

AIRCRAFT
MAINTENANCE MANUAL

BAGGAGE-COMPARTMENT FIRE EXTINGUISHER BOTTLES - REMOVAL/INSTALLATION

EFFECTIVITY: CLASS-C BAGGAGE COMPARTMENT

1. General

- A. This section gives the procedures to remove and install the fire-extinguisher High-Rate and Metering bottles in the baggage compartment.
- B. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
26-23-01-000-801-A	BAGGAGE FIRE EXTINGUISHER BOTTLES - REMOVAL	CLASS-C BAGGAGE COMPARTMENT
26-23-01-400-801-A	BAGGAGE FIRE EXTINGUISHER BOTTLES - INSTALLATION	CLASS-C BAGGAGE COMPARTMENT



EMB145 – EMB135

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TASK 26-23-01-000-801-A

EFFECTIVITY: CLASS-C BAGGAGE COMPARTMENT

2. BAGGAGE FIRE EXTINGUISHER BOTTLES - REMOVAL

A. General

- (1) Obey the instructions below to remove the baggage fire extinguisher bottles.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
272	272DR	Electronic compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the electronic compartment	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Electronic compartment

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the BAGGAGE FIRE EXTG circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Put the ladder in the work area.
- (3) Open access door 272DR (AMM MPP 06-41-01/100) to get access to the electronic compartment.

J. Removal ([Figure 401](#))

SUBTASK 020-002-A

WARNING: • THE CARTRIDGE IS AN EXPLOSIVE DEVICE. ACCIDENTAL DETONATION OF A CARTRIDGE BY ELECTROSTATIC DISCHARGE CAN CAUSE INJURY. FOR SAFE HANDLING, DO NOT TOUCH THE CARTRIDGE CONNECTOR PINS AFTER YOU REMOVE THE PROTECTIVE CAP OR ELECTRICAL CONNECTOR.

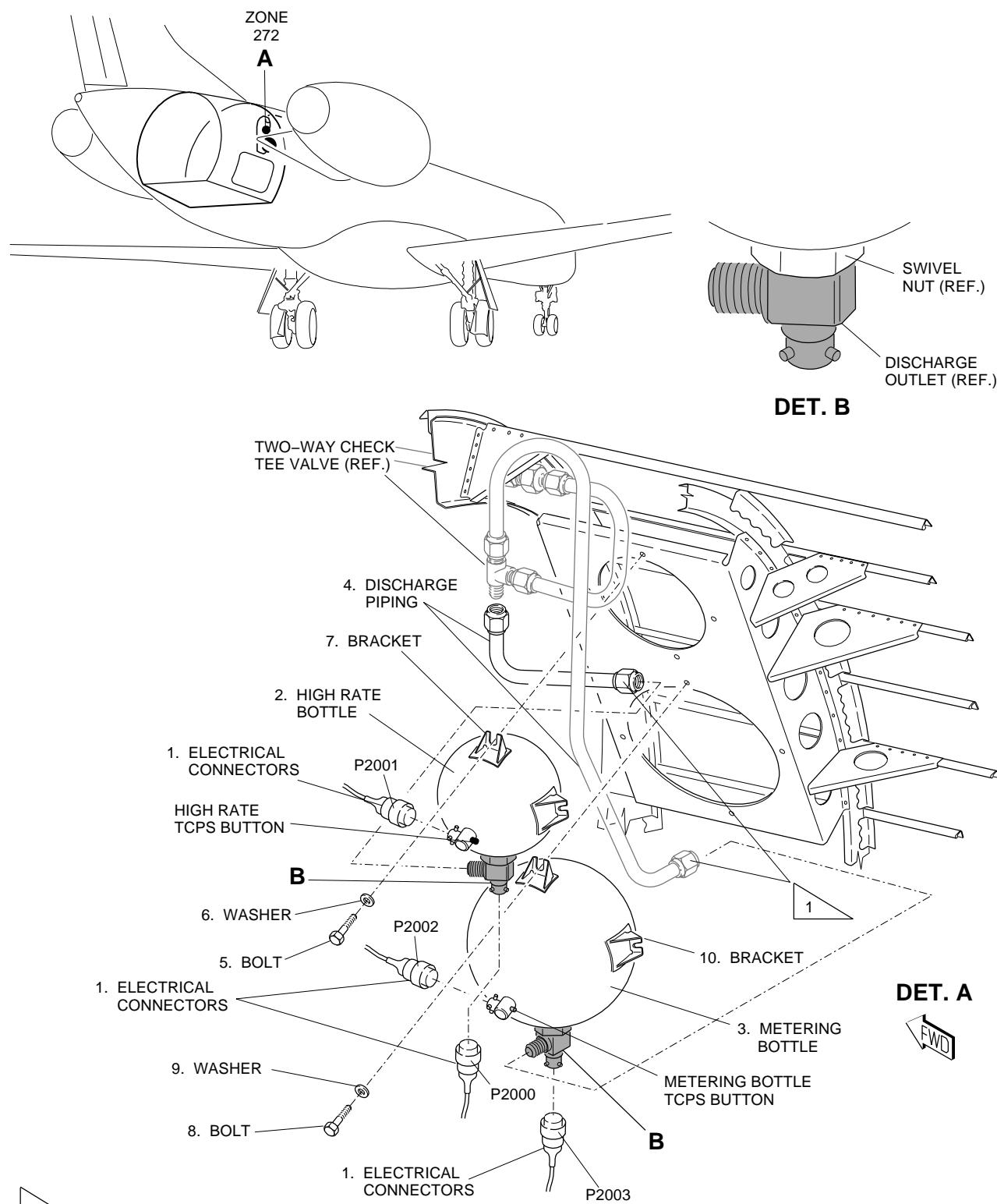
- WHEN YOU CONNECT OR DISCONNECT THE ELECTRICAL CONNECTOR OF THE BOTTLE CARTRIDGE, OR WHEN YOU KEEP IT DISCONNECTED, YOU MUST BE VERY CAREFUL WITH THE PINS OF ITS ELECTRICAL RECEPTACLE.
- DO NOT LET TOOLS OR DEVICES THAT CAN CAUSE VOLTAGE SPARKS OR ELECTRICAL DISCHARGES TOUCH THE PINS OF THE ELECTRICAL RECEPTACLE.

