



**DE HAVILLAND AIRCRAFT  
OF CANADA LIMITED**

**DHC-8 Series 400**

# **CRASH-FIRE-RESCUE MANUAL**

**PSM 1-84-14**

**DE HAVILLAND AIRCRAFT OF CANADA LIMITED**

**5800 EXPLORER DRIVE  
MISSISSAUGA, ONTARIO, CANADA, L4W 5K9**

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Revision 6: Mar 05/2022**

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CRASH-FIRE-RESCUE MANUAL

**EFFECTIVE TEMPORARY REVISIONS**

List of Temporary Revisions effective in your Manual at Revision 6 dated Mar 05/2022.

<b>TR No.</b>	<b>CHAPTER / SECTION / SUBJECT</b>	<b>ISSUE DATE</b>
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PAGE 1



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CRASH-FIRE-RESCUE MANUAL

To: Distribution

Subject: Dash 8 Series 400, Crash-Fire-Rescue Manual, PSM 1-84-14

This is Revision 6 of the Dash 8 Series 400, Crash-Fire-Rescue Manual, PSM 1-84-14, dated Mar 05/2022.

This revision is a full issue of the Manual in its entirety, due to DH logo introduction.

Please remove the last issue of this manual from the binder and replace it with the contents of this package.

We recommend that this letter of transmittal be retained and placed in the front of the manual for record purposes.





DE HAVILLAND AIRCRAFT  
OF CANADA LIMITED

DHC-8 Series 400

# CRASH-FIRE-RESCUE MANUAL

PSM 1-84-14

**DE HAVILLAND AIRCRAFT OF CANADA LIMITED**

123 GARRATT BLVD., TORONTO, ONTARIO  
CANADA M3K 1Y5

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CRASH-FIRE-RESCUE MANUAL

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**LIST OF EFFECTIVE PAGES**

<u>Chapter</u>	<u>Page</u>	<u>Date</u>	<u>Chapter</u>	<u>Page</u>	<u>Date</u>
Effective Pages	1	* Mar 05/2022		40	* Mar 05/2022
				41	* Mar 05/2022
				42	* Mar 05/2022
Contents	1	* Mar 05/2022		43	* Mar 05/2022
				44	* Mar 05/2022
Chapter 00	1	* Mar 05/2022		45	* Mar 05/2022
	2	* Mar 05/2022		46	* Mar 05/2022
	3	* Mar 05/2022		47	* Mar 05/2022
	4	* Mar 05/2022		48	* Mar 05/2022
	5	* Mar 05/2022		49	* Mar 05/2022
	6	* Mar 05/2022		50	* Mar 05/2022
	7	* Mar 05/2022		51	* Mar 05/2022
	8	* Mar 05/2022		52	* Mar 05/2022
	9	* Mar 05/2022		53	* Mar 05/2022
	10	* Mar 05/2022		54	* Mar 05/2022
	11	* Mar 05/2022		55	* Mar 05/2022
	12	* Mar 05/2022		56	* Mar 05/2022
	13	* Mar 05/2022		57	* Mar 05/2022
	14	* Mar 05/2022		58	* Mar 05/2022
	15	* Mar 05/2022		59	* Mar 05/2022
	16	* Mar 05/2022			
	17	* Mar 05/2022			
	18	* Mar 05/2022			
	19	* Mar 05/2022			
	20	* Mar 05/2022			
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	22	* Mar 05/2022			
	23	* Mar 05/2022			
	24	* Mar 05/2022			
	25	* Mar 05/2022			
	26	* Mar 05/2022			
	27	* Mar 05/2022			
	28	* Mar 05/2022			
	29	* Mar 05/2022			
	30	* Mar 05/2022			
	31	* Mar 05/2022			
	32	* Mar 05/2022			
	33	* Mar 05/2022			
	34	* Mar 05/2022			
	35	* Mar 05/2022			
	36	* Mar 05/2022			
	37	* Mar 05/2022			
	38	* Mar 05/2022			
	39	* Mar 05/2022			

The asterisk (\*) indicates pages revised, added or deleted by current revision.

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**CRASH-FIRE-RESCUE MANUAL**

**TABLE OF CONTENTS**

<b>Title</b>	<b>Page</b>
<b>CHAPTER 00 Chapter title</b>	
Aircraft Dimensions	1
Familiarization and Location Guide	3
Exterior Walk-Around	4
Typical Interior Configurations	5
Passenger – Compartment Cross Section	15
Typical Flight Compartment Arrangement (Looking Forward)	17
Typical Flight Compartment Arrangement (Looking Aft)	18
Aircraft Doors and Ground Service Panels	19
Evacuation Routes	20
Passenger and Crew Escape Systems	23
Forward Passenger Door-Ditching Dam Operation	29
Forward Baggage Door Operation/Forward Type I Emergency Exit Door	31
Forward RH Type I Emergency Exit Door-Ditching Dam Operation	33
Aft Baggage Door Operation	35
Flight Compartment Escape Hatch	37
Fortified Flight Compartment Door Operation	39
Propeller/Engine Exhaust Danger Areas	41
Cut-Through Areas	43
Flammable Material Locations (Excluding Passenger Cabin)	44
Flammable/Hazardous Material Locations in Passenger Cabin	45
Fire Control Recommendations	50
Crew Oxygen System	52
Engine Fire Access Locations	53
Fire Extinguishing Systems Locations	54
Fire Extinguishing Systems Operation	56
Battery Power Switch Locations	59

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## **CRASH-FIRE-RESCUE MANUAL**

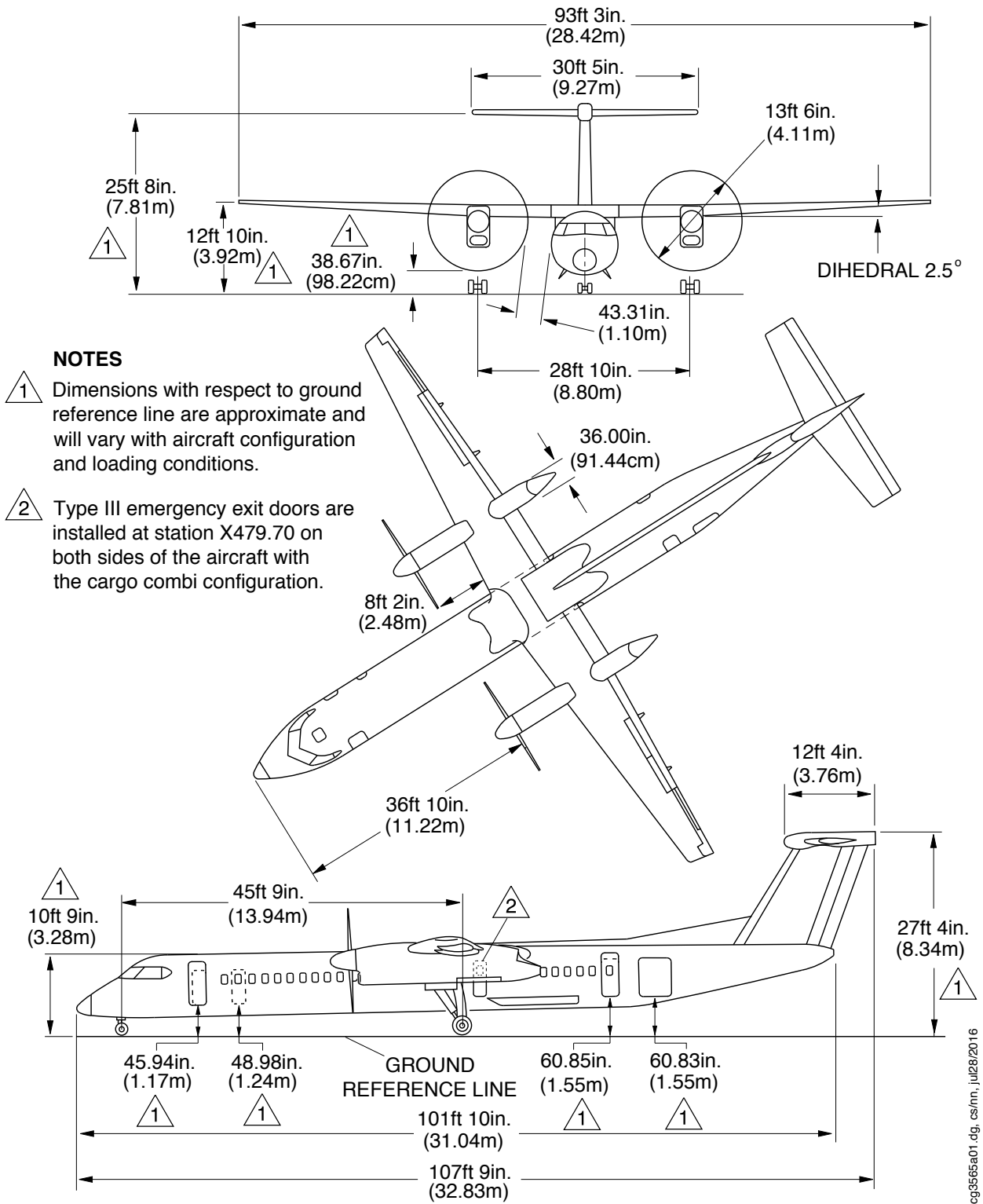
# **CHAPTER 00**

## **CHAPTER TITLE**

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**CRASH-FIRE-RESCUE MANUAL**



**AIRCRAFT DIMENSIONS (INCL EXTRA CAPACITY AND CARGO COMBI CONFIGURATION)**

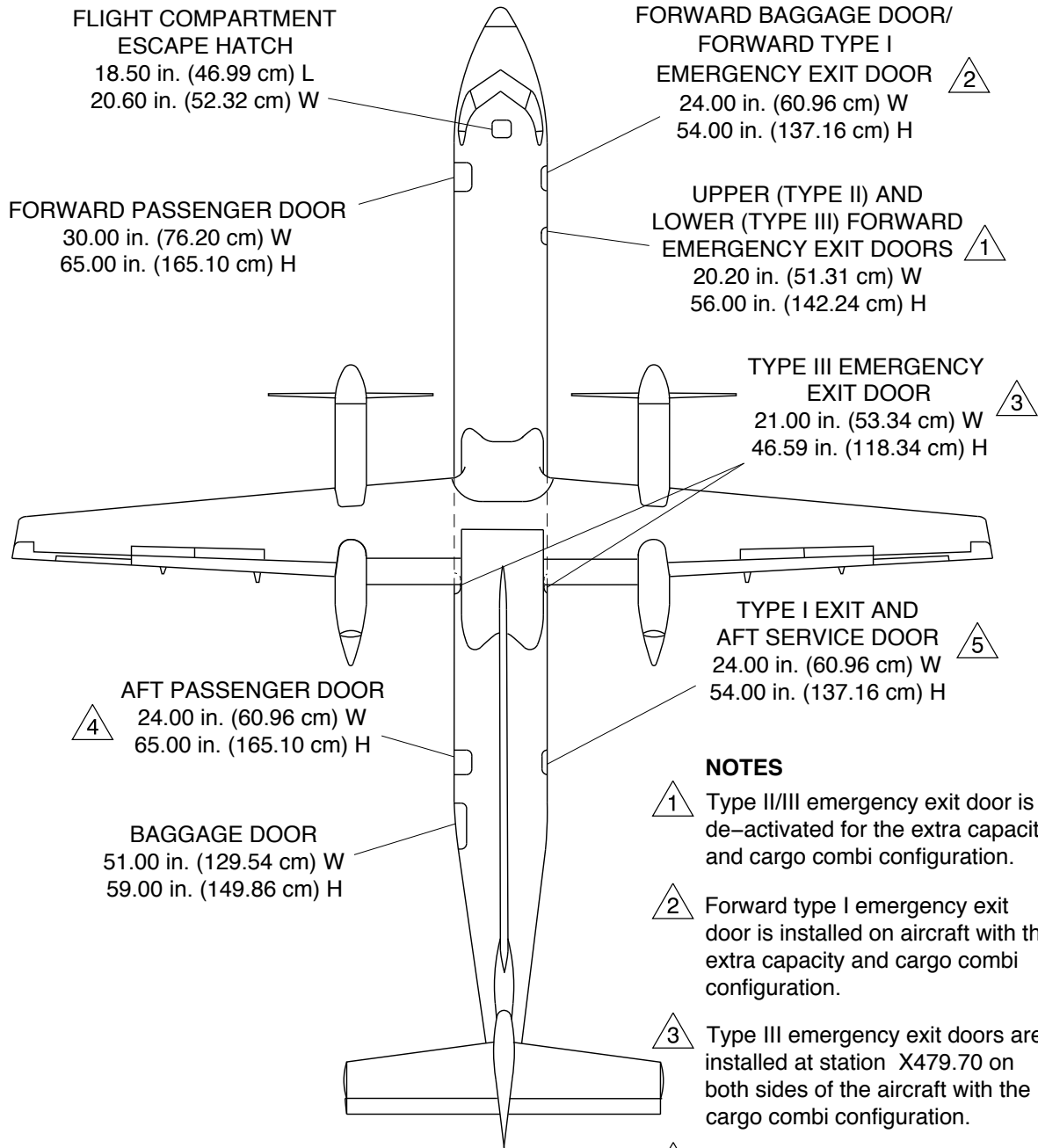
(Sheet 1 of 2)

Figure 00 – 1





CRASH-FIRE-RESCUE MANUAL



NOTES

- 1 Type II/III emergency exit door is de-activated for the extra capacity and cargo combi configuration.
- 2 Forward type I emergency exit door is installed on aircraft with the extra capacity and cargo combi configuration.
- 3 Type III emergency exit doors are installed at station X479.70 on both sides of the aircraft with the cargo combi configuration.
- 4 The aft passenger door is de-activated for aircraft with the cargo combi configuration.
- 5 Aft service door is de-activated for aircraft with the cargo combi configuration.

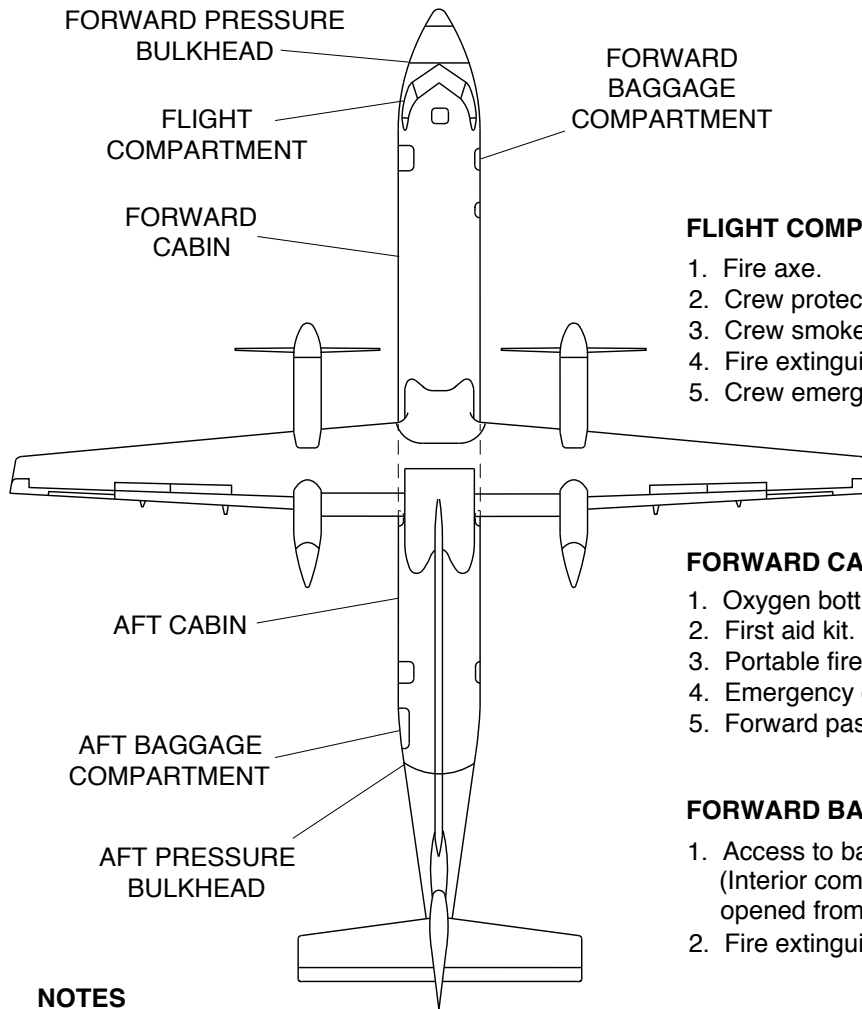
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AIRCRAFT DIMENSIONS (INCL EXTRA CAPACITY AND CARGO COMBI CONFIGURATION)

(Sheet 2 of 2)  
Figure 00 - 1



**CRASH-FIRE-RESCUE MANUAL**



**FLIGHT COMPARTMENT**

- 1. Fire axe.
- 2. Crew protective breathing equipment.
- 3. Crew smoke goggles.
- 4. Fire extinguisher.
- 5. Crew emergency escape hatch.

**FORWARD CABIN**

- 1. Oxygen bottles.
- 2. First aid kit.
- 3. Portable fire extinguisher.
- 4. Emergency exit door – Type II/III. <sup>4</sup>
- 5. Forward passenger door – Type I.

**FORWARD BAGGAGE COMPARTMENT** <sup>1</sup>

- 1. Access to baggage compartment (Interior compartment door can only be opened from passenger compartment).
- 2. Fire extinguishing system.

**AFT CABIN**

- 1. Oxygen bottles.
- 2. First aid kit.
- 3. Portable fire extinguishers.
- 4. Emergency exit door – Type III. <sup>3</sup>
- 5. Aft passenger door – Type I (optional folding stairs may be installed). <sup>5</sup>
- 6. Service door – Type I. <sup>5</sup>

**AFT BAGGAGE COMPARTMENT** <sup>2</sup>

- 1. Access to baggage compartment.
- 2. Fire extinguishing system.

**NOTES**

- <sup>1</sup> For the aircraft with extra capacity and cargo combi configuration the forward baggage compartment is removed.
- <sup>2</sup> The aft baggage compartment is configured to 828.00 ft<sup>3</sup> (23.45 m<sup>3</sup>) for aircraft with the cargo combi configuration.
- <sup>3</sup> Type III emergency exit doors are installed at station X479.70 on both sides of the aircraft with the cargo combi configuration.
- <sup>4</sup> Type II/III emergency exit door is de-activated for the extra capacity and cargo combi configuration.
- <sup>5</sup> The aft passenger door and aft service door are de-activated on aircraft with the cargo combi configuration.

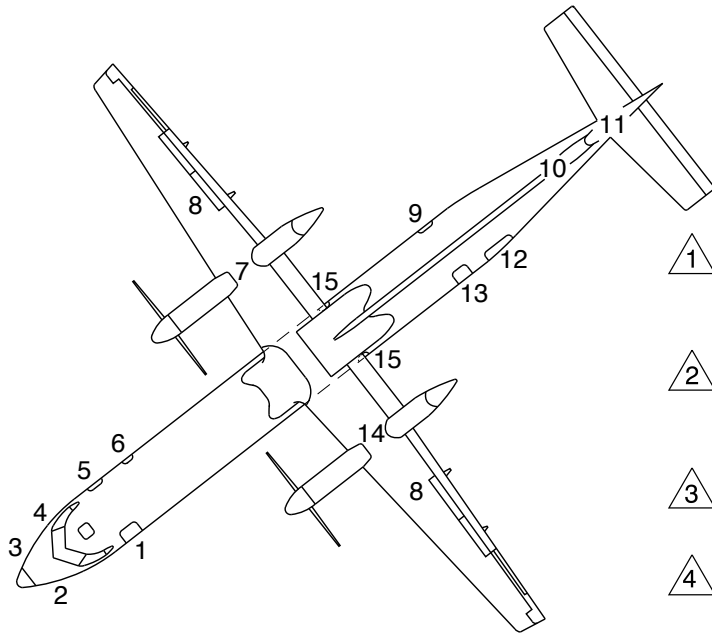
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**FAMILIARIZATION AND LOCATION GUIDE**

Figure 00 – 2



**CRASH-FIRE-RESCUE MANUAL**



**NOTES**

- △ 1 Forward type I emergency exit door is installed on aircraft with extra capacity and cargo combi configuration.
- △ 2 Type II/III forward emergency exit door is de-activated for the extra capacity and cargo combi configuration.
- △ 3 Service door is de-activated for aircraft with the cargo combi configuration.
- △ 4 Aft passenger door is de-activated on aircraft with the cargo combi configuration.
- △ 5 Type III emergency exit doors are installed at station X479.70 on both sides of the aircraft with the cargo combi configuration.

**EXTERIOR WALK AROUND SEQUENCE (FOR CREW TRAINING PURPOSES)**

1. Airstair door location and demo of external opening sequence.
2. Nose fuselage access door – batteries and contactor box locations.
3. Crew oxygen bottle.
4. Nose landing gear location and description, auxiliary hydraulic reservoir and hydraulic lines location and description.
5. Forward baggage door location and demo of external opening sequence, fire bottle location /forward type I emergency exit location and demo of external opening sequence. △ 1
6. Type II/III emergency exit door location and demo of external opening sequence. △ 2
7. No. 2 nacelle – main landing gear location and description, hydraulic reservoir and hydraulic lines location and description, fire bottle locations.
8. Fuel tanks location and description.
9. Service door location and demo of external opening sequence. △ 3
10. Aft equipment bay access door–opening sequence, flight data recorder and cockpit voice recorder locations.
11. Auxiliary power unit (APU) bay access door – APU location and description.
12. Aft baggage door location and demo of external opening sequence, fire bottle locations.
13. Aft passenger door location and demos of external opening sequence, optional folding stairs (if equipped). △ 4
14. No. 1 nacelle – main landing gear location and description, hydraulic reservoir and hydraulic lines location and description, fire bottle locations.
15. Type III emergency exit door location and demo of external opening sequence. △ 5

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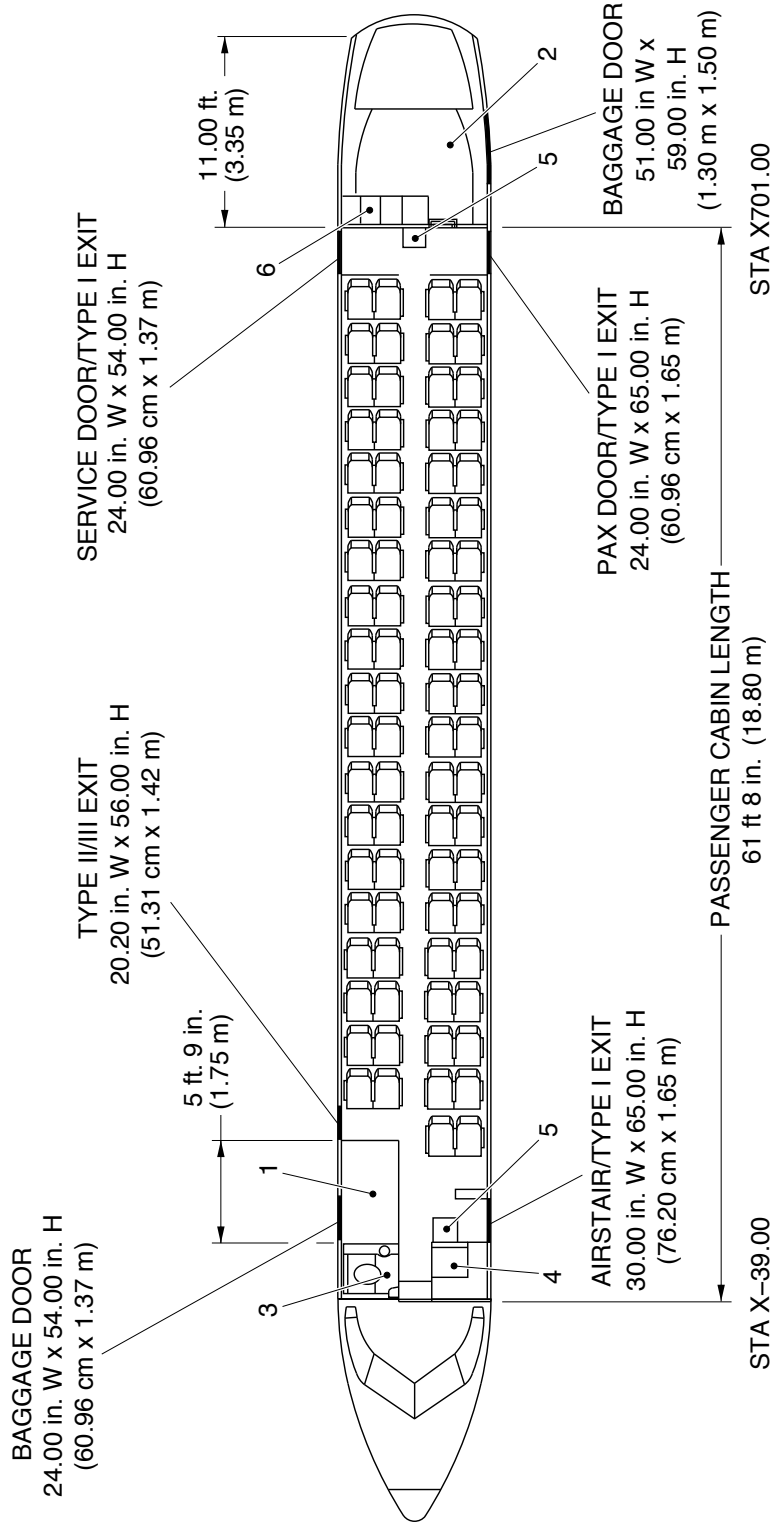
**EXTERIOR WALK-AROUND**

Figure 00 – 3



**CRASH-FIRE-RESCUE MANUAL**

**SERIES 400 (MODEL 402) INTERIOR CONFIGURATION  
78 SEATS AT 30 INCH (76.2 cm) AND 32 INCH (81.28 cm) PITCH**



**LEGEND**

1. Forward baggage compartment  
91.00 ft<sup>3</sup> (2.58 m<sup>3</sup>).
2. Rear baggage compartment  
365.00 ft<sup>3</sup> (10.33 m<sup>3</sup>).
3. Lavatory.
4. Wardrobe.
5. Flight attendant.
6. Galley.

