

747-400/400ER

Freighter

Herndon, VA



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Boeing Freighter In Service

The majority of Boeing aircraft that are currently in service are 727 and 747 models. The vast majority of these freighters are after production modifications.

- 727 Freighters = 380 total / 271 flying
- 747 Freighters = 354 total / 331 flying



747-400/400ER Freighter



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747-400/400ER

Freighter



Smoke Detection and Halon System



Access Points

- **Main Cabin Entry Doors**
- **E and E Bay**
- **Cargo Doors Upper and Lower**
- **Chop/Cut Out Areas**



Main Cabin Doors



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Main Cabin Entry Door

2" WIDE BAND OF CONTRASTING COLOR INDICATING ALL DOORS, HATCHES AND WINDOWS EXTERNALLY OPERABLE.



Door is "not" armed



Main Cabin Entry Door

1 ENTRY DOORS EXTERNAL HANDLE (2)

HANDLE RELEASE
BUTTON



TO OPEN DOOR:

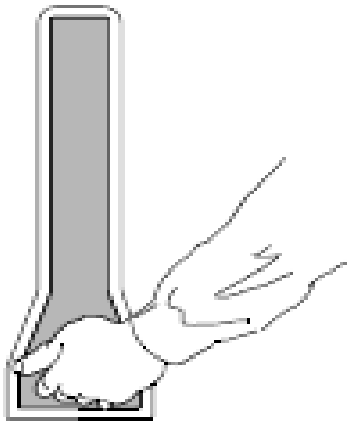
1. PUSH HANDLE RELEASE BUTTON AND PULL HANDLE FROM RECESS.
2. ROTATE 180° IN DIRECTION OF "OPEN" ARROW.
3. PULL DOOR OUTWARD

NOTE: OPENING A DOOR FROM THE OUTSIDE DISENGAGES THE EMERGENCY EVACUATION SYSTEM AND THE ESCAPE SLIDE WILL NOT DEPLOY.



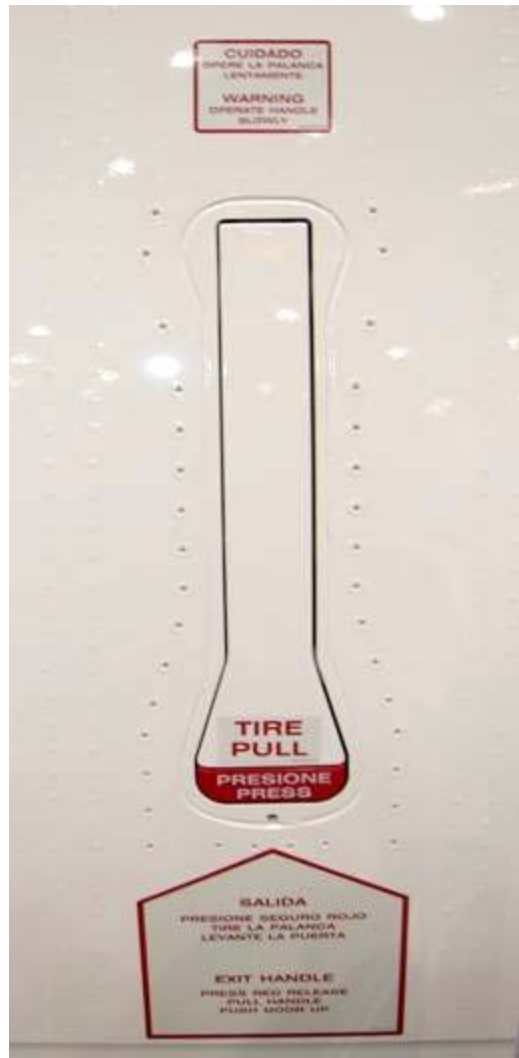
Main Cabin Door Access

1 ENTRY/SERVICE DOOR EXTERNAL HANDLE



TO OPEN DOOR:

1. PUSH IN DISARM LEVER (RED SURFACE LABELED "PUSH").
2. PULL AND LIFT OPERATING HANDLE TO UNLATCH DOOR.
3. MOVE DOOR UPWARD.



E and E Bay Access



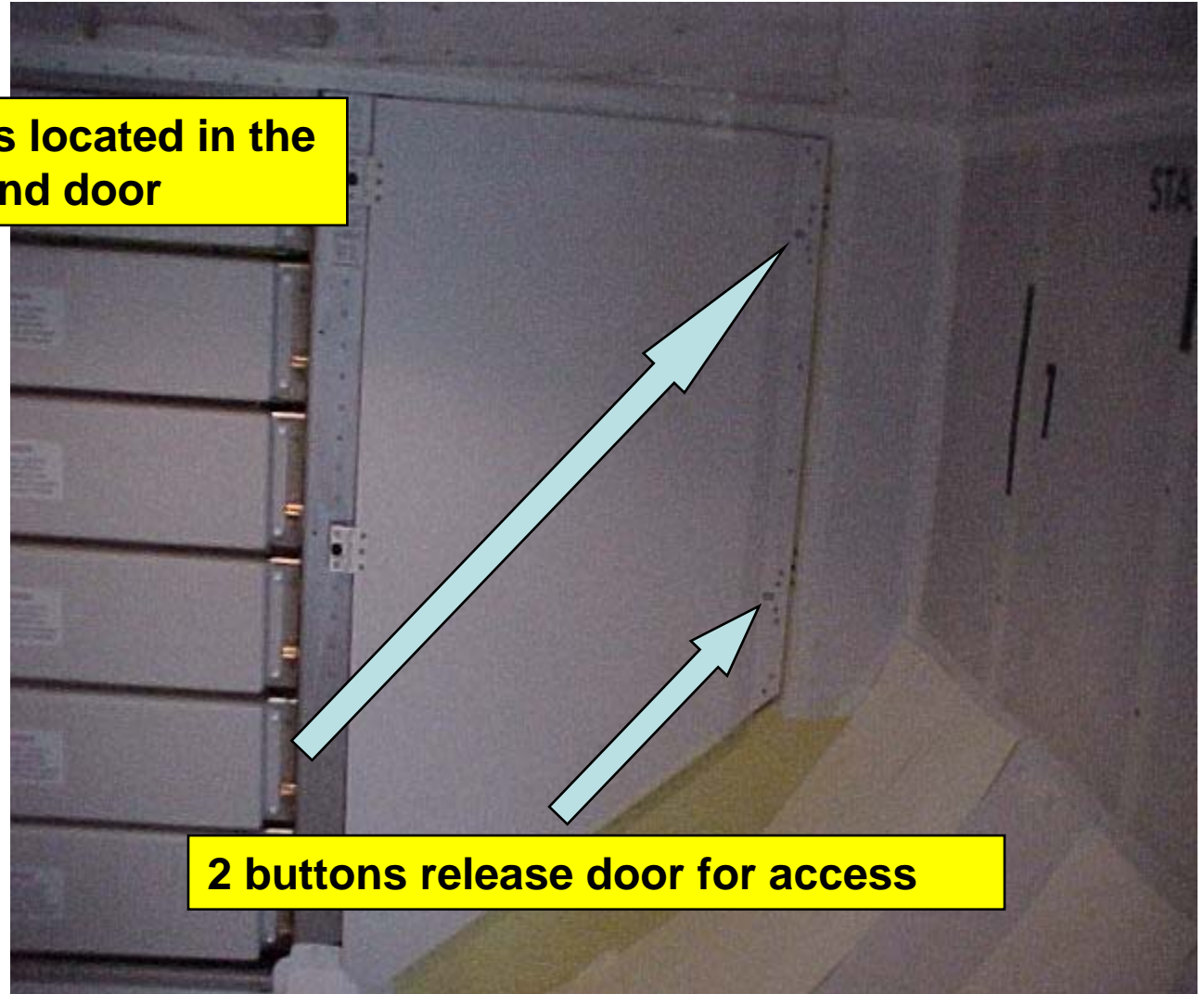
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E & E Bay Access