- (1) Disconnect the electrical connectors (1) from the baggage-compartment fire-extinguisher High-Rate bottle (2) and Metering bottle (3).
- (2) Disconnect the discharge piping (4) of the baggage compartment fire-extinguisher High-Rate bottle (2), from the two-way check tee valve (ref.) and from the Metering bottle (3).
- (3) Install protection caps to the disconnected points.
- (4) Remove the bolts (5) and washers (6) from the baggage High Rate bottle brackets (7), and remove the High Rate bottle (2).
- (5) Remove the bolts (8) and washers (9) from the baggage Metering bottle brackets (10), and remove the Metering bottle (3).

EFFECTIVITY:: CLASS-C BAGGAGE COMPARTMENT

Baggage Fire Extinguisher Bottles - Removal/Installation

Figure 401



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EMB145 - EMB135

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TASK 26-23-01-400-801-A

EFFECTIVITY: CLASS-C BAGGAGE COMPARTMENT

3. BAGGAGE FIRE EXTINGUISHER BOTTLES - INSTALLATION

A. General

(1) Obey the instructions below to install the baggage fire extinguisher bottles.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
TASK 20-10-02-200-801-A	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
272	272DR	Electronic compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the electronic compartment	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Electronic compartment

I. Installation (Figure 401)

SUBTASK 420-002-A

- WARNING:** • THE CARTRIDGE IS AN EXPLOSIVE DEVICE. ACCIDENTAL DETONATION OF A CARTRIDGE BY ELECTROSTATIC DISCHARGE CAN CAUSE INJURY. FOR SAFE HANDLING, DO NOT TOUCH THE CARTRIDGE CONNECTOR PINS AFTER YOU REMOVE THE PROTECTIVE CAP OR ELECTRICAL CONNECTOR.
- DO NOT MOVE THE BOTTLES WITH THE OUTLETS OF THE DISCHARGE TUBING WITHOUT PROTECTION. DO NOT HIT THE BOTTLE AGAINST AIRCRAFT PARTS. PREVENT DAMAGE TO THE BOTTLE BECAUSE AN ACCIDENTAL DISCHARGE CAN CAUSE INJURIES.