**NOTE**

Layout may vary with optional configurations.

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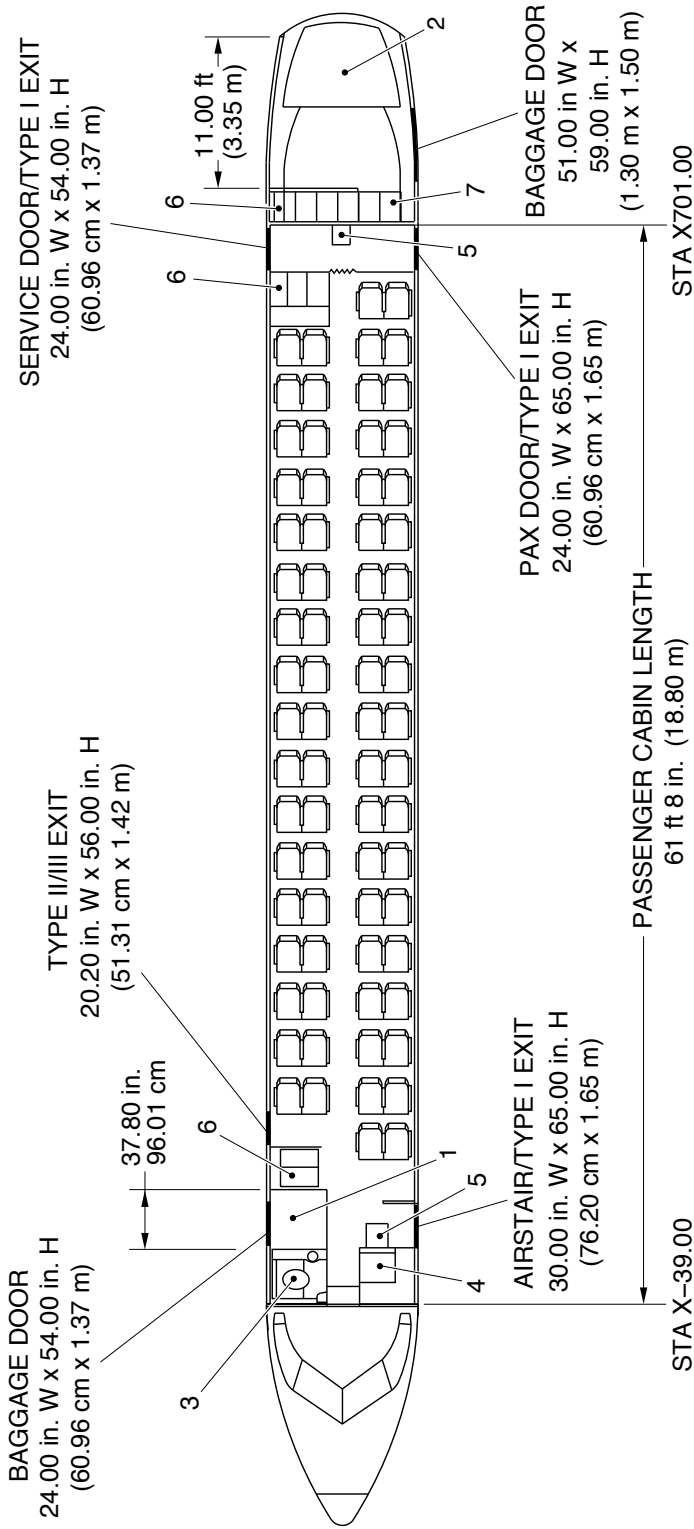
TYPICAL SERIES 400 INTERIOR CONFIGURATIONS (Sheet 1 of 10)

Figure 00 – 4



**CRASH-FIRE-RESCUE MANUAL**

**SERIES 400 (MODEL 402) INTERIOR CONFIGURATION  
72 SEATS AT 32 INCH (81.28 cm) PITCH**



**LEGEND**

1. Forward Baggage Compartment  
51.00 ft<sup>3</sup> (1.44 m<sup>3</sup>).
2. Rear Baggage Compartment  
365.00 ft<sup>3</sup> (10.33 m<sup>3</sup>).
3. Lavatory.
4. Wardrobe.
5. Flight Attendant Seat.
6. Galley.
7. Cart Storage.

**NOTE**

Layout may vary with optional configurations.

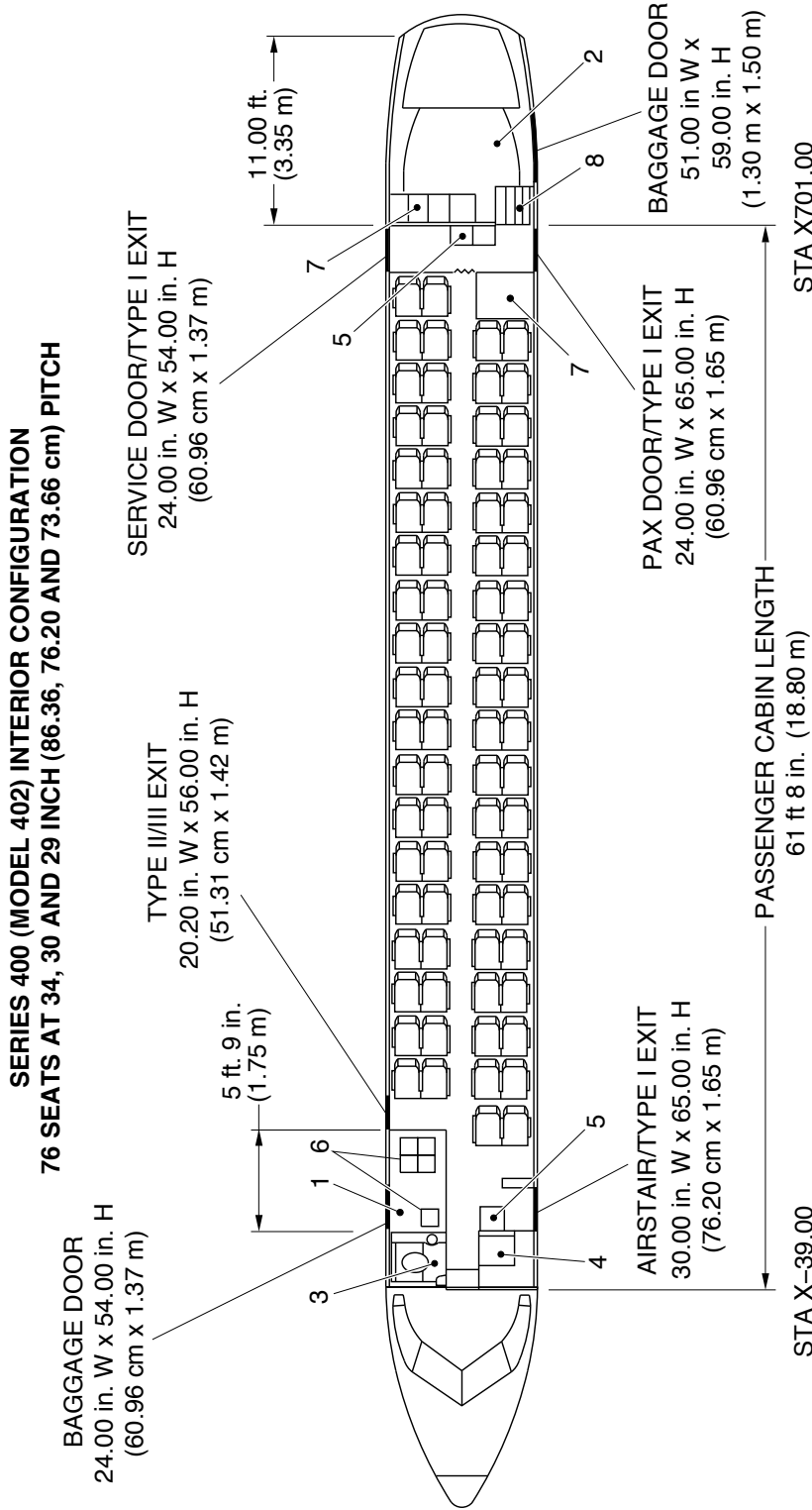
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TYPICAL SERIES 400 INTERIOR CONFIGURATIONS (Sheet 2 of 10)

Figure 00 – 4



**CRASH-FIRE-RESCUE MANUAL**



**LEGEND**

1. Forward baggage compartment  
91.00 ft<sup>3</sup> (2.58 m<sup>3</sup>).
2. Rear baggage compartment  
354.00 ft<sup>3</sup> (10.0 m<sup>3</sup>) approx.
3. Lavatory.
4. Wardrobe.
5. Flight attendant.
6. Beverage cart stowage.
7. Galley.
8. Folding stairs (optional).

**NOTE**

Layout may vary with optional configurations.

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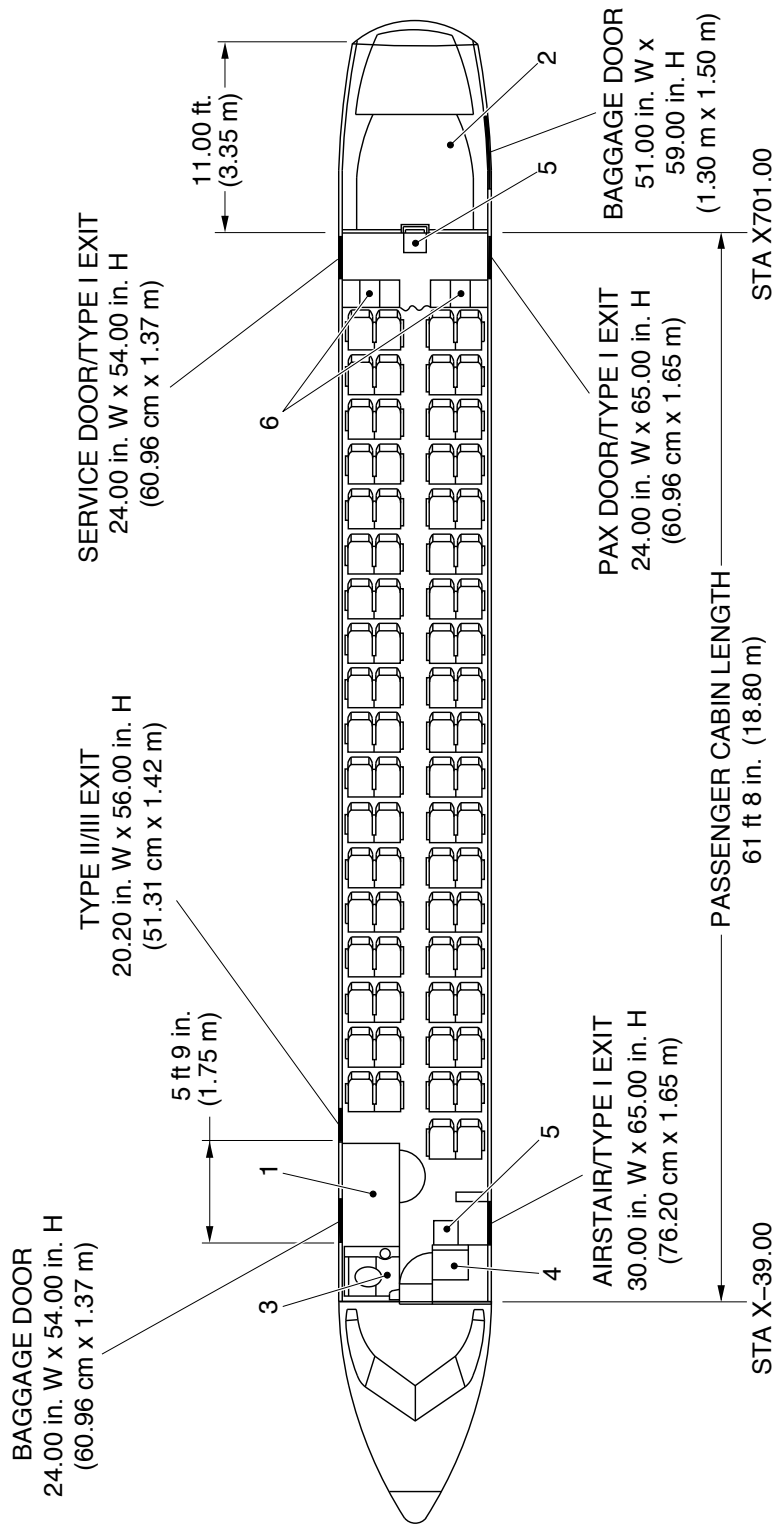
TYPICAL SERIES 400 INTERIOR CONFIGURATIONS (Sheet 3 of 10)

Figure 00 – 4



**CRASH-FIRE-RESCUE MANUAL**

**SERIES 400 (TYPE SPECIFICATION MODEL 402) INTERIOR CONFIGURATION  
74 SEATS AT 31 INCH (78.74 cm) PITCH**



**LEGEND**

1. Forward baggage compartment  
91.00 ft<sup>3</sup> (2.58 m<sup>3</sup>).
2. Rear baggage compartment  
411.00 ft<sup>3</sup> (11.64 m<sup>3</sup>).
3. Lavatory.
4. Wardrobe.
5. Flight attendant.
6. Galley.

**NOTE**

Standard configuration shown.  
Layout may vary with optional configurations.

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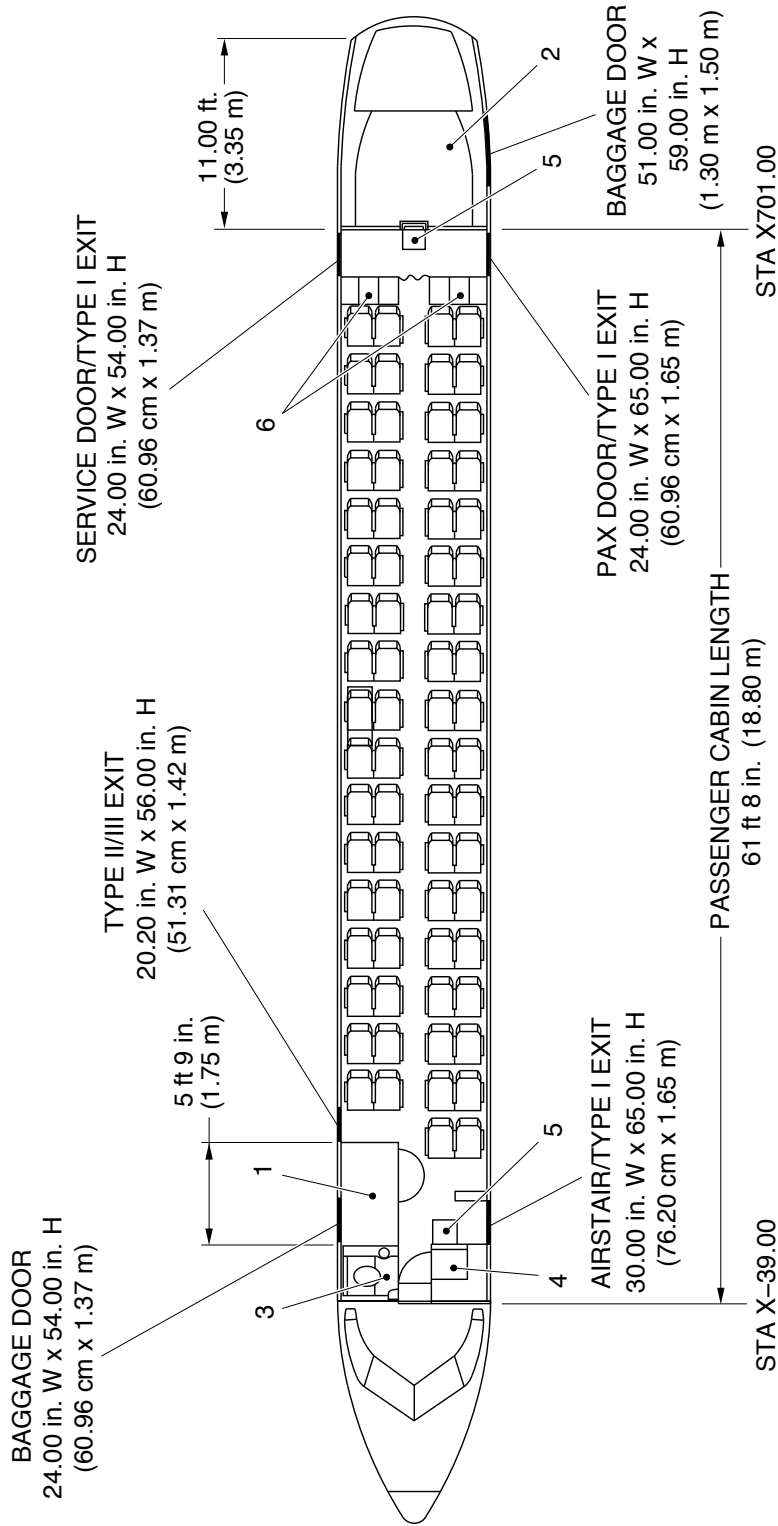
TYPICAL SERIES 400 INTERIOR CONFIGURATIONS (Sheet 4 of 10)

Figure 00 – 4



**CRASH-FIRE-RESCUE MANUAL**

**SERIES 400 (TYPE SPECIFICATION MODEL 401) INTERIOR CONFIGURATION  
70 SEATS AT 33 INCH (83.82 cm) PITCH**



**LEGEND**

1. Forward baggage compartment  
91.00 ft<sup>3</sup> (2.58 m<sup>3</sup>).
2. Rear baggage compartment  
411.00 ft<sup>3</sup> (11.64 m<sup>3</sup>).
3. Lavatory.
4. Wardrobe.
5. Flight attendant.
6. Galley.

**NOTE**

Standard configuration shown.  
Layout may vary with optional configurations.

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TYPICAL SERIES 400 INTERIOR CONFIGURATIONS (Sheet 5 of 10)

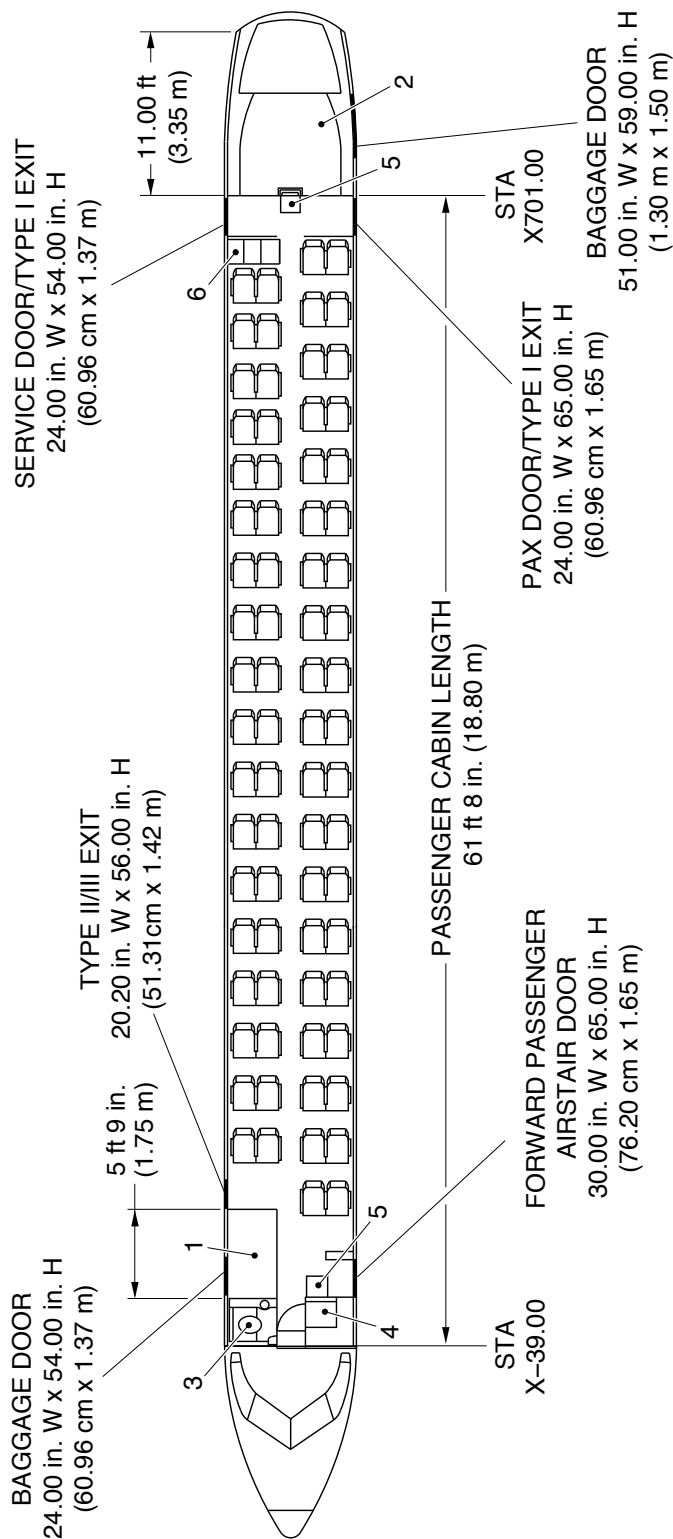
Figure 00 – 4





**CRASH-FIRE-RESCUE MANUAL**

**SERIES 400 (MODEL 402) INTERIOR CONFIGURATION  
66 SEATS AT 31 in. (78.74 cm) PITCH AND 8 SEATS AT 34 in. (86.36 cm) PITCH**



**LEGEND**

- 1. Forward baggage compartment  
91.00 ft<sup>3</sup> (2.58 m<sup>3</sup>).
- 2. Rear baggage compartment  
365.00 ft<sup>3</sup> (10.33 m<sup>3</sup>).
- 3. Lavatory.
- 4. Wardrobe.
- 5. Flight attendant.
- 6. Galley.

**NOTE**

Layout may vary with optional configuration.

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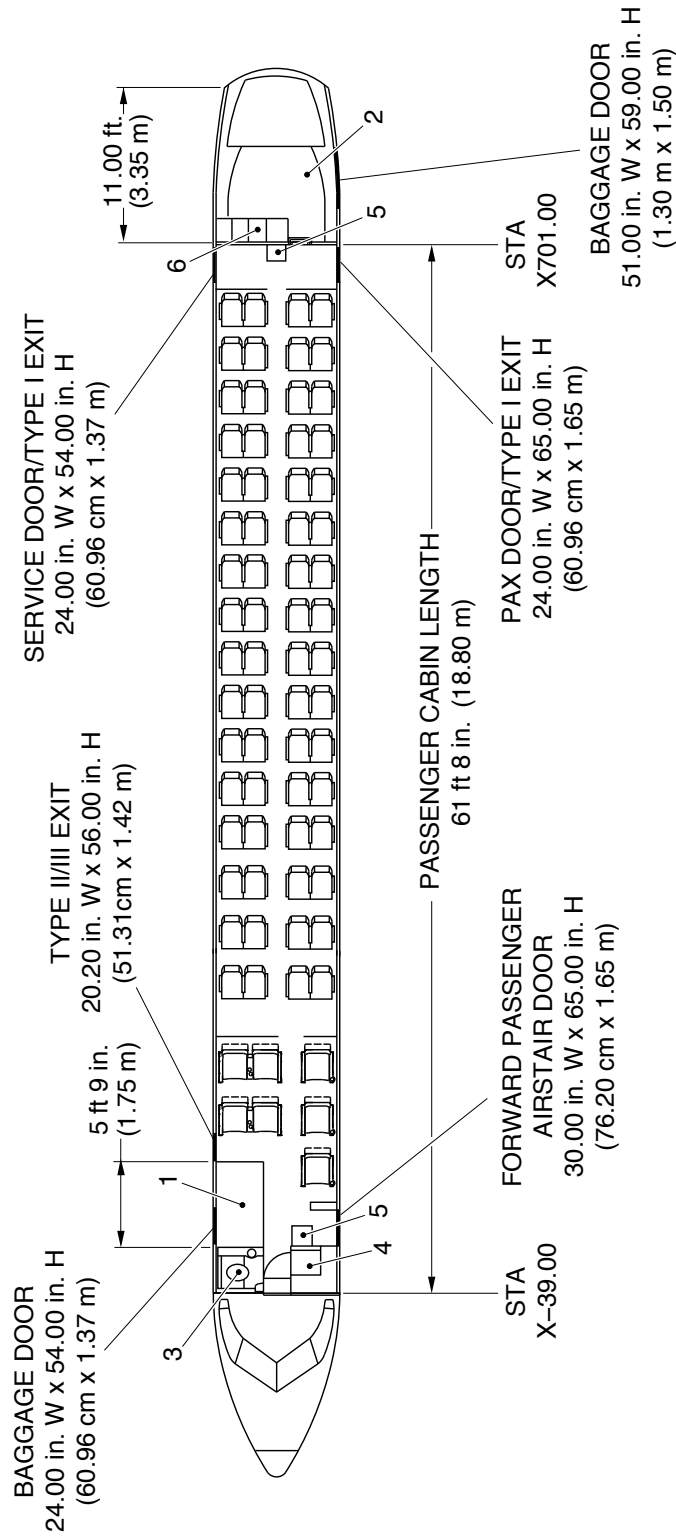
TYPICAL SERIES 400 INTERIOR CONFIGURATIONS (Sheet 6 of 10)

Figure 00 – 4



**CRASH-FIRE-RESCUE MANUAL**

**SERIES 400 (MODEL 402) THREE-ABREAST TRIPLE CLASS INTERIOR CONFIGURATION**  
**7 SEATS AT 36 in. (91.44 cm) PITCH, 10 SEATS AT 34 in. (86.36 cm) PITCH AND 54 SEATS AT 30 in. (76.20 cm) PITCH**



**LEGEND**

1. Forward baggage compartment  
91.00 ft<sup>3</sup>(2.58 m<sup>3</sup>).
2. Rear baggage compartment  
365.00 ft<sup>3</sup>(10.33 m<sup>3</sup>).
3. Lavatory.
4. Wardrobe.
5. Flight attendant.
6. Galley.

