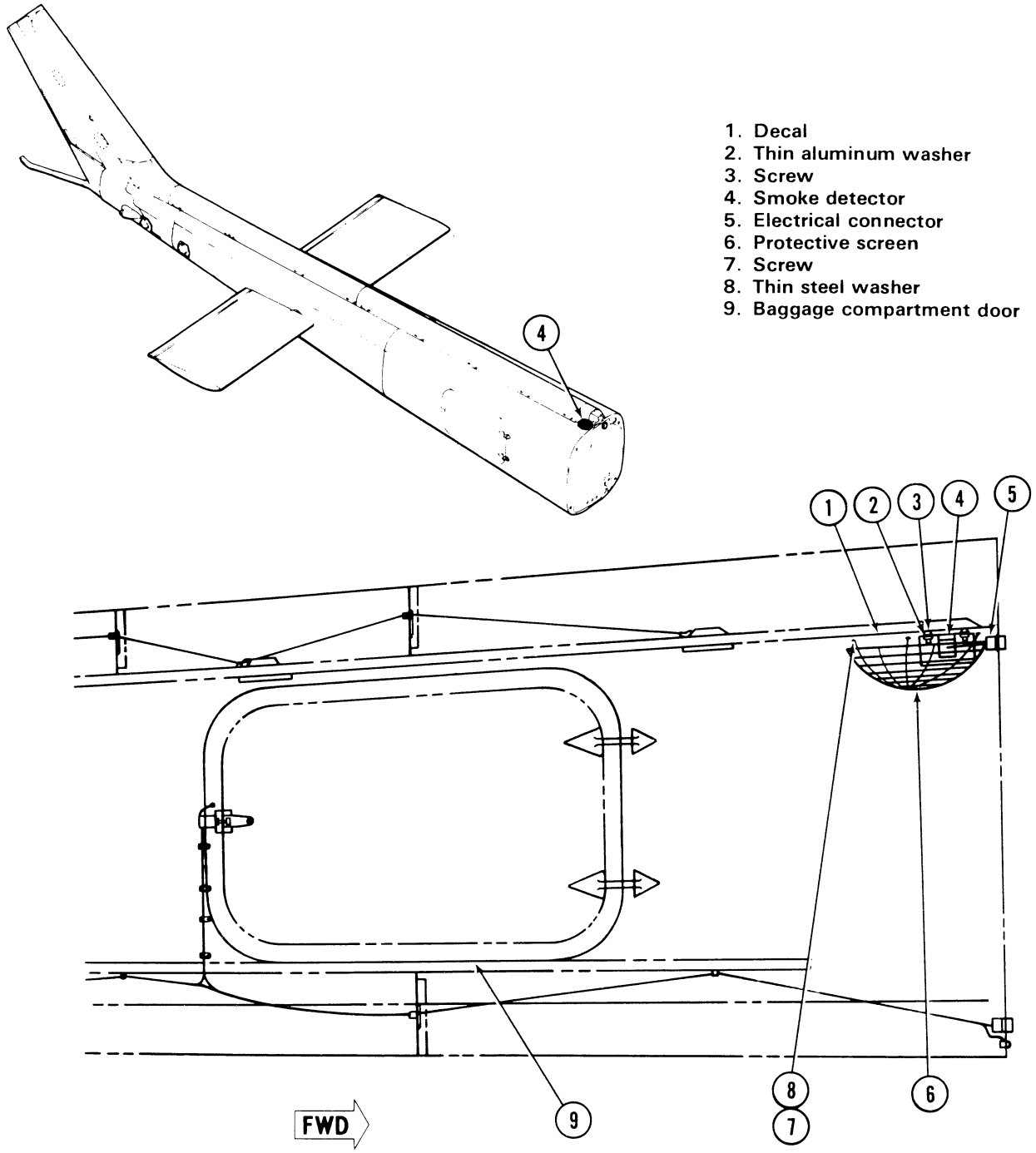



**Figure 26-2. Baggage compartment smoke detector**

# FIRE EXTINGUISHERS

## 26-18. FIRE EXTINGUISHERS.

The helicopter is equipped with two engine compartment fire extinguishers and two portable, cabin mounted fire extinguishers.

## 26-19. ENGINE COMPARTMENT FIRE EXTINGUISHERS.

The two engine compartment fire extinguishing bottles are interconnected by tubing to allow either container to be discharged into either power section compartment ( figure 26-3 ). Therefore, in the event discharging the first (main) bottle fails to extinguish a fire, the second (reserve) bottle may be discharged into the same compartment.

The containers ( figure 26-4 ) are spherical steel assemblies charged with freon and nitrogen to approximately 600 psi. If the container is discharged, no special cleaning is required because of the non-corrosive properties of the extinguishing agent. Each container has two outlets each equipped with electrically actuated pyrotechnic cartridges, a guarded pressure gage, and a fill and thermal relief fitting connected to a discharge indicator disc. A pressure/temperature correction decal is attached to each cylinder to aid during inspection and servicing.

