



AIRCRAFT MAINTENANCE MANUAL

BAGGAGE-COMPARTMENT FIRE EXTINGUISHER SYSTEM - ADJUSTMENT/TEST

EFFECTIVITY: CLASS-C BAGGAGE COMPARTMENT

1. General

- A. This section gives the procedures to do a check of the baggage-compartment fire extinguishing system.
- 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
26-23-00-700-801-A ♦	BAGGAGE-COMPARTMENT FIRE EXTINGUISHING SYSTEM - FUNCTIONAL CHECK	CLASS-C BAGGAGE COMPARTMENT



EMB145 – EMB135

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TASK 26-23-00-700-801-A

EFFECTIVITY: CLASS-C BAGGAGE COMPARTMENT

2. BAGGAGE-COMPARTMENT FIRE EXTINGUISHING SYSTEM - FUNCTIONAL CHECK

A. General

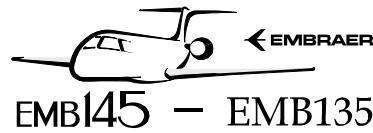
- (1) The function of this check is to make sure that the electrical circuit of the baggage-compartment fire extinguishing system operates correctly.

B. References

REFERENCE	DESIGNATION
AMM 24-60-01/1	-
AMM MPP 06-41-01/100	-
AMM MPP 06-41-02/100	-
AMM MPP 06-41-05/100	- COMPONENT LOCATION
AMM SDS 24-60-00/1	
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 25-51-01-000-801-A/400	BAGGAGE COMPARTMENT LINING - REMOVAL
AMM TASK 25-51-01-400-801-A/400	BAGGAGE COMPARTMENT LINING - INSTALLATION
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 53-01-03-000-801-A/400	BAGGAGE-COMPARTMENT FLOOR PANELS - REMOVAL
AMM TASK 53-01-03-400-801-A/400	BAGGAGE-COMPARTMENT FLOOR PANELS - INSTALLATION
SB145-32-0036	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
220		Cockpit
272	272DR	Electronic compartment
272	272AF	Baggage compartment
273	273ATC	Baggage compartment
273	273BTC	Baggage compartment
114	114BZ	Forward electronic compartment



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D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Digital multimeter	To know about continuity/voltage	

E. Auxiliary Items

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

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Electronic/Baggage compartment
1	Does the task	Cockpit

I. Preparation

SUBTASK 841-007-B

- (1) For aircraft PRE-MOD [SB145-32-0036](#), make sure that the pressure in hydraulic system No. 1 is fully released ([AMM TASK 29-10-00-860-802-A/200](#)).
- (2) For aircraft POST-MOD [SB145-32-0036](#), install safety pin of the NLG doors solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (3) Make sure that the landing-gear safety pins are installed ([AMM TASK 32-00-01-910-801-A/200](#)).
- (4) Put the ladder in the work area.
- (5) Open access door 272DR (AMM MPP 06-41-01/100) to get access to the electronic compartment.
- (6) Open access panel 114BZ (AMM MPP 06-41-01/100) to get access to the backup relay box.
- (7) Remove baggage lining panels 273ATC and 273BTC ([AMM MPP 06-41-05/100](#)) and ([AMM TASK 25-51-01-000-801-A/400](#)).
- (8) Remove floor panel 272AF (AMM MPP 06-41-02/100) and ([AMM TASK 53-01-03-000-801-A/400](#)).
- (9) Make sure that the aircraft is deenergized ([AMM TASK 20-40-01-860-801-A/200](#)).



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J. Functionally Check Baggage Fire Extinguishing System ([Figure 501](#))

SUBTASK 720-007-B

- (1) Disconnect connector P1066 at the interface between the center and the rear sections of the fuselage.
- (2) 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.