**NOTE**

Layout may vary with optional configuration.

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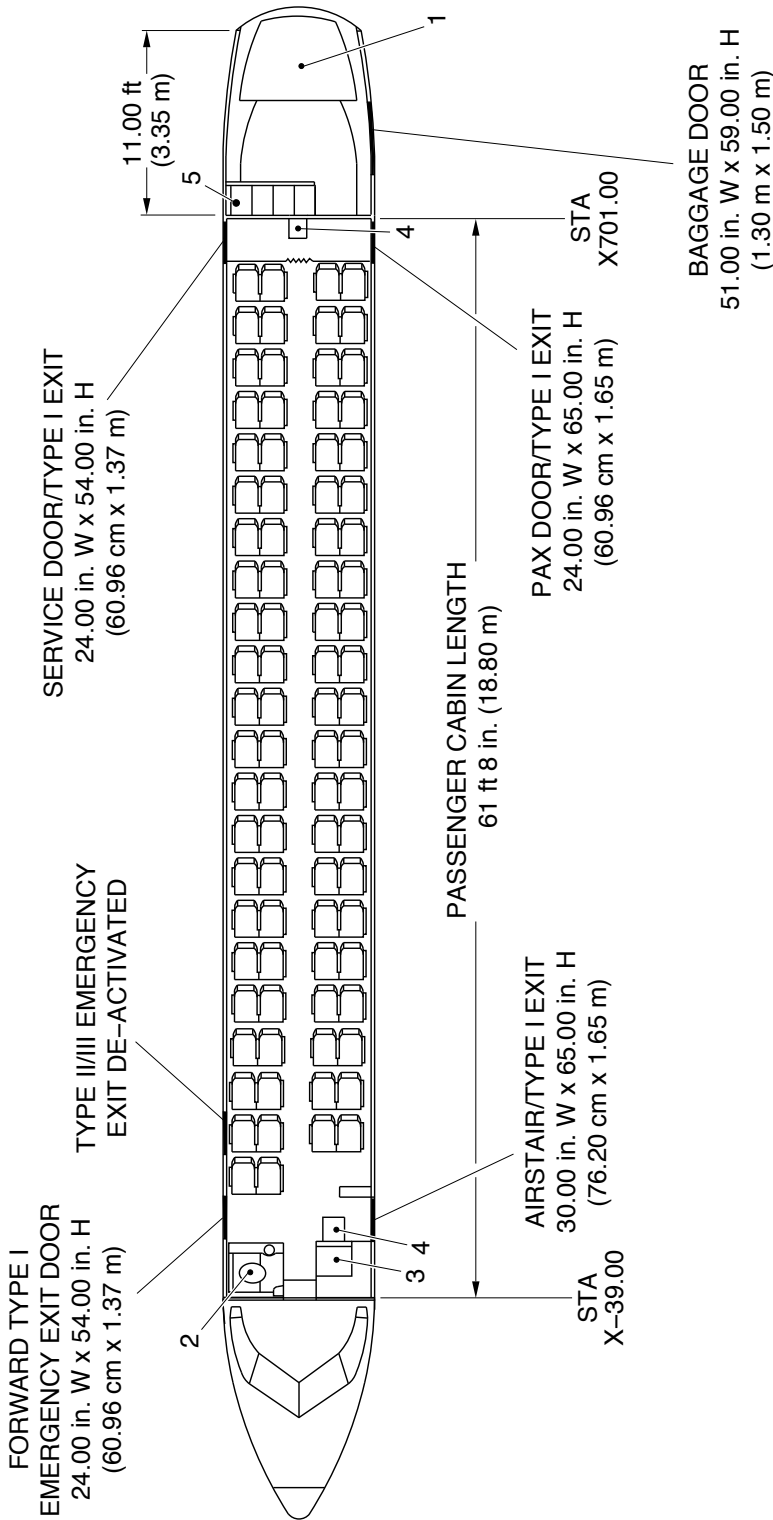
TYPICAL SERIES 400 INTERIOR CONFIGURATIONS (Sheet 7 of 10)

Figure 00 – 4



**CRASH-FIRE-RESCUE MANUAL**

**SERIES 400 (MODEL 402) EXTRA CAPACITY INTERIOR CONFIGURATION  
86 SEATS AT 29 INCH (73.66 cm) PITCH**



**LEGEND**

1. Rear baggage compartment  
365.00 ft<sup>3</sup> (10.33 m<sup>3</sup>).
2. Lavatory.
3. Wardrobe.
4. Flight attendant Seat.
5. Galley.

**NOTE**  
Layout may vary with optional configurations.

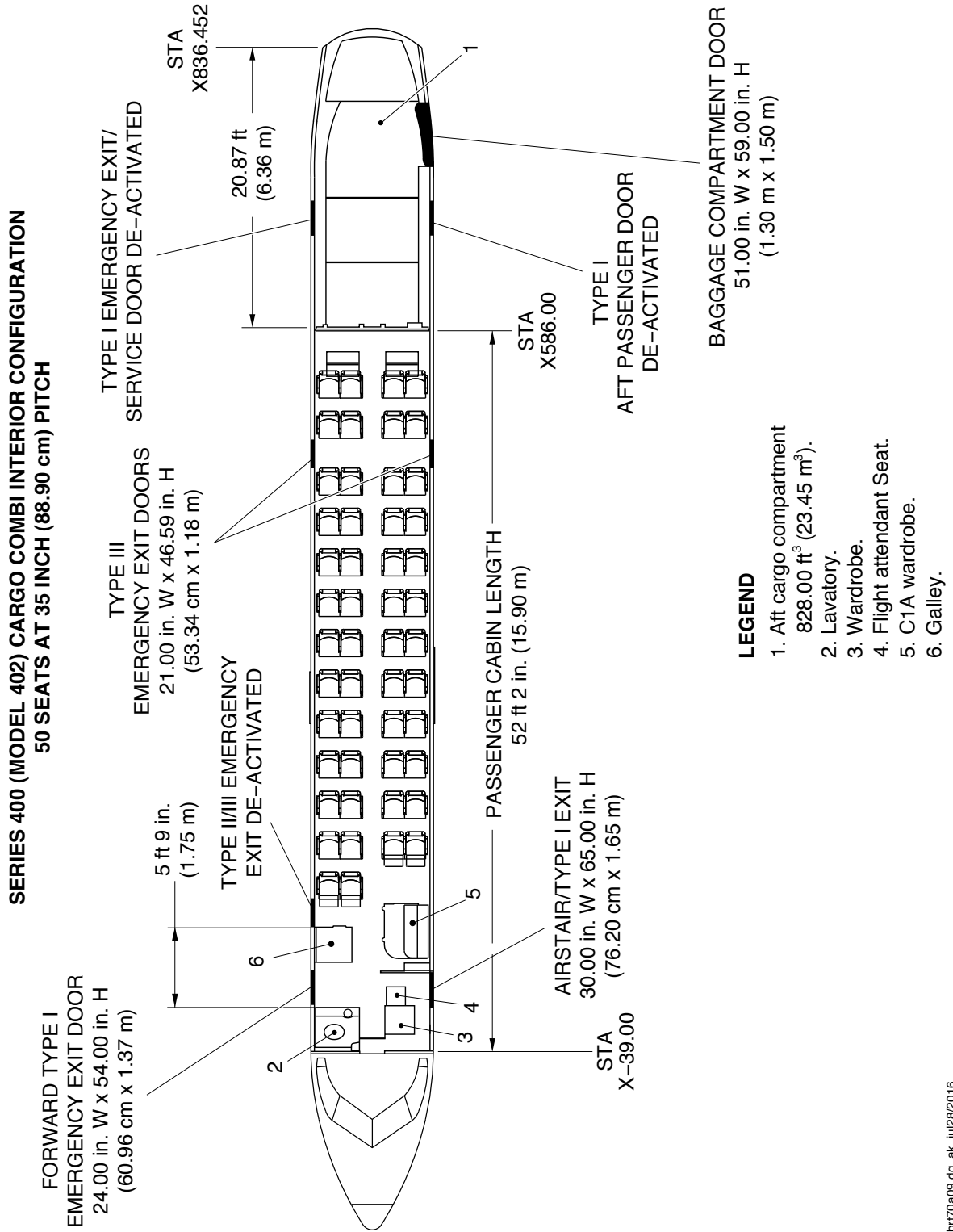
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TYPICAL SERIES 400 INTERIOR CONFIGURATIONS (Sheet 8 of 10)

Figure 00 – 4



**CRASH-FIRE-RESCUE MANUAL**



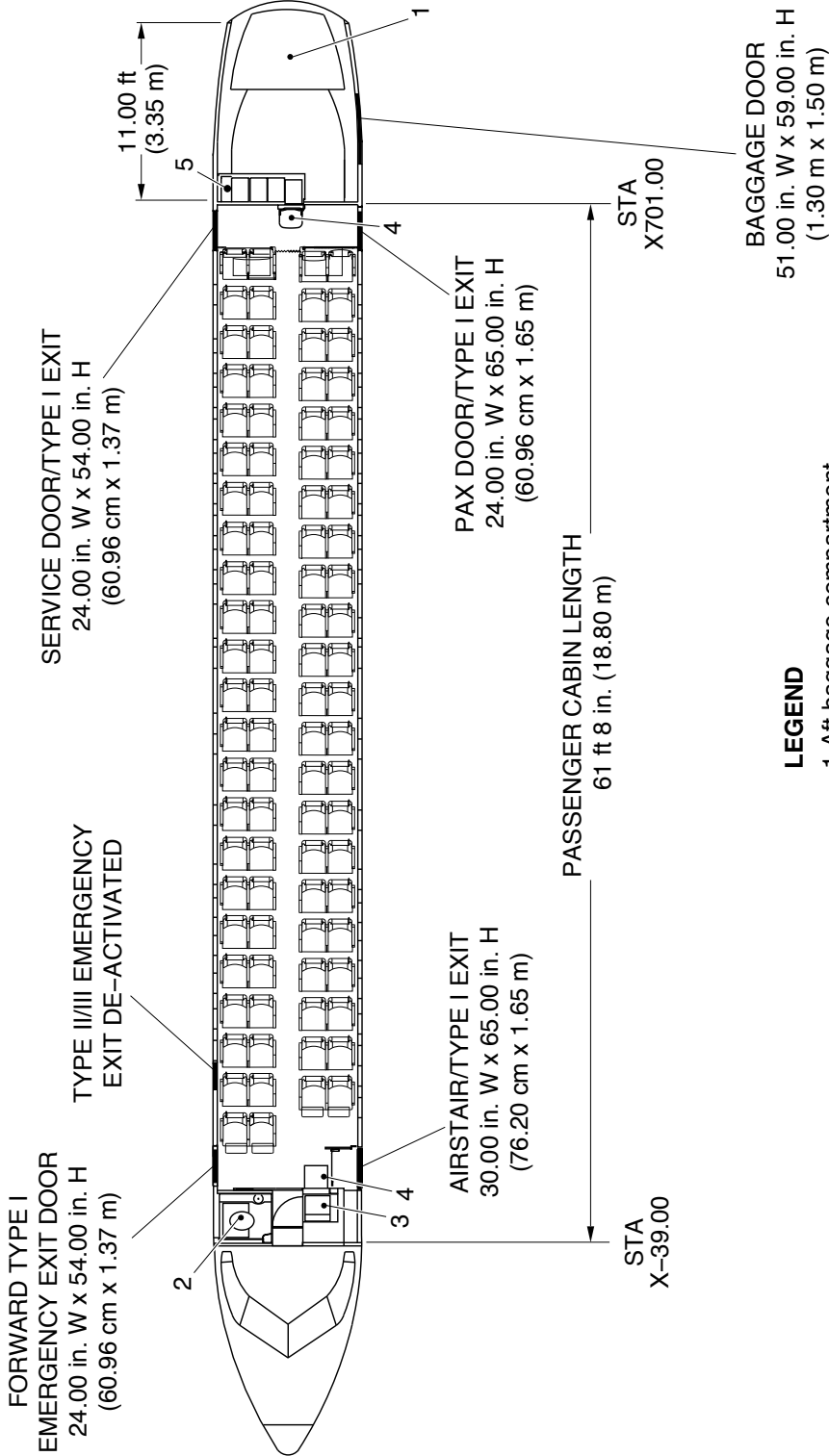
TYPICAL SERIES 400 INTERIOR CONFIGURATIONS (Sheet 9 of 10)

Figure 00 – 4



**CRASH-FIRE-RESCUE MANUAL**

**SERIES 400 (MODEL 402) EXTRA CAPACITY INTERIOR CONFIGURATION  
90 SEATS AT 28 INCH (71.12 cm) PITCH**



**LEGEND**

- 1. Aft baggage compartment 365.00 ft<sup>3</sup> (10.33 M<sup>3</sup>).
- 2. Lavatory.
- 3. Wardrobe.
- 4. Flight attendant Seat.
- 5. Galley.

**NOTE**  
Layout may vary with optional configurations.

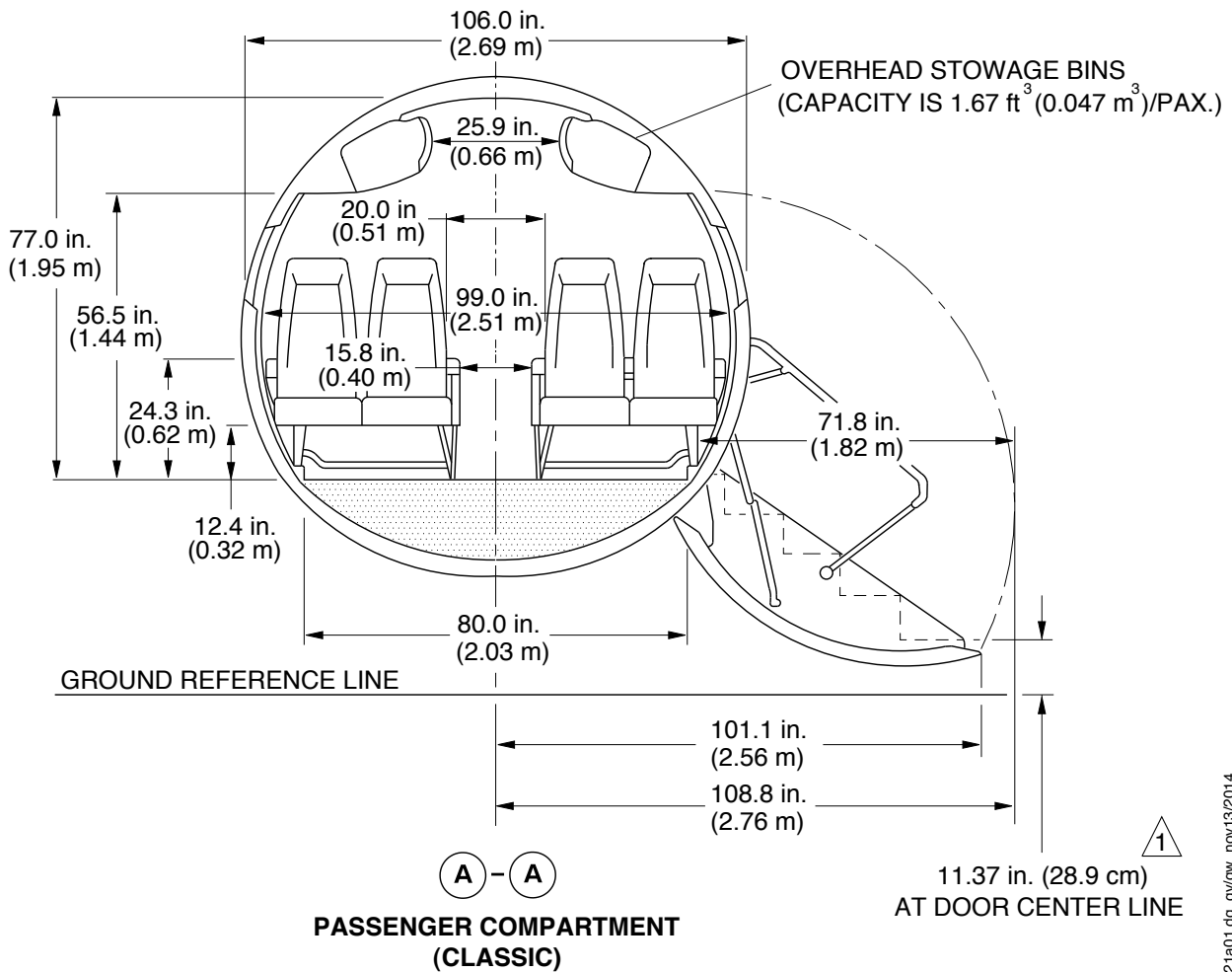
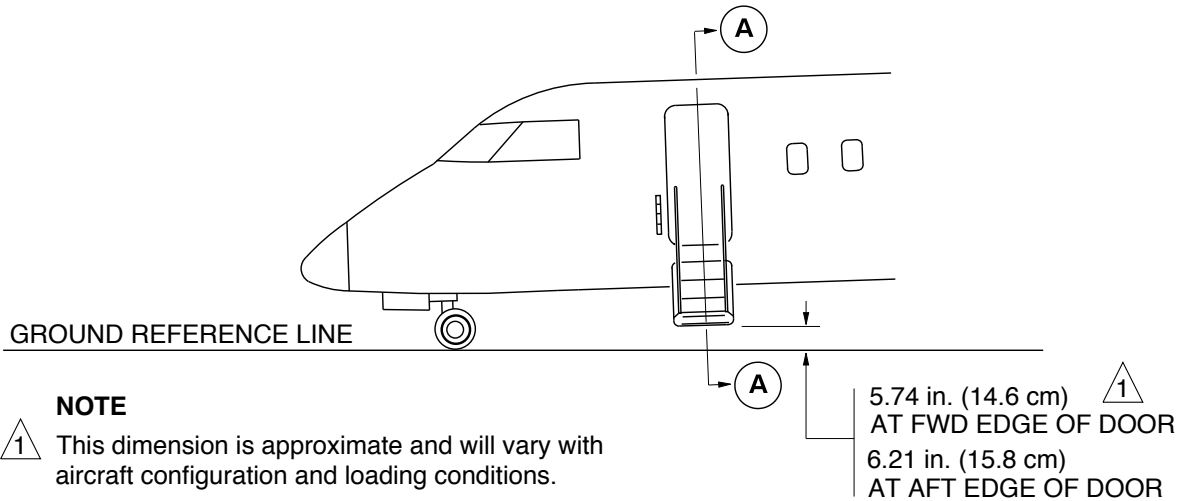
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TYPICAL SERIES 400 INTERIOR CONFIGURATIONS (Sheet 10 of 10)

Figure 00 – 4



**CRASH-FIRE-RESCUE MANUAL**



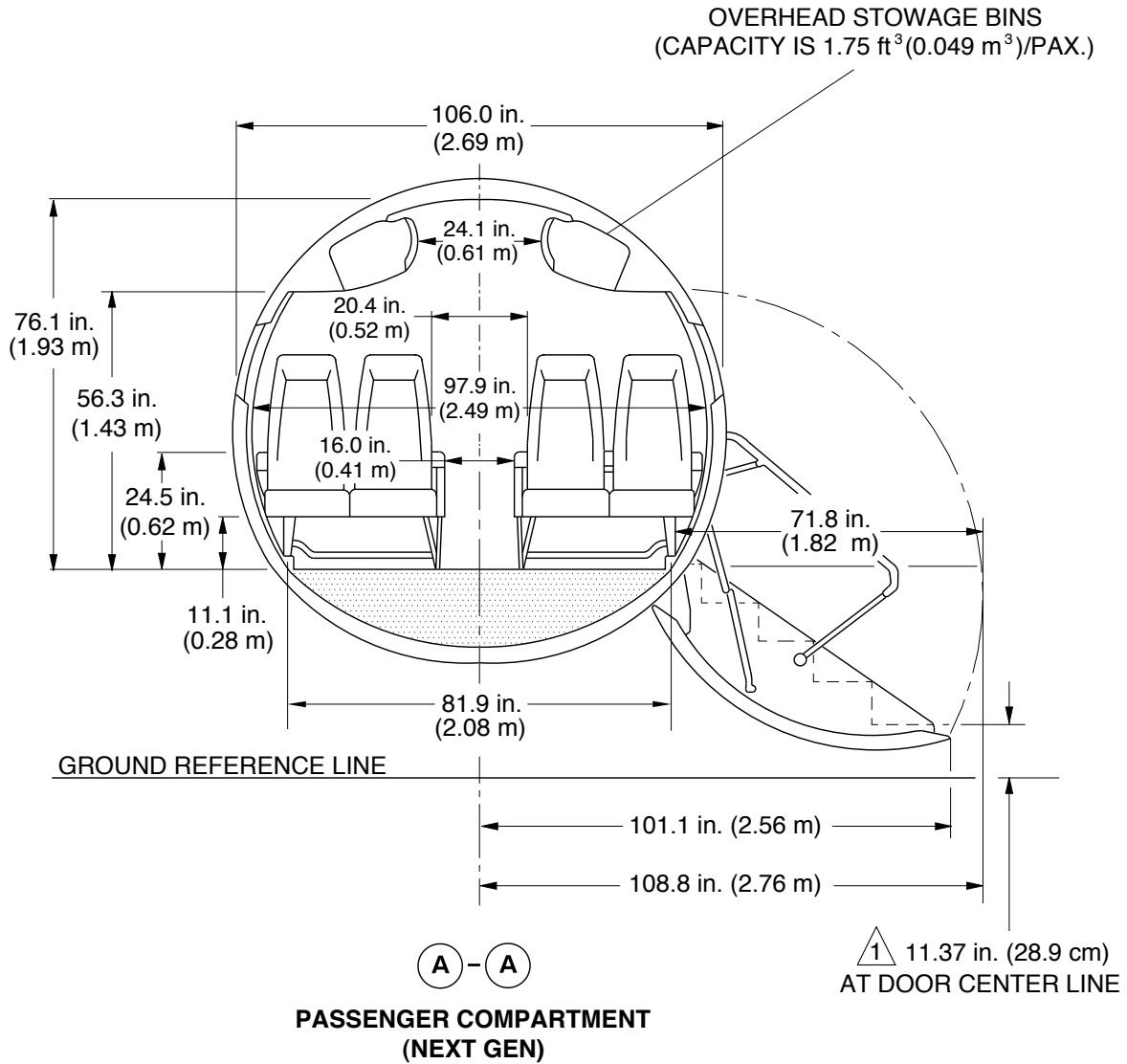
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PASSENGER COMPARTMENT CROSS SECTION (Sheet 1 of 2)

Figure 00 - 5



CRASH-FIRE-RESCUE MANUAL



**NOTE**

1 This dimension is approximate and will vary with aircraft configuration and loading conditions.

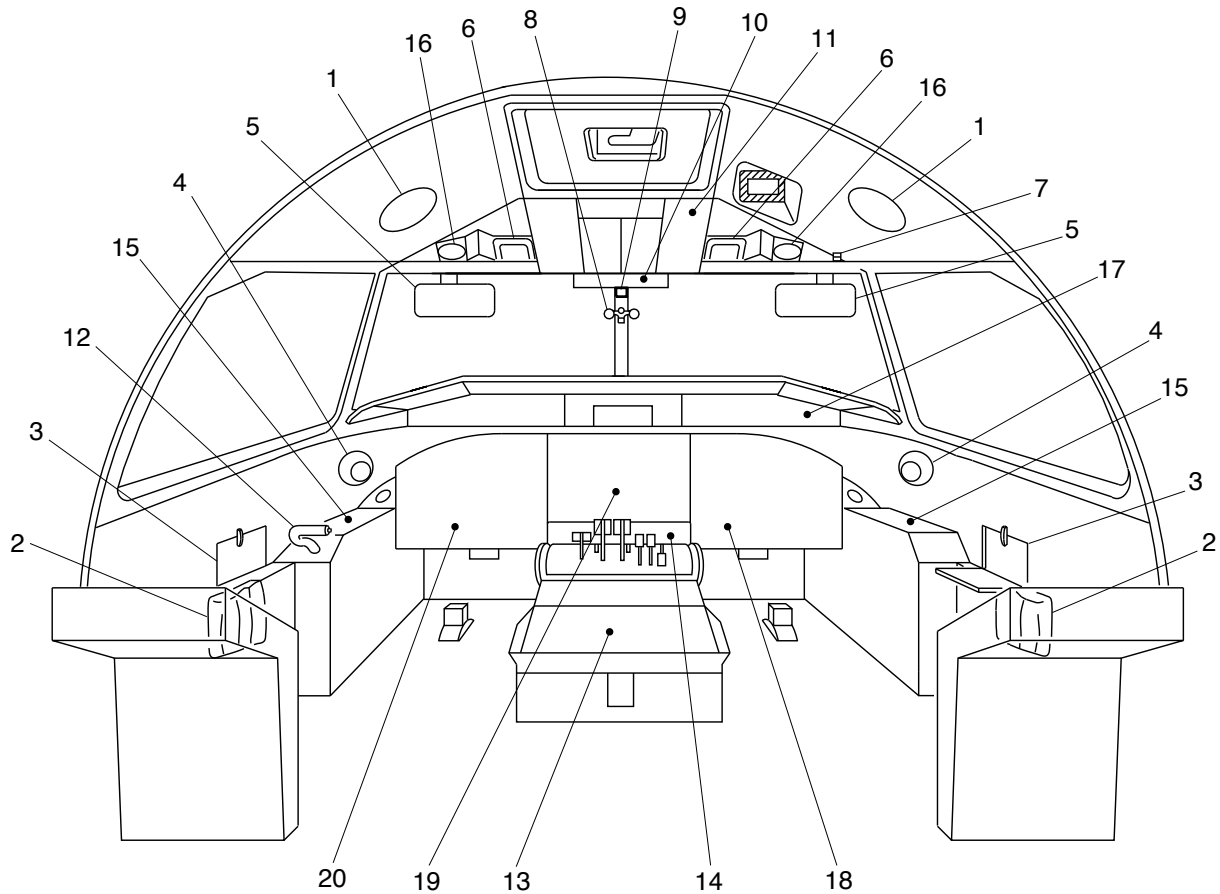
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PASSENGER COMPARTMENT CROSS SECTION (Sheet 2 of 2)

