ATA 52: DOORS

B737NG – Systems Course
Flight deck door locked only when electrically powered and unlocked when electrical power is removed.

Deadbolt with a key on the door on the passenger side
- Bolt in the horizontal position = locked, prevents the passenger cabin key from unlocking the door
- Forward deadbolt lever in locked position = allows the key to unlock the door

In the door, there are two pressure sensors that unlock the decompression panels, if pressurization is lost. Can also be manually released.
ON THE PASSENGER SIDE DOOR POST:

- Keypad:
  - After entering the code, press ENT
  - Correct emergency access code sounds flight deck chime and illuminates AUTO UNLK amber light

- Access lights illuminated:
  - Red if door locked or flight deck access system switch OFF
  - Amber if correct emergency code entered
  - Green if door unlocked

Note: Pressing « 1 » then « ENT », the flight deck chime will sound (optional)
Flight deck door FCOM 1.30.16

On the flight deck side door post:

- Flight deck access system switch:
  - OFF → removes electrical power from door lock
  - NORM → flight deck access system configured for flight
Flight deck door FCOM 1.30.16

On the aft electronic panel:

- **FLT DK DOOR** selector:
  - **UNLKD** — door unlocked
  - **AUTO** — door locked, allows door to unlock after entry of emergency access code & expiration of timer, unless crew takes action
  - **DENY** — rejects keypad entry request and prevents further emergency access code entry for a time period

**LOCK FAIL** illuminated if
- Flight deck door lock selector in AUTO
- Door lock has failed or flight deck access system switch is OFF

**AUTO UNLK** illuminated if
- Correct emergency access code entered in keypad. Flashes and continuous chime sound before timer expires & door unlocks
Flight deck door FCOM 1.30.17

- On the aft electronic panel

- DSPL switch:
  - Push once: displays surveillance in MFD
  - Push twice: cancel display of video

- CAM SEL:
  - L → view of the flight deck door with back view of the person requesting entry
  - C → frontal view of the person
  - R → general view of the door 1 galley area
Lower cargo compartments

- Cargo can confine fire without endangering the safety of the airplane
- In cargo, there is no fresh air circulation nor temperature control
- Cargo door can be manually operated from inside or outside the airplane
- Each door is closed by 2 latches
- There is a balance mechanism to open the door easily
- Pressure equalization valve, in the aft of the bulkhead to keep the pressures nearly the same as the cabin pressure

Note: in case the cabin pressure is lost, blowout panels in the lower cargo compartment open

CAUTION: do not operate the entry or cargo doors with winds at the door of more than 40 knots. Do not keep doors open when wind gusts are more than 65 knots. Strong winds can cause damage to the structure of the airplane.
Exterior doors annunciator FCOM 1.30.18

- Indicators on the forward overhead panel

- Overwing exit light illuminated if
  - Related exit is not closed and locked
  - Related flight lock failed to engage when commended
Flight deck windows

- Can be opened on the ground & in flight
- When window pulled inward, it locks; need to be unlocked to be closed
- Can be used for emergency egress

Note: only F/O window can be opened from outside

CAUTION: make sure the escape strap is securely fastened to the airplane before using it
Emergency evacuation routes: 4 entry doors and 4 overwing escape hatches.
Once the slide detached from the door sill, it is tethered to the door sill by a lanyard.

CAUTION: slide has not been certified to be part of the water landing emergency equipment.
Escape straps FCOM 1.40.53

- Escape straps are installed above each aft emergency exit door frame.
- It can be used as a hand hold in a ditching emergency for passengers to walk out on the wing & step into a life raft.
Emergency exit doors  FCOM 1.40.54

- 28V DC Flight lock system will lock the doors during takeoff and unlock after landing
- If the OVERHEAD annunciator & MASTER CAUTION illuminate, it will extinguish 30 sec after aircraft is on ground mode

Overwing emergency exits lock if illuminated if

- 3 of the 4 entry/service doors are closed
- Either engine is running
- Air/ground logic indicates the aircraft is in the air or both thrust levers are advanced

Note: overwing emergency exits unlock if DC power is lost
END OF MODULE