- (3) On the EICAS Reversionary panel, push the DAU 2 pushbutton.
 - (a) The striped bar on the DAU 2 pushbutton comes on.
- (4) Make sure that the "BAGGAGE RECIRC FAN" circuit breaker (Location Tip: DC BUS 2/MISCELLANEOUS) is closed and the baggage compartment fan is on.

NOTE: When the baggage compartment fan is on, the check valve stays open and permits you to see the movement of the fan blades, as shown in figure 501.
- (5) Push the pressure switch button of the Baggage High-Rate Bottle.
 - (a) The baggage compartment fan stops.
 - (b) The EICAS display shows the BAGG EXTBTL INOP message.

NOTE: When the EICAS display shows the BAGG EXTBTL INOP message, the caution lights come on, and it is necessary to push one of the caution lights pushbutton on the glareshield panel to stop the lights.
- (6) Release the pressure switch button of the Baggage High-Rate Bottle.
 - (a) The BAGG EXTBTL INOP message goes out of view on the EICAS display.
- (7) Push and release the FIRE TEST switch.
 - (a) The baggage compartment fan starts to operate.
- (8) Push the pressure switch button of the Baggage Metering Bottle.
 - (a) The baggage compartment fan stops.
 - (b) The EICAS display shows the BAGG EXTBTL INOP message.
- (9) Release the pressure switch button of the Baggage Metering Bottle.
 - (a) The BAGG EXTBTL INOP message goes out of view on the EICAS display.
- (10) Push and release the FIRE TEST switch.
 - (a) The baggage compartment fan starts to operate.

- (11) On the circuit breaker panel, open the BAGGAGE FIRE EXTG circuit breaker (Location Tip: ESSENTIAL DC BUS 1/MISCELLANEOUS), and attach a DO-NOT-CLOSE tag to it.
- (a) The EICAS display shows the BAGG EXTBTL INOP message.

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

- (12) Disconnect electric connectors P2000 and P2003 from the cartridge connectors of the High Rate and Metering bottles.
- (13) Install a jumper between pins A and B of connectors P2000 and P2003.
- (14) On the circuit breaker panel, close the BAGGAGE FIRE EXTG circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (a) The BAGG EXTBTL INOP message goes out of view on the EICAS display.
- (15) Open the jumper of connector P2000.
- (a) The EICAS display shows the BAGG EXTBTL INOP message.
- (16) Close the jumper of connector P2000.
- (a) The BAGG EXTBTL INOP message goes out of view on the EICAS display.
- (17) Open the jumper of connector P2003.
- (a) The EICAS display shows the BAGG EXTBTL INOP message.
- (18) Remove the two jumpers from connectors P2000 and P2003 and keep the connectors disconnected.

CAUTION: MAKE SURE THAT THE BAGGAGE FIRE EXTG CIRCUIT BREAKER IS CLOSED.

- (19) On the circuit breaker panel, open the circuit breakers listed below and attach a DO-NOT-CLOSE tag to them:
- EICAS DAU 2A (Location Tip: ESSENTIAL DC BUS 2).
 - EICAS DAU 2B (Location Tip: DC BUS 2).