E & E Bay

E & E Bay access is located in the forward cargo behind door



2 buttons release door for access

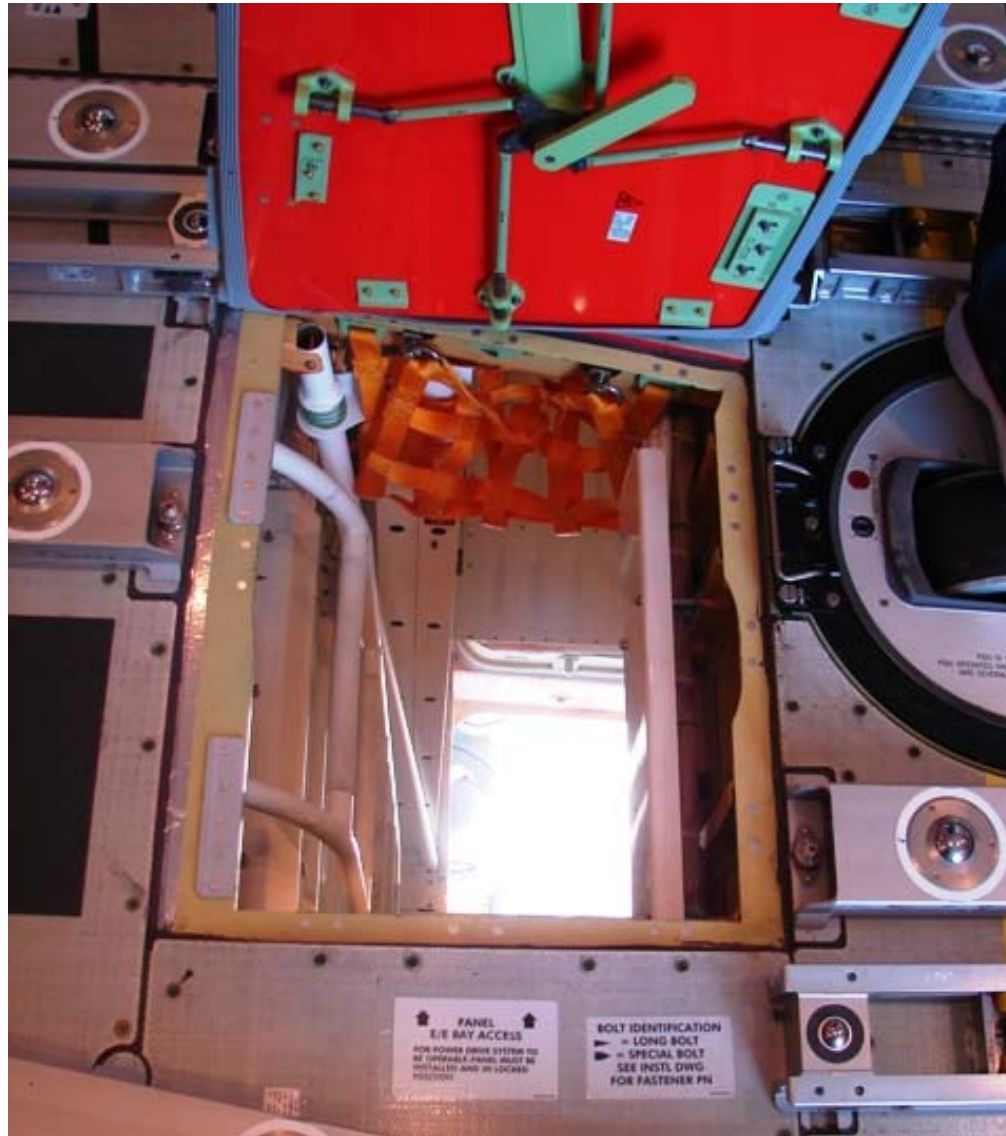


E & E Bay Access

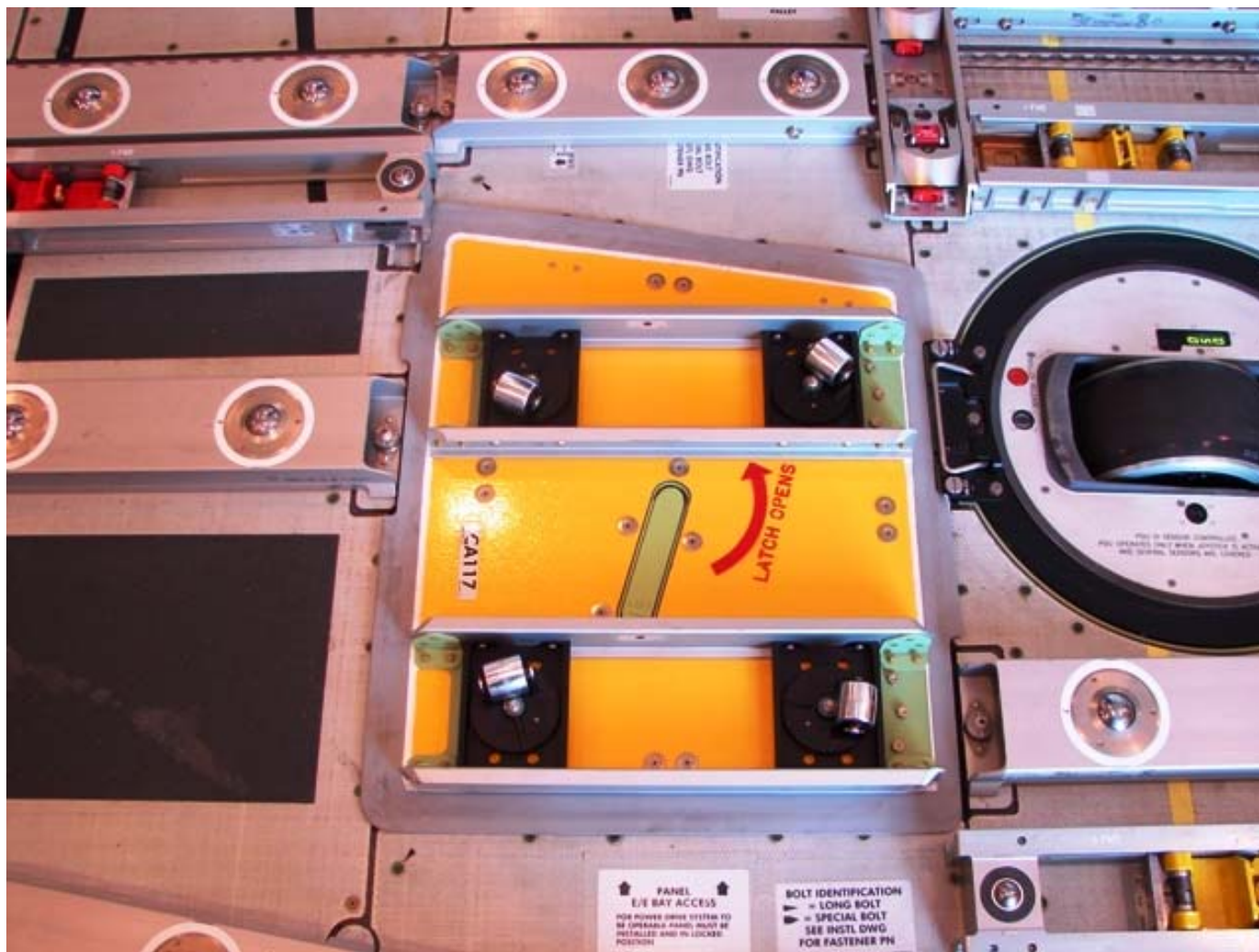


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E & E Bay Access



E & E Bay Access

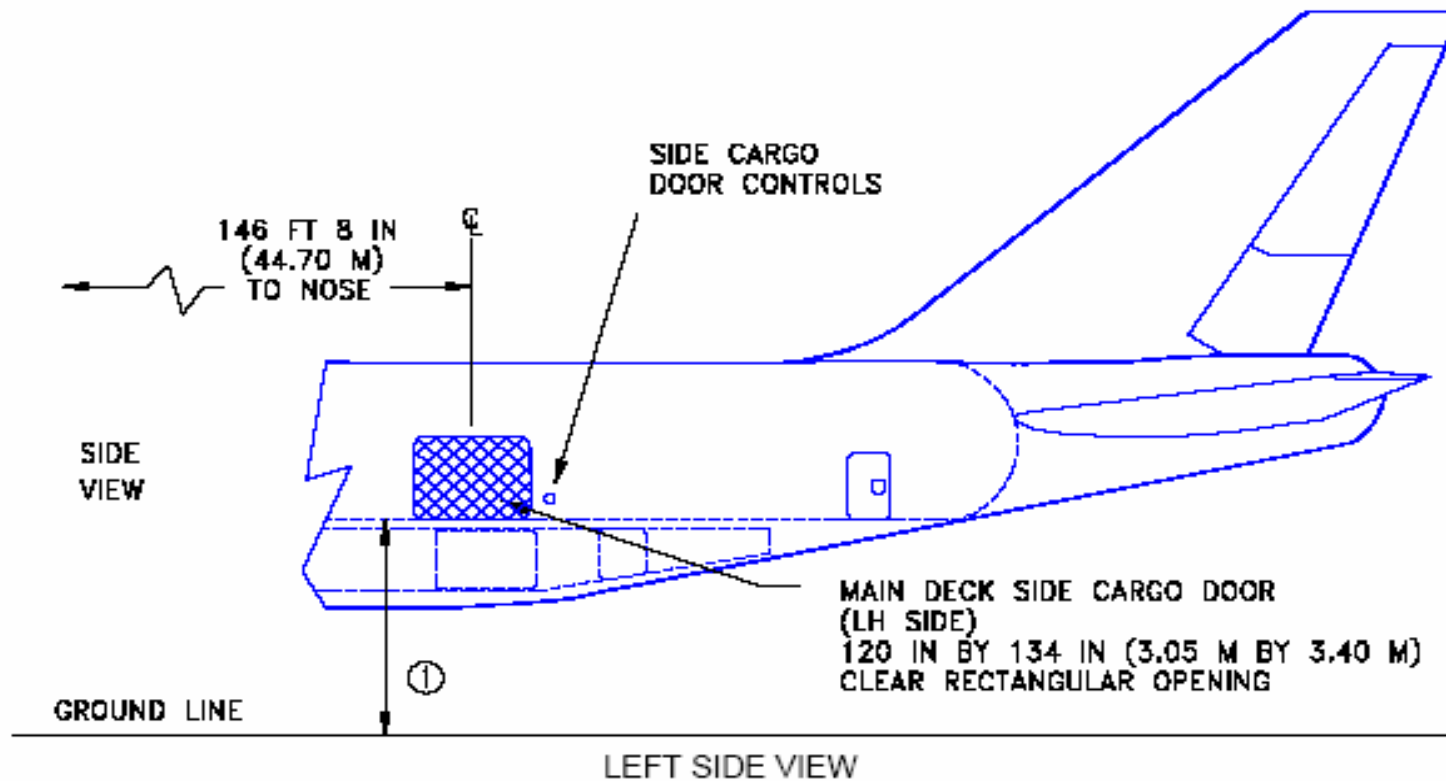


Cargo Access Door Access Areas

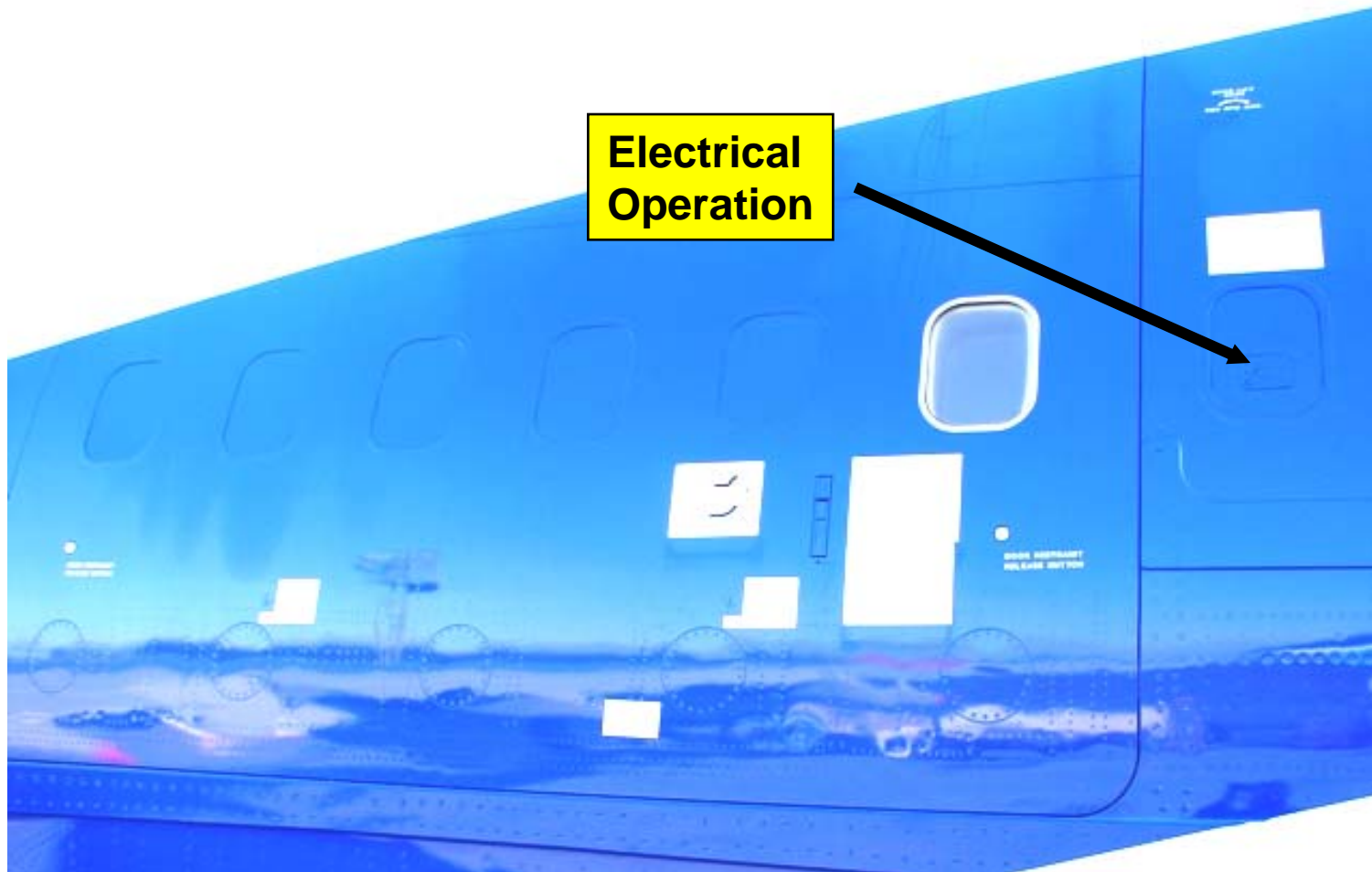


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Main Deck Rear Cargo Access



Main Cabin Cargo Door

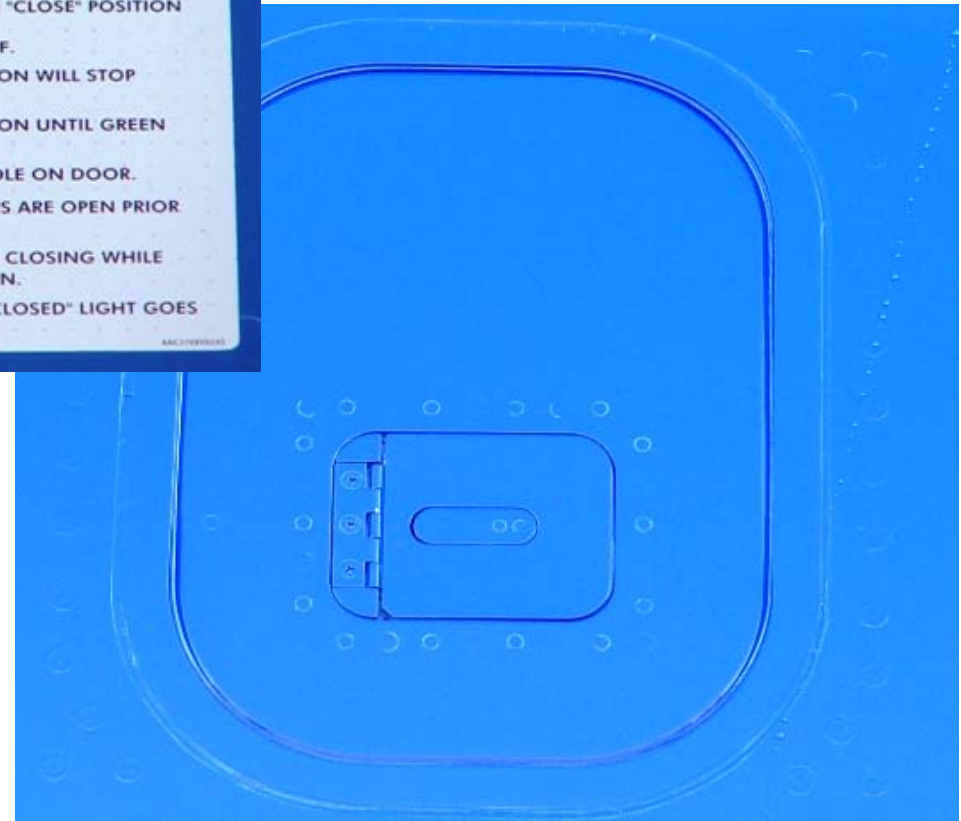


Electrical
Operation



Main Deck Cargo Door

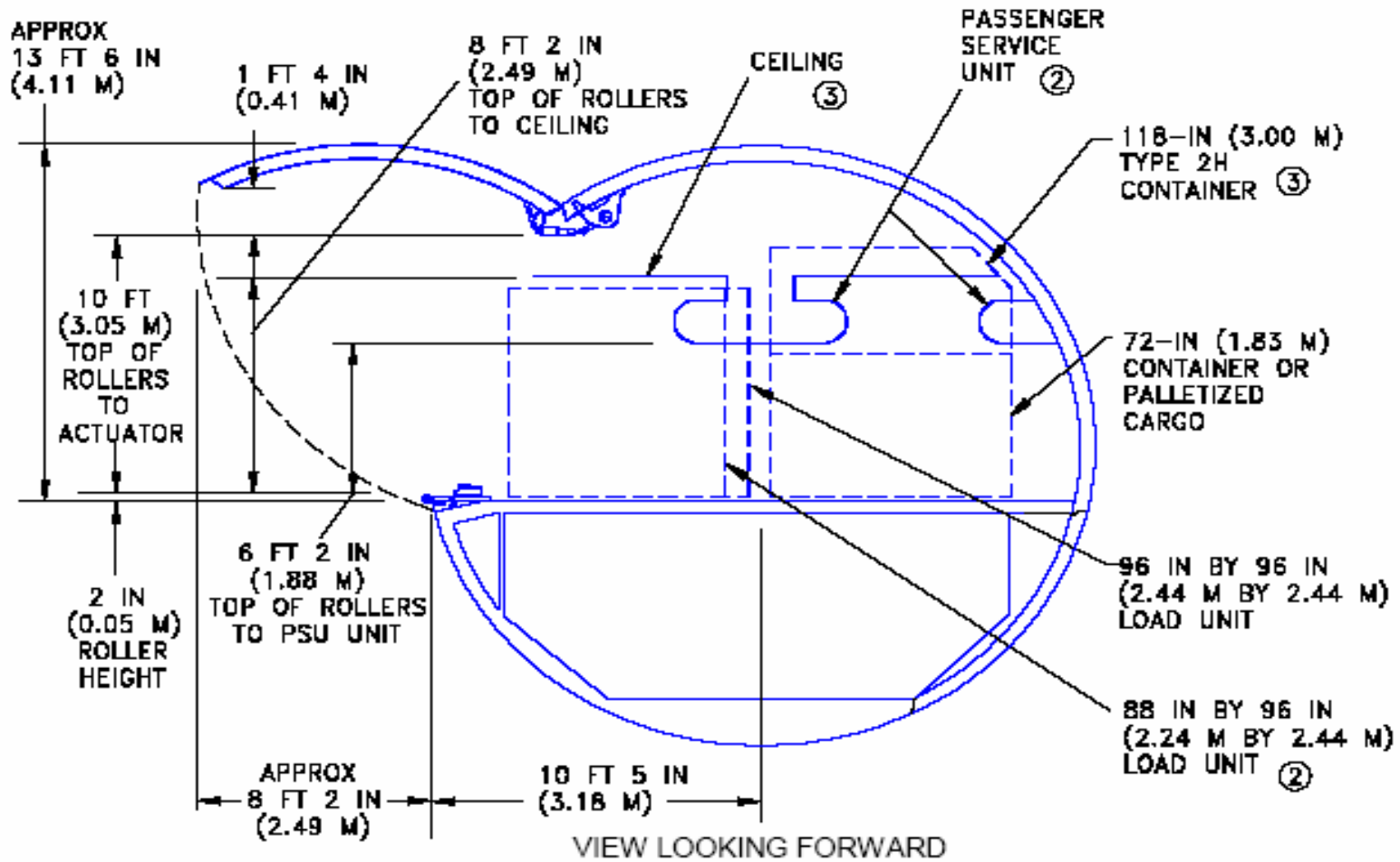