In the event a container is subjected to excessive heat, the fill and thermal relief fitting will open and allow the extinguishing agent to escape. During this process, the discharge indicator disc will be blown out to provide a visual indication of the event.

For further operational information and wiring diagrams, refer to Chapters 96 and 98.

**NOTE**

Maintenance procedures for both fire extinguisher containers are the same.

**WARNING**

THE FIRE EXTINGUISHER CONTAINERS ARE PRESSURIZED AND EQUIPPED WITH PYRO-TECHNIC CARTRIDGES. ANY TIME CONNECTING WIRES ARE DISCONNECTED, SHORTING DEVICES (JUMPER WIRES) (45 AND 46, FIGURE 26-4 ) SHALL BE INSTALLED TO PREVENT INADVERTANT DETONATION.

DO NOT USE A VOLTMETER, FLASHLIGHT BATTERY, CON-TINUITY LIGHT OR SIMILAR DEVICE TO TEST CARTRIDGES.

DO NOT LOOSEN FITTINGS AT DISCHARGE OUTLETS (5 OR 29), PRESSURE INDICATOR GAGE (25), OR FILL AND THERMAL RELIEF FITTING (14) WHEN CONTAINER IS PRESSURIZED.

ENSURE NO POWER IS APPLIED TO HELICOPTER ELECTRICAL SYSTEMS AND HELICOPTER IS PROPERLY GROUNDED WHILE PERFORMING MAINTENANCE ON FIRE EXTINGUISHING SYSTEM

## 26-20. Removal.

**WARNING**

REMOVE HELICOPTER WIRING CONNECTORS ONE AT A TIME AND INSTALL JUMPER WIRE (SHORTING PLUG) AT VACANT TERMINAL PRIOR TO REMOVING FURTHER WIRING. TAG DISCONNECTED WIRES FOR REINSTALLATION IN PROPER LOCATION.