CAUTION: IF THE ELECTRICAL BONDING DEVICE DOES NOT MAKE UP A GOOD ELECTRIC CONDUCTIVE PATH, DAMAGE CAN OCCUR TO THE AIRCRAFT OR THE EQUIPMENT.

- (1) Refer to [AMM TASK 20-13-21-910-801-A/200](#) for the electrical bonding procedures and install the High Rate bottle (2) with bolts (5) and washers (6).

NOTE: Use a torque wrench to torque the bolts to 7.9 – 10.2 N.m (70 – 90 lb.in).

- (2) Refer to [AMM TASK 20-13-21-910-801-A/200](#) for the electrical bonding procedures and install the Metering bottle (3) with bolts (8) and washers (9).

NOTE: Use a torque wrench to torque the bolts to 7.9 – 10.2 N.m (70 – 90 lb.in).

- (3) Remove the protection caps from the disconnected points.

CAUTION: DO NOT TRANSMIT THE AIRCRAFT TUBE WEIGHT OR STRAIN TO THE VALVE. ALIGN BEFORE YOU CONNECT THEM.

- (4) Connect the discharge piping (4) to the baggage High Rate bottle (2) and Metering bottle (3) discharge heads.

NOTE: If the discharge outlet of the bottles is not aligned with the pipe, loosen the swivel nut of discharge outlet, align the discharge outlet with the aircraft pipe, and use a torque wrench to torque the discharge outlet swivel nut to 61 - 75 N.m (540 - 663.8 lb.in / 45 - 55 lb.ft). Install safety wire on swivel nut of discharge outlet (TASK 20-10-02-200-801-A).

CAUTION: USE TWO TORQUE WRENCHES WHEN YOU CONNECT TUBES. USE ONE WRENCH TO HOLD THE NIPPLE AND THE OTHER WRENCH TO TURN THE TUBE COUPLING NUT. THIS PRECAUTION WILL PREVENT DAMAGE TO THE TUBES.

- (5) Use a torque wrench to torque the discharge pipe nuts to 37.3 - 40.7 N.m (330 - 360 lb.in).

CAUTION: BEFORE YOU CONNECT THE ELECTRICAL CONNECTORS, MAKE SURE THAT THE "BAGGAGE FIRE EXTG" CIRCUIT BREAKER IS OPEN.

- (6) Connect the electrical connectors (1) to the baggage High Rate bottle (2) and Metering bottle (3).

- (7) On the circuit breakers panel, close the BAGGAGE FIRE EXTG circuit breaker and remove the DO-NOT-CLOSE tag from it.
 - (8) Energize the aircraft with an External DC Power Supply ([AMM TASK 20-40-01-860-801-A/200](#)).
 - (a) Make sure that the BAGG EXTBTL INOP message is not shown on the EICAS DISPLAY.
- NOTE:** If the BAGG FIRE EXTG switch comes on with the energization of the aircraft, push the FIRE TEST switch for two seconds at least and release it to cause the switch light to go off.
- (9) Push the TCPS button of the Baggage High-Rate Bottle.
 - (a) The EICAS display shows the BAGG EXTBTL INOP message.
 - (10) Release the TCPS button of the Baggage High-Rate Bottle.
 - (a) The BAGG EXTBTL INOP message goes out of view on the EICAS display.
 - (11) Push and release the FIRE TEST switch.
 - (12) Push the TCPS button of the Baggage Metering Bottle.
 - (a) The EICAS display shows the BAGG EXTBTL INOP message.
 - (13) Release the TCPS button of the Baggage Metering Bottle.
 - (a) The BAGG EXTBTL INOP message goes out of view on the EICAS display.
 - (14) Push and release the FIRE TEST switch.

