

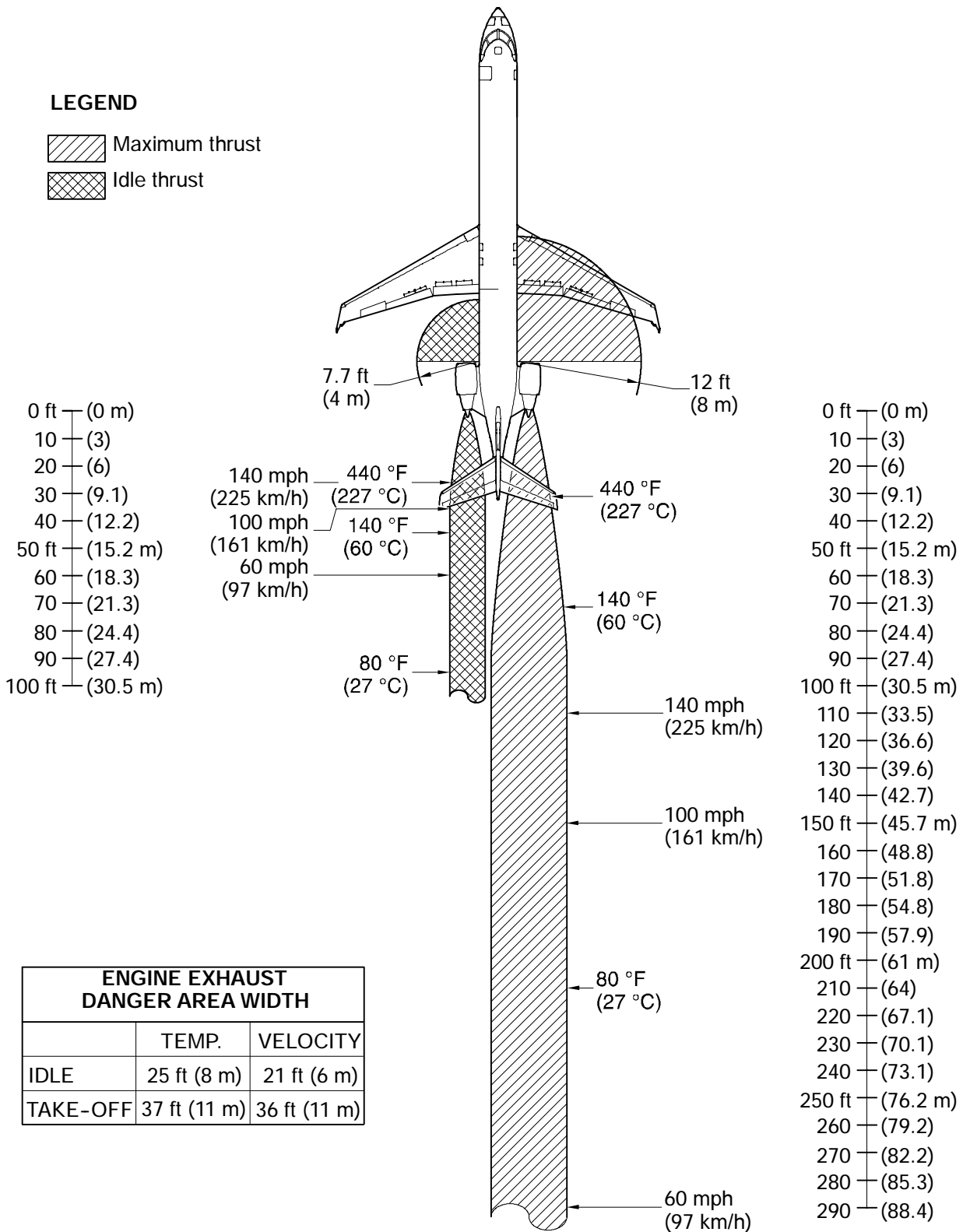


External Aircraft Dimensions <2224>
Figure 01-20-1

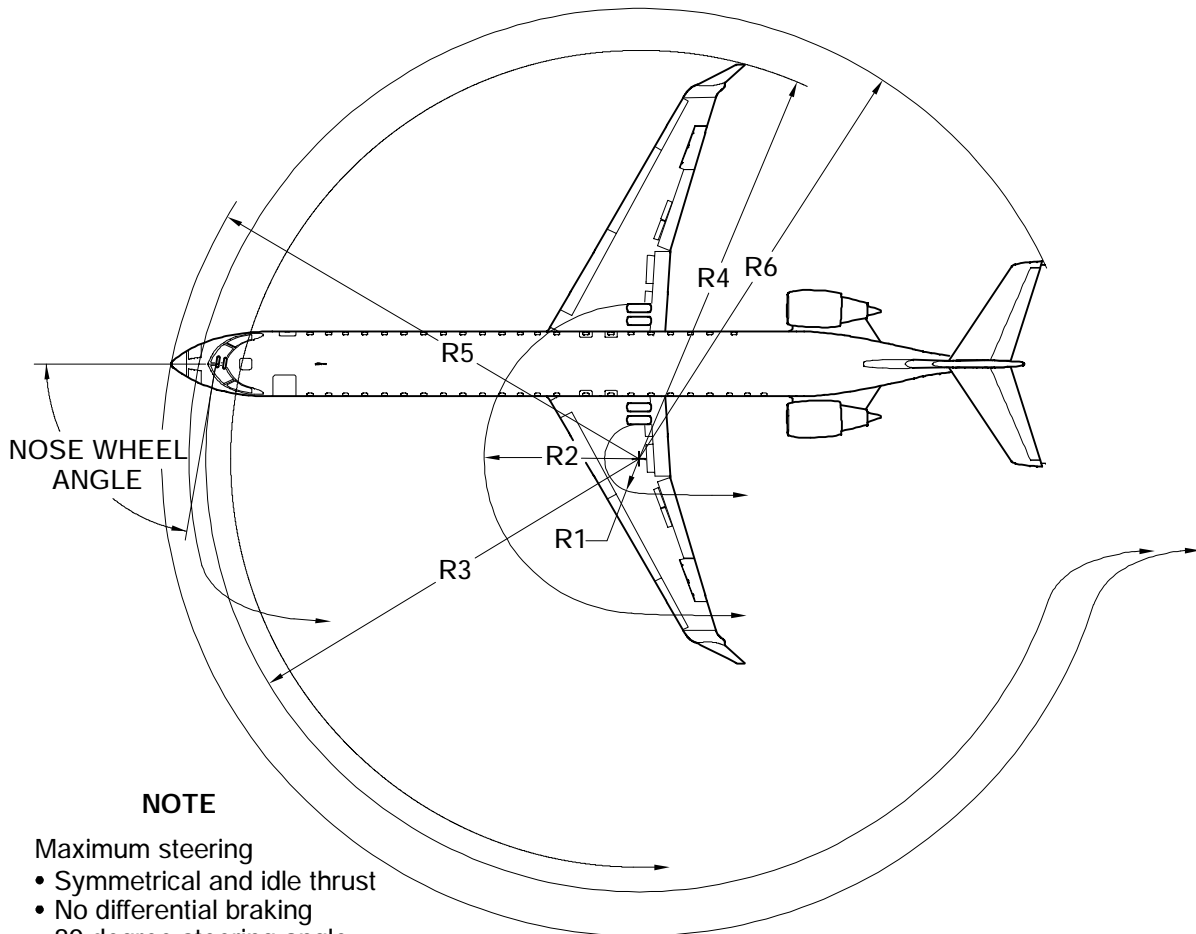
LEGEND

-  Maximum thrust
-  Idle thrust



ENGINE EXHAUST DANGER AREA WIDTH		
	TEMP.	VELOCITY
IDLE	25 ft (8 m)	21 ft (6 m)
TAKE-OFF	37 ft (11 m)	36 ft (11 m)