CARGO DOOR SWITCH-OUTSIDE	
SIDE CARGO DOOR OPERATING PROCEDURE	
CAUTION	
1. BEFORE OPERATING DOOR, MAKE CERTAIN ALL PERSONNEL AND EQUIPMENT ARE CLEAR OF DOOR PATH. 2. INSTALL PERSONNEL SAFETY NET IF DOOR IS OPEN AND CARGO IS NOT BEING LOADED OR UNLOADED.	
TO OPEN DOOR	TO CLOSE DOOR
1. DETERMINE THAT DOOR POWER IS AVAILABLE BY GREEN "POWER ON" LIGHT ON. 2. UNLOCK AND OPEN LATCH LOCK HANDLE ON DOOR. GREEN "LATCHES CLOSED" LIGHT COMES ON. PRESSURE RELIEF DOORS OPEN. CAUTION: DO NOT OPERATE OUTSIDE LATCH LOCK HANDLE UNLESS RETAINER COVERING INSIDE HANDLE IS OPEN. 3. HOLD DOOR OPEN/CLOSE SWITCH IN "OPEN" POSITION. 4. WHEN DOOR IS FULLY OPEN, MOTION WILL STOP AUTOMATICALLY. GREEN "DOOR UP" LIGHT COMES ON. 5. RELEASE DOOR SWITCH.	