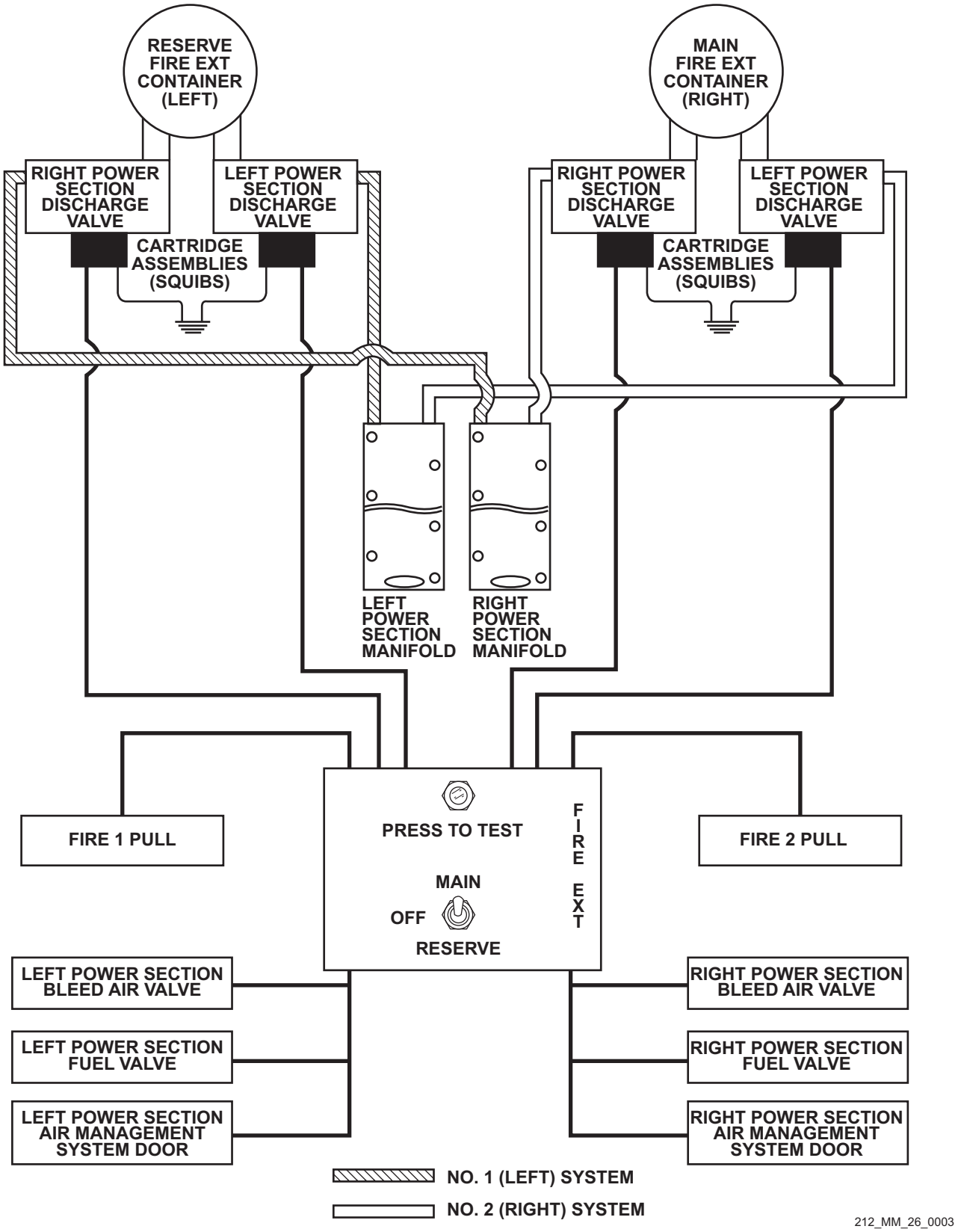



**Figure 26-3. Engine Compartment Fire Extinguisher Schematic**

**1.** Verify all electrical power removed from helicopter and helicopter is properly grounded.

**2.** Open engine cowling to gain access to extinguisher bottles.

**3.** Remove nut (37, figure 26-4 ). Tag and remove wire (36).

**4.** Install jumper wire (shorting plug) (45) on terminal (35) and install nut (37).

**5.** Remove nut (34) and wire (32) with nipple (33). Tag wire (32).

**6.** Install loose end of jumper wire (45) on terminal (31) with nut (34).

**7.** Remove nut (41) and wire (43) with nipple (42). Tag wire (43).

**8.** Install jumper wire (46) on terminal (44) and install nut (41).

**9.** Remove nut (38) and wire (39). Tag wire (39).

**10.** Install loose end of jumper wire (46) on terminal (40) with nut (38)

**11.** Disconnect tube (3) from discharge outlet (5).

**12.** Disconnect tube (18) from discharge outlet (29).

**13.** Remove hose (16) from fitting (14).

**14.** Remove bolts (8 and 10) and washers (7 and 11).

**15.** Remove bolt (12), washer (13), and nut (15). Remove container from supports (6 and 17).

## 26-21. Inspection.

**1.** Inspect container for obvious damage. Superficial damage that does not affect container structural integrity is acceptable without repair. If damage is such that loss of structural integrity is suspected, container shall be replaced.

**2.** Inspect temperature/pressure correction decal for security and legibility.

**3.** Inspect pressure indicator gage (25, figure 26-4 ) for acceptable range as shown on temperature/pressure correction table decal.

**4.** Replace or recharge container if empty.

**5.** Inspect manifolds (2 and 28) and forward tubes (1) for obstructions or restrictions in holes provided for discharge.

## 26-22. Repair/replacement.

### MATERIALS REQUIRED

Refer to BHT- ALL- SPM for specification and source.

| NUMBER | NOMENCLATURE |
|---|---|
| C-405 | Lockwire |

**WARNING**

THE FIRE EXTINGUISHER CONTAINERS ARE PRESSURIZED AND EQUIPPED WITH PYROTECHNIC CARTRIDGES. ANY TIME CONNECTING WIRES ARE DISCONNECTED, SHORTING DEVICES (JUMPER WIRES) (45 AND 46, FIGURE 26-4 ) SHALL BE INSTALLED TO PREVENT INADVERTANT DETONATION.

DO NOT USE A VOLTMETER, FLASHLIGHT BATTERY, CONTINUITY LIGHT OR SIMILAR DEVICE TO TEST CARTRIDGES.

DO NOT LOOSEN FITTINGS AT DISCHARGE OUTLETS (5 OR 29), PRESSURE INDICATOR GAGE (25), OR FILL AND THERMAL RELIEF FITTING (14) WHEN CONTAINER IS PRESSURIZED.

ENSURE NO POWER IS APPLIED TO HELICOPTER ELECTRICAL

SYSTEMS AND HELICOPTER IS PROPERLY GROUNDED WHILE PERFORMING MAINTENANCE ON FIRE EXTINGUISHING SYSTEM.

**1.** Repair of the fire extinguisher system components is limited to replacement of unserviceable parts. For recharging or leak testing of fire extinguisher containers, refer to appropriate Vendors Manuals. Recharge fire extinguisher containers as required at a facility equipped and authorized to service extinguisher containers.

**2.** Refer to Chapter 4 for cartridge retirement and replacement schedule. For cartridge testing, refer to appropriate Vendors Manuals. Replace cartridges as required, see step 4., below.

**3.** Replace container temperature/pressure table decal if illegible or otherwise unserviceable.

**4.** Replacement of cartridges.

**WARNING**

REMOVE HELICOPTER WIRING CONNECTORS ONE AT A TIME AND INSTALL JUMPER WIRE (SHORTING DEVICE) AT VACANT TERMINAL PRIOR TO REMOVING FURTHER WIRING. TAG DISCONNECTED WIRES FOR REINSTALLATION IN PROPER LOCATION.