Engine Hazard Areas <2224>
Figure 01-20-2

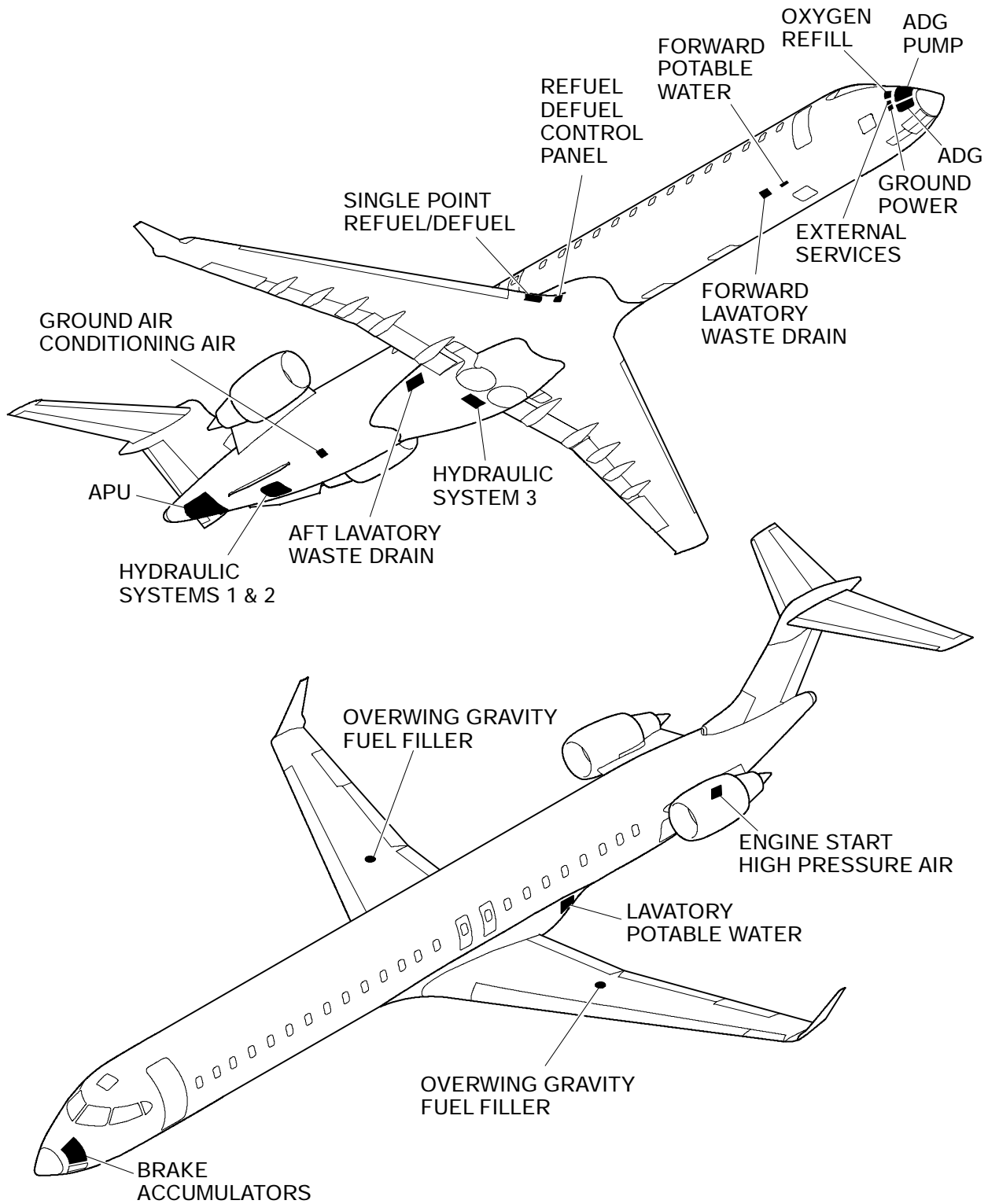


NOTE

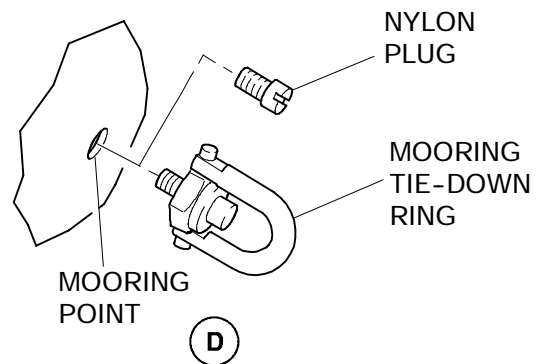
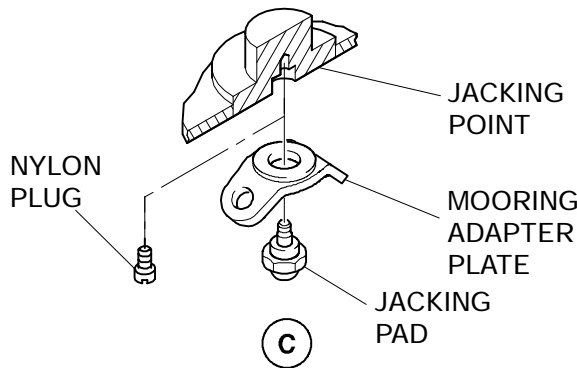
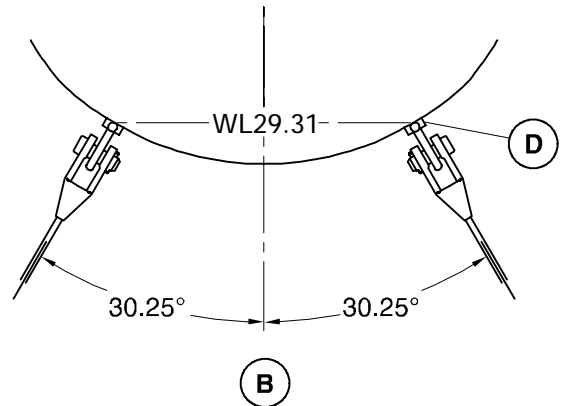
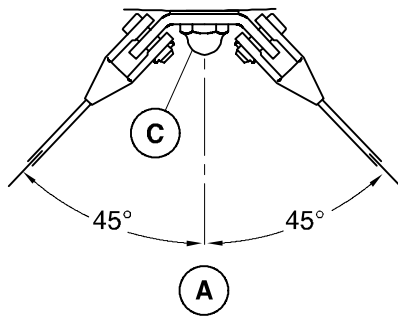
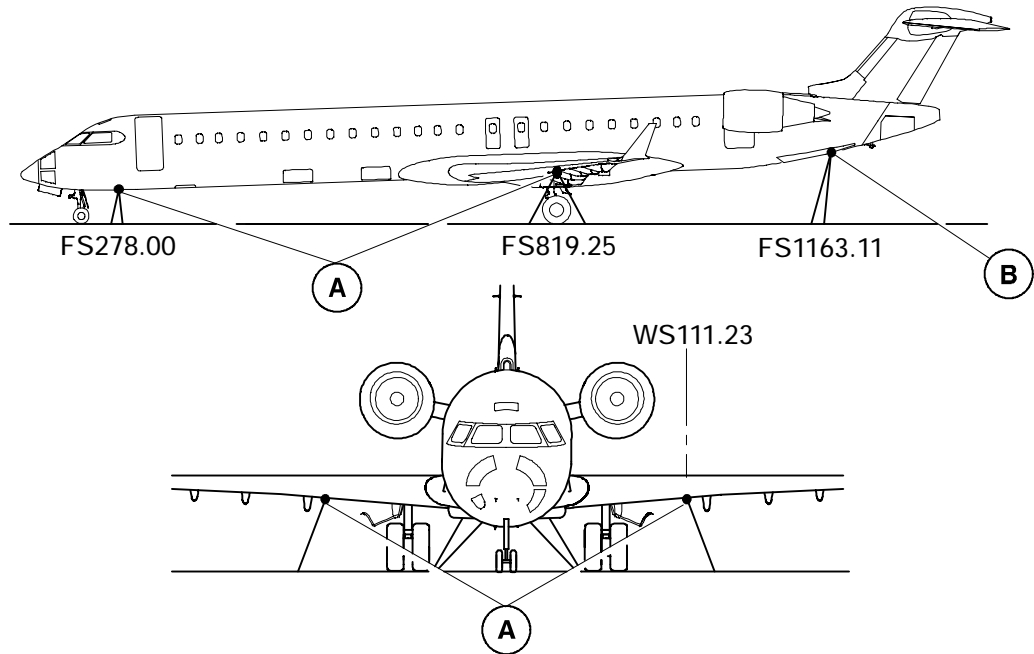
- Maximum steering
- Symmetrical and idle thrust
 - No differential braking
 - 80 degree steering angle
 - Slip of 3 degrees
 - Dry runway
 - Slow continuous turn
 - Maximum airplane weight
 - Aft center of gravity

TURNING RADII FOR VARIOUS NOSE WHEEL ANGLES												
ANGLE	R1		R2		R3		R4		R5		R6	
	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m
20°	147.13	44.85	163.55	49.85	166.24	50.67	197.18	60.10	167.93	51.19	177.70	54.16
30°	89.70	27.34	106.10	32.34	114.01	34.75	139.76	42.59	116.85	35.62	124.41	37.92
40°	59.11	18.02	75.53	23.02	88.91	27.10	109.30	33.31	92.75	28.27	97.98	29.86
50°	39.15	11.93	55.57	16.94	74.77	22.79	89.49	27.27	79.45	24.22	82.29	25.08
60°	24.32	7.41	40.74	12.42	66.27	20.20	74.85	22.81	71.61	21.83	72.02	21.95
70°	12.24	3.73	28.65	8.73	61.17	18.64	63.00	19.20	66.99	20.42	64.96	19.80
80°	4.69	1.43	21.10	6.43	59.05	18.00	54.84	16.71	65.08	19.84	61.35	18.70