1. RETRACT CARGO HANDLING SILL ROLLER AND GUIDE ASSY TO STOWAGE POSITION. 2. HOLD DOOR OPEN/CLOSE SWITCH IN "CLOSE" POSITION UNTIL DOOR IS CLOSED. GREEN "DOOR OPEN" LIGHT GOES OFF. 3. WHEN DOOR IS FULLY CLOSED, MOTION WILL STOP AUTOMATICALLY. NOTE: HOLD SWITCH IN "CLOSE" POSITION UNTIL GREEN "LATCHES CLOSED" LIGHT COMES ON. 4. CLOSE AND LOCK LATCH LOCK HANDLE ON DOOR. • OBSERVE THAT PRESSURE RELIEF DOORS ARE OPEN PRIOR TO CLOSING HANDLE. • OBSERVE THE PRESSURE RELIEF DOORS CLOSING WHILE MOVING HANDLE TO CLOSED POSITION. • OBSERVE THAT THE GREEN "LATCHES CLOSED" LIGHT GOES OFF.



Main Deck Cargo Door



Main Deck Cargo Door



Rear Cargo



Manual
Operation



Issues with Manual Operation of Cargo Doors

- **Access**
- **Time**
- **Special Tools**
 - **Screw driver to open cover**
 - **1/2” socket**
 - **Drive wrench**



Rear Cargo Manual Operation



Manual Operation



CARGO DOOR LATCH AND PULL-IN HOOK MANUAL OPERATION

500 RPM MAX AND 70 IN-LBS TORQUE MAX.

CAUTION: ANY STOP CONTACT IS FELT BY A RAPID TORQUE RISE. DO NOT EXCEED THE 70 IN-LBS MAX.

1. OPEN LATCH LOCK HANDLE FIRST.
2. ROTATE LATCH AND HOOK DRIVE UNTIL STOP IS REACHED. APPROXIMATE NUMBER OF TURNS IS 115.

FOR CLOSING, REVERSE THE DIRECTION UNTIL STOP IS REACHED.

FULL DETAILS IN MAINTENANCE MANUAL, SECTION 52.