J. Follow-on

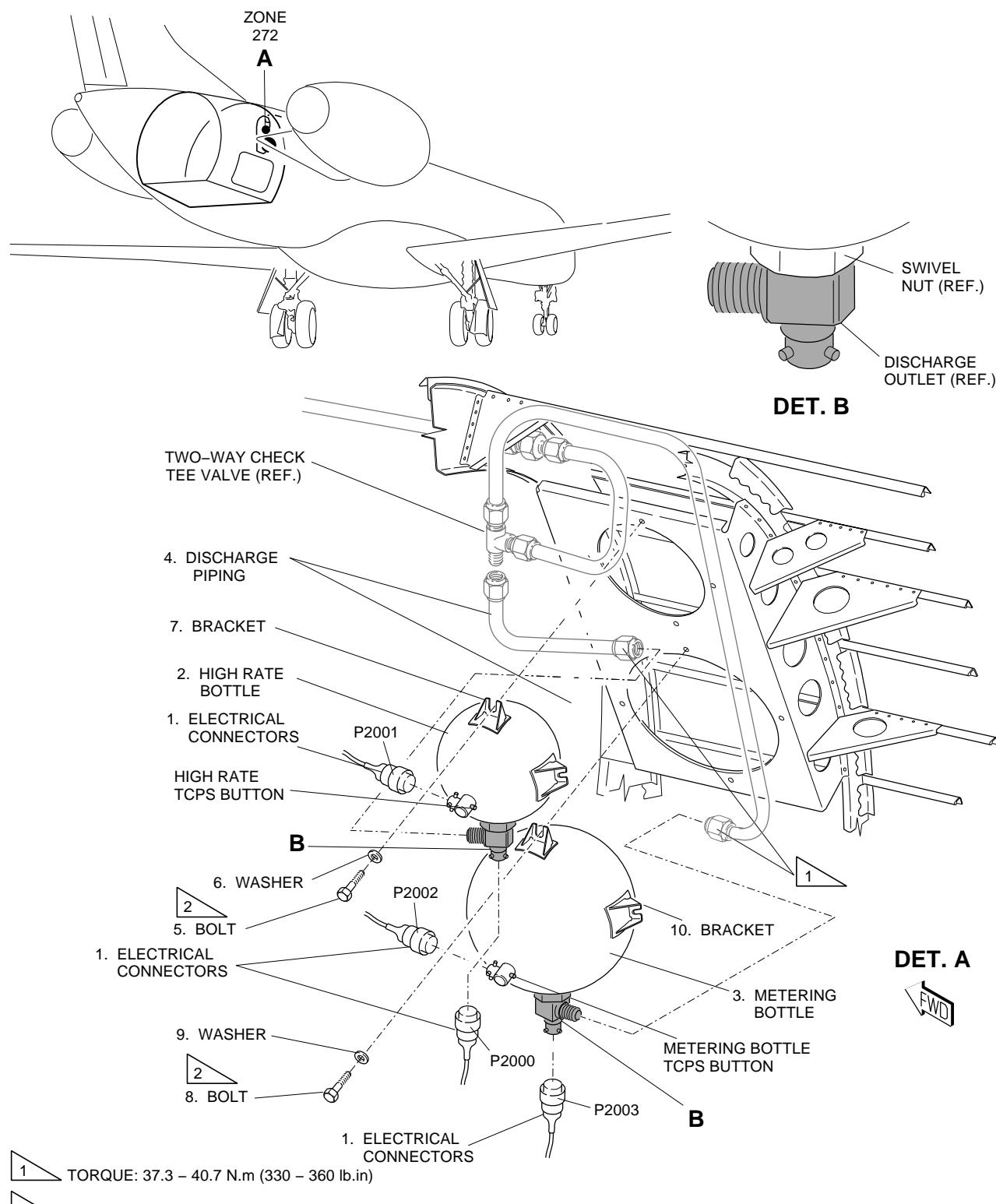
SUBTASK 842-002-A

- (1) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Close access door 272DR (AMM MPP 06-41-01/100).
- (3) Remove the ladder from the work area.

EFFECTIVITY:: CLASS-C BAGGAGE COMPARTMENT

Baggage Fire Extinguisher Bottles - Removal/Installation

Figure 402



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