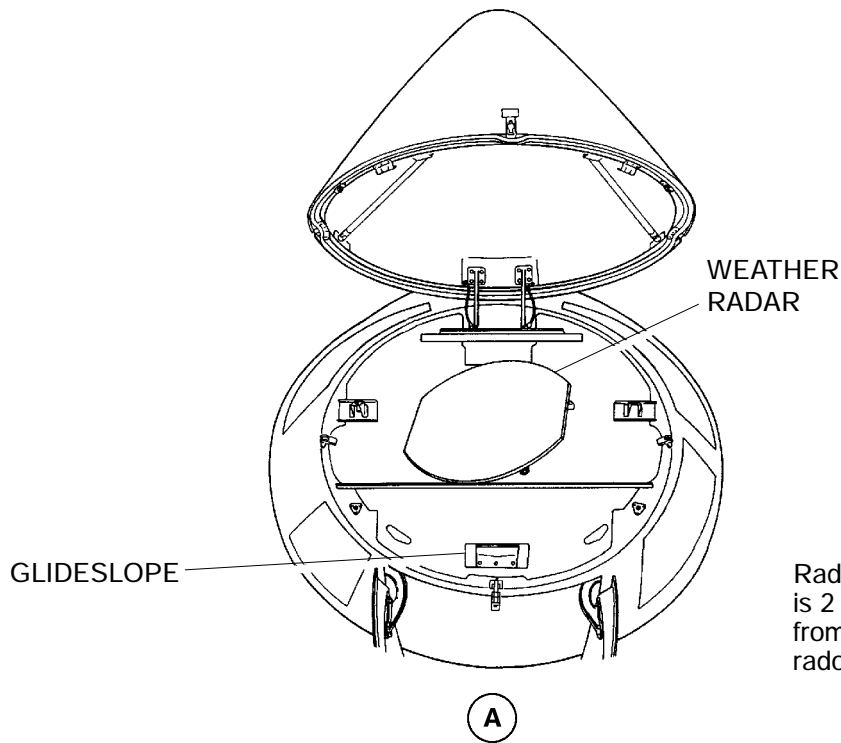
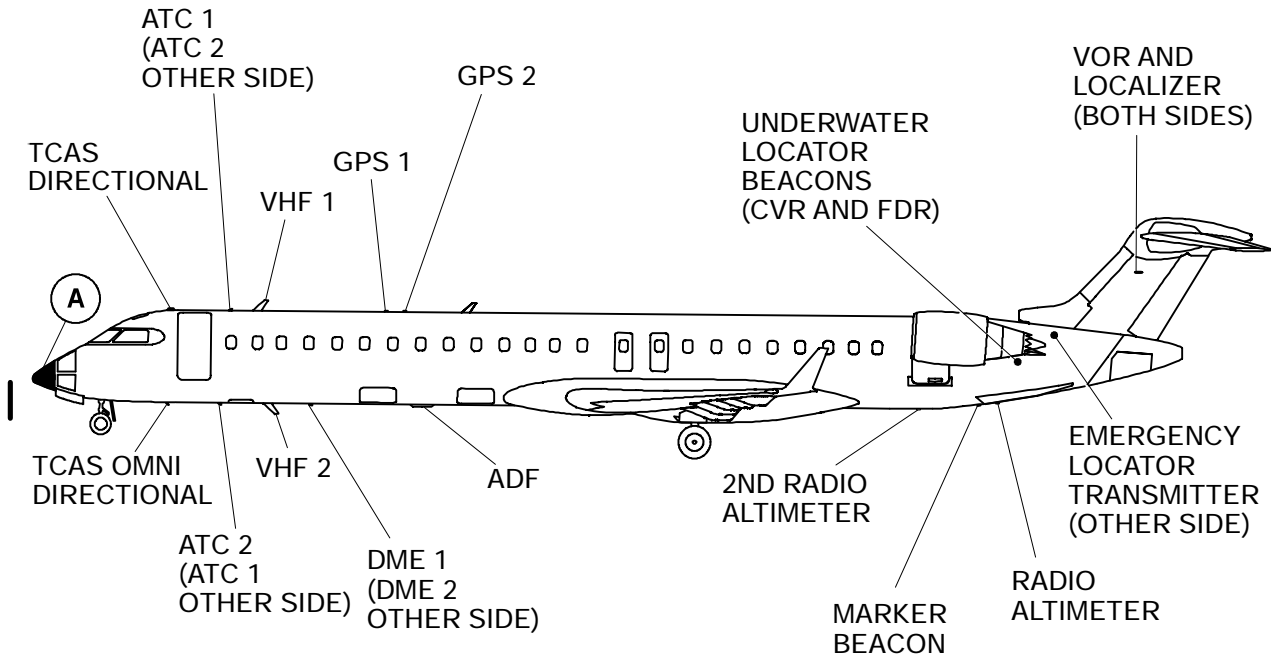
Taxiing and Turning Radii
Figure 01-20-3