- (20) On the backup relay box, open the DAU 1/2 circuit breaker and attach a DO-NOT-CLOSE tag to it (AMM 24-60-01/1).
 - (21) Push the BAGG FIRE EXTG switch and keep it pushed.
 - (a) Make sure that there is 28 V DC between pins A and B of connector P2000.
 - (22) Release the BAGG FIRE EXTG switch.
 - (a) Make sure that there is no voltage between pins A and B of connector P2000.
 - (23) Push the BAGG FIRE EXTG switch and keep it pushed.
 - (a) Make sure that there is 28 V DC between pins A and B of connector P2003.
 - (24) Release the BAGG FIRE EXTG switch.
 - (a) Make sure that there is no voltage between pins A and B of connector P2003.
 - (25) On the circuit breaker panel, close the circuit breakers listed below and remove the DO-NOT-CLOSE tag from them:
 - EICAS DAU 2A (Location Tip: ESSENTIAL DC BUS 2).
 - EICAS DAU 2B (Location Tip: DC BUS 2).
 - (26) On the backup relay box, close the DAU 1/2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
 - (a) Make sure that there is a voltage of approximately 21.5 V DC between pins A and B of connector P2000.
 - (b) Make sure that there is a voltage of approximately 21.5 V DC between pins A and B of connector P2003.
 - (27) On the EICAS Reversionary panel, push the DAU 2 pushbutton.
 - (a) The striped bar on the DAU 2 pushbutton goes off.
 - (28) On the circuit breaker panel, open the BAGGAGE FIRE EXTG circuit breaker (Location Tip: ESSENTIAL DC BUS 1/MISCELLANEOUS) and attach a DO-NOT-CLOSE tag to it.
- 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 ELECTRIC CONNECTOR OF THE BOTTLE CARTRIDGE, OR WHEN YOU KEEP IT DISCONNECTED, YOU MUST BE VERY CAREFUL WITH THE PINS OF ITS RECEPTACLE.
- (29) Connect the connectors P2000 and P2003.

- (30) On the circuit breaker panel, close the BAGGAGE FIRE EXTG circuit breaker and remove a DO-NOT-CLOSE tag from them.
 - (31) Push and release the FIRE TEST switch.
 - (a) The baggage fan starts to operate.
 - (32) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
 - (33) Connect connector P1066 and disconnect connector P0880 installed on the floor.
 - (34) 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.
- (35) Push the pressure switch button of the Baggage High-Rate Bottle.
 - (a) The EICAS display shows the BAGG EXTBTL INOP message.
 - (36) Release the pressure switch button of the Baggage High-Rate Bottle.
 - (a) The BAGG EXTBTL INOP message goes out of view on the EICAS display.
 - (37) Push and release the FIRE TEST switch.
 - (38) Push the pressure switch button of the Baggage Metering Bottle.
 - (a) The EICAS display shows the BAGG EXTBTL INOP message.
 - (39) Release the pressure switch button of the Baggage Metering Bottle.
 - (a) The BAGG EXTBTL INOP message goes out of view on the EICAS display.
 - (40) Push and release the FIRE TEST switch.
 - (41) On the circuit breaker panel, open the BAGGAGE FIRE EXTG circuit breaker (Location Tip: ESSENTIAL DC BUS 1/MISCELLANEOUS) and attach a DO-NOT-CLOSE tag to it.
 - (a) The EICAS display shows the BAGG EXTBTL INOP message.

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

- (42) Disconnect electric connectors P2000 and P2003 from the cartridge connectors of the High Rate and Metering bottles.
- (43) Install a jumper between pins A and B of connectors P2000 and P2003.
- (44) On the circuit breaker panel, close the BAGGAGE FIRE EXTG circuit breaker and remove the DO-NOT-CLOSE tag from it.
 - (a) The BAGG EXTBTL INOP message goes out of view on the EICAS display.
- (45) Open the jumper of connector P2000.
 - (a) The EICAS display shows the BAGG EXTBTL INOP message.
- (46) Close the jumper of connector P2000.
 - (a) The BAGG EXTBTL INOP message goes out of view on the EICAS display.
- (47) Open the jumper of connector P2003.
 - (a) The EICAS display shows the BAGG EXTBTL INOP message.
- (48) Remove the two jumpers from connectors P2000 and P2003 and keep the connectors disconnected.

CAUTION: MAKE SURE THAT THE BAGGAGE FIRE EXTG CIRCUIT BREAKER IS CLOSED.

- (49) On the circuit breaker panel, open the circuit breakers listed below and attach a DO-NOT-CLOSE tag to them:
 - EICAS DAU 2A (Location Tip: ESSENTIAL DC BUS 2).
 - EICAS DAU 2B (Location Tip: DC BUS 2).
- (50) On the backup relay box, open the DAU 1/2 circuit breaker and attach a DO-NOT-CLOSE tag to it ([AMM SDS 24-60-00/1](#)).
- (51) Push the BAGG FIRE EXTG switch and keep it pushed.
 - (a) Make sure that there is 28 V DC between pins A and B of connector P2000.