Figure 00 - 5



**CRASH-FIRE-RESCUE MANUAL**



**LEGEND**

- |                                   |                                      |
|-----------------------------------|--------------------------------------|
| 1. Overhead speakers.             | 11. Overhead panel.                  |
| 2. Stowage pockets.               | 12. Nosewheel steering hand control. |
| 3. Map tables.                    | 13. Center console (aft).            |
| 4. Gaspers.                       | 14. Center console (fwd).            |
| 5. Sun visors.                    | 15. Side console (pilot & copilot).  |
| 6. Hand holds.                    | 16. Utility lights.                  |
| 7. Compass calibration card.      | 17. Glareshield panel.               |
| 8. Eye level indicator.           | 18. Copilot's instrument panel.      |
| 9. Standby compass.               | 19. Engine instrument panel.         |
| 10. Caution/Warning lights panel. | 20. Pilot's instrument panel.        |

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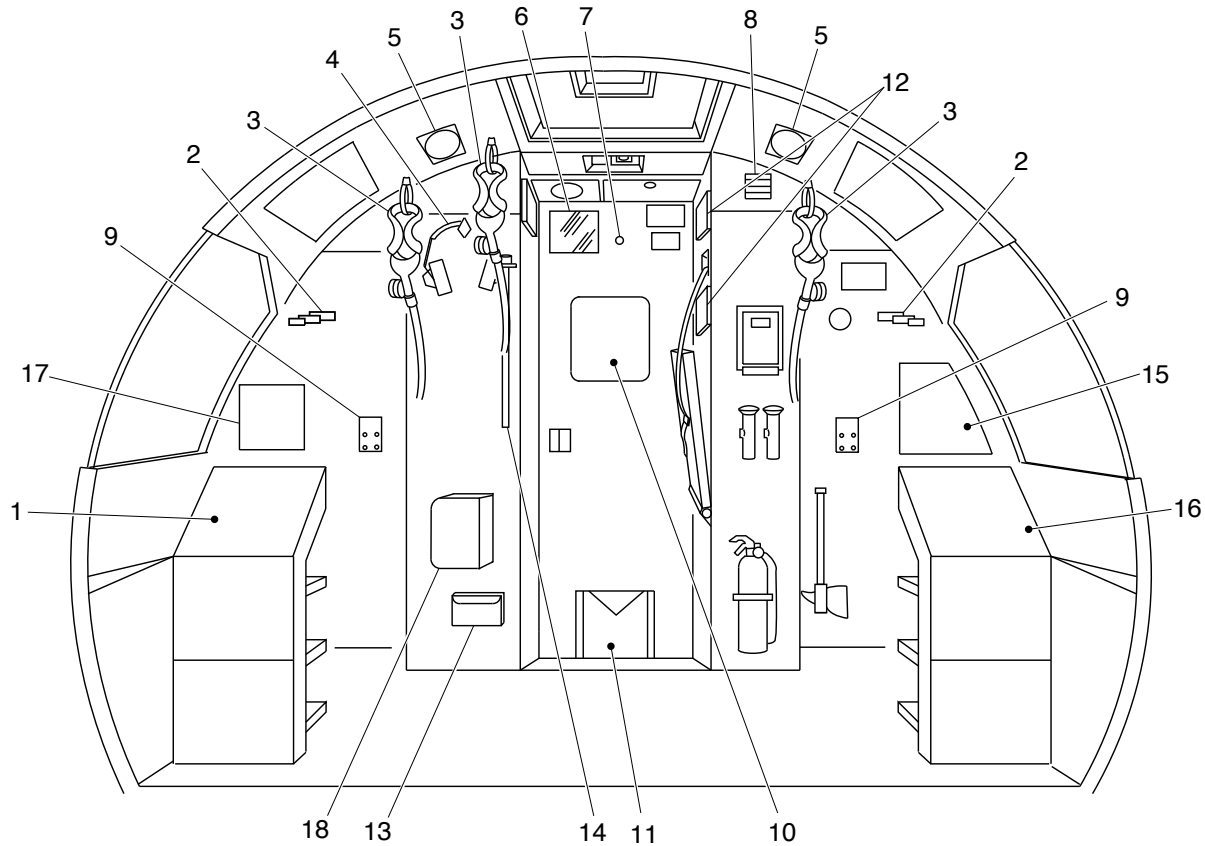
TYPICAL FLIGHT COMPARTMENT ARRANGEMENT (LOOKING FORWARD)

Figure 00 – 6





**CRASH-FIRE-RESCUE MANUAL**



**LEGEND**

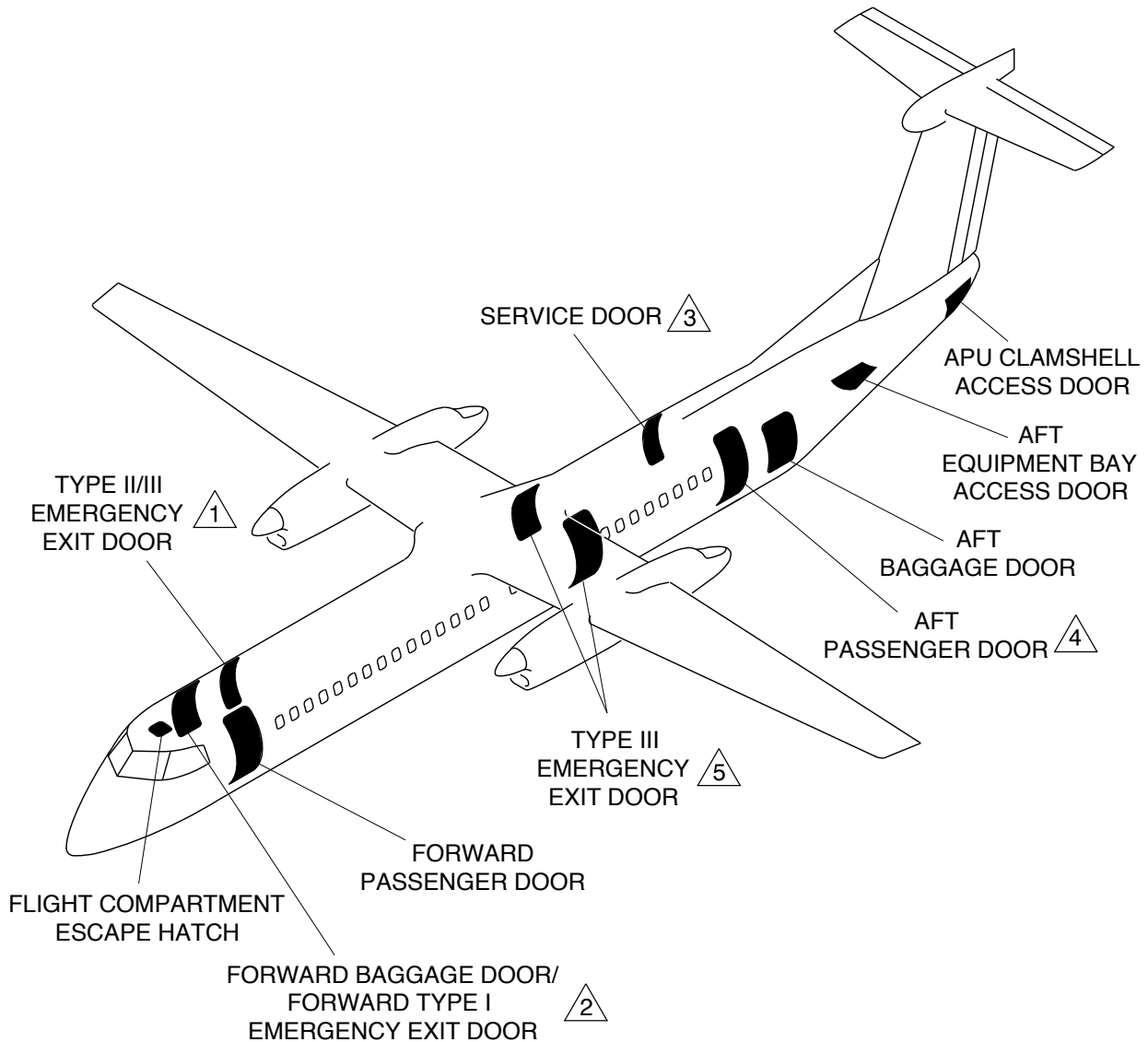
- |   |  |
|---|--|
| 1. Right DC circuit breaker panel.        | 10. Observer's seat backrest.                            |
| 2. Circuit breaker panel lights.          | 11. Weight and balance papers.                           |
| 3. Oxygen masks ( Pilot's and Copilot's). | 12. C of A and C of R holders.                           |
| 4. Observers headset stowage.             | 13. Observer's smoke goggles.                            |
| 5. Dome lights.                           | 14. Landing gear emergency extension<br>handpump handle. |
| 6. Mirror.                                | 15. Avionics circuit breaker panel.                      |
| 7. Viewer.                                | 16. Left DC circuit breaker panel.                       |
| 8. Avionics bay air vent.                 | 17. Variable frequency AC circuit breaker<br>panel.      |
| 9. Headset jacks.                         | 18. Crew PBE.  |

TYPICAL FLIGHT COMPARTMENT ARRANGEMENT (LOOKING AFT)

Figure 00 – 7



**CRASH-FIRE-RESCUE MANUAL**



**NOTES**

- 1** Type II/III emergency exit door is de-activated for the extra capacity and cargo combi configuration.
- 2** Forward type I emergency exit door is installed only on aircraft with extra capacity and cargo combi configuration.
- 3** Service door is de-activated on aircraft with the cargo combi configuration.
- 4** Aft Passenger door is de-activated on aircraft with the cargo combi configuration.
- 5** Type III emergency exit doors are installed at station X479.70 on both sides of the aircraft with the cargo combi configuration.

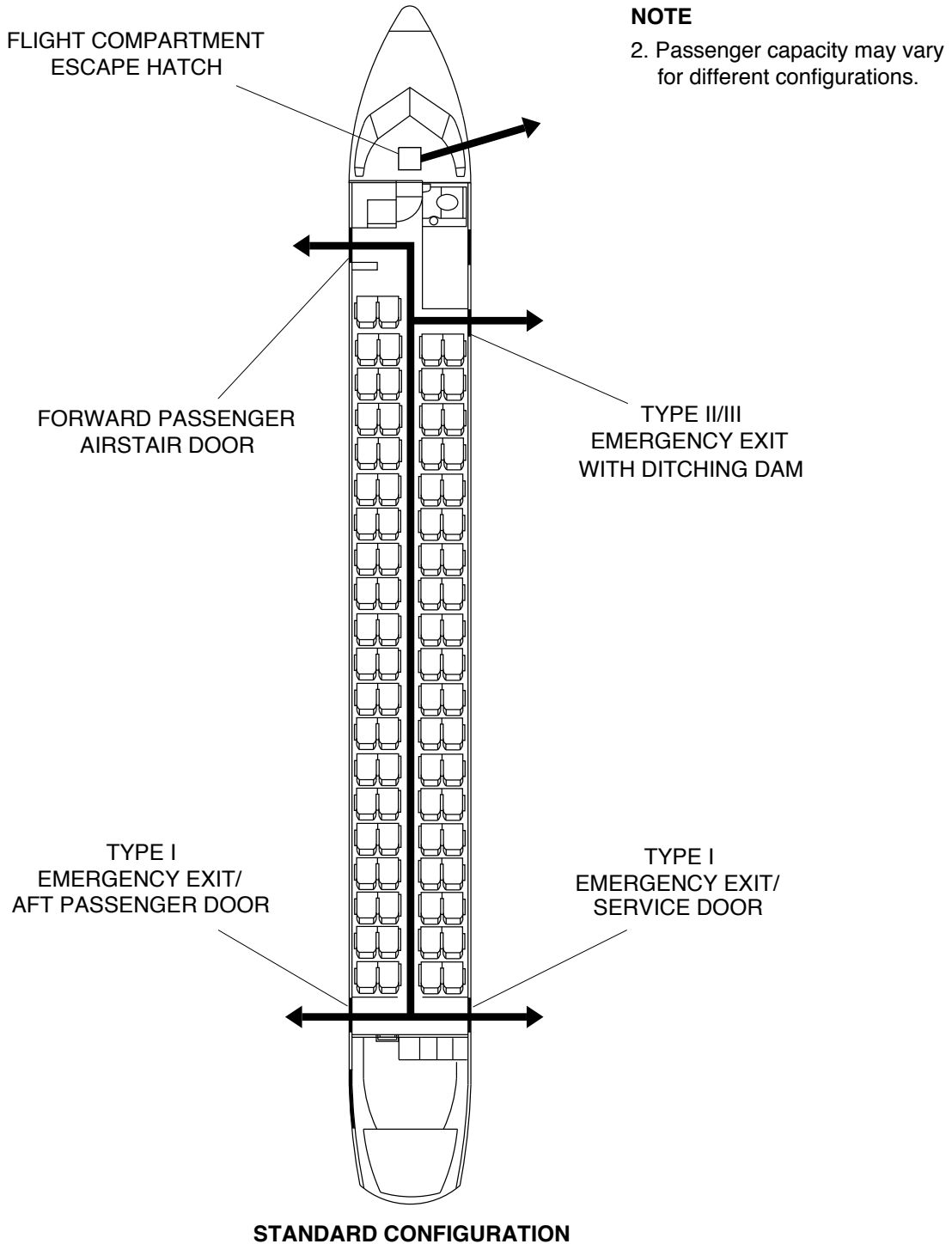
cg3566a01.dg, cs/mn, nov17/2016

**AIRCRAFT DOORS AND GROUND SERVICE PANELS (INCL EXTRA CAPACITY AND CARGO COMBI CONFIGURATION)**

Figure 00 – 8



**CRASH-FIRE-RESCUE MANUAL**



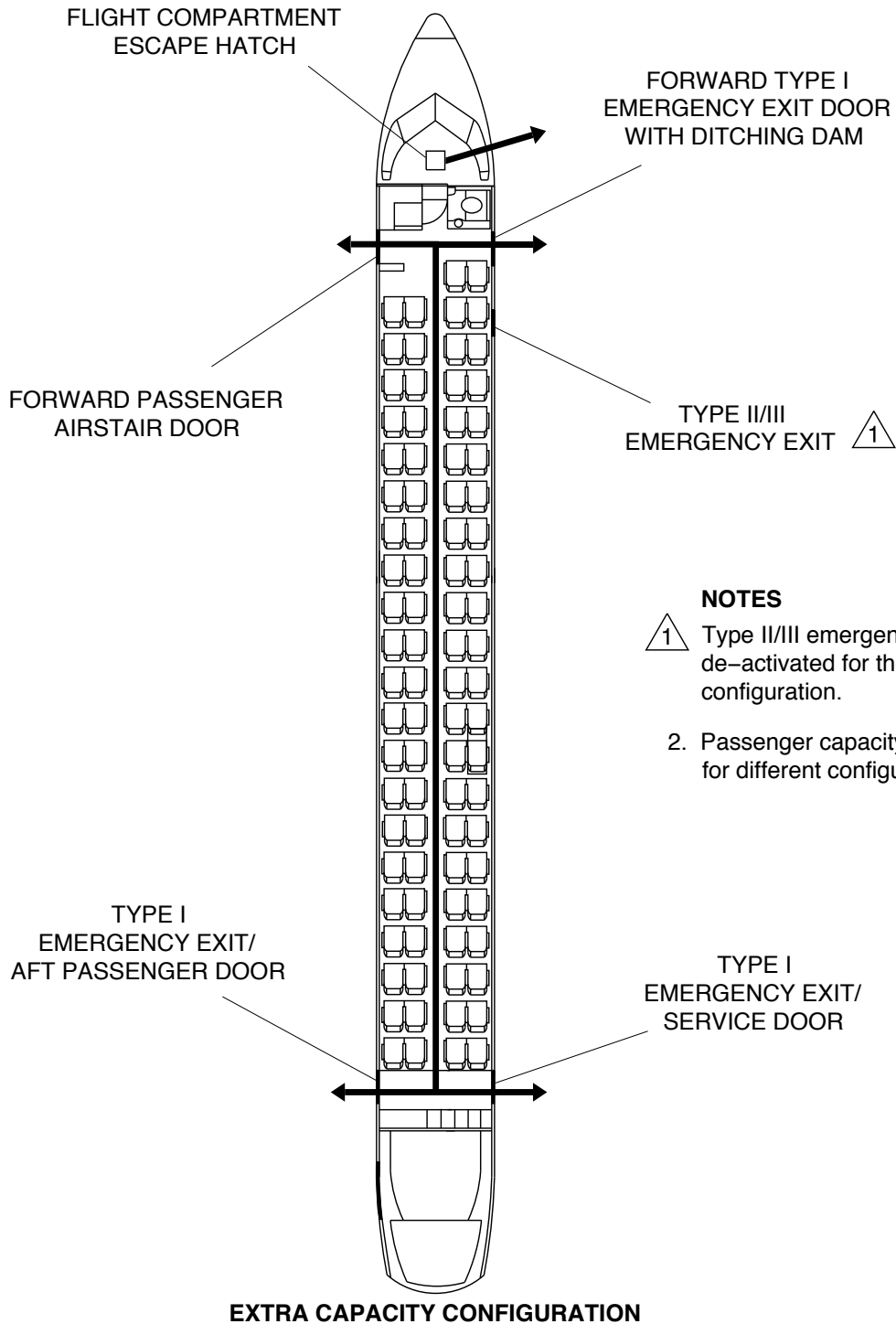
EVACUATION ROUTES (Sheet 1 of 3)

Figure 00 – 9

brb2a01.dg, gv/rs, oct29/2018



**CRASH-FIRE-RESCUE MANUAL**



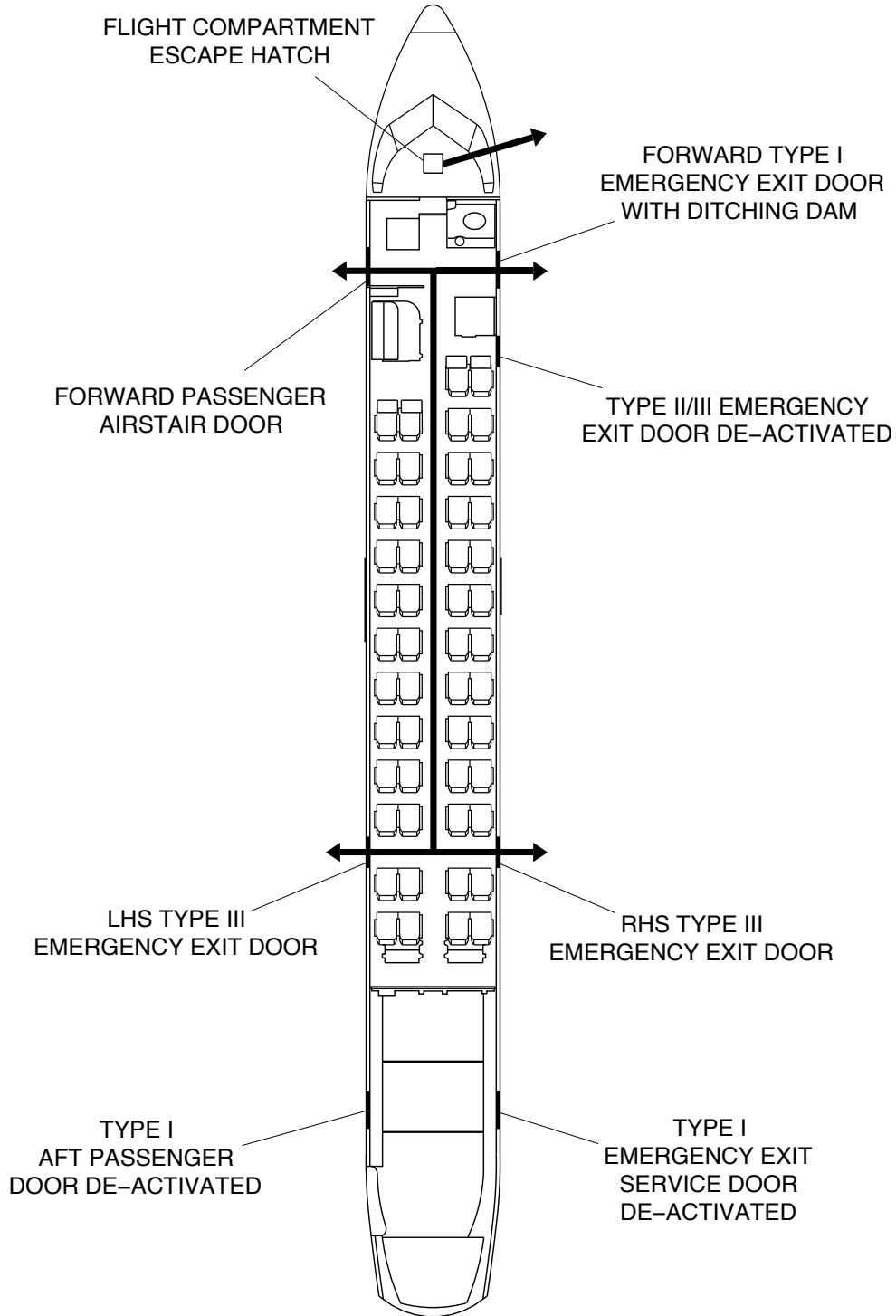
- NOTES**
- <sup>1</sup> Type II/III emergency exit door is de-activated for the extra capacity configuration.
  - 2. Passenger capacity may vary for different configurations.

EVACUATION ROUTES (Sheet 2 of 3)

Figure 00 – 9



**CRASH-FIRE-RESCUE MANUAL**



**CARGO COMBI CONFIGURATION**

**EVACUATION ROUTES (Sheet 3 of 3)**

Figure 00 – 9

b1b92a03.dwg, ak, jul28/2016



**CRASH-FIRE-RESCUE MANUAL**

**Passenger and Crew Escape Systems**

A. General

1. There are six emergency exits on the aircraft.

- a. A flight compartment emergency escape hatch for the flight crew. This is installed in the flight compartment roof. The hatch is operated by an internal handle.
- b. The forward passenger door is an airstair type door. This is installed on the forward left side of the fuselage. The forward passenger door is operated by internal or external handles.
- c. The forward Type I emergency exit door which is a translating type door is installed on the forward right side of the fuselage. It consists of an upper and a lower door. The lower door can be kept closed by a internal locking handle in the event of a ditching procedure. This emergency exit can be operated by internal or external handles.

NOTE: The forward Type I emergency door is installed in lieu of forward baggage door for the extra capacity and cargo combi configurations.

- d. A type II/III emergency exit door is installed on the forward right side of the fuselage. It consists of an upper and a lower door. The lower door can be kept closed in the event of a ditching procedure. This emergency exit can be operated by internal or external handles.

NOTE: The type II/III emergency exit door is de-activated for the extra capacity and cargo combi configurations.

- e. There are two type III emergency exit doors one on each side of the fuselage at station X479.70 (in the mid section of the fuselage). The doors are plug type which have to be removed completely. This emergency exit can be operated by internal or external handle.

NOTE: The type III emergency exit door is only installed on aircraft with the cargo combi configuration.

- f. The aft passenger door which is a translating type door is installed on the aft left side of the fuselage. This can be operated by internal or external handles.

NOTE: The aft passenger door is de-activated for the cargo combi configuration.

- g. The aft service door which is also a translating type door is installed on the aft right side of the fuselage. This can be operated by internal or external handles.

NOTE: The aft service door is de-activated for the cargo combi configuration.

B. Forward Passenger Door Operation

1. Stay on the left side of the door.
2. Push in the flap at the top of the door operating handle. Pull the door operating handle down quickly and fully.

### **CRASH-FIRE-RESCUE MANUAL**

**NOTE:** This will unlock the door and move it up a small distance and out.

3. Hold the door and lower it to the open position.

**NOTE:** You can use the door lowering assist to help you to do this.

4. Push down on the struts of the handrail to lock the door in the open position.

#### **C. Aft Passenger Door Operation**

**NOTE:** The aft passenger door is de-activated for the cargo combi configuration.

**NOTE:** The door will come out 16 inch (40 cm) before it swings to the left. Make sure the ladder or platform is placed more than this distance.

1. Push in the flaps at the top of the handle with your fingers.
2. Pull the door operating handle out.

**NOTE:** This will unlock the handle and open the vent door

3. Turn the door operating handle 90° counterclockwise.

**NOTE:** This will unlock the door and move it up and out a small distance.

4. Use the handle to pull and move the door fully to the left to engage the gust lock.

**NOTE:** This will lock the door in the open position.

**NOTE:** Optional folding stairs may be installed. The stairs slide forward from their enclosure (located in the aft baggage bulkhead, just inboard of the aft passenger door threshold) and are unfolded and extended by hand. The folding stairs are intended for use in normal ramp operations only.

#### **D. Forward Type I Emergency Exit Door Operation**

**NOTE:** The forward Type I emergency exit door is installed in lieu of forward baggage door on aircraft with the extra capacity and cargo combi configurations.

**NOTE:** The Forward Type I Emergency Exit Door consists of an upper and a lower door. The lower door is kept closed by a internal locking handle in the event of a ditching procedure.

**NOTE:** The door will come out 16 inch (40 cm) before it swings to the right. Make sure the ladder or platform is placed more than this distance.

1. Push in the flaps at the top of the handle with your fingers.
2. Pull the door operating handle out.

**NOTE:** This will unlock the handle and open the vent door.

3. Turn the door operating handle 90° clockwise.

**NOTE:** This will unlock the door and move it up and out a small distance.

4. Use the handle to pull and move the door fully to the right to engage the gust lock.



**CRASH-FIRE-RESCUE MANUAL**

NOTE: This will lock the door in the open position.

E. Type II/III Emergency Exit Door Operation

NOTE: The Type II/III emergency exit door is de-activated on aircraft with the extra capacity and cargo combi configurations.