THE CARTRIDGE IS A PYROTECHNIC DEVICE. INADVERTENT DETONATION OF THE CARTRIDGE CAN CAUSE PERSONNEL INJURY. FOR SAFE HANDLING, THE ELECTRICAL CONNECTION PINS MUST BE SHORTED TOGETHER. THE SHORTING DEVICE MUST BE REMOVED BEFORE TESTING OR CONNECTING THE CARTRIDGE TO THE HELICOPTER WIRING.

**NOTE**

Replacement procedures for fire extinguisher cartridges are typical. The cartridges can be removed or installed with the container pressurized.

**a.** Replace (HTL Industries) cartridges (4 and 30, figure 26-4 ) in containers (9 and 22) as follows:

**(1)** Disconnect battery and verify all electrical power is removed from helicopter and helicopter is properly grounded.

**(2)** Open engine cowling to gain access to fire extinguisher containers.

**(3)** Remove nut (37). Tag and remove electrical wire (36) from terminal (35).

**(4)** Install jumper wire (shorting device) (45) on terminal (35) and install nut (37).

**(5)** Install loose end of jumper wire (shorting device) (45, detail B) on terminal (31) with nut (34). The jumper wire (shorting device) (45) must remain connected at all times when the cartridge (30) is disconnected from the helicopter wiring.

**(6)** Remove nut (41) and wire (43) with nipple (42). Tag wire (43).

**(7)** Install jumper wire (shorting device) (46) on terminal (44) and install nut (41).

**(8)** Remove nut (38) and wire (39). Tag wire (39).

**(9)** Install loose end of jumper wire (shorting device) (46) on terminal (40) with nut (38). The jumper wire (shorting device) (46) must remain connected at all times when the cartridge (4) is disconnected from the helicopter wiring.

**WARNING**

TO PREVENT ACCIDENTIAL DISCHARGE OF CONTAINER

DURING CARTRIDGES (4 AND 30) REPLACEMENT, THE LARGE (1-1/4 INCH) HEX HOUSING ASSEMBLIES (4A AND 30A) MUST BE HELD TO PREVENT TURNING.

**(10)** Remove lockwire from housing assemblies (4A and 30A) and cartridges (4 and 30).

**CAUTION**

DO NOT LOOSEN THE HOUSING ASSEMBLIES (4A AND 30A). THIS MAY CAUSE THE EXTINGUISHER TO DISCHARGE AND CAUSE SERIOUS INJURY.

**(11)** Remove cartridges (4 and 30) from housing assemblies (4A and 30A) by unscrewing the cartridge while holding the hexagonal head of the housing assemblies (4A and 30A), to prevent accidental discharge. Discard seal.

**(12)** Install new seal on cartridges (4 and 30). Install cartridges (4 and 30) in housing assemblies (4A and 30A). Hold hexagonal head of housing assemblies (4A and 30A) with a wrench while tightening cartridges (4 and 30) to prevent excessive torque on housing assemblies (4A and 30A). Torque cartridges (4 and 30) to 70 to 80 inch pounds (7.91 to 9.04 Nm).

**(13)** Install lockwire (C-405) on housing assemblies (4A and 30A) and cartridges (4 and 30).

**WARNING**

REFER TO WIRING DIAGRAM (FIGURE 26-6) PRIOR TO CONNECTING WIRES TO CARTRIDGES (4 AND 30, FIGURE 25-4). ENSURE WIRES ARE INSTALLED ON CORRECT TERMINALS.

REMOVE ENDS OF JUMPER WIRES ONE AT A TIME AND INSTALL HELICOPTER WIRING TO EACH TERMINAL AS JUMPER WIRE IS REMOVED.

**(14)** Remove one end of jumper wire (shorting device) (46). Install correct helicopter wire using attaching nut. Remove remaining end of jumper wire and install correct helicopter wire. Verify attaching hardware is installed and secure.

**(15)** Repeat sub subordinate step 14., above for jumper wire (45).

**(16)** Connect battery.

**b.** Replace (Walter Kidde & Co. Inc) cartridges (4 and 30, figure 26-4) in containers (9 and 22) as follows:

**(1)** Disconnect battery and verify all electrical power is removed from helicopter and helicopter is properly grounded.

**(2)** Open engine cowling to gain access to fire extinguisher containers.

**(3)** Remove nut (37). Tag and remove electrical wire (36) from terminal (35).

**(4)** Install jumper wire (shorting device) (45) on terminal (35) and install nut (37).

**(5)** Install loose end of jumper wire (45, detail B) on terminal (31) with nut (34). The jumper wire (shorting device) (45) must remain connected at all times when the cartridge (30) is disconnected from the helicopter wiring.

**(6)** Remove nut (41) and wire (43) with nipple (42). Tag wire (43).

**(7)** Install jumper wire (shorting device) (46) on terminal (44) and install nut (41).

**(8)** Remove nut (38) and wire (39). Tag wire (39).

**(9)** Install loose end of jumper wire (shorting device) (46) on terminal (40) with nut (38). The jumper wire (shorting device) (46) must remain connected at all times when the cartridge (4) is disconnected from the helicopter wiring.