- (52) Release the BAGG FIRE EXTG switch.
 - (a) Make sure that there is no voltage between pins A and B of connector P2000.
- (53) Push the BAGG FIRE EXTG switch and keep it pushed.
 - (a) Make sure that there is 28 V DC between pins A and B of connector P2003.
- (54) Release the BAGG FIRE EXTG switch.
 - (a) Make sure that there is no voltage between pins A and B of connector P2003.
- (55) On the circuit breaker panel, close the circuit breakers listed below and remove the DO-NOT-CLOSE tag from them:
 - EICAS DAU 2A (Location Tip: ESSENTIAL DC BUS 2).
 - EICAS DAU 2B (Location Tip: DC BUS 2).
- (56) On the backup relay box, close the DAU 1/2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
 - (a) Make sure that there is a voltage of approximately 21.5 V DC between pins A and B of connector P2000.
 - (b) Make sure that there is a voltage of approximately 21.5 V DC between pins A and B of connector P2003.
- (57) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).

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• WHEN YOU CONNECT OR DISCONNECT THE ELECTRIC CONNECTOR OF THE BOTTLE CARTRIDGE, OR WHEN YOU KEEP IT DISCONNECTED, YOU MUST BE VERY CAREFUL WITH THE PINS OF ITS RECEPTACLE.

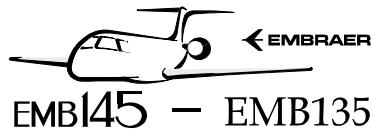
- (58) Connect the connectors P2000 and P2003.

- (59) Connect connector P0880.

K. Follow-on

SUBTASK 842-007-B

- (1) Close access door 272DR (AMM MPP 06-41-01/100).
- (2) Close access panel 114BZ (AMM MPP 06-41-01/100).
- (3) For aircraft POST-MOD [SB145-32-0036](#), remove safety pin of the NLG doors solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).

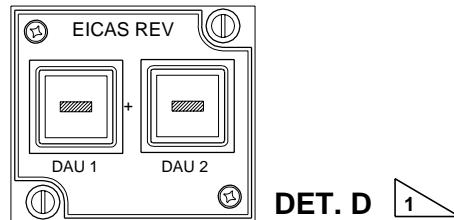
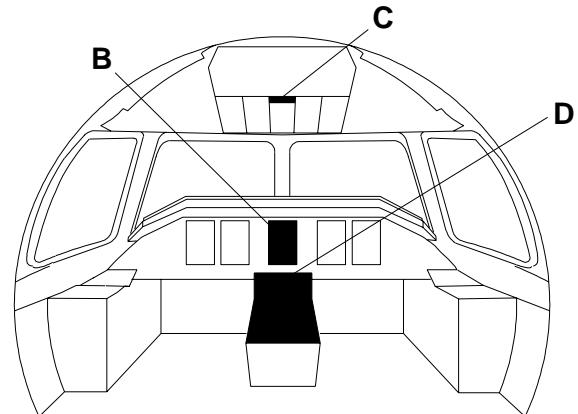
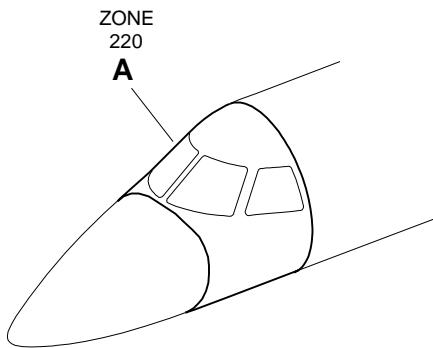