NOTE: The weight of the door is 29 lb (13.15 kg)

1. Operate the pushbutton on the handle to release it.
2. Turn the handle counterclockwise to the open marking.

NOTE: This will unlock the door and move it in.

3. Push the door in.

NOTE: With the ditching dam handle in the LAND position, the lower door will fall open. With the ditching dam handle in the SEA position, the lower door will stay closed.

F. Type III Emergency Exit Door Operation

NOTE: The Type III emergency exit door is installed only on aircraft with the cargo combi configuration.

1. Operate the push release button on the handle to release it.
2. Turn the handle counterclockwise to the open marking.

NOTE: This will unlock the door and move it in.

3. Push the door inboard at the top to disengage it from the door frame structure.
4. Lift the door up and inboard to disengage the stops from the bottom door frame structure.

G. Service Door Operation

NOTE: The aft service door is de-activated for the cargo combi configuration.

NOTE: The door will come out 16 inch (40 cm) before it swings to the right. Make sure the ladder or platform is placed more than this distance.

1. Push in the flaps at the top of the handle with your fingers.
2. Pull the door operating handle out.

NOTE: This will unlock the handle and open the vent door.

3. Turn the door operating handle 90° clockwise.

NOTE: This will unlock the door and move it up and out a small distance.

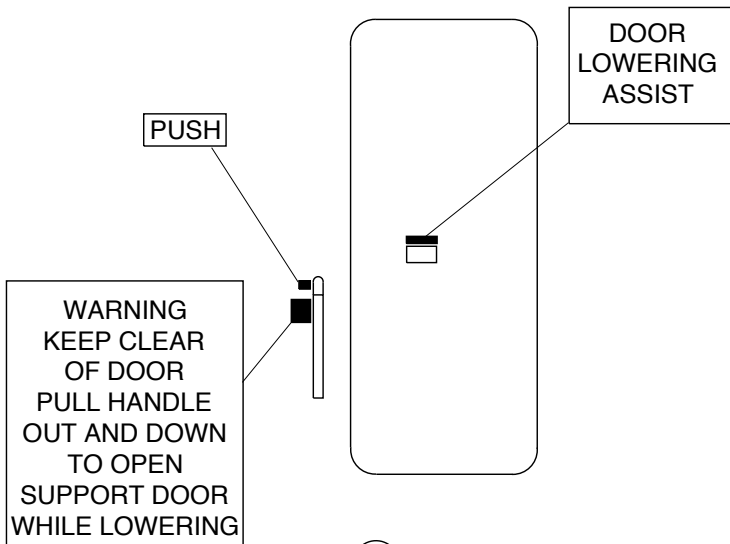
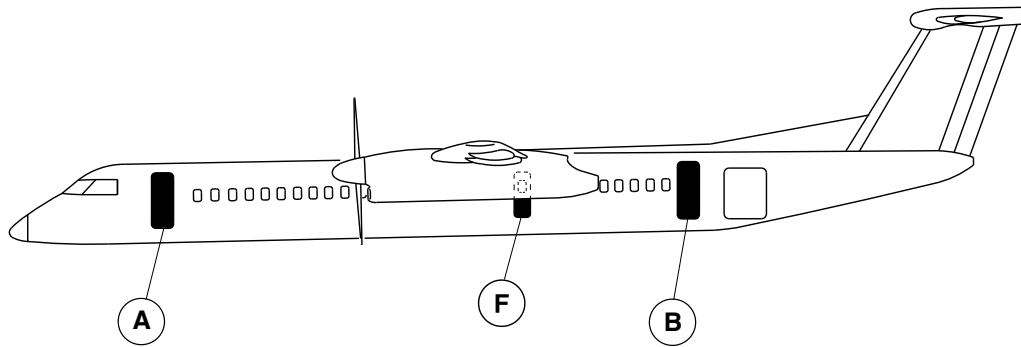
4. Use the handle to pull and move the door fully to the right to engage the gust lock.

NOTE: This will lock the door in the open position.





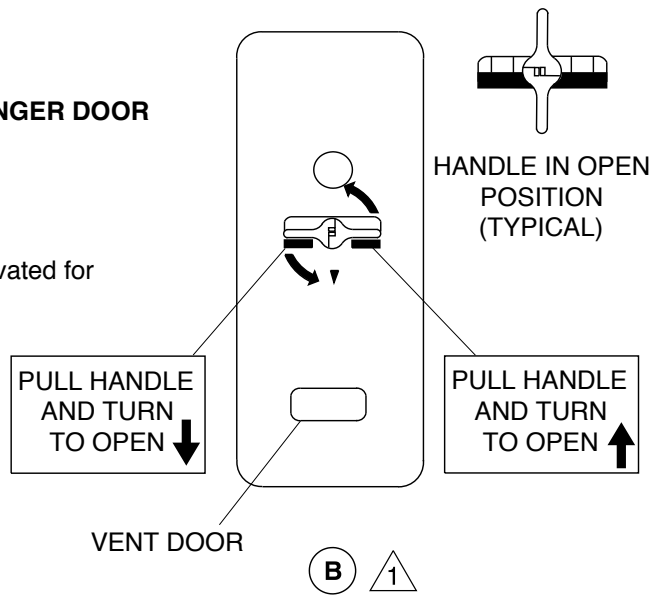
CRASH-FIRE-RESCUE MANUAL



EXTERIOR OF FORWARD PASSENGER DOOR

NOTE

1 Aft passenger door is permanently de-activated for aircraft with the cargo combi configuration.



EXTERIOR OF AFT PASSENGER DOOR

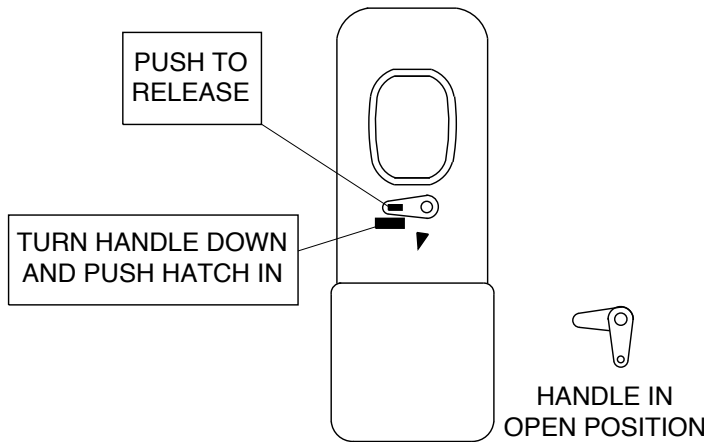
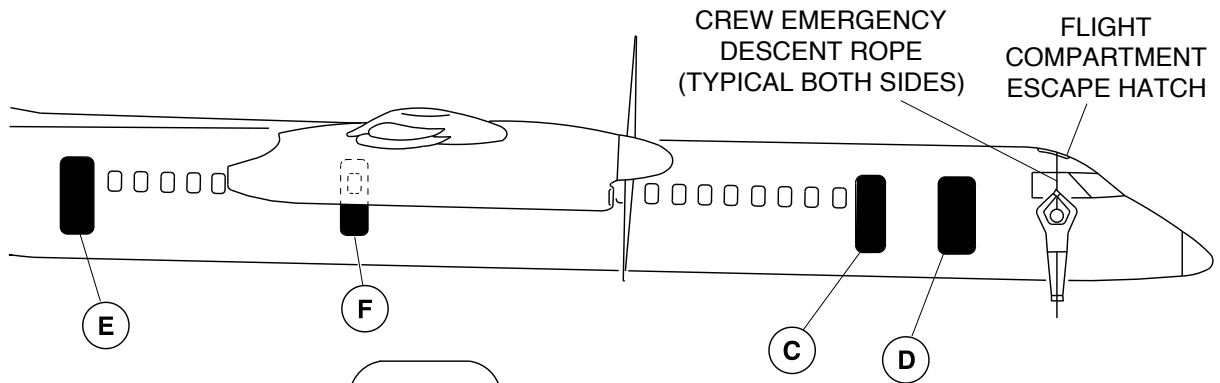
b1b90a01.dg, gv/gw, nov9/2016

PASSENGER AND CREW ESCAPE SYSTEMS (Sheet 1 of 3)

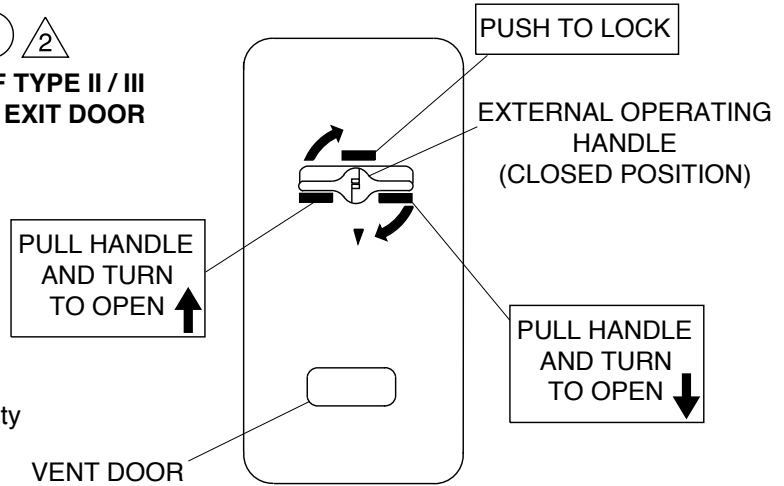
Figure 00 – 10



CRASH-FIRE-RESCUE MANUAL



C 2 EXTERIOR OF TYPE II / III EMERGENCY EXIT DOOR



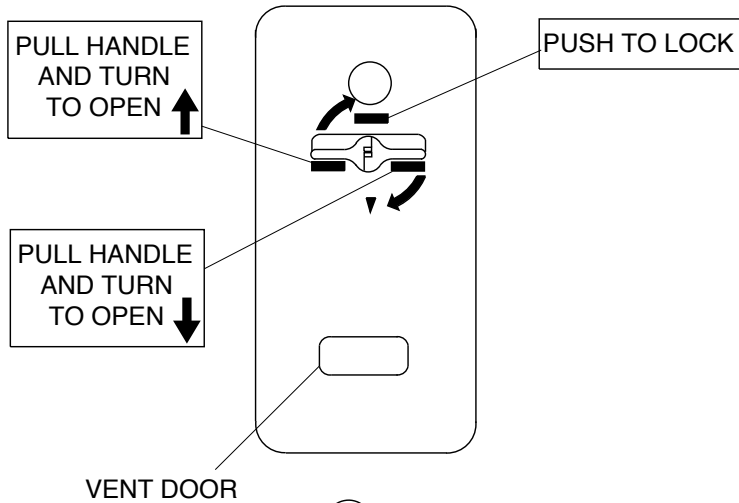
D 3 EXTERIOR OF FORWARD BAGGAGE DOOR/ FORWARD TYPE I EMERGENCY EXIT DOOR

- NOTES**
- 2 Type II/III emergency exit door is de-activated for the extra capacity and cargo combi configuration.
  - 3 Forward type I emergency exit door is installed only on aircraft with extra capacity and cargo combi configuration.
  - 4. The forward baggage door has a separate interior lockable door which can prevent exterior access.

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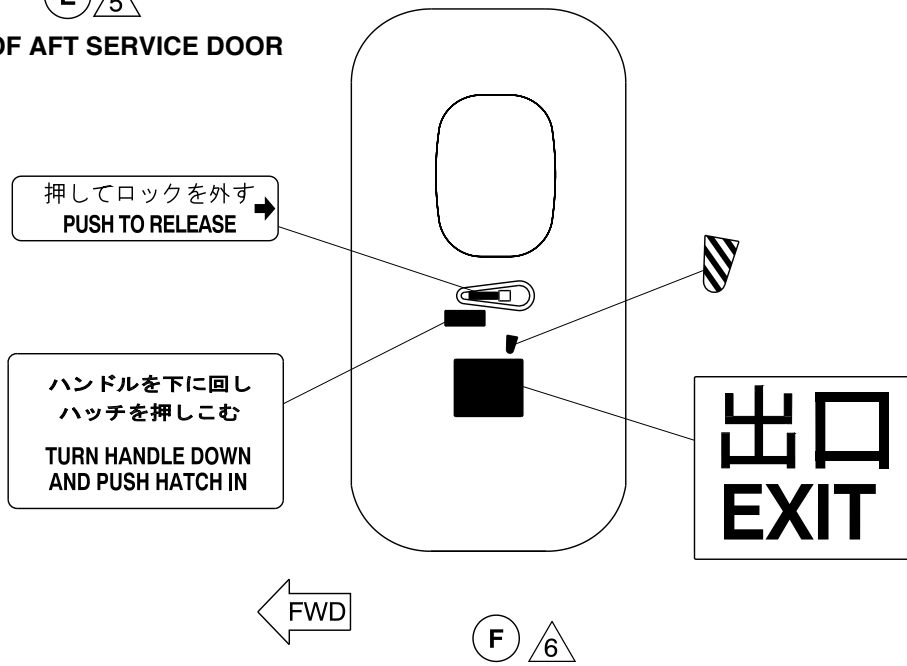


**CRASH-FIRE-RESCUE MANUAL**



ⓔ 5

**EXTERIOR OF AFT SERVICE DOOR**



ⓕ 6

**VIEW LOOKING INBOARD  
ON TYPE III EMERGENCY EXIT DOOR  
LEFT SIDE SHOWN, RIGHT SIDE SIMILAR**

**NOTES**

- 5 Aft service door is permanently de-activated on aircraft with the cargo combi configuration.
- 6 Type III emergency exit doors are installed at station X479.70 on both sides of the aircraft with the cargo combi configuration.

b1b90a03.dg, nn/gw, nov17/2016



**CRASH-FIRE-RESCUE MANUAL**

**Forward Passenger Door-Ditching Dam Operation**

A. Deploy the ditching dam as follows:

1. Pull the ditching dam down by its handle until it is at chest level.
2. Put your hand on the top surface of the ditching dam and push it down to the floor.

NOTE: With the ditching dam correctly deployed, it will be inclined slightly outboard.

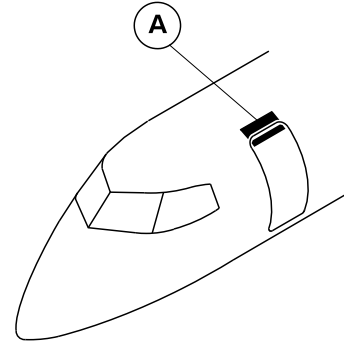
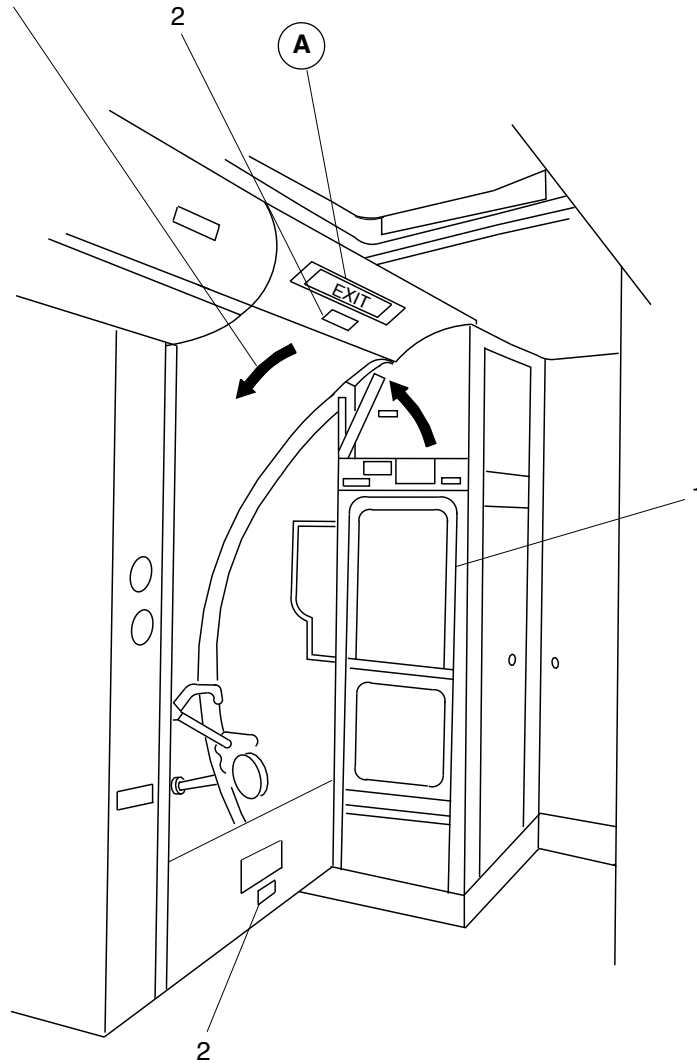
3. Open the forward passenger door for evacuation.



**CRASH-FIRE-RESCUE MANUAL**

**NOTE**

Pull down to deploy  
ditching dam.



**LEGEND**

- 1. Flight attendant seat.
- 2. Handle.

brf10a01.dg, sw, 23/07/99

**FORWARD PASSENGER DOOR – DITCHING DAM OPERATION**

Figure 00 – 11



**CRASH-FIRE-RESCUE MANUAL**

**Forward Baggage Door Operation/Forward Type I Emergency Exit Door**

A. Forward Baggage Door Operation

**NOTE:** The forward baggage compartment is removed and a forward Type I emergency exit door is installed in lieu for the extra capacity and the cargo combi configurations.

**NOTE:** Do not attempt to enter the passenger cabin from the forward baggage compartment (i.e. through the interior compartment door). Access may be restricted by optional galley stowage equipment and/or baggage and there is no handle on the baggage-compartment side of the door.

**NOTE:** The door will come out 16 inch (40 cm) before it swings to the right. Make sure the ladder or platform is placed more than this distance.

1. Push in the flaps at the top of the handle with your fingers.
2. Pull the door operating handle out.

**NOTE:** This will unlock the handle and open the vent door.

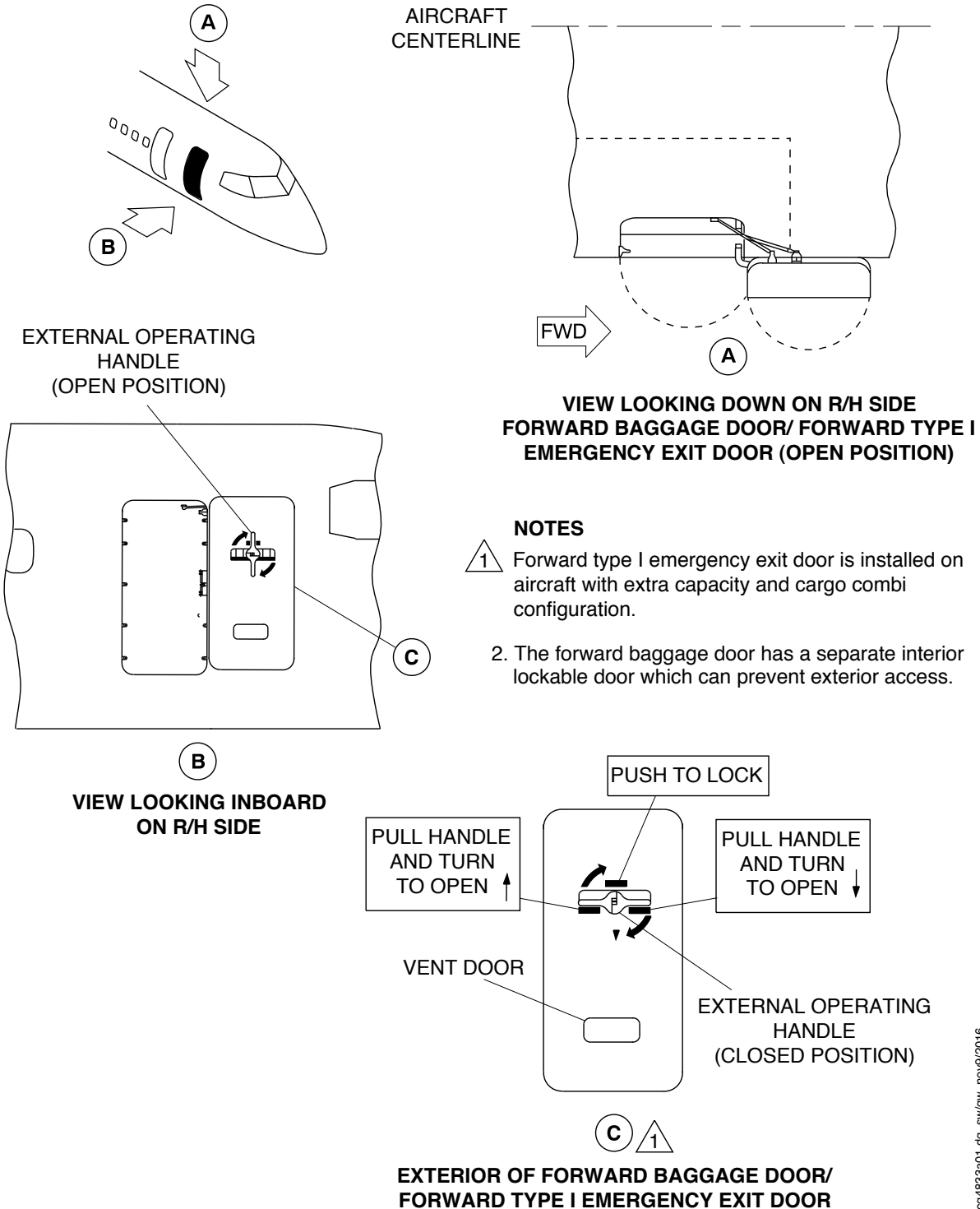
3. Turn the door operating handle 90° clockwise.

**NOTE:** This will unlock the door and move it up and out a small distance.

4. Use the handle to pull and move the door fully to the right to engage the gust lock.

**NOTE:** This will lock the door in the open position.

**CRASH-FIRE-RESCUE MANUAL**



cg\_4833a01.dg, sw/gw, nov9/2016

FORWARD BAGGAGE DOOR/ FORWARD TYPE I EMERGENCY EXIT DOOR OPERATION

Figure 00 – 12



**CRASH-FIRE-RESCUE MANUAL**

**Forward RH Type I Emergency Exit Door-Ditching Dam Operation**

A. Deploy the ditching dam as follows:

1. Turn the ditching dam handle clockwise from the horizontal position.

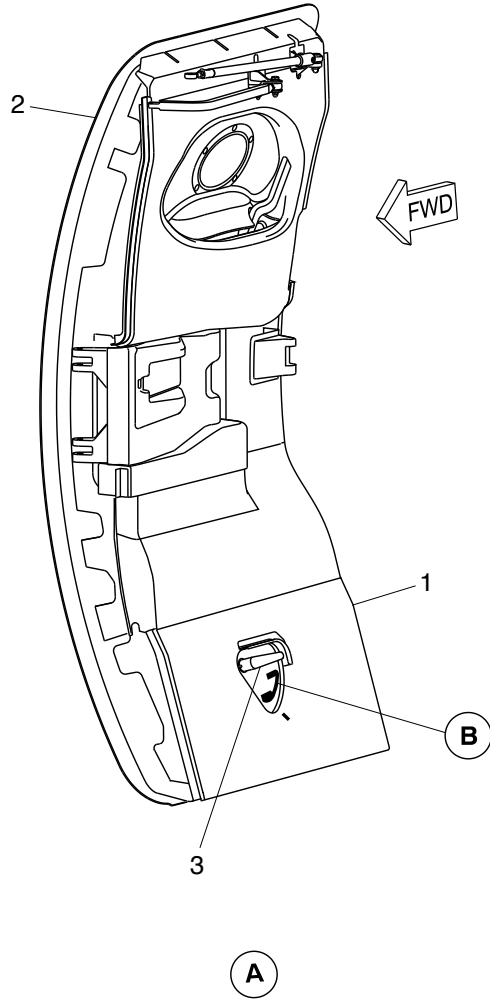
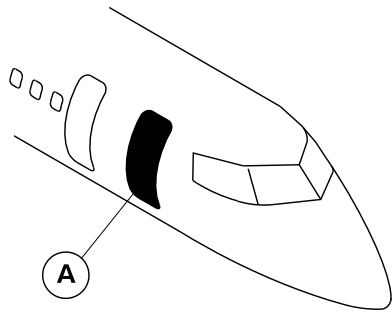
NOTE: This will extend the lock pins to engage the ditching dam to the surround structure and disengage from the emergency exit door.

2. Open the forward Type I emergency exit door for the evacuation.



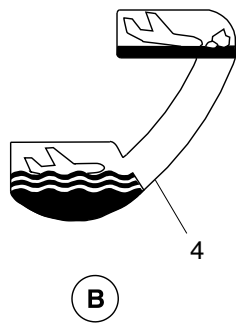


**CRASH-FIRE-RESCUE MANUAL**



**LEGEND**

- 1. Ditching dam.
- 2. Type I emergency exit door.
- 3. Ditching dam handle.
- 4. Label, ditching dam operation.



**VIEW LOOKING OUTBOARD**

**FORWARD TYPE I EMERGENCY EXIT DOOR – DITCHING DAM OPERATION**

Figure 00 – 13



**CRASH-FIRE-RESCUE MANUAL**

**Aft Baggage Door Operation**

A. Aft Baggage Door Operation

1. Push the pushbutton on the door operating handle to release the handle from the recess.
2. Turn the handle 90° counterclockwise.

NOTE: This will unlock the door and move it in.