Airplane Service Points <2224>
Figure 01-20-4

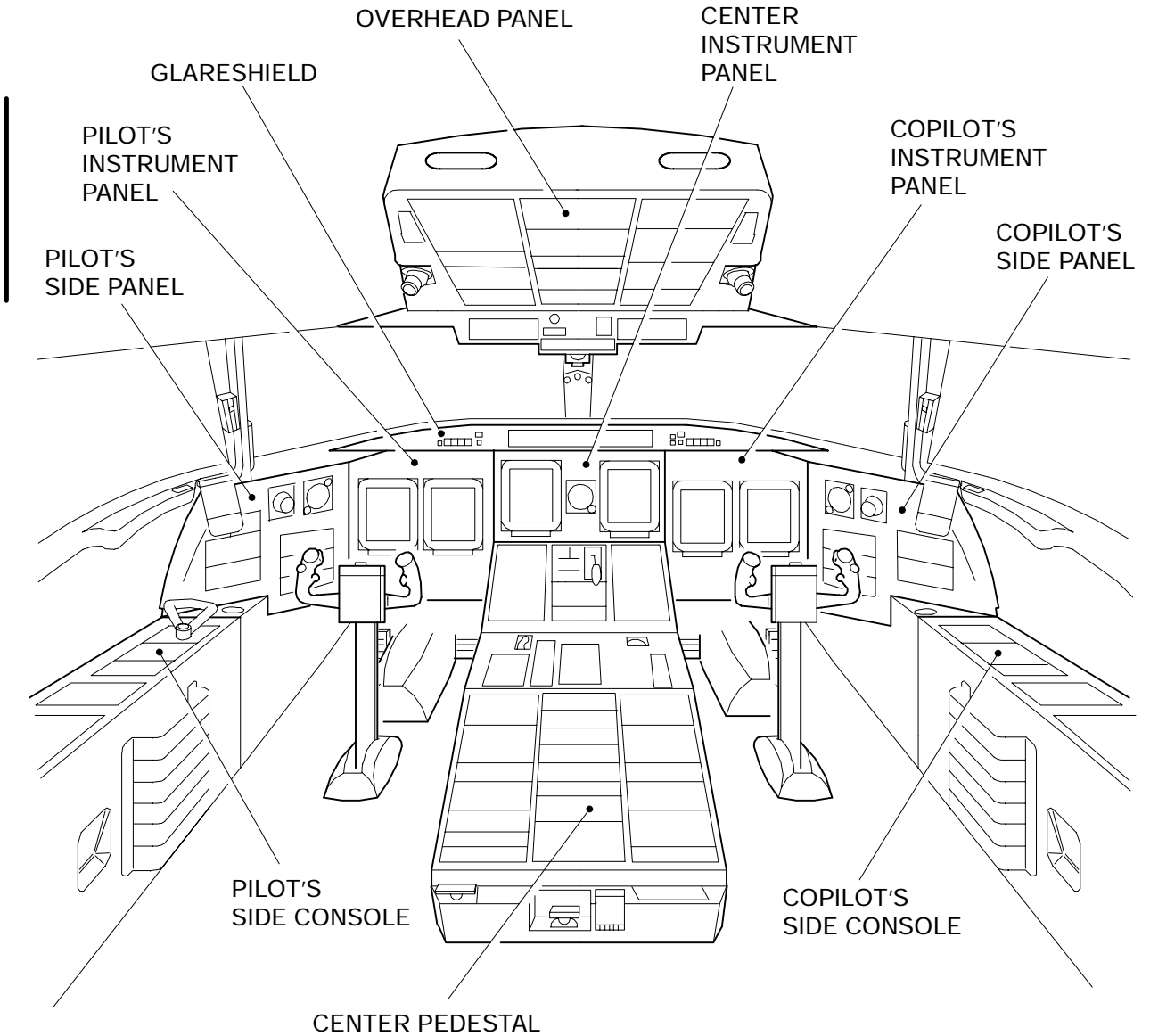


Airplane Mooring Points
Figure 01-20-5

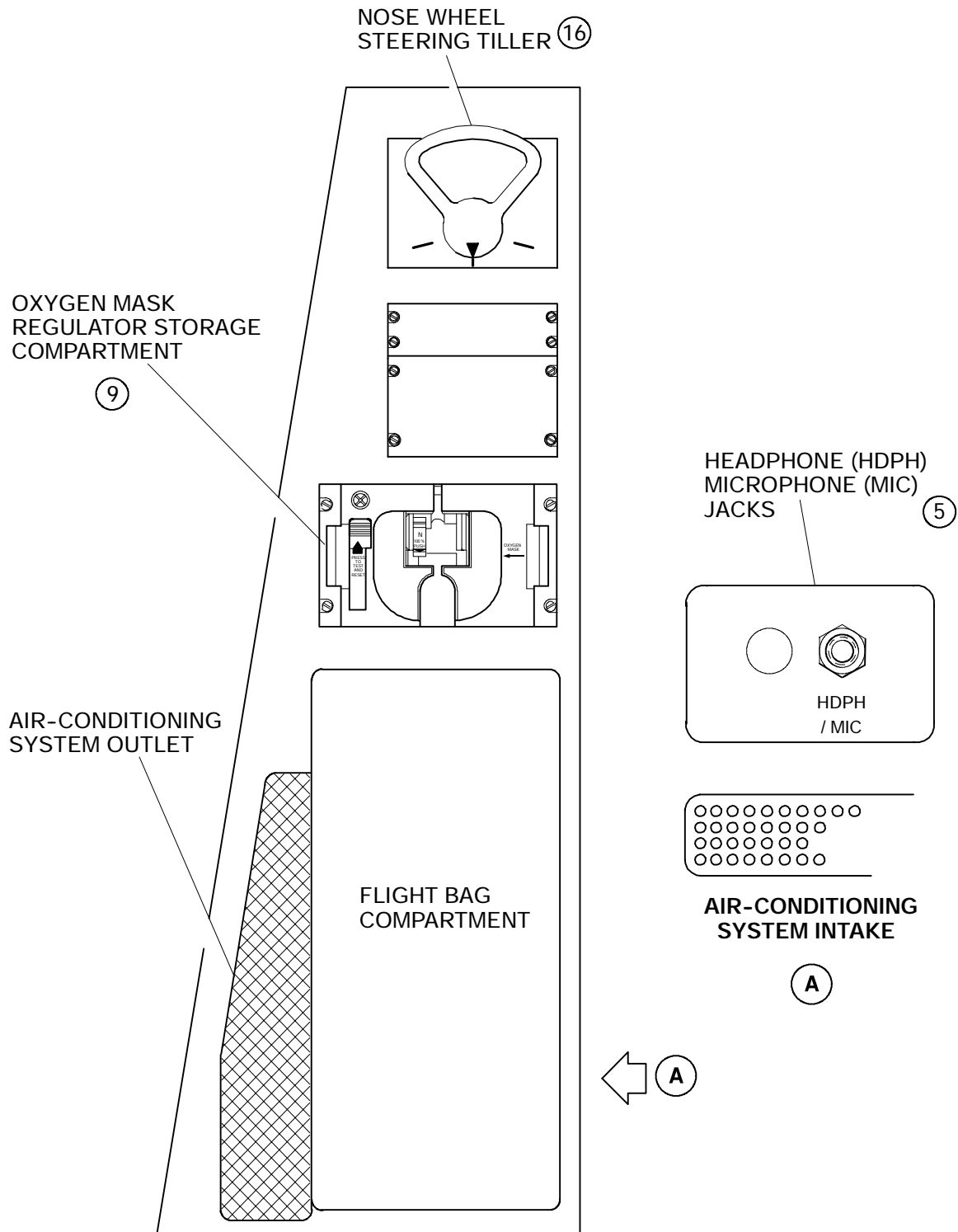


NOTE
Radar hazard area is 2 ft (0.6 m) from antenna with radome closed.

Airplane Antenna Locations <1045, 1027,1212>
Figure 01-20-6

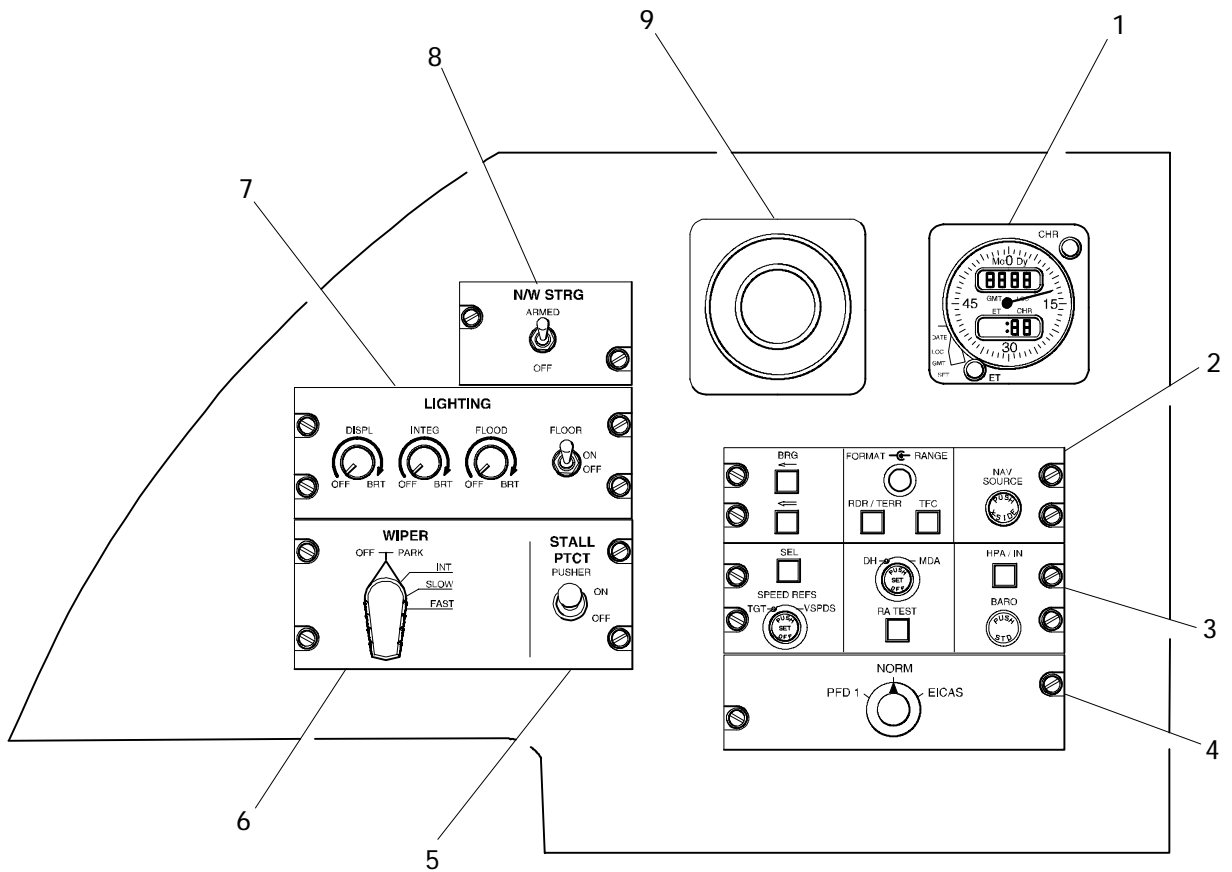


Flight Compartment Panel Layout
Figure 01-30-1



○ Indicates Chapter in which information on item may be found.