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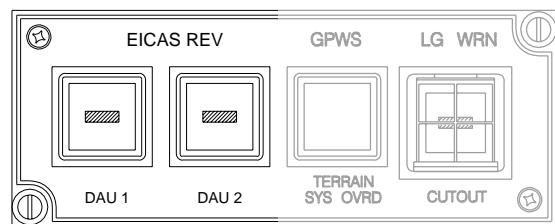
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- (4) Install baggage lining panels 273ATC and 273BTC ([AMM MPP 06-41-05/100](#)) and ([AMM TASK 25-51-01-400-801-A/400](#)).
- (5) Install floor panel 272AF (AMM MPP 06-41-02/100) and ([AMM TASK 53-01-03-400-801-A/400](#)).
- (6) Remove the ladder from the work area.

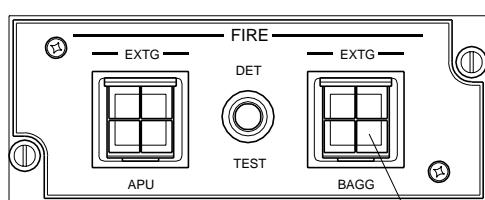
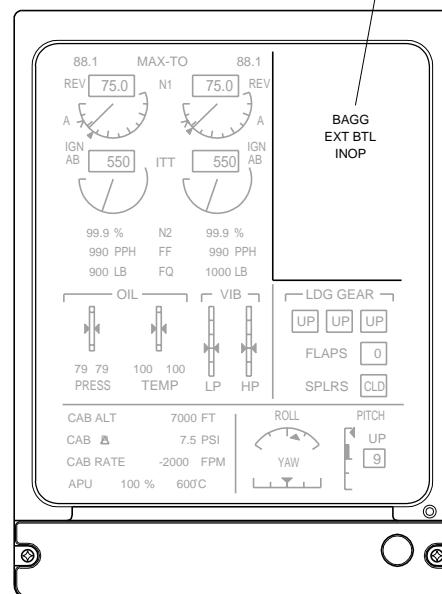
EFFECTIVITY: CLASS-C BAGGAGE COMPARTMENT
Baggage Fire Extinguishing System - Component Locations
Figure 501 - Sheet 1