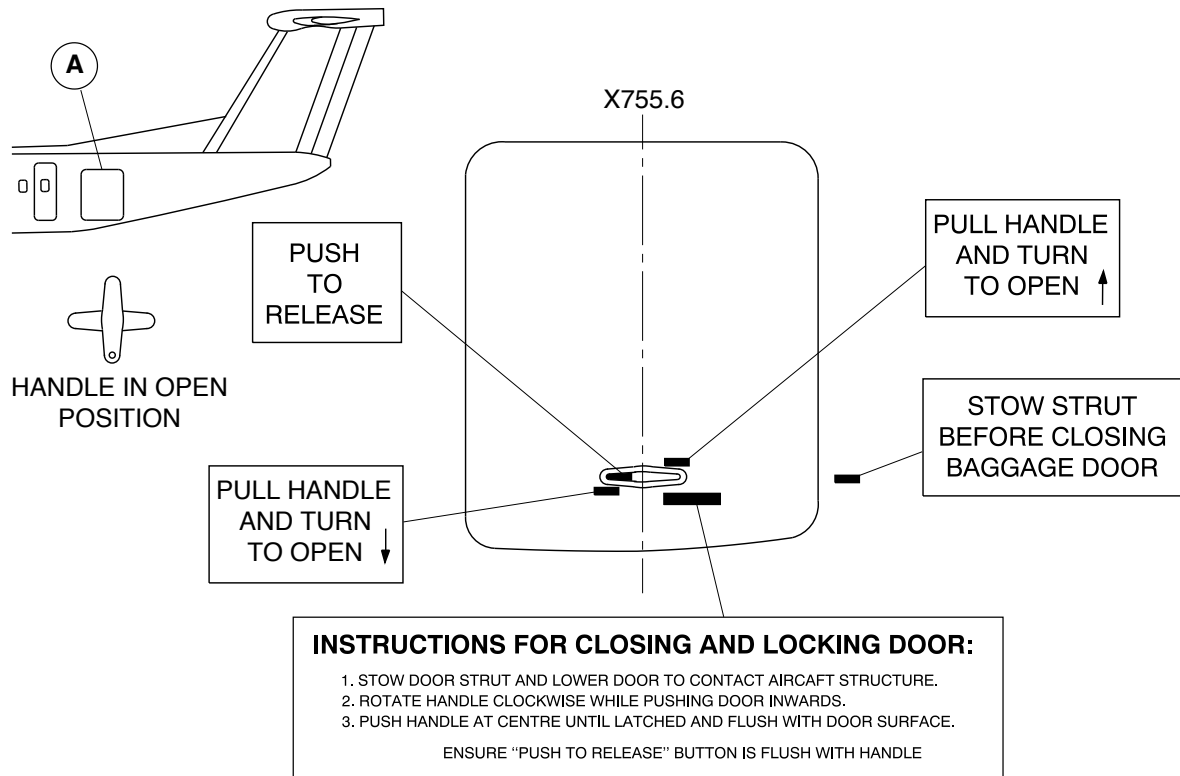
3. Lift the door up a sufficient distance that you can get access to the telescopic strut. Remove the telescopic strut from the stowed position.

NOTE: Make sure you do this before you open the door fully or it will be too high to close easily.

4. Continue to lift the door until it is fully open.
5. Attach the telescopic strut to the receptacle on the lower left side of the door opening. This will give more support to the door.

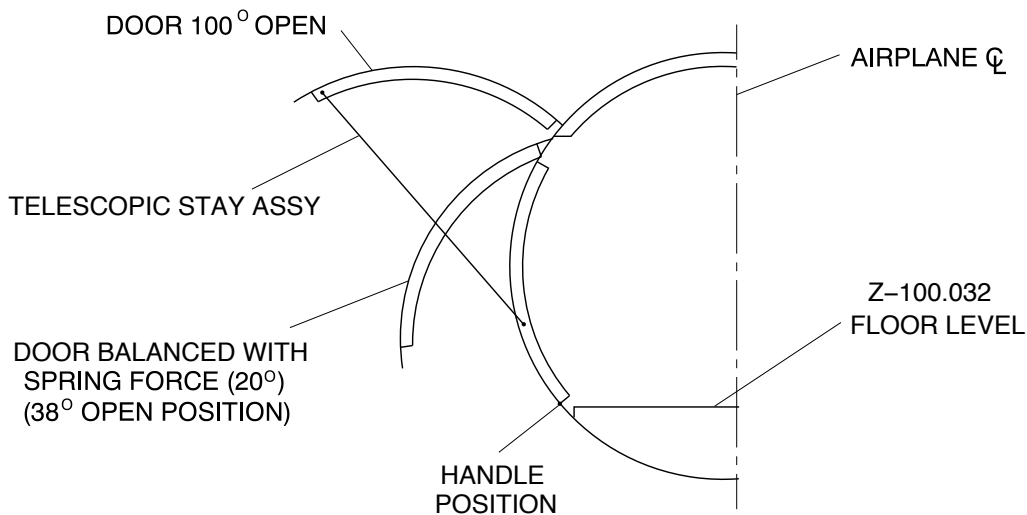


**CRASH-FIRE-RESCUE MANUAL**



(A)

**EXTERIOR OF AFT BAGGAGE COMPARTMENT DOOR  
(CLOSED POSITION)**



**SIDE VIEW OF DOOR IN OPEN POSITION**

**AFT BAGGAGE COMPARTMENT DOOR – LOCATION AND OPERATION**

Figure 00 – 14

br642a01.dg, sw/kmw, jul23/2015



**CRASH-FIRE-RESCUE MANUAL**

**Flight Compartment Escape Hatch**

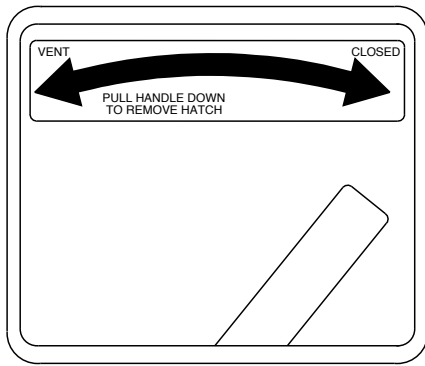
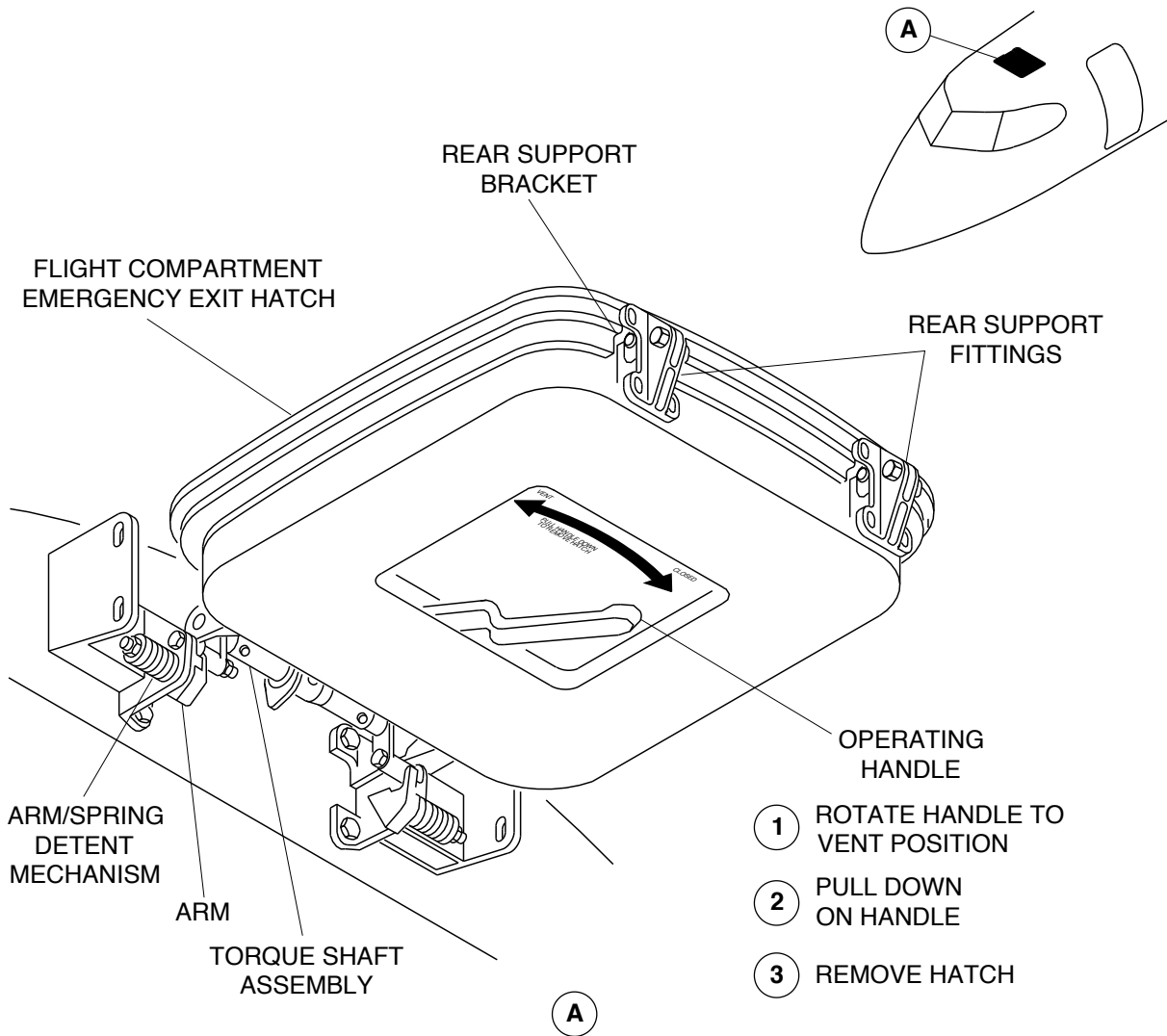
**NOTE:** In an emergency, you can try to get access by cutting through the outer skin to move the operating handle from the outside. Then push the hatch down.

**WARNING:** HOLD THE ESCAPE HATCH DURING THE PROCEDURE. IF YOU DO NOT DO THIS, THE ESCAPE HATCH CAN FALL AND CAUSE INJURIES TO PERSONS AND DAMAGE TO THE EQUIPMENT.

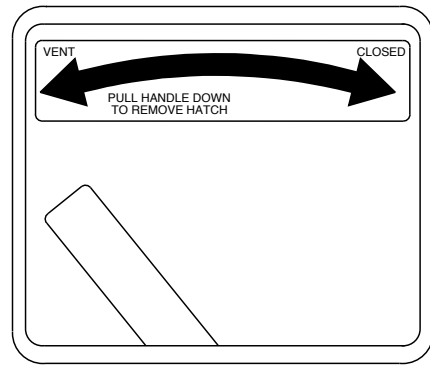
- A. Open the flight compartment escape hatch as follows:
1. Turn the handle 72 degrees counterclockwise. The escape hatch opens approximately 1 in. at the front.
  2. Pull the door down with 40 lb of force to release the rollers from the lock mechanism.



**CRASH-FIRE-RESCUE MANUAL**



OPERATING HANDLE



OPERATING HANDLE

br201a01.dg, pt, 21/06/97

**FLIGHT COMPARTMENT ESCAPE HATCH**

Figure 00 – 15



**CRASH-FIRE-RESCUE MANUAL**

**Fortified Flight Compartment Door Operation**

- A. Opening Flight Compartment Door from Flight Compartment Side
  - 1. Pull slide latch to the right and push flight compartment door open.
  - 2. If engaged, rotate deadbolt handle 90 degrees clockwise to the unlatched position (two red dots on dead bolt plate behind knob will become visible).

- B. Opening Flight Compartment Door from Cabin Side

- 1. Emergency Access

- In an emergency, use a pry bar. Work the pry bar into the door jam at the slide latch and deadbolt location until the door frame distorts sufficiently to allow the flight compartment door to open.

- 2. Optional Entry

- NOTE:** U.S. registered aircraft do not have Remote Access System.

- Press the Remote Access System Flight Attendant Access Switchlight on the wardrobe maintenance panel. A white light will illuminate on the switch. The flight compartment door will automatically open after a timed delay of 40 seconds if there is no response by the flight crew. An amber light will illuminate on the Flight Attendant Access Switchlight indicating that the flight compartment door is unlatched.

- OR

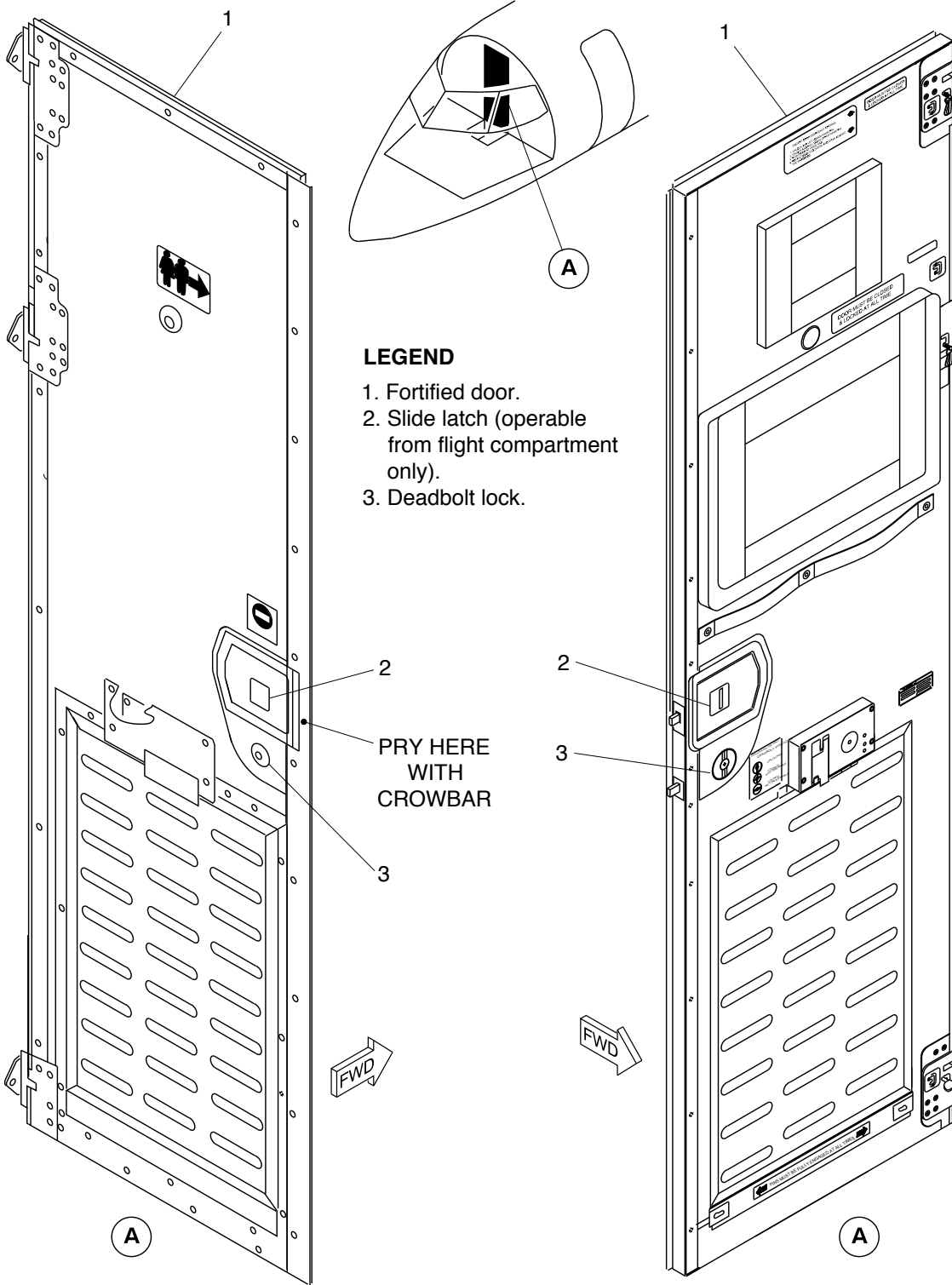
- The Remote Access System can be disabled by removing electrical power from the aircraft (i.e. disconnect batteries and ground power). Door latch solenoid will de-energize and door will open.

- NOTE:** The Fortified Flight Compartment Door will not open if the deadbolt lock is engaged.

- NOTE:** The key access feature for the deadbolt lock will be disabled if both arms of the rotary knob on the flight compartment side are set to the latched position .



**CRASH-FIRE-RESCUE MANUAL**



**FORTIFIED FLIGHT COMPARTMENT DOOR DETAIL**

Figure 00 – 16

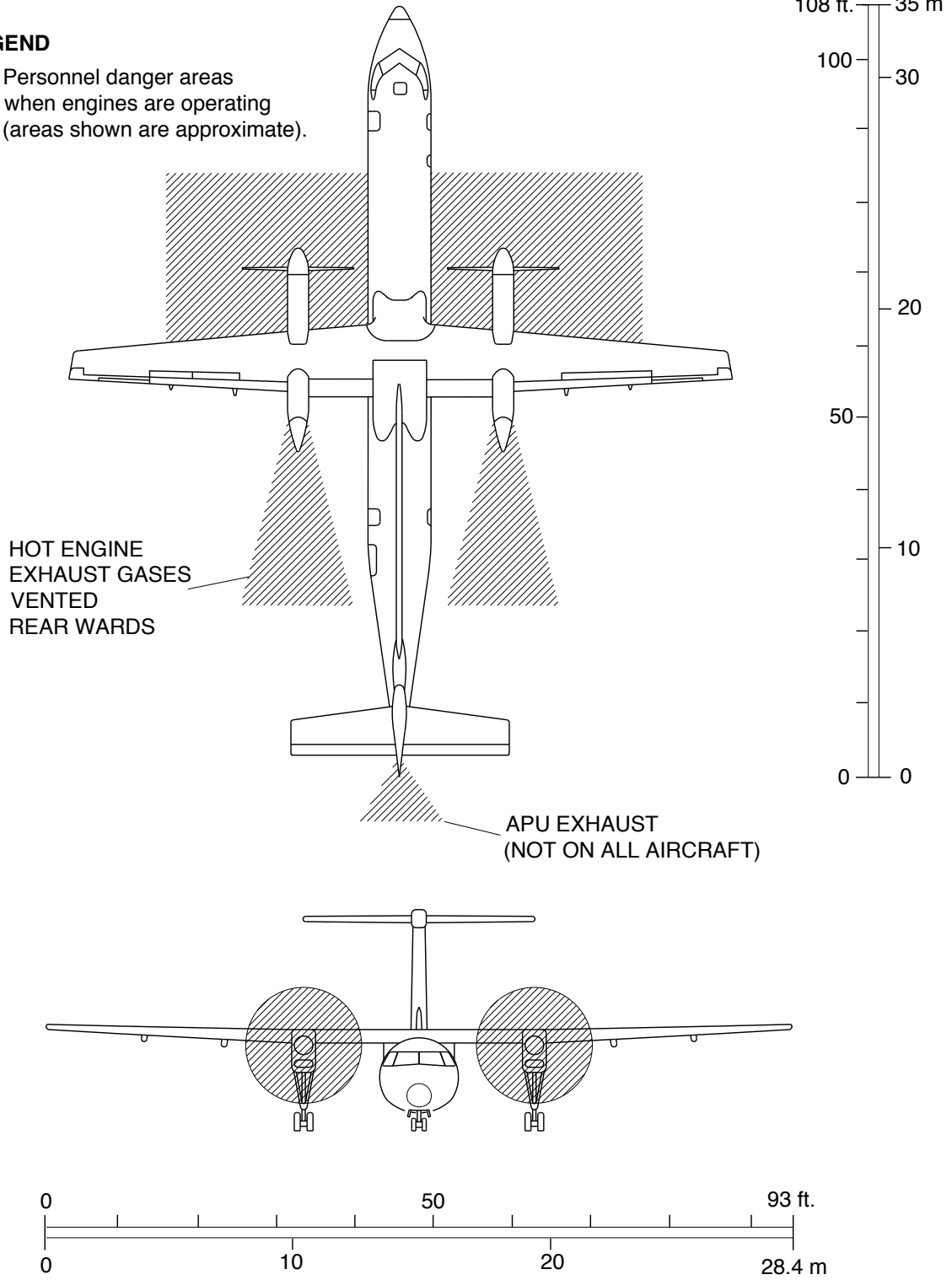
bray38a01.dg.gw, 01/03/05



CRASH-FIRE-RESCUE MANUAL

LEGEND

Personnel danger areas when engines are operating (areas shown are approximate).



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PROPELLER / ENGINE EXHAUST DANGER AREAS (Sheet 1 of 2)

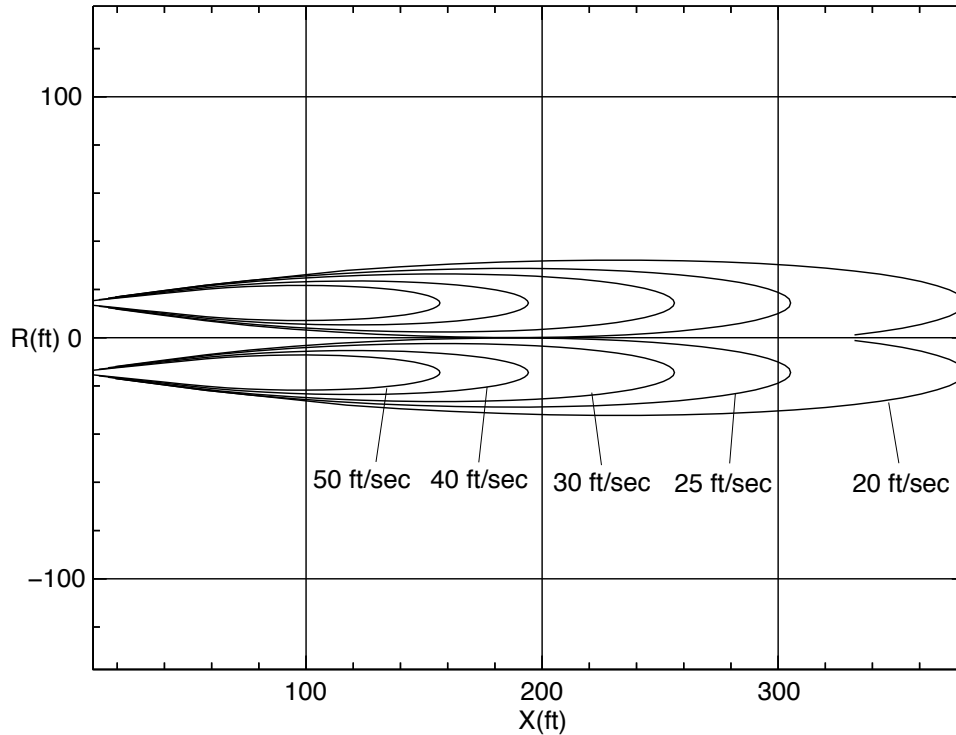
Figure 00 - 17



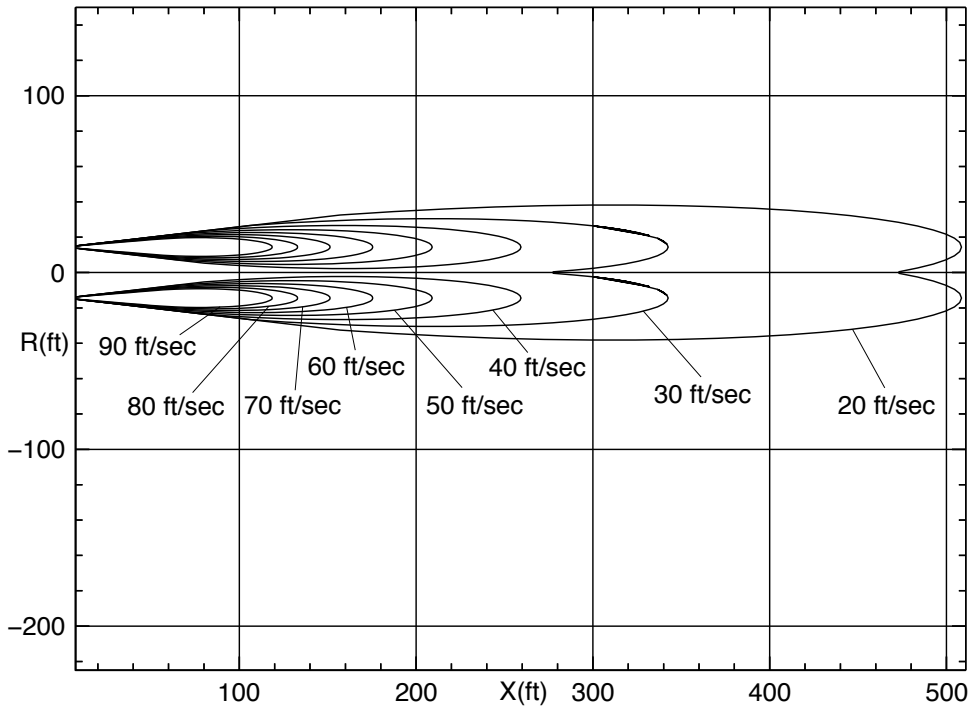


**CRASH-FIRE-RESCUE MANUAL**

**SLIPSTREAM VELOCITY CONTOURS (~18% TORQUE) (STATIONARY ON GROUND)**



**SLIPSTREAM VELOCITY CONTOURS (~43% TORQUE) (STATIONARY ON GROUND)**



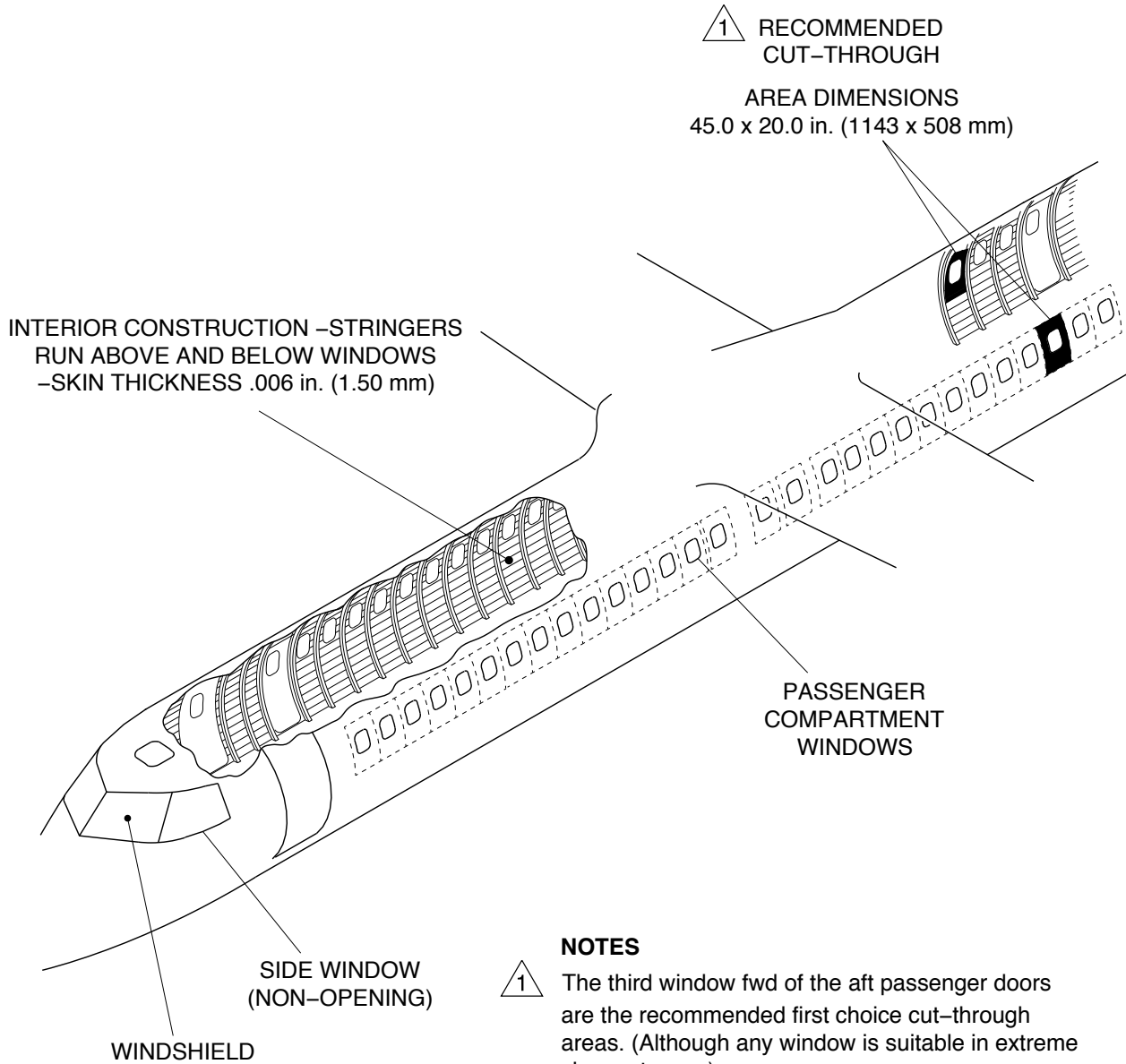
b7g35a02.dg, sb, may17/2011

**PROPELLER / ENGINE EXHAUST DANGER AREAS (Sheet 2 of 2)**

Figure 00 - 17



**CRASH-FIRE-RESCUE MANUAL**



**NOTES**

1 The third window fwd of the aft passenger doors are the recommended first choice cut-through areas. (Although any window is suitable in extreme circumstances).