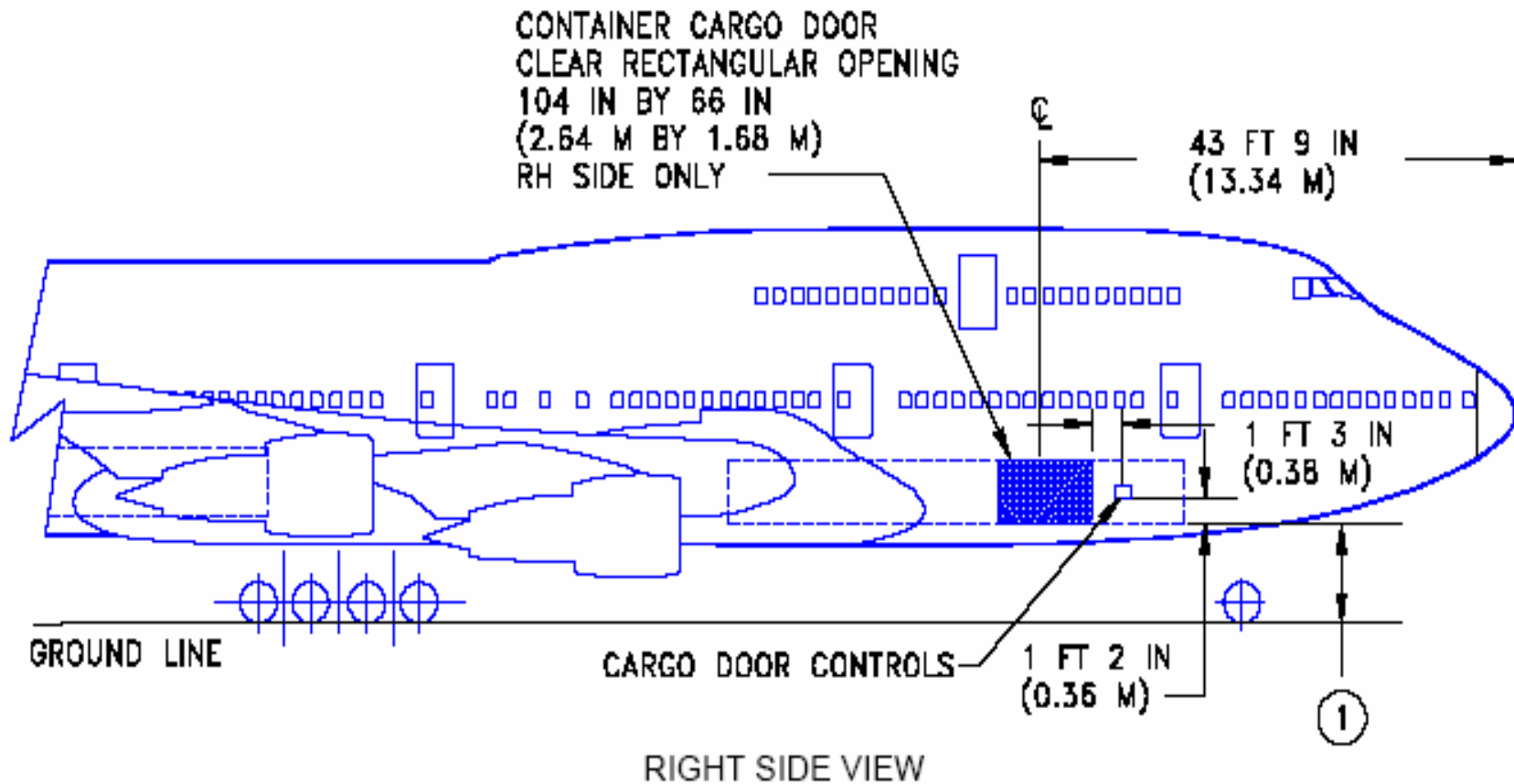
LATCH AND HOOK OPEN



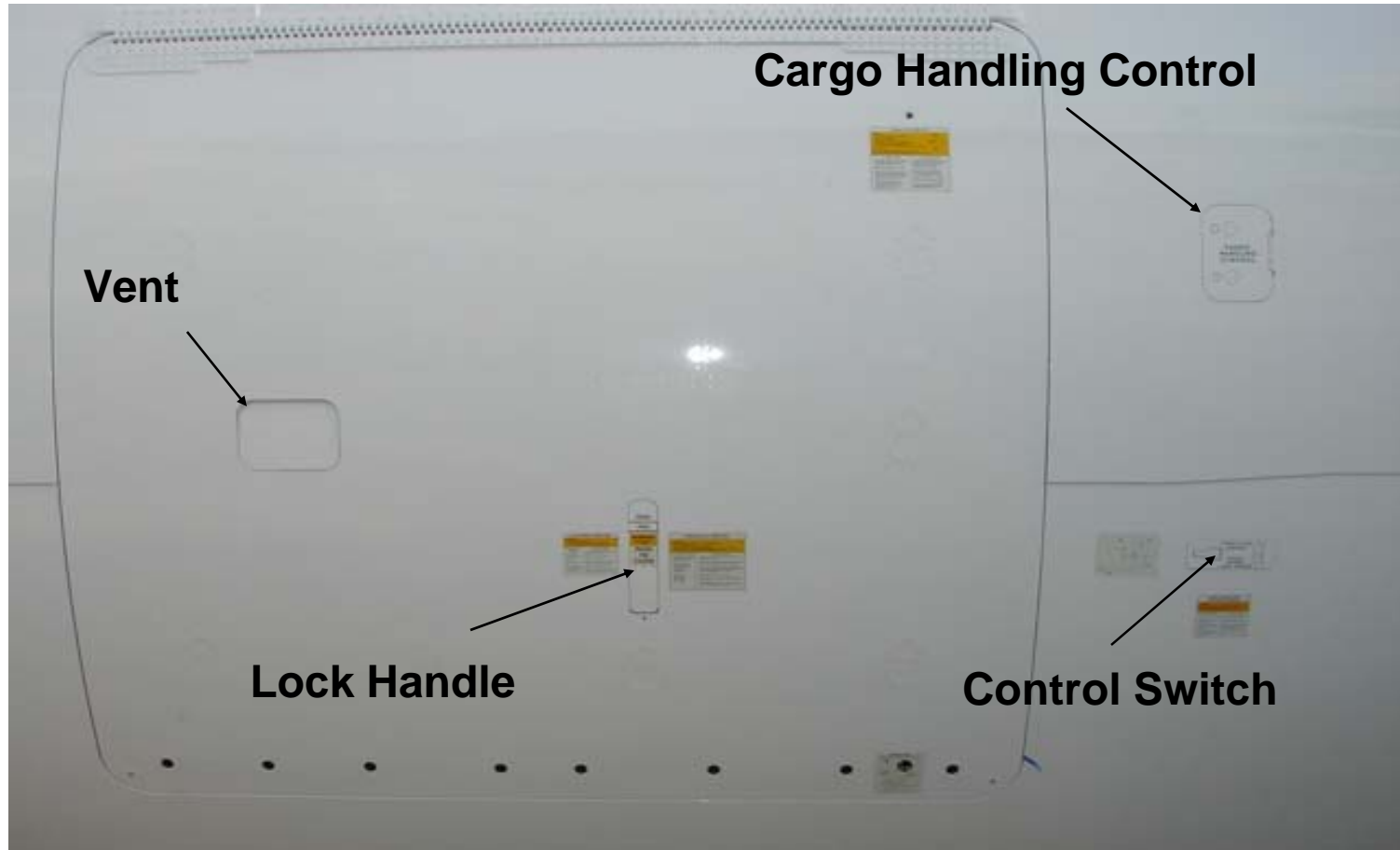
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Lower Cargo Doors