DET. A



EICAS MESSAGE



BAGG FIRE
EXTG SWITCH

1 AIRCRAFT WITH RMU INSTALLED ON THE CONTROL PEDESTAL.

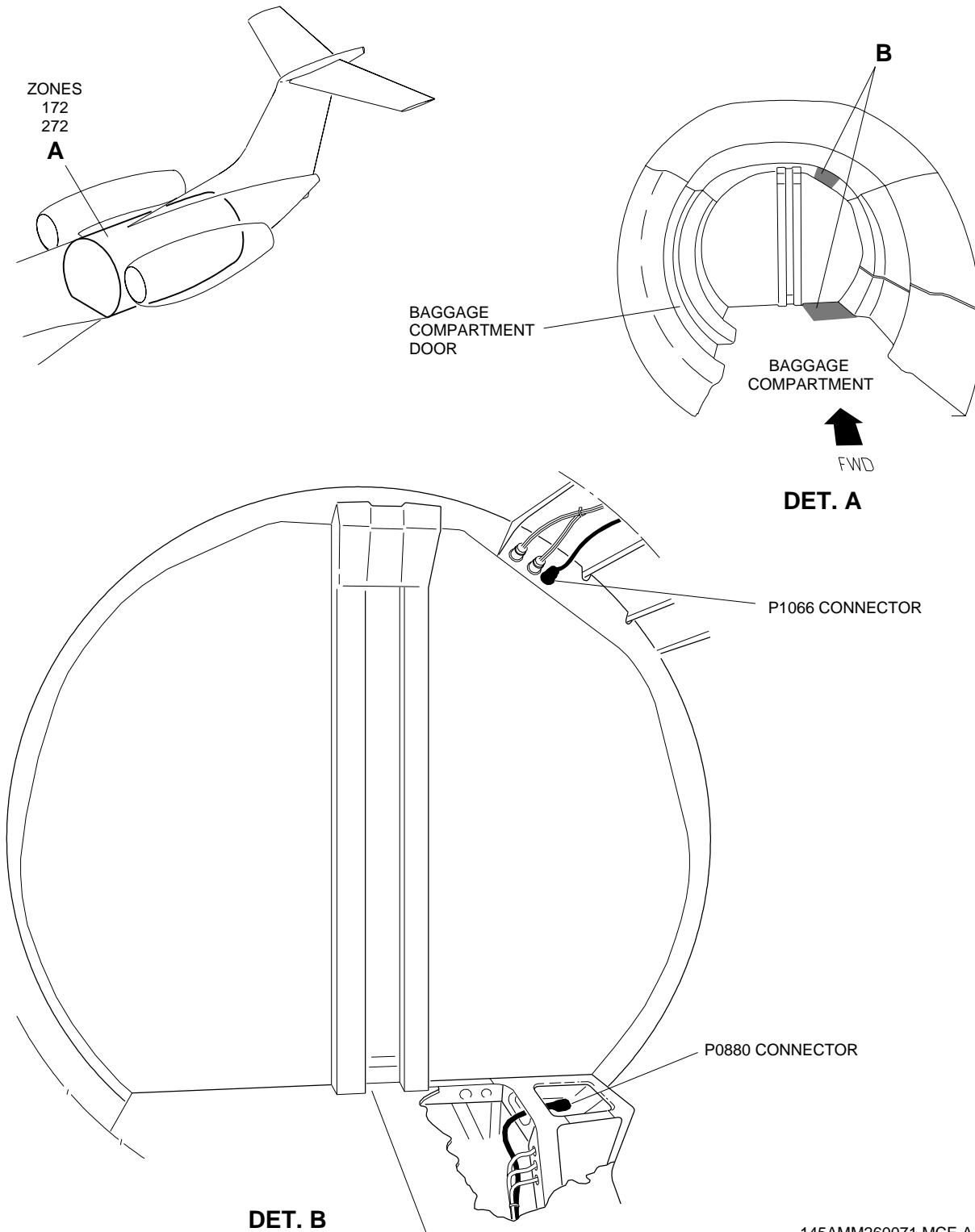
2 AIRCRAFT WITH RMU INSTALLED ON THE MAIN INSTRUMENT PANEL.

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EFFECTIVITY: CLASS-C BAGGAGE COMPARTMENT