"Cut-through" areas require portable metal cutting equipment. It is recommended that major effort to gain access be directed to doors and hatches due to the type of structure and possible injury to personnel within.

2. Cut-through areas shown in red on Rescue Chart may appear as other colours on the aircraft.

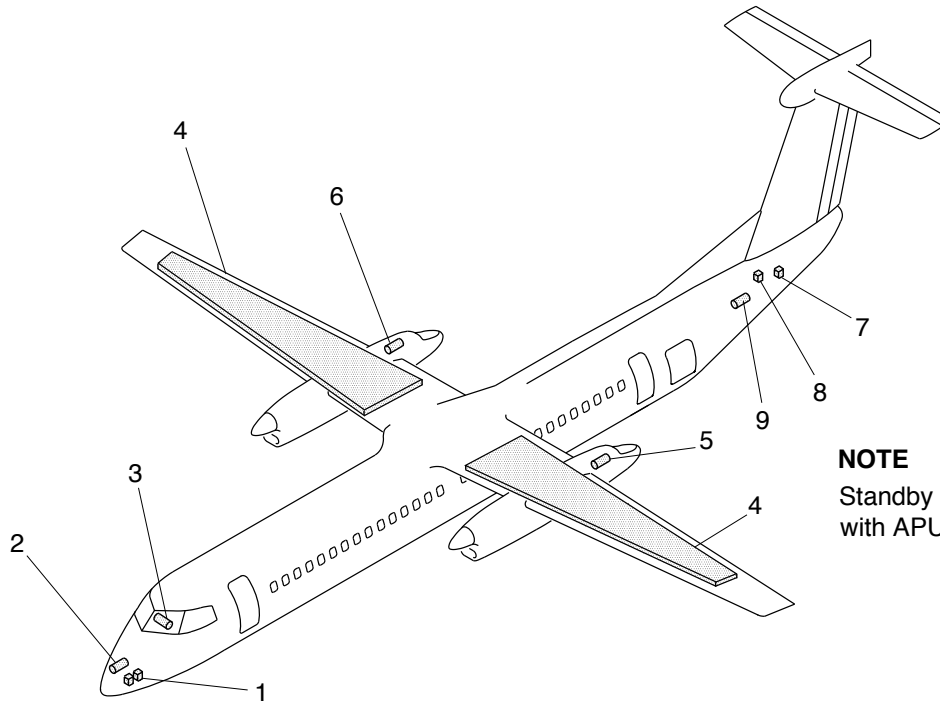
brd22a01, gv/pt, 13/03/01

**CUT-THROUGH AREAS**

Figure 00 - 18



**CRASH-FIRE-RESCUE MANUAL**



**NOTE**  
Standby battery in nose  
with APU installed.

ITEM No.	ITEM NAME	ITEM LOCATION	ACCESS PANEL/DOOR
1	Main Battery and Auxiliary Battery	Nose lower compartment-left side	113AL
2	Crew Oxygen Cylinder	Nose lower compartment-right side	112AR
3	Crew PBE	Flight compartment, behind co-pilot's seat	
4	Fuel Tank	Integral	
5	No. 1 Hydraulic Reservoir	Left nacelle	413CR
6	No. 2 Hydraulic Reservoir	Right nacelle	423CR
7	Cockpit Voice Recorder and Flight Data Recorder	Aft fuselage	311AB
8	Standby Battery	Aft fuselage	311AB
9	No. 3 Hydraulic Reservoir	Aft fuselage	311AB

△1  
△2  
△3  
△3  
△3

**NOTES** △1 39.8 Cu Ft A.T.

△2

TOTAL FUEL CAPACITY				
Based on specific gravity of 0.816 (single tank - divide by 2)				
US Gal.	Imp. Gal.	L	LB	Kg
1785	1486	6756	12138	5506

△3

HYDRAULIC FLUID CAPACITY			
Reservoir	US Qt.	Imp. Qt.	L
No. 1 System	8.3	6.9	7.9
No. 2 System	12.5	10.4	11.8
No. 3 System	2.6	2.2	2.5
Aux. System (Nose)	1.06	1.27	1.20

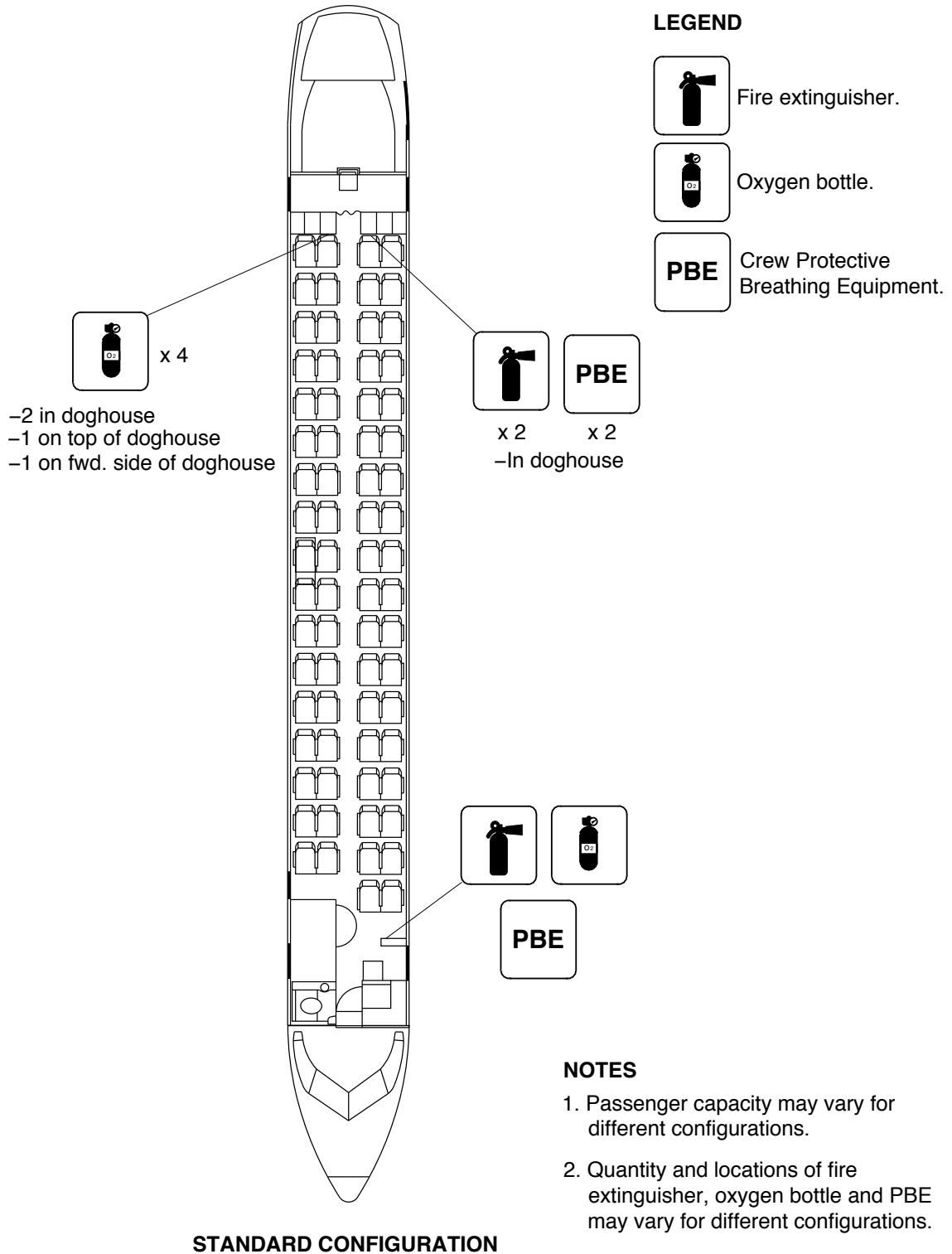
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**FLAMMABLE MATERIAL LOCATIONS (EXCLUDING PASSENGER CABIN)**

Figure 00 - 19



**CRASH-FIRE-RESCUE MANUAL**



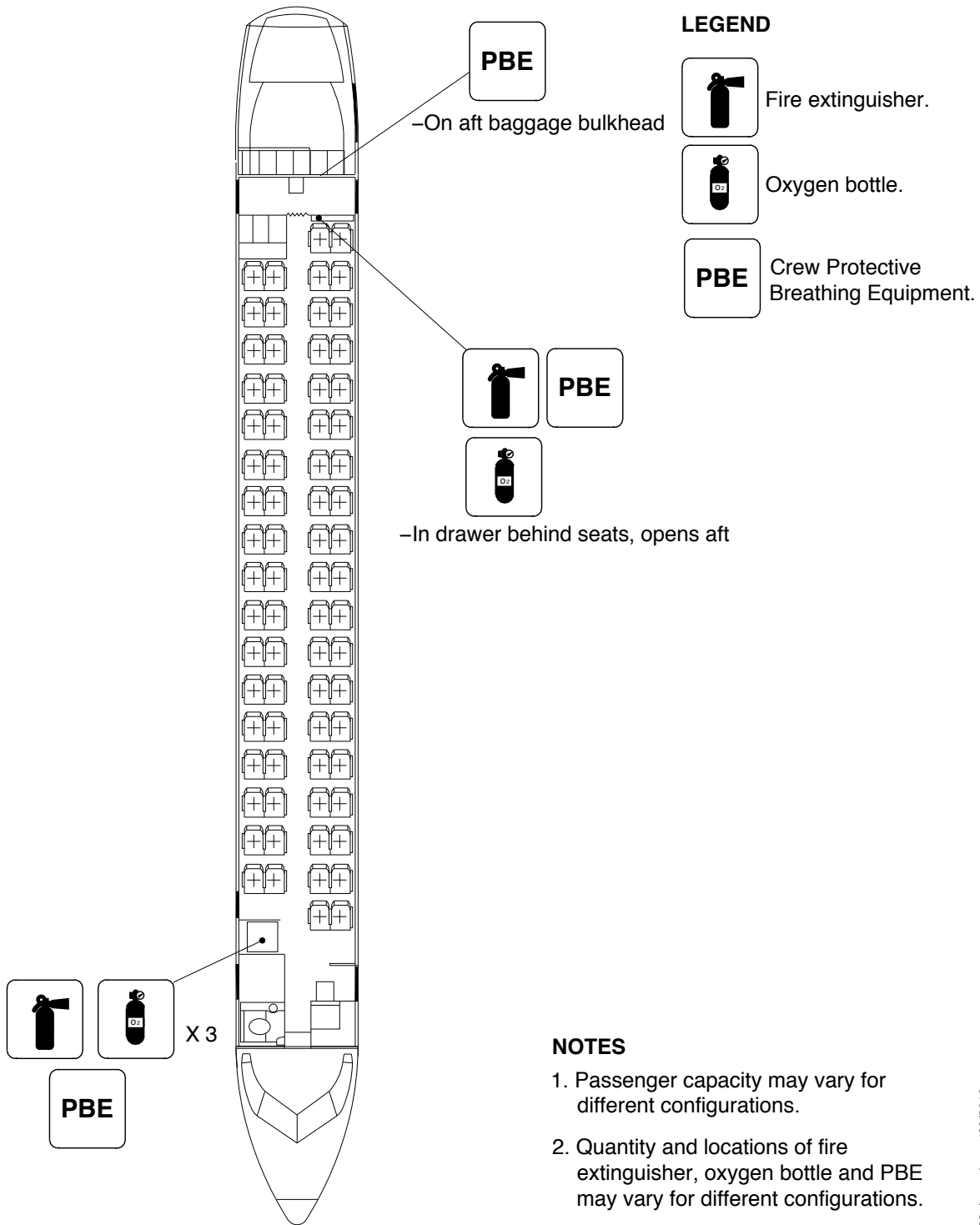
bru16a01.dg, sw/rs, oct29/2018

**FLAMMABLE/HAZARDOUS MATERIAL LOCATIONS IN PASSENGER CABIN (Sheet 1 of 5)**

Figure 00 – 20



**CRASH-FIRE-RESCUE MANUAL**



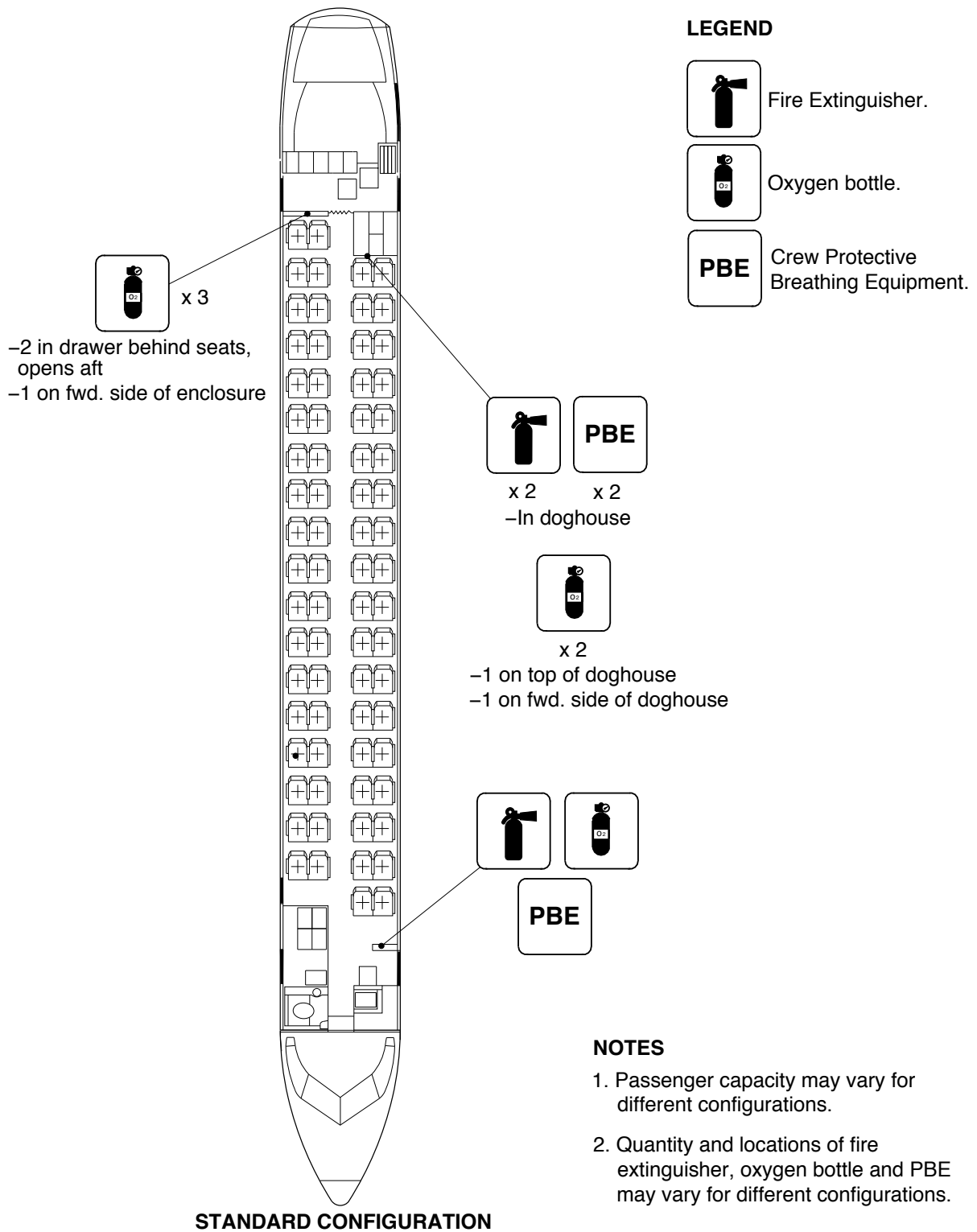
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**FLAMMABLE/HAZARDOUS MATERIAL LOCATIONS IN PASSENGER CABIN (Sheet 2 of 5)**

Figure 00 – 20



**CRASH-FIRE-RESCUE MANUAL**



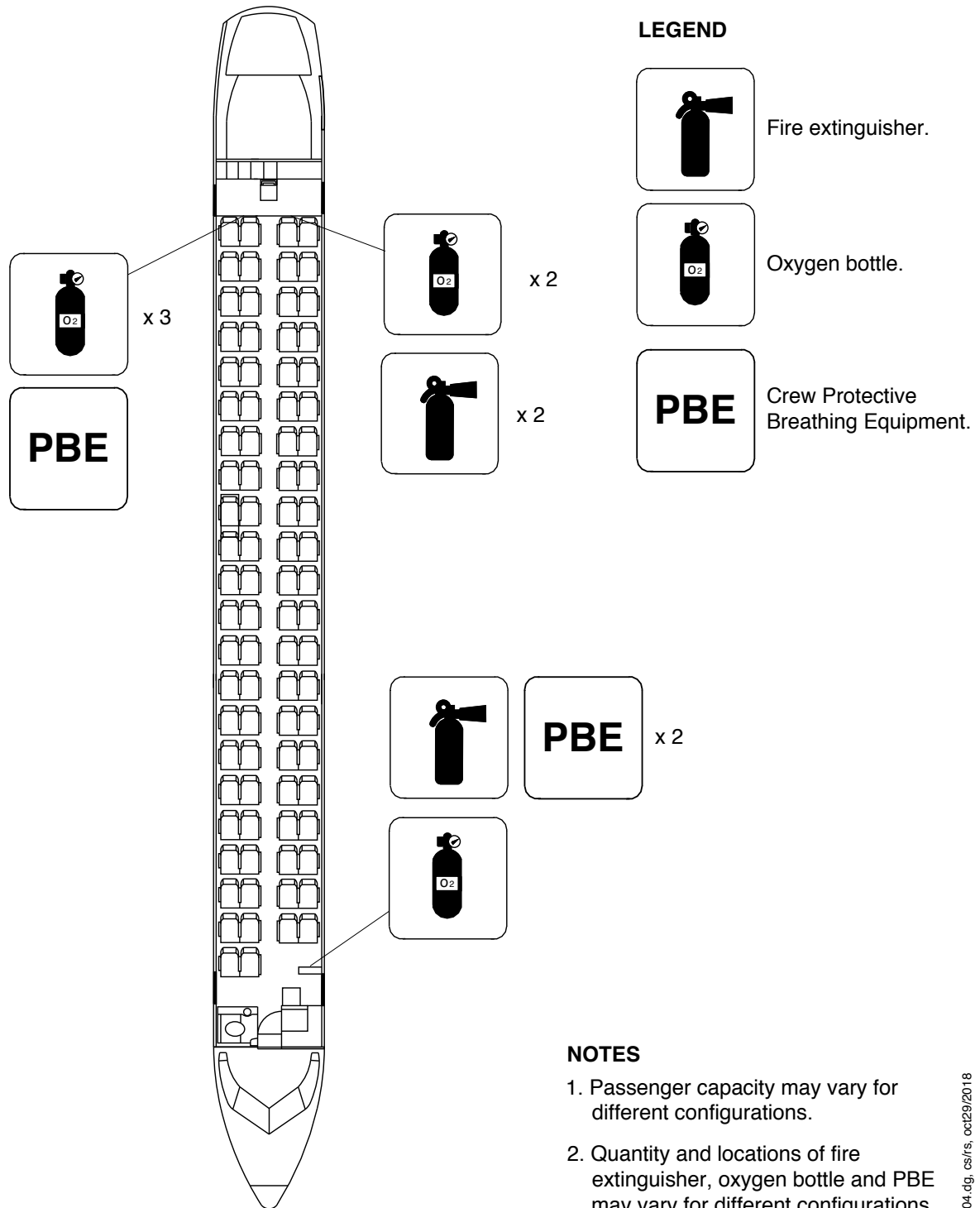
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FLAMMABLE/HAZARDOUS MATERIAL LOCATIONS IN PASSENGER CABIN (Sheet 3 of 5)

Figure 00 – 20



CRASH-FIRE-RESCUE MANUAL



EXTRA CAPACITY CONFIGURATION

NOTES

1. Passenger capacity may vary for different configurations.
2. Quantity and locations of fire extinguisher, oxygen bottle and PBE may vary for different configurations.

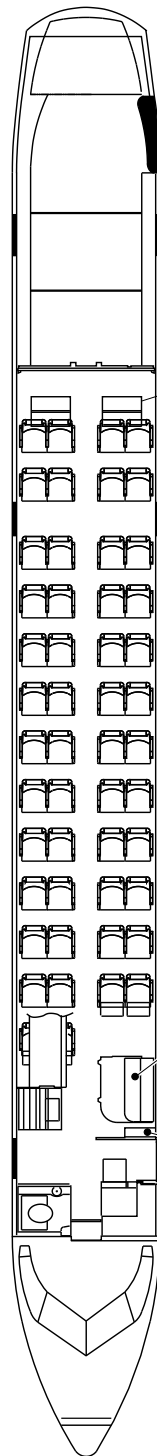
bru16a04.dg, cs/rs, oct29/2018

FLAMMABLE/HAZARDOUS MATERIAL LOCATIONS IN PASSENGER CABIN (Sheet 4 of 5)

Figure 00 – 20



**CRASH-FIRE-RESCUE MANUAL**



**LEGEND**



Fire extinguisher.



Oxygen bottle.



Crew Protective Breathing Equipment.