Pilot's Side Console <1205>
Figure 01-30-2

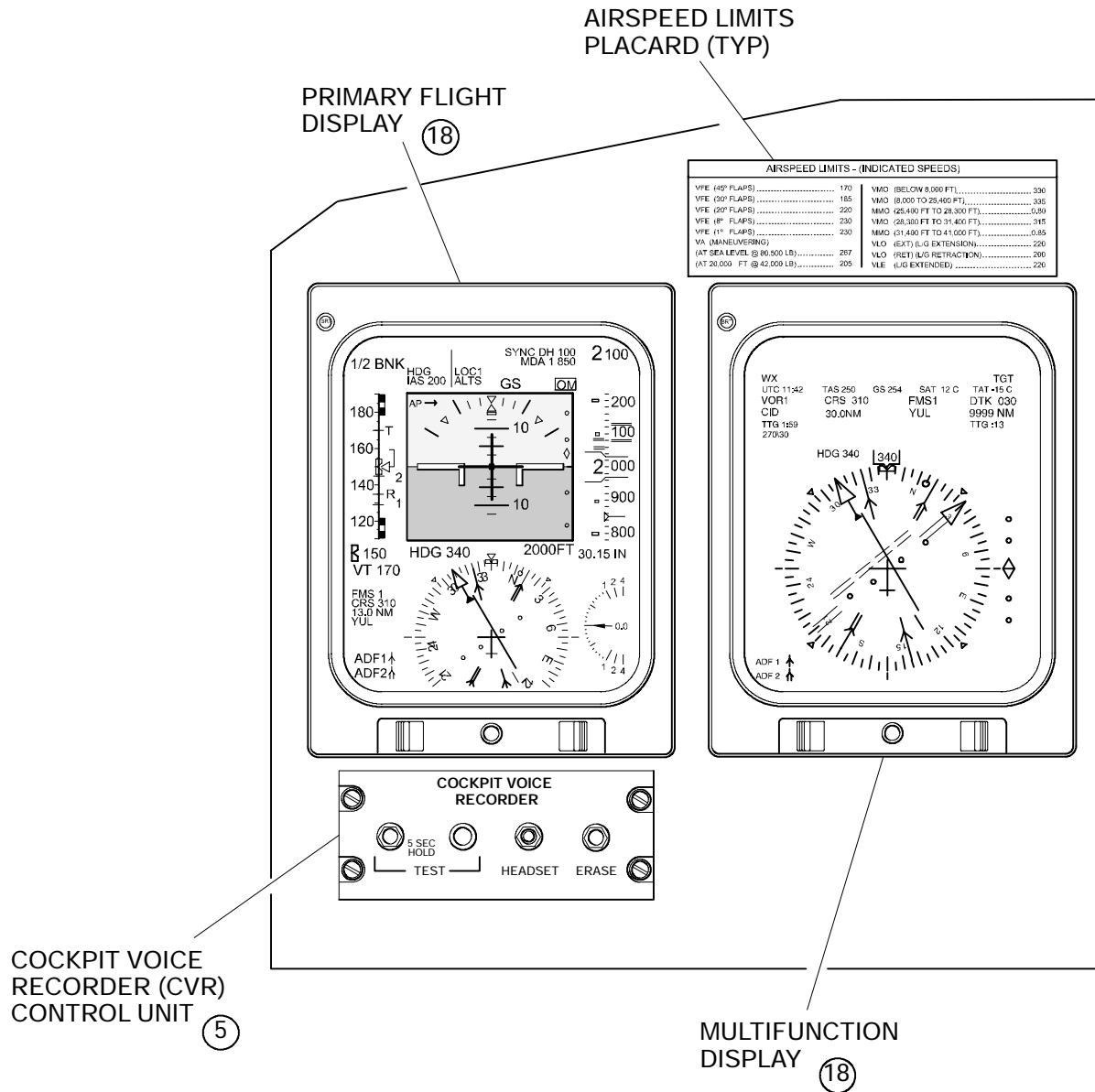


LEGEND

- | | |
|---------------------------------------|---|
| 1. Clock. (12) | 6. Windshield wiper control panel. (15) |
| 2. Display control panel. (12, 18) | 7. Lighting panel. (17) |
| 3. Air data reference panel. (12, 18) | 8. Nose wheel steering subpanel. (16) |
| 4. Display reversionary panel. (2) | 9. Air conditioning system gasper. (8) |
| 5. Stall protection panel. (11) | |

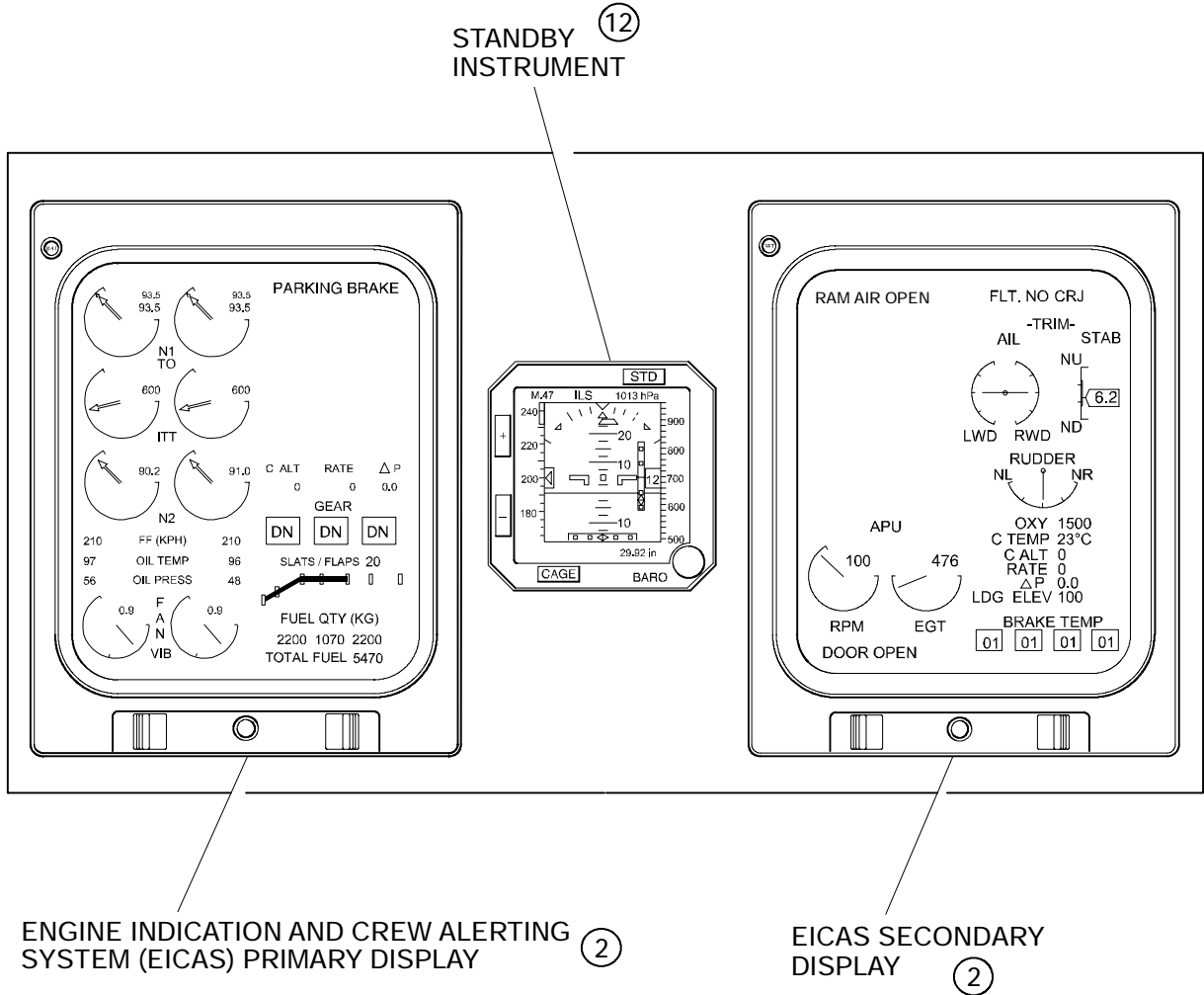
○ Indicates Chapter in which information on item may be found.

Pilot's Side Panel <2040>
Figure 01-30-3



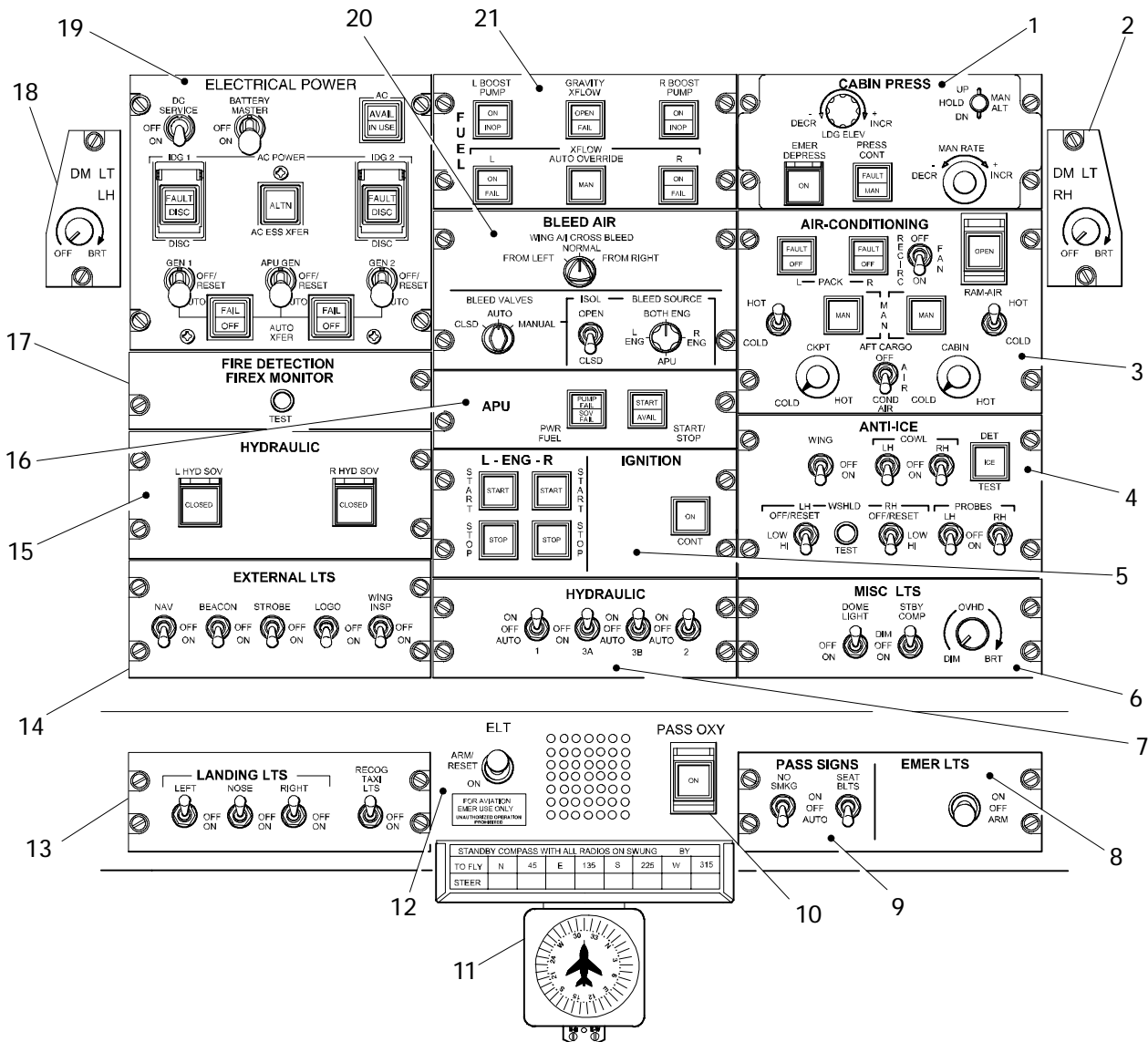
○ Indicates chapter in which information on item may be found.