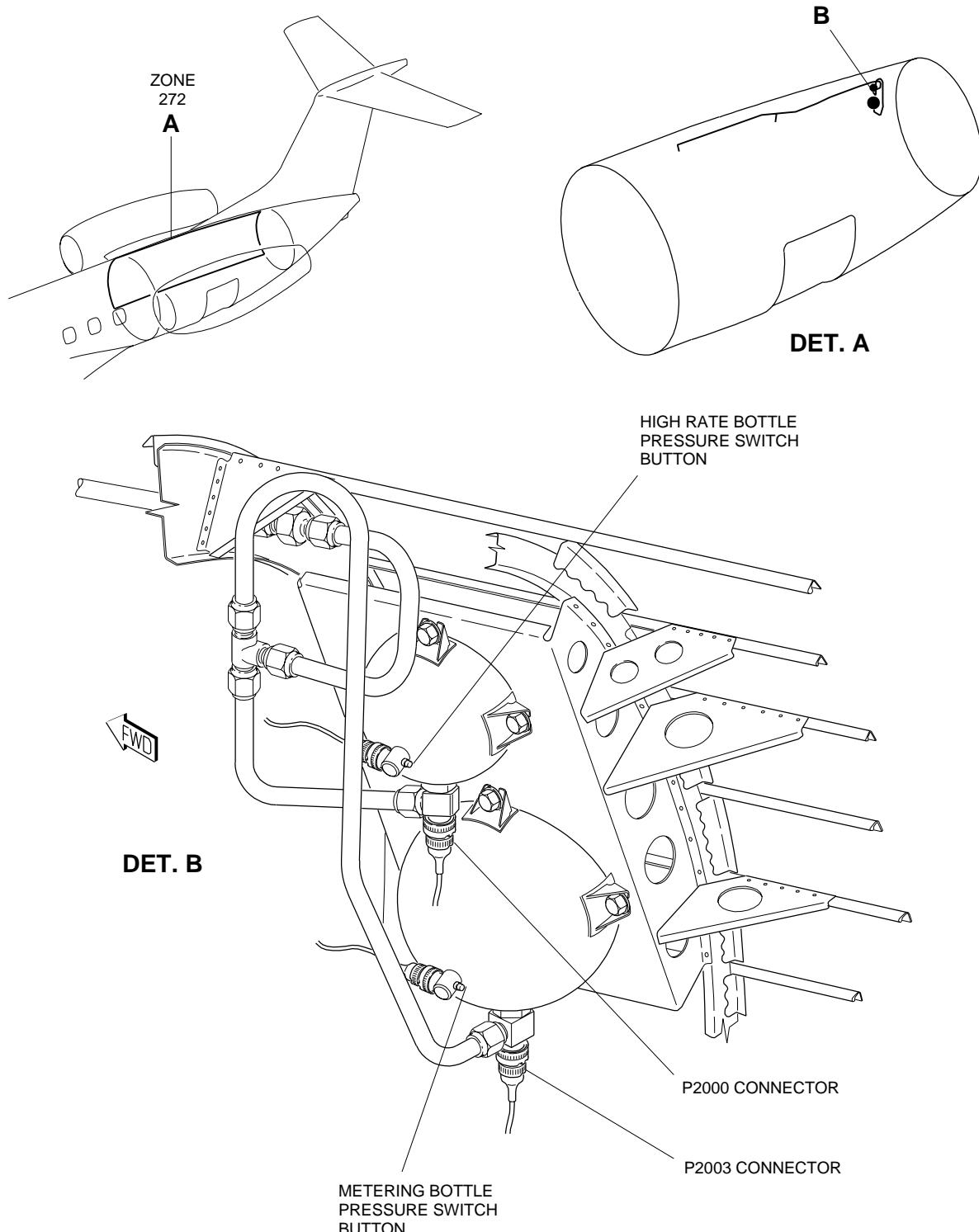
Baggage Fire Extinguishing System - Component Locations

Figure 501 - Sheet 2



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EFFECTIVITY: CLASS-C BAGGAGE COMPARTMENT
Baggage Fire Extinguishing System - Component Locations
Figure 501 - Sheet 3