**WARNING**

TO PREVENT ACCIDENTIAL DISCHARGE OF CONTAINER DURING CARTRIDGES (4 AND 30) REPLACEMENT, THE LARGE (1-1/4 INCH) HEX HOUSING ASSEMBLIES (4A AND 30A) MUST BE HELD TO PREVENT TURNING.

**(10)** Remove lockwire from housing assemblies (4A and 30A) and cartridges (4 and 30).

**CAUTION**

DO NOT LOOSEN THE HOUSING ASSEMBLIES (4A AND 30A). THIS MAY CAUSE THE EXTINGUISHER TO DISCHARGE AND CAUSE SERIOUS INJURY.

**(11)** Remove cartridges (4 and 30) from housing assemblies (4A and 30A) by unscrewing the cartridge while holding the hexagonal head of the housing assemblies (4A and 30A), to prevent accidental discharge. Discard seal.

**(12)** Install new seal on cartridges (4 and 30). Install cartridges (4 and 30) in housing assemblies (4A and 30A). Hold hexagonal head of housing assemblies (4A and 30A) with a wrench while tightening cartridges (4 and 30) to prevent excessive torque on housing assemblies (4A and 30A). Torque cartridges (4 and 30) to 150 to 200 inch pounds (16.95 to 22.60 Nm).

**(13)** Install lockwire (C-405) on housing assemblies (4A and 30A) and cartridges (4 and 30).

**WARNING**

REFER TO WIRING DIAGRAM (FIGURE 26-6) PRIOR TO CONNECTING WIRES TO CARTRIDGES (4 AND 30, FIGURE 26-4). ENSURE WIRES ARE INSTALLED ON CORRECT TERMINALS.

REMOVE ENDS OF JUMPER WIRES ONE AT A TIME AND INSTALL HELICOPTER WIRING TO EACH TERMINAL AS JUMPER WIRE IS REMOVED.

**(14)** Remove one end of jumper wire (shorting device) (46). Install correct helicopter wire using attaching nut. Remove remaining end of jumper wire and install correct helicopter wire. Verify attaching hardware is installed and secure.

**(15)** Repeat sub subordinate step 14., above for jumper wire (45).

**(16)** Connect battery.

## 26-23. Installation.

**NOTE**

Activation of system does not necessitate any maintenance to engine or cowling area due to extinguishing agent.

**1.** Position container (9, figure 26-4) in supports (6 and 17).

**2.** Install bolts (8 and 10) with washers (7 and 11).

**3.** Install bolt (12), washer (13), and nut (15).

**4.** Install hose (16) on fitting (14).

**5.** Install tube (3) on discharge outlet (5).

**6.** Install tube (18) on discharge outlet (29).

**WARNING**

REFER TO WIRING DIAGRAM ( FIGURE 26-6 ) PRIOR TO CONNECTING WIRES TO CARTRIDGES. ENSURE WIRES ARE INSTALLED ON CORRECT TERMINALS.

REMOVE ENDS OF JUMPER WIRES ONE AT A TIME AND INSTALL HELICOPTER WIRING TO EACH TERMINAL AS JUMPER WIRE IS REMOVED.

**7.** Remove one end of jumper wire (46). Install correct helicopter wire using attaching nut. Remove remaining end of jumper wire and install correct helicopter wire. Verify attaching hardware is secure.

**8.** Repeat step 7. above for jumper wire (45).

### 26-24. DISCHARGE INDICATOR DISC.

Maintenance procedures for both discharge indicator discs are identical.

**WARNING**

ENSURE NO POWER IS APPLIED TO HELICOPTER ELECTRICAL SYSTEMS AND HELICOPTER IS PROPERLY GROUNDED WHILE PERFORMING MAINTENANCE ON FIRE EXTINGUISHING SYSTEM.

### 26-25. Removal.

**1.** Remove all electrical power from helicopter.

**2.** Disconnect hose (20, figure 26-4 ) from nipple (50).

**3.** Remove screws (47), washers (48), and nuts (49).

**4.** Remove indicator disc (23).

### 26-26. Inspection.

Inspect indicator discs on both container for missing red indicator, secure installation, and obvious damage. A missing red disc indicates container may have discharged through fill and thermal relief fitting.

### 26-27. Installation.

**1.** Position indicator disc (23, figure 26-4 ) in support (24).

**2.** Install screws (47), washers (48), and nuts (49).

**3.** Install hose (20) on nipple (50).

**4.** Install hose (20) on thermal relief fitting (51).

### 26-28. PORTABLE FIRE EXTINGUISHERS AND BRACKETS.

Two hand-held, portable fire extinguishers are installed in quick release brackets at the locations illustrated in figure 26-5 . These extinguishers are filled with monobromo-trifluoromethane extinguishing agent.

**NOTE**

Maintenance procedures for both fire extinguishers and brackets are identical.