Lower Cargo Access



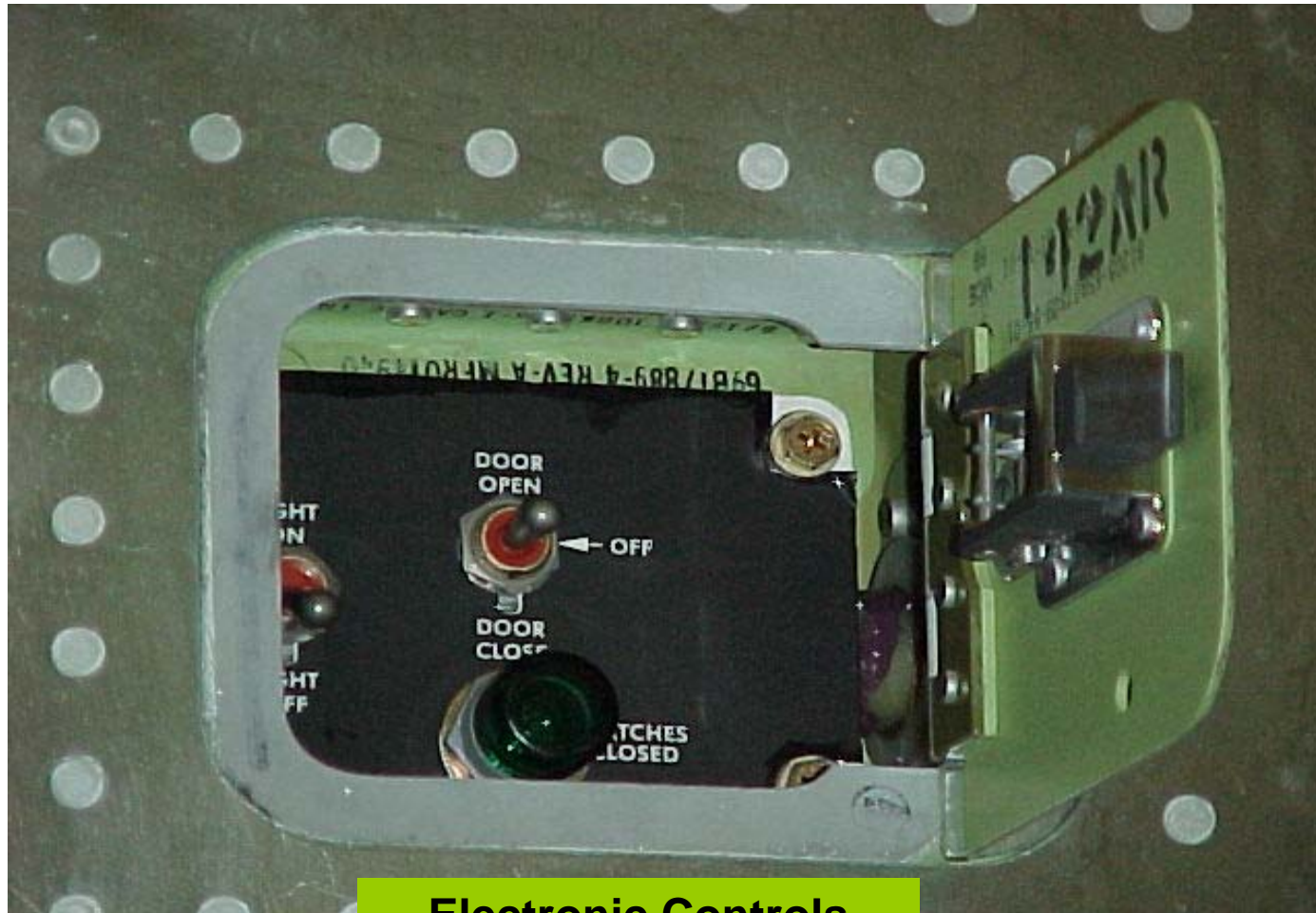
Lower Cargo Access



Manual Access



Lower Cargo Door Access



Electronic Controls



Cargo Doors



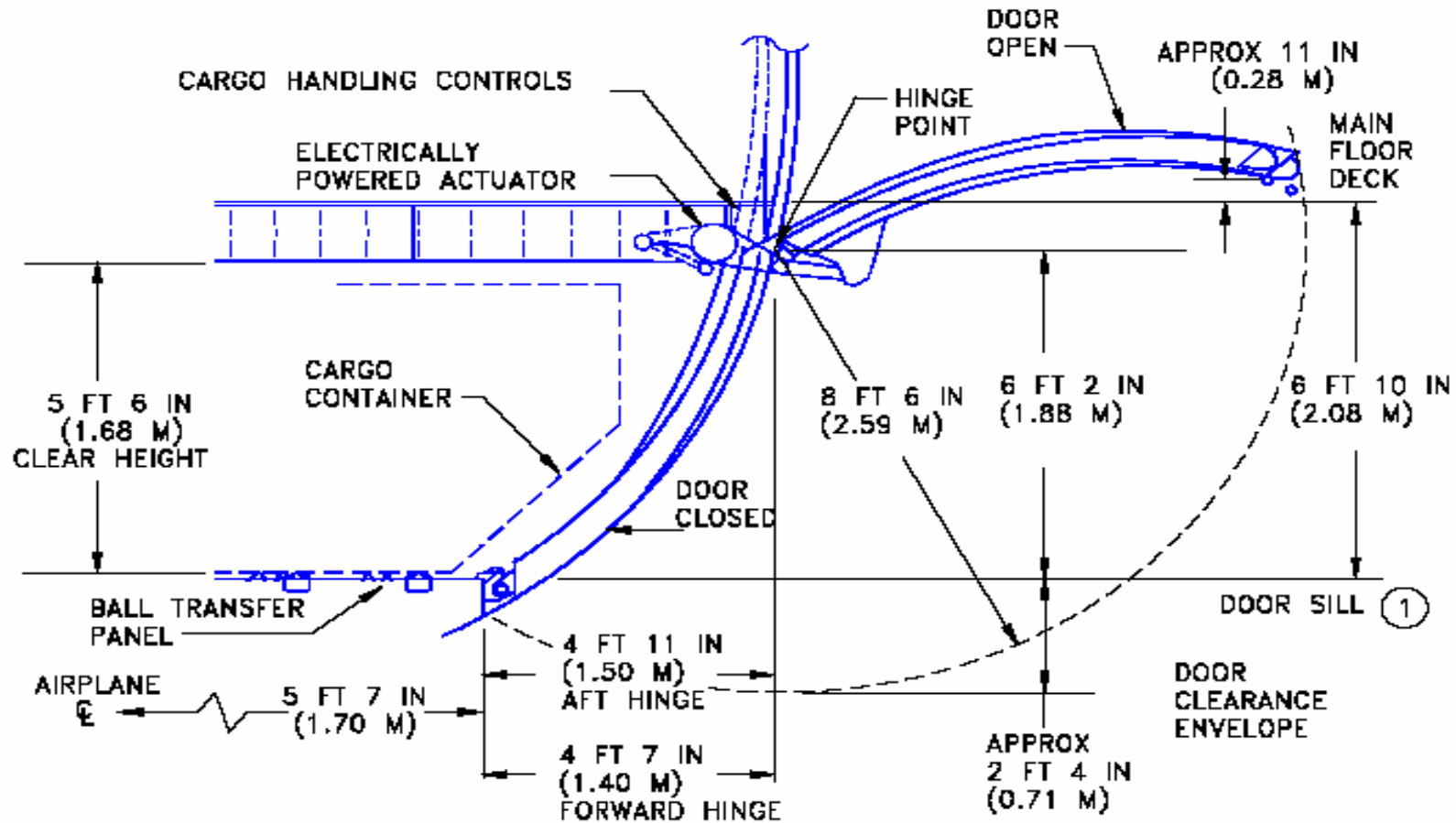
Lower Cargo Door Access



Cargo Doors



Lower Cargo Door Access



CONTAINER CARGO DOOR - VIEW LOOKING FORWARD

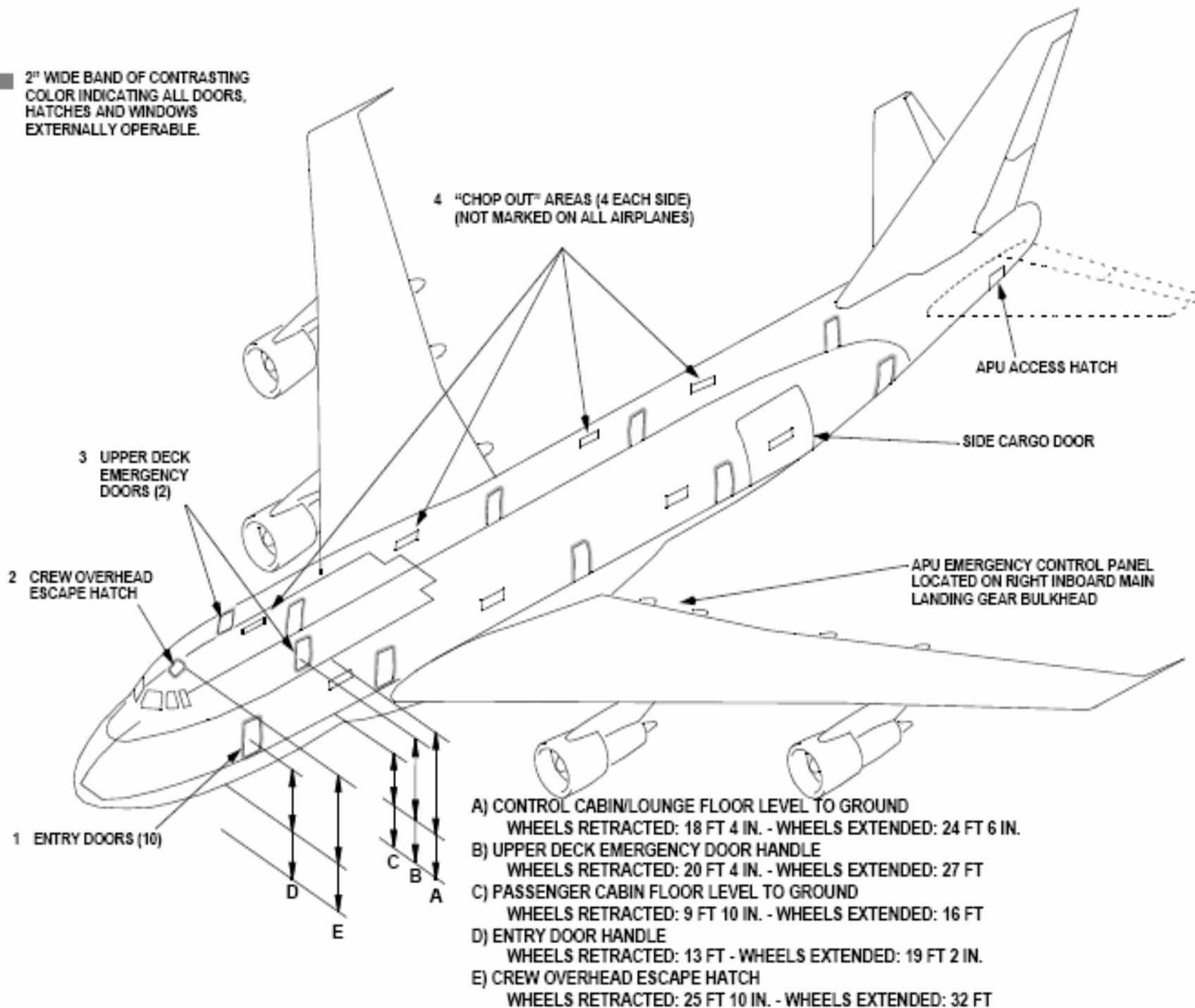


Chop Out / Cut Out Areas



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■ 2" WIDE BAND OF CONTRASTING COLOR INDICATING ALL DOORS, HATCHES AND WINDOWS EXTERNALLY OPERABLE.



Chop Out / Cut Out Areas

“Chop Out” areas require metal cutting portable power equipment because of type of structure and possible injury to personnel within. It is recommended that major effort to gain access be directed to hatches and doors. Urgency of situation will dictate necessity for “Chop Out”.



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