X 2



**CARGO COMBI CONFIGURATION**

**FLAMMABLE/HAZARDOUS MATERIAL LOCATIONS IN PASSENGER CABIN (Sheet 5 of 5)**

Figure 00 – 20

bru16a05.dg, ak/rs, oct29/2018





**CRASH-FIRE-RESCUE MANUAL**

**Fire Control Recommendations**

A. Fire Area	Extinguisher Type			Notes
	Preferred	Alternative	Avoid	
Aircraft Structural Fire	Foam	Halon 1211*		Dry chemical powder/Carbon dioxide may be used as complimentary agents in conjunction with foam
Engine Fire	Halon 1211*	Dry chemical powder (corrosive) Carbon dioxide (can damage engine)	Foam	Avoid foam unless adjacent structures are at risk
Fuel Fire	1. Dry chemical powder for leaking fuel 2. Water fog or foam on ground spill area			
Wheel Fire	Dry chemical powder or water fog (intermittent application)	Halon 1211*	Carbon Dioxide-wheel breakage is possible	1. Wheels are equipped with fusible plugs which will blow between 342°F to 360°F (172°C to 182°C) Approach landing gear from forward or aft. Stand upwind of fire to avoid 'Skydrol' fumes
Electrical Fire	Halon 1211*	Dry chemical powder/Carbon dioxide	Water	
Hydraulic Service Bay Fire	Halon 1211*	Dry chemical powder/Carbon dioxide	Water	
Galley Fire	Halon 1211*	Dry chemical powder	Water	
Flight Compartment/Cabin Fire	Halon 1211*	Dry chemical powder	Water	Water can be used in flight compartment/cabin if electrical/flammable liquids not involved (eg. upholstery)
Cargo Compartment Fire	Halon 1211*	Dry chemical powder/Carbon dioxide	Water	



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**CRASH-FIRE-RESCUE MANUAL**

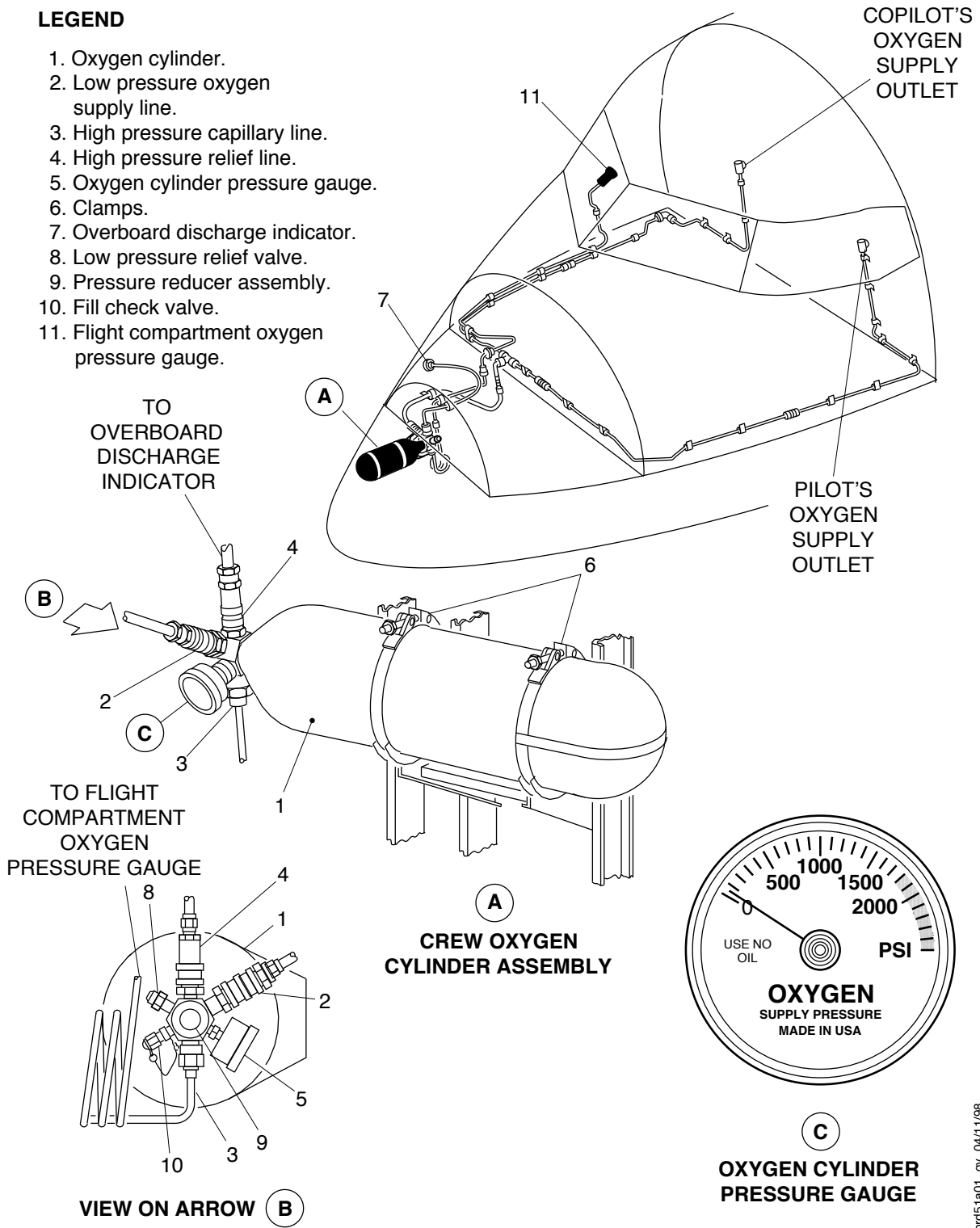
\* Use of Halon 1211 may be restricted by local authority.



**CRASH-FIRE-RESCUE MANUAL**

**LEGEND**

1. Oxygen cylinder.
2. Low pressure oxygen supply line.
3. High pressure capillary line.
4. High pressure relief line.
5. Oxygen cylinder pressure gauge.
6. Clamps.
7. Overboard discharge indicator.
8. Low pressure relief valve.
9. Pressure reducer assembly.
10. Fill check valve.
11. Flight compartment oxygen pressure gauge.

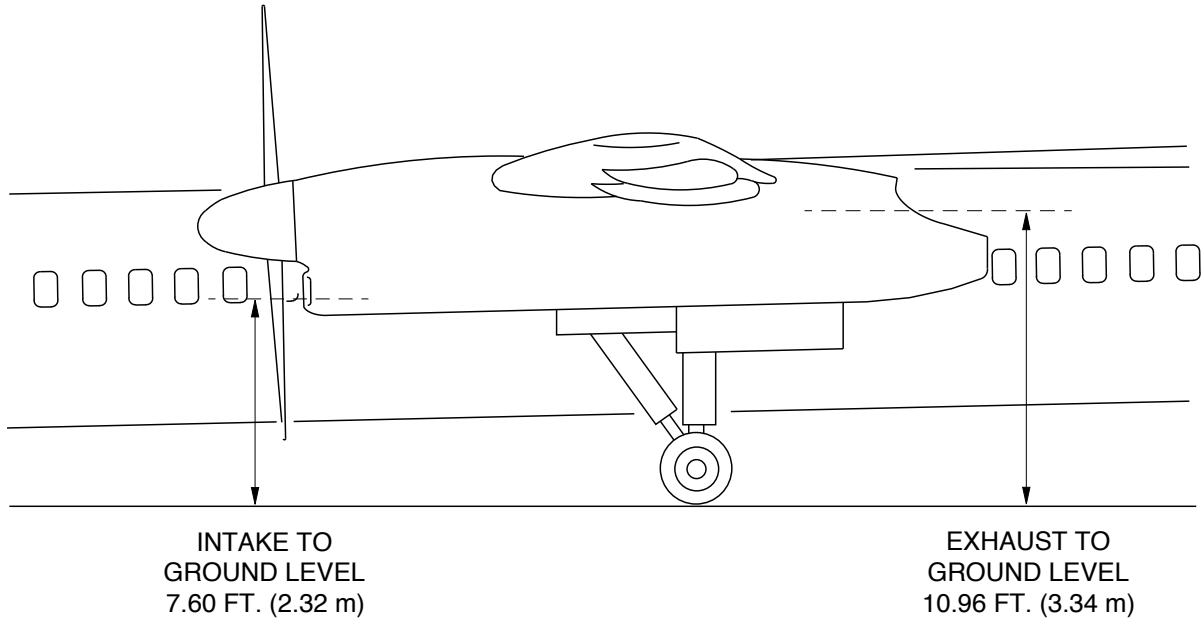


**CREW OXYGEN SYSTEM**

Figure 00 – 21



**CRASH-FIRE-RESCUE MANUAL**



**NOTES**

1. Approximately 3 ft. lower in wheels-up situation.
2. There are no externally accessible fire access panels.

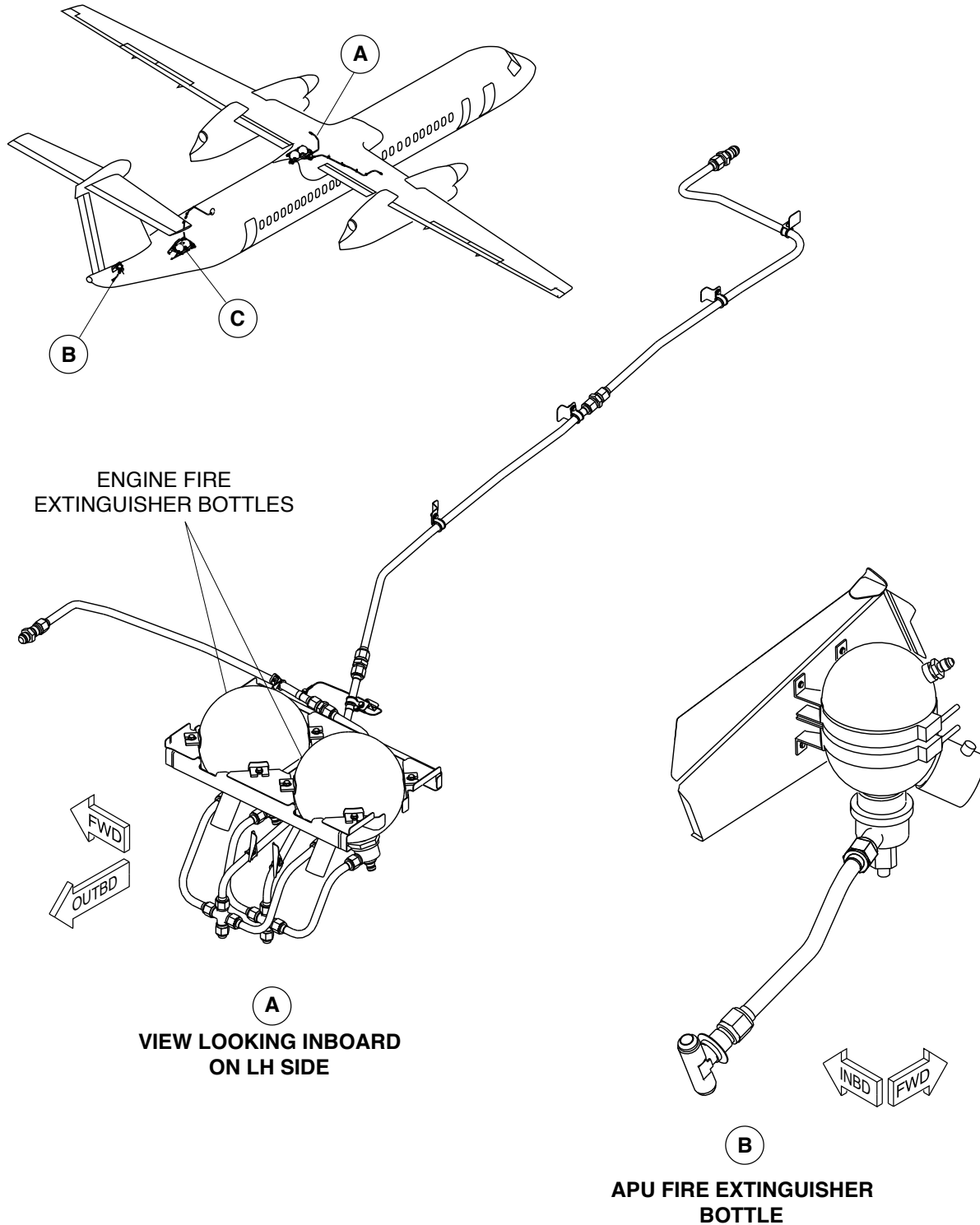
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**ENGINE FIRE ACCESS LOCATIONS**

Figure 00 – 22



**CRASH-FIRE-RESCUE MANUAL**



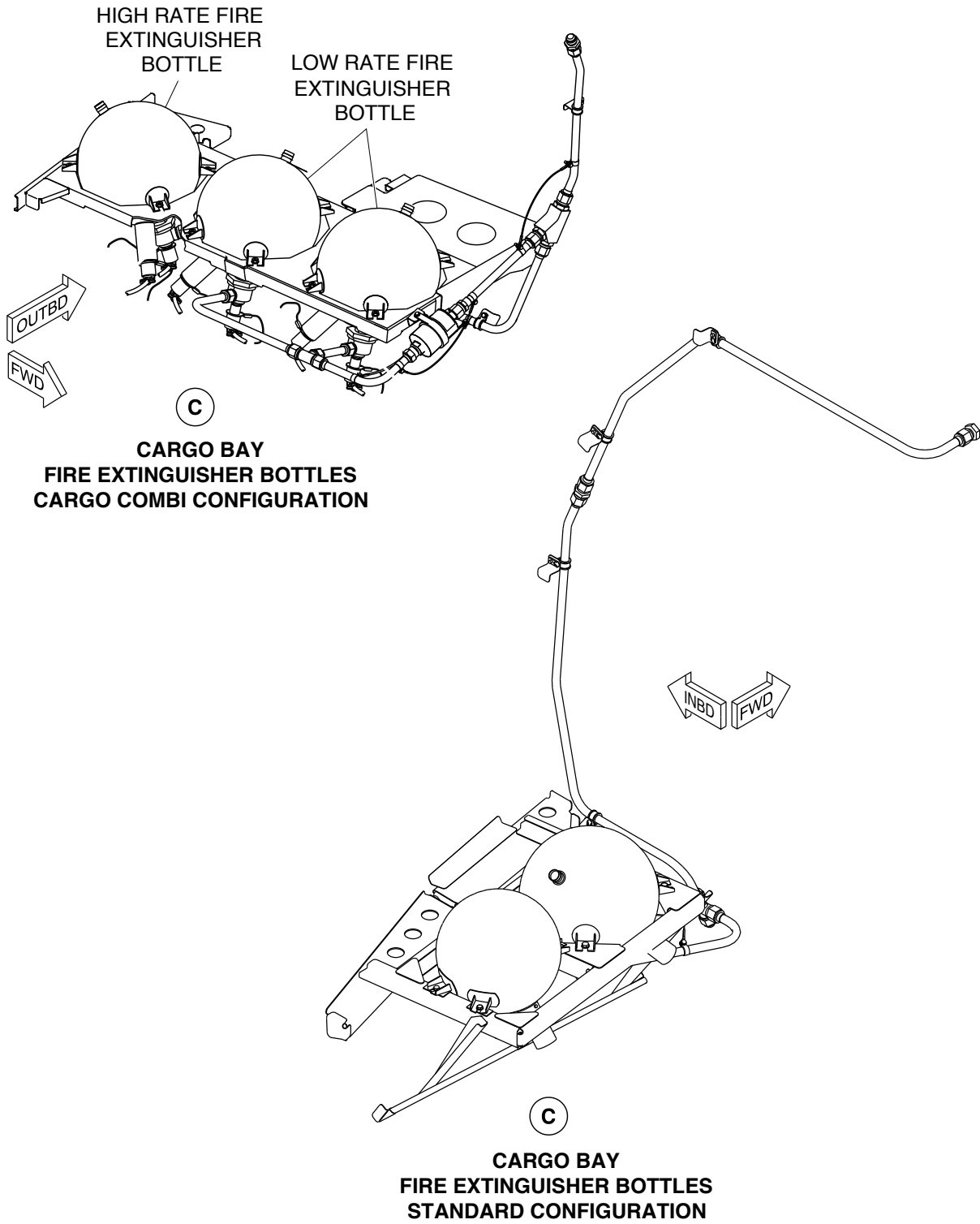
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FIRE EXTINGUISHING SYSTEM LOCATIONS (Sheet 1 of 2)

Figure 00 – 23



**CRASH-FIRE-RESCUE MANUAL**

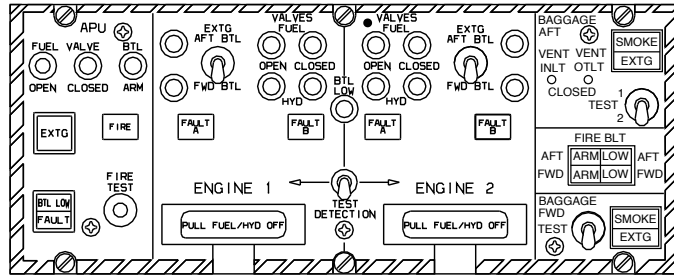
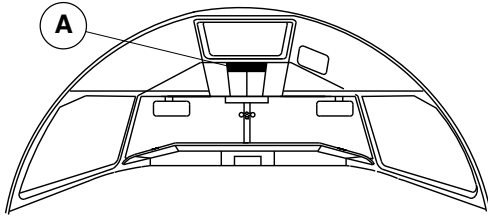


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FIRE EXTINGUISHING SYSTEM LOCATIONS (Sheet 2 of 2)

Figure 00 – 23

**CRASH-FIRE-RESCUE MANUAL**



**ENGINE FIRE**

1. POWER levers – FLT IDLE.
2. Condition levers – FUEL OFF.
3. PULL FUEL/HYD OFF handle (affected engine) – Pull. Check FUEL VALVE CLOSED and HYD VALVE CLOSED advisory lights illuminate.
4. TANK 1 AUX PUMP and TANK 2 AUX PUMP switches – OFF.
5. EXTG switch (affected engine) – FWD BTL.

Wait up to 30 seconds, if fire persists:

6. EXTG switch – AFT BTL.
7. BATTERY MASTER switch – OFF.
8. DC CONTROL EXT PWR and AC CONTROL EXT PWR switches – OFF.
9. PARK/EMERG BRAKE lever – PARK.
10. Evacuate airplane.

**APU FIRE**

1. Check APU automatically shuts down (APU RUN advisory light out), APU BTL LOW and FUEL VALVE CLOSED advisory lights illuminate.

If APU BTL ARM or APU FIRE advisory lights remain illuminated after 7 seconds:

2. EXTG switch – EXTG.

**BAGGAGE AFT COMPARTMENT FIRE**

1. Check for illumination of VENT INLT and VENT OTLT and FIRE BOTTLE AFT ARM advisory lights.
2. Illuminated SMOKE/EXTG switch – Press. Check FIRE BOTTLE AFT LOW advisory light illuminates and FIRE BOTTLE AFT ARM advisory light out.

**NOTE**

The FIRE BOTTLE FWD LOW advisory light will illuminate approximately seven minutes after the FIRE BOTTLE AFT LOW advisory light illuminates.

**BAGGAGE FWD COMPARTMENT FIRE**

1. Check for illumination of FIRE BOTTLE FWD ARM advisory light.
2. Illuminated SMOKE/EXTG switch – Press. Check FIRE BOTTLE FWD LOW and AFT LOW advisory lights illuminate and FIRE BOTTLE FWD ARM advisory light out.

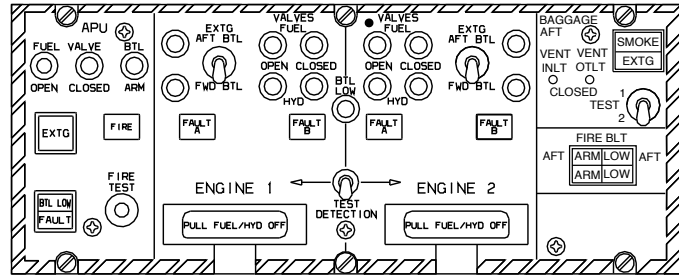
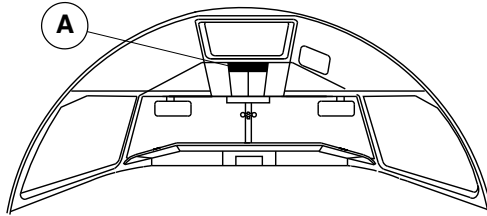
**FIRE EXTINGUISHING SYSTEMS OPERATIONS (STANDARD CONFIGURATION)**

**FIRE EXTINGUISHING SYSTEMS OPERATIONS (Sheet 1 of 3)**

Figure 00 – 24



**CRASH-FIRE-RESCUE MANUAL**



**ENGINE FIRE**

1. POWER levers – FLT IDLE.
2. Condition levers – FUEL OFF.
3. PULL FUEL/HYD OFF handle (affected engine) – Pull. Check FUEL VALVE CLOSED and HYD VALVE CLOSED advisory lights illuminate.
4. TANK 1 AUX PUMP and TANK 2 AUX PUMP switches – OFF.
5. EXTG switch (affected engine) – FWD BTL.

Wait up to 30 seconds, if fire persists:

6. EXTG switch – AFT BTL.
7. BATTERY MASTER switch – OFF.
8. DC CONTROL EXT PWR and AC CONTROL EXT PWR switches – OFF.
9. PARK/EMERG BRAKE lever – PARK.
10. Evacuate airplane.

**APU FIRE**

1. Check APU automatically shuts down (APU RUN advisory light out), APU BTL LOW and FUEL VALVE CLOSED advisory lights illuminate.
- If APU BTL ARM or APU FIRE advisory lights remain illuminated after 7 seconds:
2. EXTG switch – EXTG.

**BAGGAGE AFT COMPARTMENT FIRE**

1. Check for illumination of VENT INLT and VENT OTLT and FIRE BOTTLE AFT ARM advisory lights.
2. Illuminated SMOKE/EXTG switch – Press. Check FIRE BOTTLE AFT LOW advisory light illuminates and FIRE BOTTLE AFT ARM advisory light out.

**NOTE**

The FIRE BOTTLE FWD LOW advisory light will illuminate approximately seven minutes after the FIRE BOTTLE AFT LOW advisory light illuminates.

**FIRE EXTINGUISHING SYSTEMS OPERATIONS (EXTRA CAPACITY CONFIGURATION)**

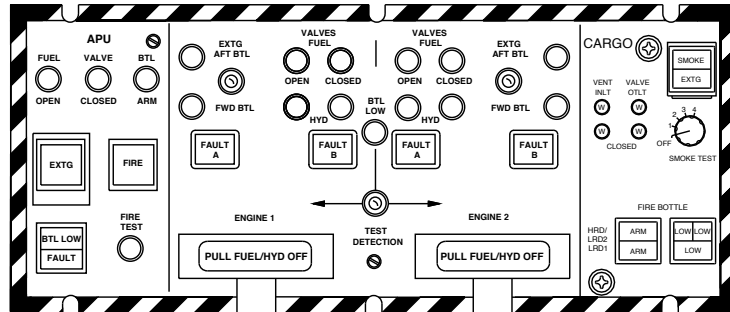
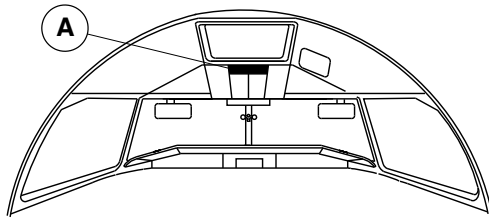
**FIRE EXTINGUISHING SYSTEMS OPERATIONS (Sheet 2 of 3)**

Figure 00 – 24





**CRASH-FIRE-RESCUE MANUAL**



**ENGINE FIRE**

1. POWER levers – FLT IDLE.
2. Condition levers – FUEL OFF.
3. PULL FUEL/HYD OFF handle (affected engine) – Pull. Check FUEL VALVE CLOSED and HYD VALVE CLOSED advisory lights illuminate.
4. TANK 1 AUX PUMP and TANK 2 AUX PUMP switches – OFF.
5. EXTG switch (affected engine) – FWD BTL.

Wait up to 30 seconds, if fire persists:

6. EXTG switch – AFT BTL.
7. BATTERY MASTER switch – OFF.
8. DC CONTROL EXT PWR and AC CONTROL EXT PWR switches – OFF.
9. PARK/EMERG BRAKE lever – PARK.
10. Evacuate airplane.

**APU FIRE**

1. Check APU automatically shuts down (APU RUN advisory light out), APU BTL LOW and FUEL VALVE CLOSED advisory lights illuminate.

If APU BTL ARM or APU FIRE advisory lights remain illuminated after 7 seconds:

2. EXTG switch – EXTG.

**AFT CARGO COMPARTMENT FIRE**

1. Check for illumination of VENT INLT and VENT OTLT and FIRE BOTTLE HRD/LRD 2, LRD 1 ARM advisory lights.
2. Illuminated SMOKE/EXTG switch – Press. Check FIRE BOTTLE HRD LOW and LRD 1 LOW advisory lights illuminate and FIRE BOTTLE HRD/LRD 2, LRD 1 ARM advisory lights out.

**NOTE**

The FIRE BOTTLE LRD 2 LOW advisory light will illuminate approximately seven minutes after the FIRE BOTTLE HRD LOW and LRD 1 LOW advisory lights illuminate.

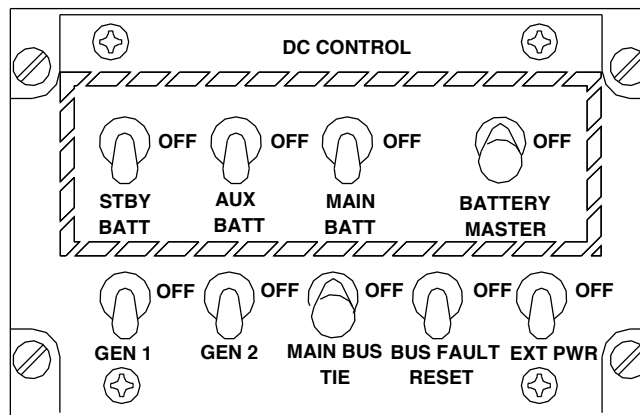
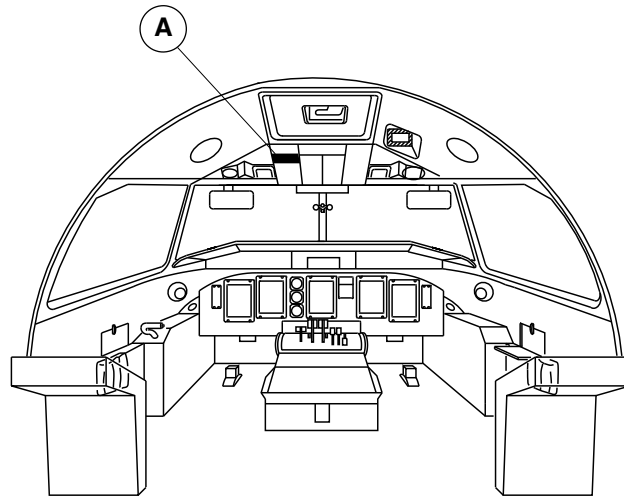
**FIRE EXTINGUISHING SYSTEMS OPERATIONS (CARGO COMBI CONFIGURATION)**

**FIRE EXTINGUISHING SYSTEMS OPERATIONS (Sheet 3 of 3)**

Figure 00 – 24



**CRASH-FIRE-RESCUE MANUAL**



**A**

- A. Set the MAIN BATT switch to the OFF position.
- B. Set the AUX BATT switch to the OFF position.
- C. Set the MAIN BUS TIE switch to the OFF position.
- D. If necessary, set the STBY BATT switch to the OFF position.
- E. Set the BATTERY MASTER switch to the OFF position.
- F. Make sure that the AC EXT PWR switch and the DC EXT PWR switch are both set to the OFF position.

**BATTERY POWER SWITCH LOCATIONS**

Figure 00 – 25