Pilot's Instrument Panel <1015, 2217>
Figure 01-30-4



○ Indicates Chapter in which information on item may be found.

Centre Instrument Panel <1001>
Figure 01-30-5

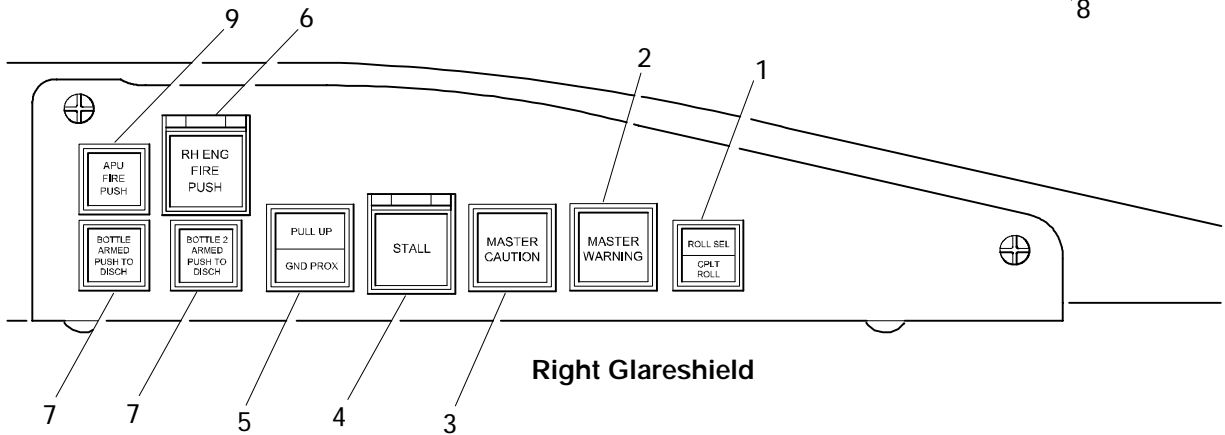
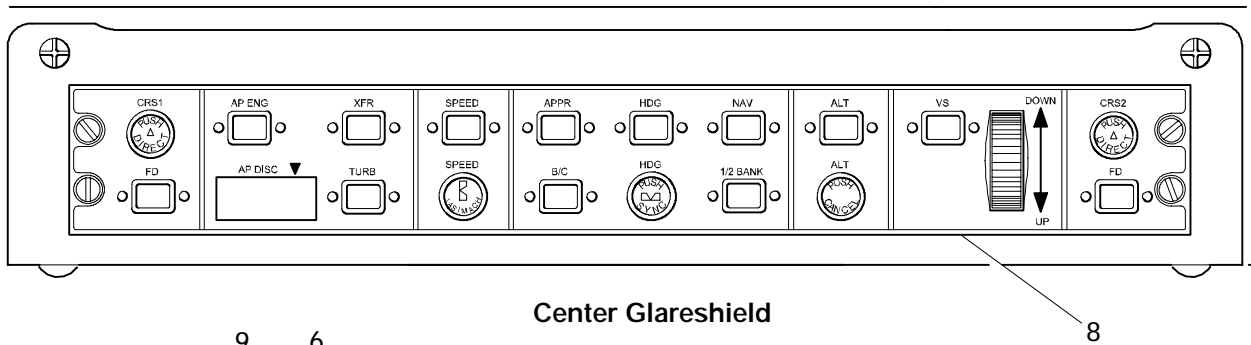
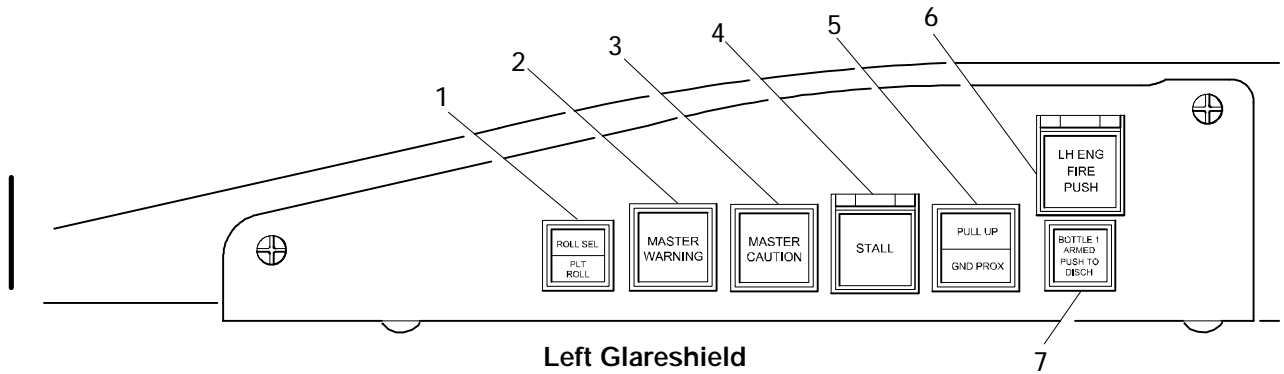


LEGEND

- 1. Cabin pressurization panel. (8)
- 2. Copilot's dome light control. (17)
- 3. Air-conditioning panel. (8)
- 4. Anti-ice panel. (15)
- 5. Engine / ignition panel. (20)
- 6. Miscellaneous lights panel. (17)
- 7. Hydraulic pump panel. (14)
- 8. Emergency lights panel. (17)
- 9. Passenger signs panel. (1)
- 10. Passenger oxygen control. (9)
- 11. Standby compass. (12)
- 12. Emergency locator transmitter control. (9)
- 13. Landing lights panel. (17)
- 14. External lights panel. (17)
- 15. Hydraulic shutoff panel. (14)
- 16. APU panel. (4)
- 17. Fire detection / FIREX monitor panel. (10)
- 18. Pilot's dome light control. (17)
- 19. Electrical panel. (7)
- 20. Bleed air panel. (19)
- 21. Fuel panel. (13)

○ Indicates Chapter in which information on item may be found.