### 26-29. Removal.

**1.** Release clamp (7, figure 26-5 ) and remove fire extinguisher.

**2.** Remove bolts (8) and washer (9). Remove bracket (11) and washers (10).

### 26-30. Inspection.

**1.** Inspect fire extinguisher (6, figure 26-5 ) for state of charge by weight (or by visual indicator, if installed).

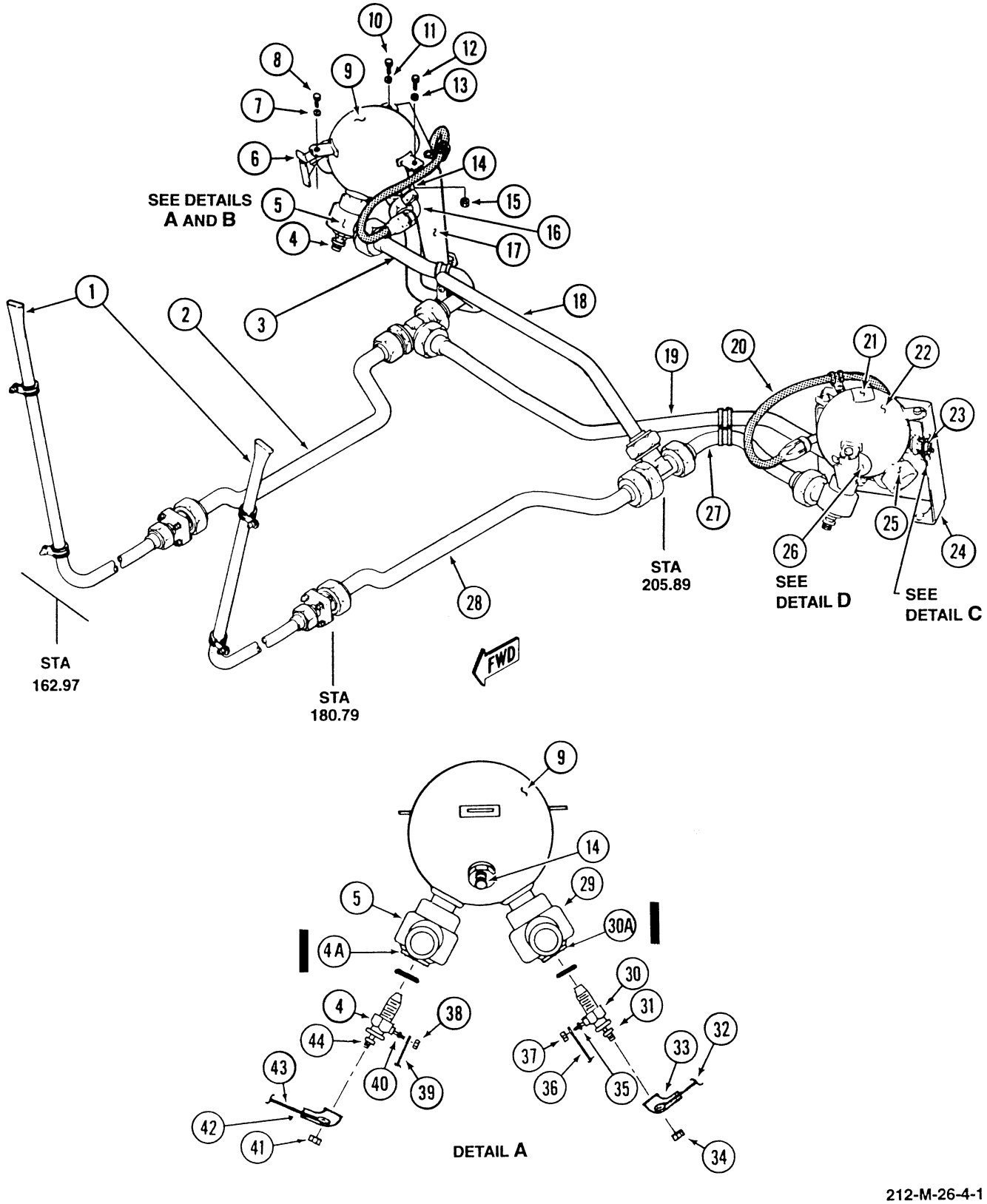
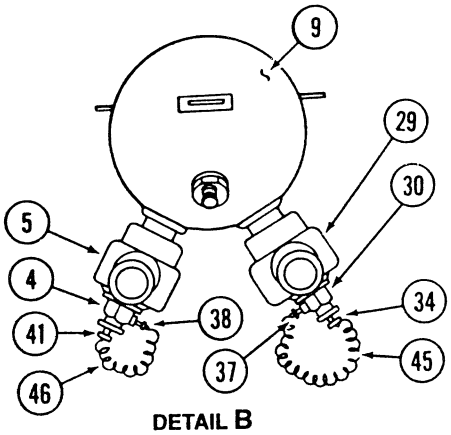
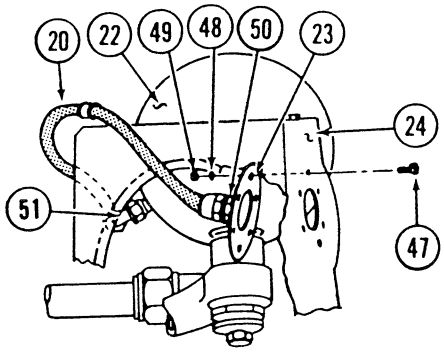



**Figure 26-4. Engine compartment fire extinguisher (sheet 1 of 2)**




DETAIL B




Left discharge indicator disc (23) installation shown.
Right discharge indicator disc installation is similar.