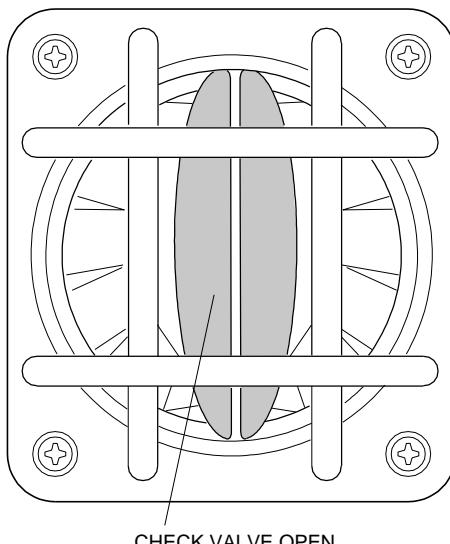
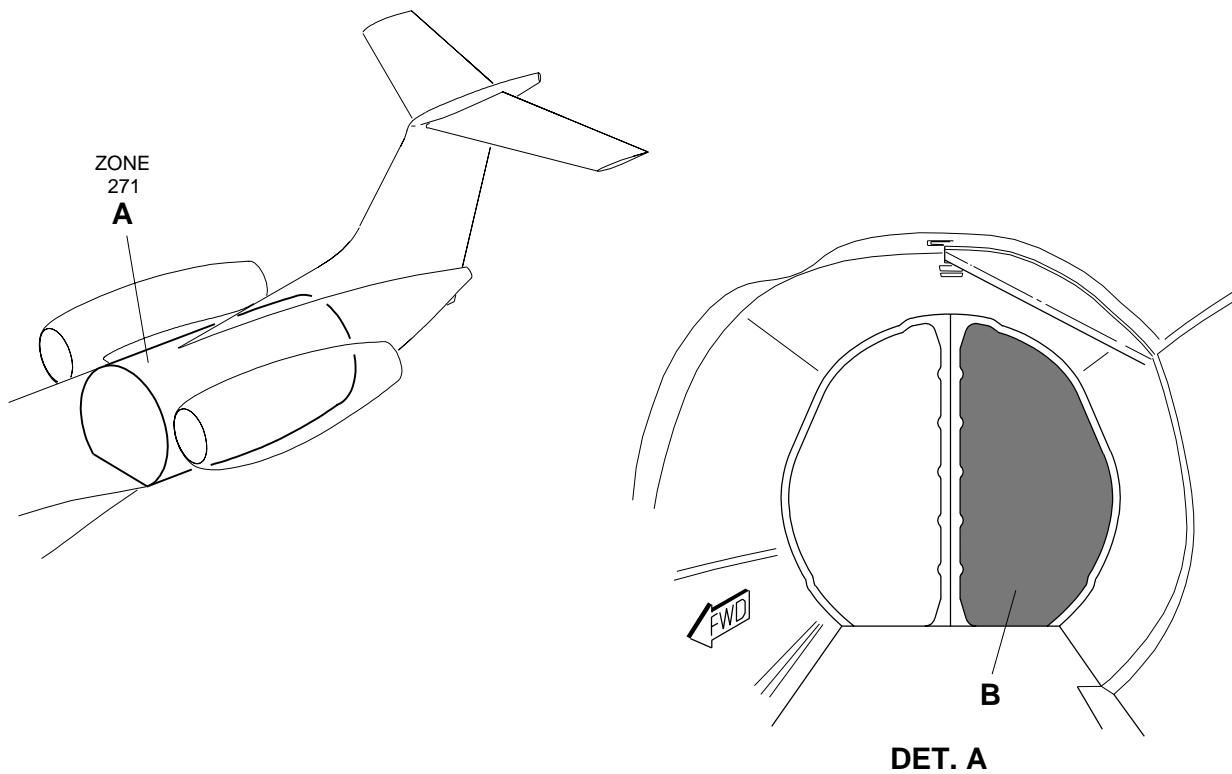


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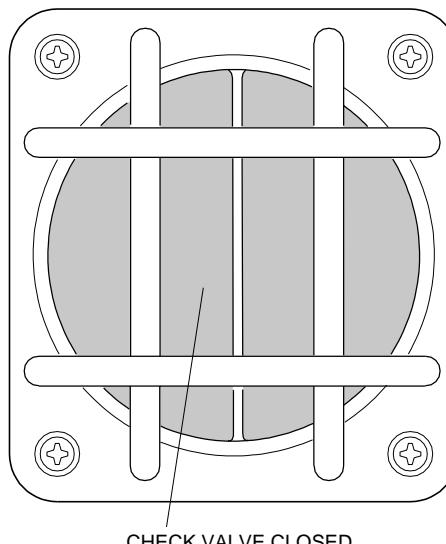
EFFECTIVITY: CLASS-C BAGGAGE COMPARTMENT

Baggage Fire Extinguishing System - Component Locations

Figure 501 - Sheet 4



DET. B



DET. B

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