Overhead Panel <1020><1201>
Figure 01-30-6

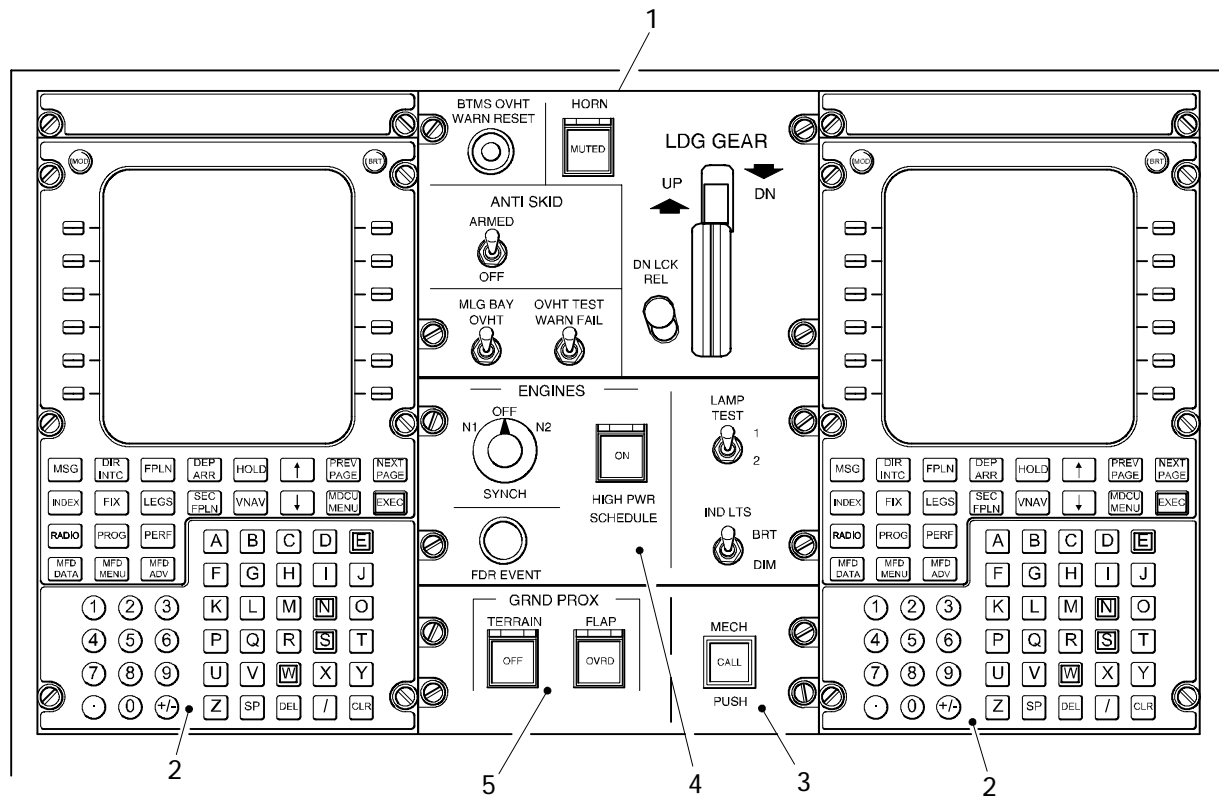


LEGEND

- 1. Roll select. (11)
- 2. Master warning. (2) (2)
- 3. Master caution. (11) (2)
- 4. Stall warning. (11)
- 5. GPWS and glideslope warning. (18)
- 6. Engine fire warning. (10)
- 7. Firex bottle discharge. (10)
- 8. Flight control panel. (3)
- 9. APU fire warning. (10)

○ Indicates chapter in which information on item may be found.

Glareshield <2040>
Figure 01-30-7

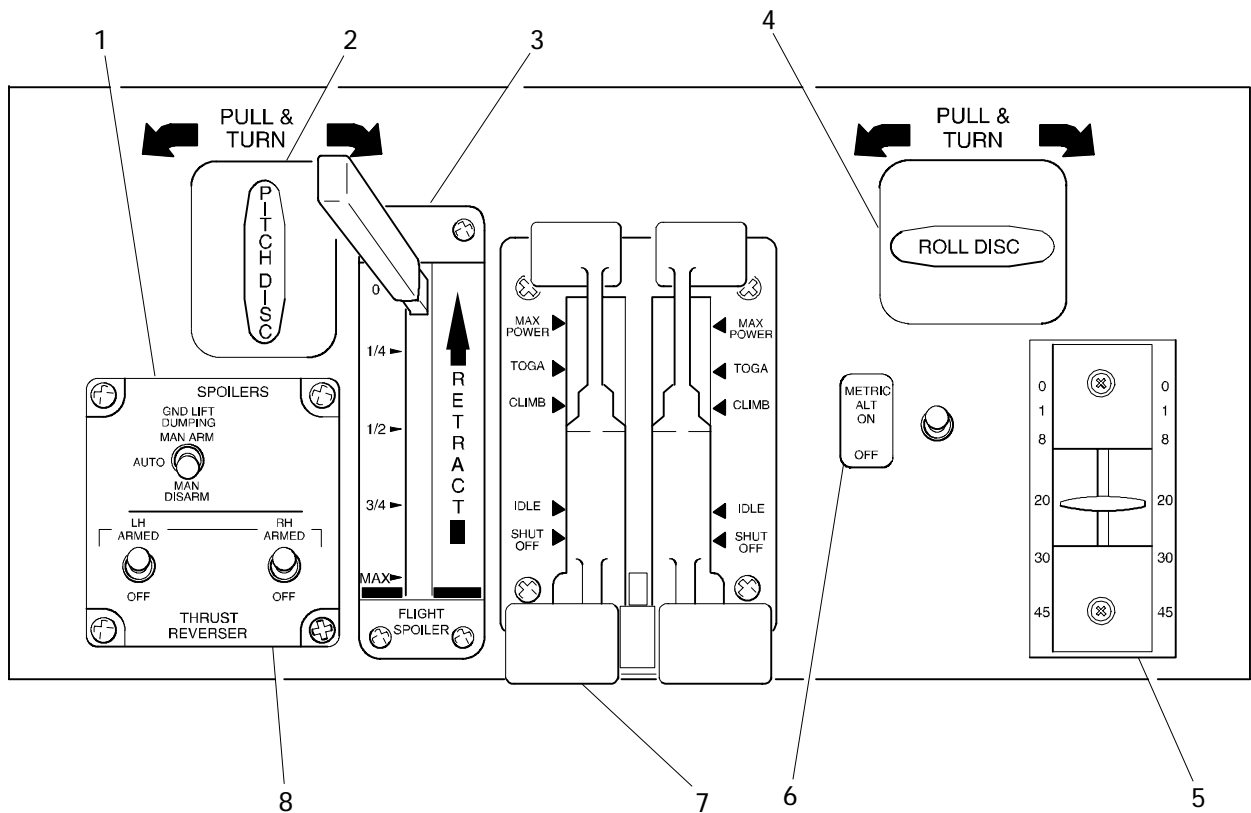


LEGEND

- 1. Landing gear control panel. (16)
- 2. Flight management system control display unit. (18)
- 3. Interphone panel. (5)
- 4. Engine / miscellaneous test panel. (20) (2) (17)
- 5. Ground proximity warning panel. (18)

○ Indicates Chapter in which information on item may be found.

Centre Pedestal (Upper) <2040, 1214>
Figure 01-30-8

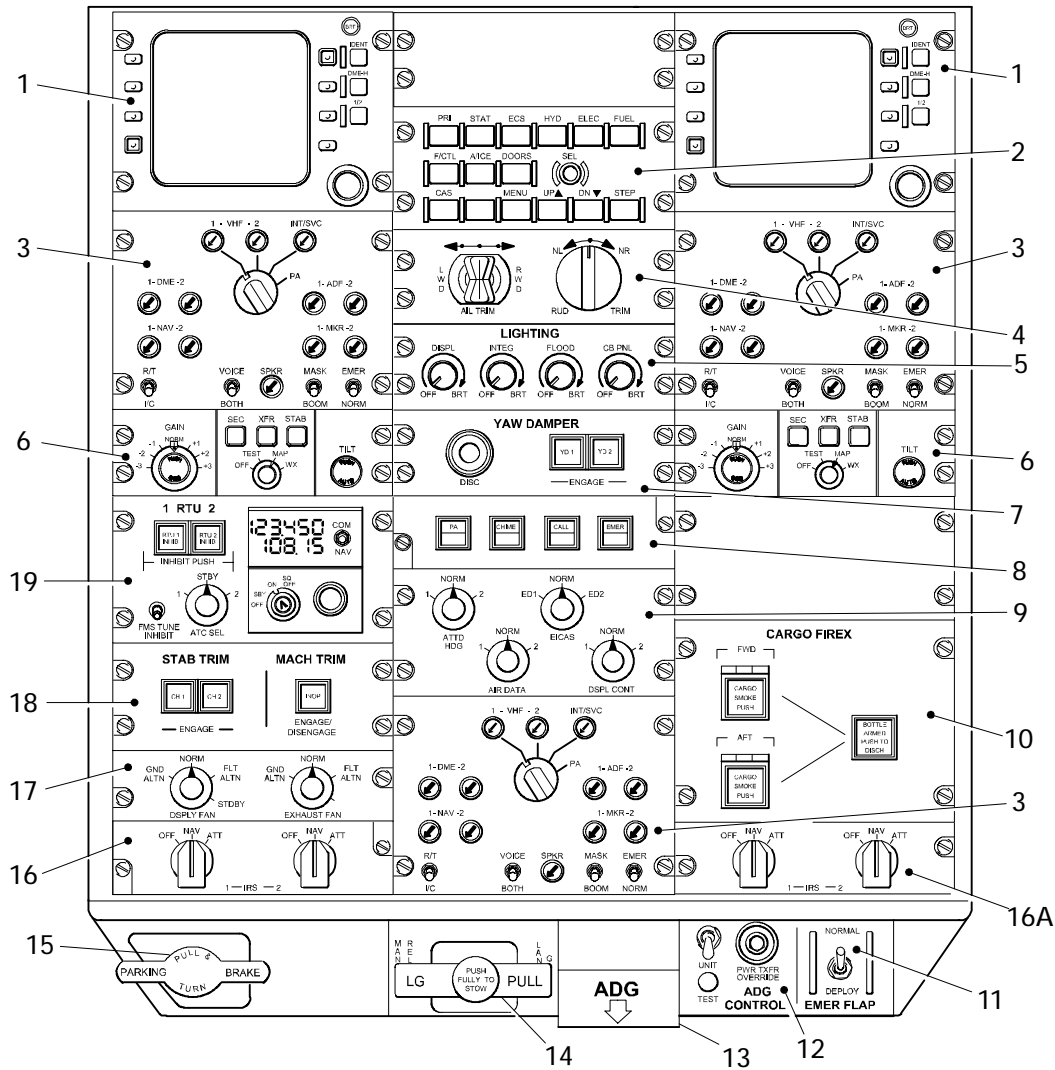


LEGEND

- 1. Spoilers system control subpanel. (11)
- 2. Pitch disconnect control. (11)
- 3. Flight spoiler lever. (11)
- 4. Roll disconnect control. (11)
- 5. Slat/ flap lever (11)
- 6. Metric altimeter subpanel. (12)
- 7. Thrust lever quadrant. (20)
- 8. Thrust reverser subpanel. (20)

○ Indicates Chapter in which information on item may be found.