DETAIL C

| TEMPERATURE/PRESSURE CORRECTION TABLE | | | |
|---|---|---|---|
| Temperature Degrees F | (C) | Pressure Minimum | Maximum |
| -65 | (-54) | 271 | 344 |
| -60 | (-51) | 275 | 350 |
| -40 | (-40) | 292 | 370 |
| -20 | (-29) | 320 | 400 |
| 0 | (-18) | 355 | 437 |
| +20 | (-7) | 396 | 486 |
| +40 | (4) | 449 | 540 |
| +60 | (16) | 518 | 618 |
| +80 | (27) | 593 | 702 |
| +100 | (38) | 691 | 784 |
| +125 | (52) | 785 | 902 |

DETAIL D

1. Forward tube
2. Manifold
3. Tube
4. Cartridge
- 4A. Housing assembly
5. Discharge outlet
6. Support
7. Thin aluminum washer
8. Bolt
9. Fire extinguisher container (right)
10. Bolt
11. Thin aluminum washer
12. Bolt
13. Thin aluminum washer
14. Fill and thermal releif fitting
15. Nut
16. Hose assembly
17. Support
18. Tube
19. Tube
20. Hose
21. Name plate
22. Fire extinguisher container (left)
23. Discharge indicator disc
24. Support
25. Pressure indicator gage
26. Temperature/Pressure correction table
27. Tube
28. Manifold
29. Discharge outlet
30. Cartridge
- 30A. Housing assembly
31. Terminal (hot wire)
32. Electrical wire
33. Electrical terminal nipple
34. Nut
35. Terminal (ground wire)
36. Electrical wire
37. Nut
38. Nut
39. Electrical wire
40. Terminal (ground wire)
41. Nut
42. Electrical terminal nipple
43. Electrical wire
44. Terminal (hot wire)
45. Jumper wire (shorting device)
46. Jumper wire (shorting device)
47. Screw
48. Washer (AN960C6L)
49. Nut
50. Nipple
51. Fill and thermal relief fitting

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**Figure 26-4. Engine compartment fire extinguisher (sheet 2)**

**2.** Record inspection on tag attached to extinguisher (detail A).

**3.** Inspect bracket and attaching hardware for obvious damage and security of installation and serviceability.

**26-31. Repair.**

**1.** Recharge fire extinguisher as required at a facility equipped and authorized to service monobromotrifluoromethane type extinguishers.

**2.** Replace unserviceable bracket parts and retaining hardware.

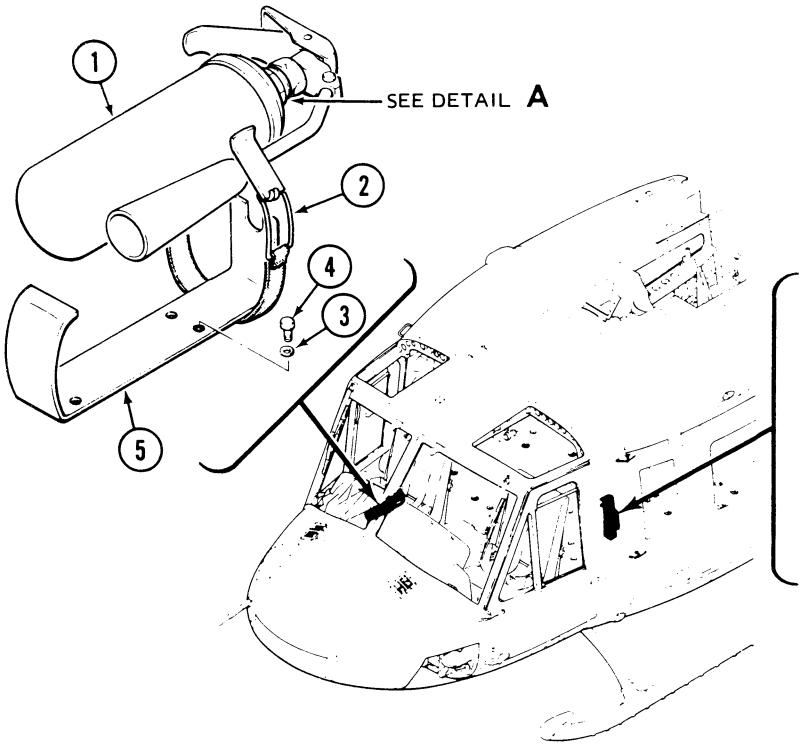
**26-32. Installation.**

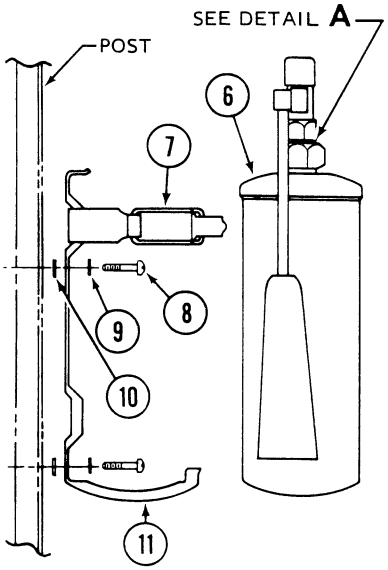
**1.** Position bracket (11, figure 26-5 ) in position with washers (10) between bracket and mounting surface.

**2.** Install bolt (8) and washers (9). Tighten bolts.

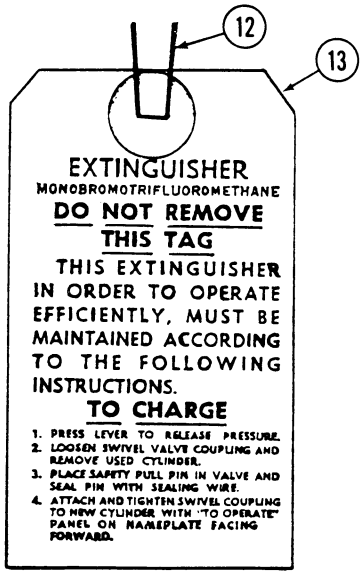
**3.** Open retaining clamp (7) and position fire extinguisher in bracket. Close retaining clamp.

**4.** Verify bracket is securely installed in helicopter and fire extinguisher is securely installed in retaining bracket.

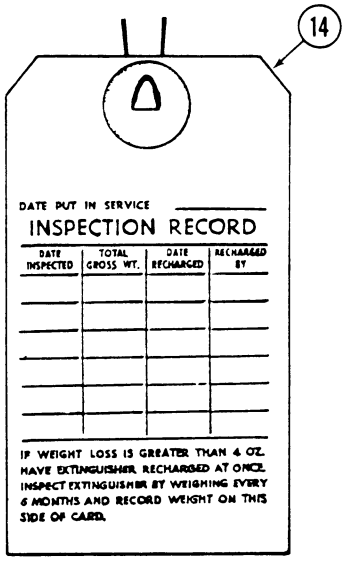



LOOKING FWD L.H. SIDE




FRONT




BACK

DETAIL A

1. Fire extinguisher
2. Clamp
3. Thin steel washer
4. Screw
5. Bracket
6. Fire extinguisher
7. Clamp
8. Bolt
9. Thin aluminum washer
10. Aluminum washer
11. Bracket
12. Attachment wire
13. Inspection tag (front)
14. Inspection tag (back)

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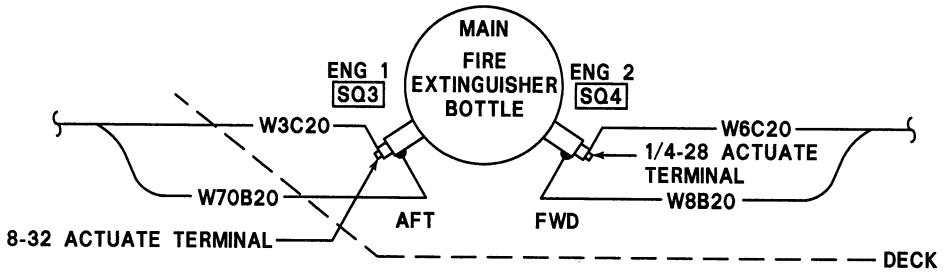
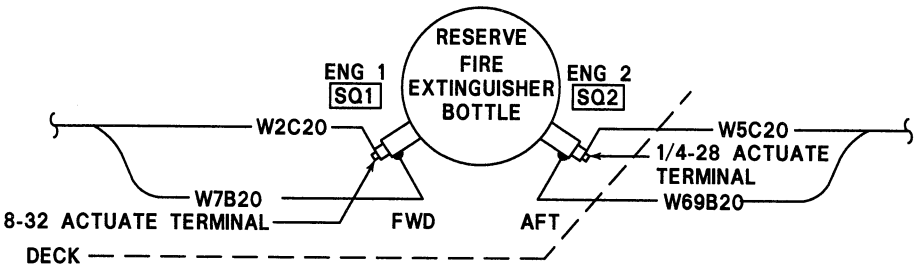
**Figure 26-5. Portable fire extinguishers and brackets**




VIEW LOOKING INBD
RIGHT HAND SIDE


VIEW LOOKING INBD
LEFT HAND SIDE


WIRING TERMINATION

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**Figure 26-6. Fire extinguisher cartridge wiring diagram**