Center Pedestal – Thrust Lever and Flight Controls <1029, 2040>
Figure 01-30-9



LEGEND

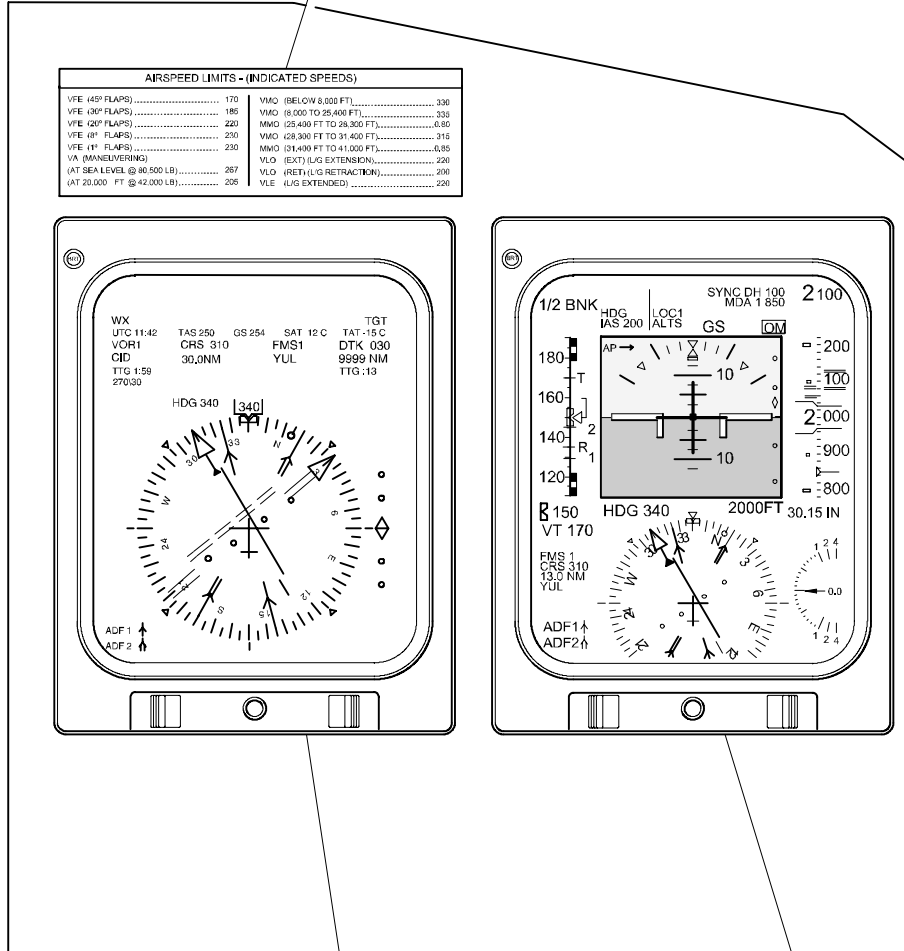
- | | |
|--------------------------------------|--|
| 1. Radio tuning unit. (5) (18) | 11. Emergency flap deploy control. (11) |
| 2. EICAS control panel. (2) | 12. Air driven generator - auto-deploy panel. (7) |
| 3. Audio control panel. (5) (18) | 13. Air driven generator - manual deploy handle. (7) |
| 4. Aileron/rudder trim panel. (11) | 14. Landing gear - manual release handle. (16) |
| 5. Lighting panel. (17) | 15. Parking brake handle. (16) |
| 6. Weather radar control panel. (18) | 16. Compass control panel (on both sides). (12) |
| 7. Yaw damper panel. (11) | 16A. <1025> IRS mode select unit. (12) |
| 8. Interphone control panel. (5) | 17. Avionics cooling control panel. (8) |
| 9. Source selector panel. (2) (12) | 18. Stabilizer/Mach trim panel. (11) |
| 10. Cargo firex panel. (10) | 19. Backup tuning unit. (5) |

○ Indicates Chapter in which information on item may be found.

**Centre Pedestal (Lower) <1012, 1025,>
Figure 01-30-10**

**AIRSPEED LIMITS
PLACARD (TYPICAL)**

(18)

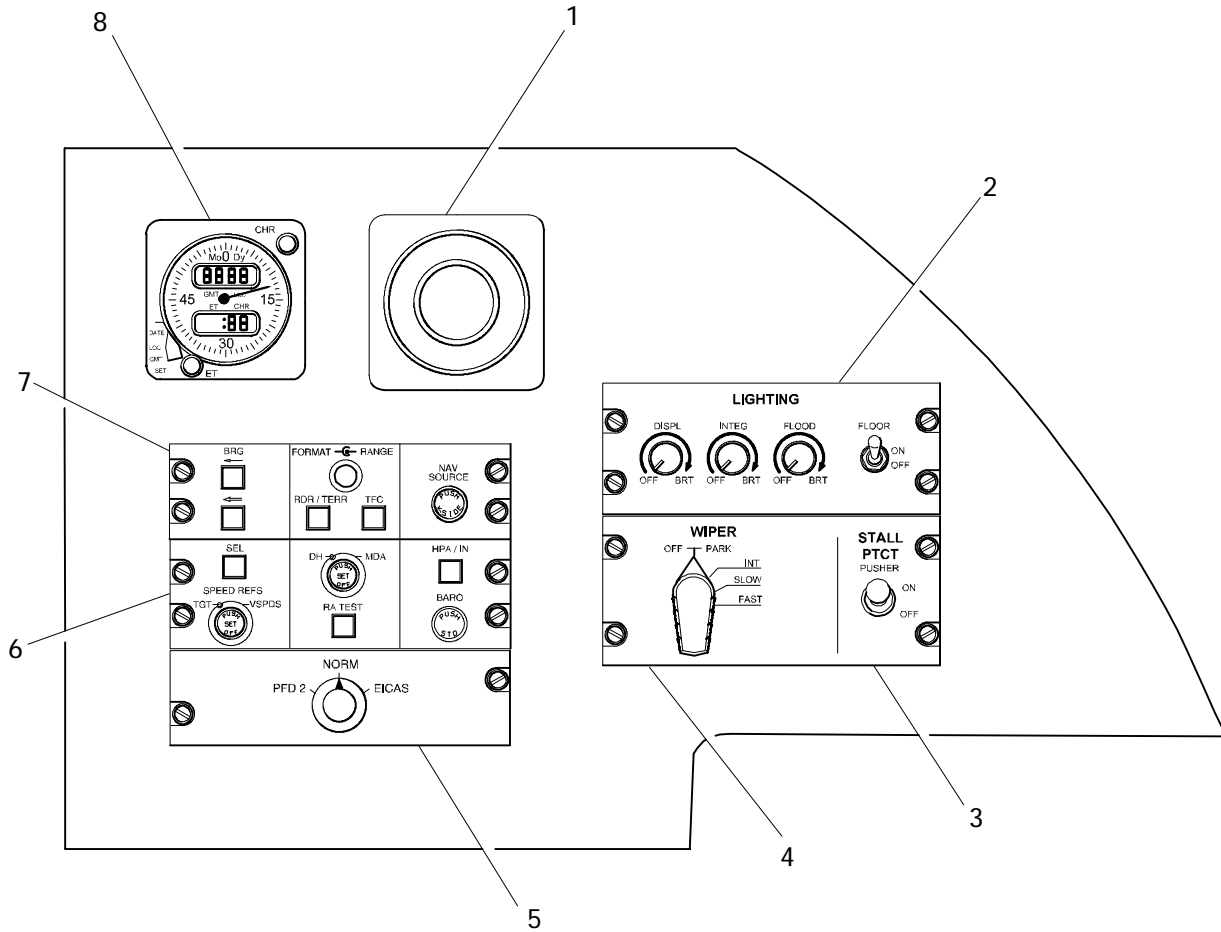


**MULTIFUNCTION
DISPLAY (18)**

**PRIMARY FLIGHT
DISPLAY (18)**

○ Indicates Chapter in which information on item may be found.

**Copilot's Instrument Panel <1015, 2217>
Figure 01-30-11**

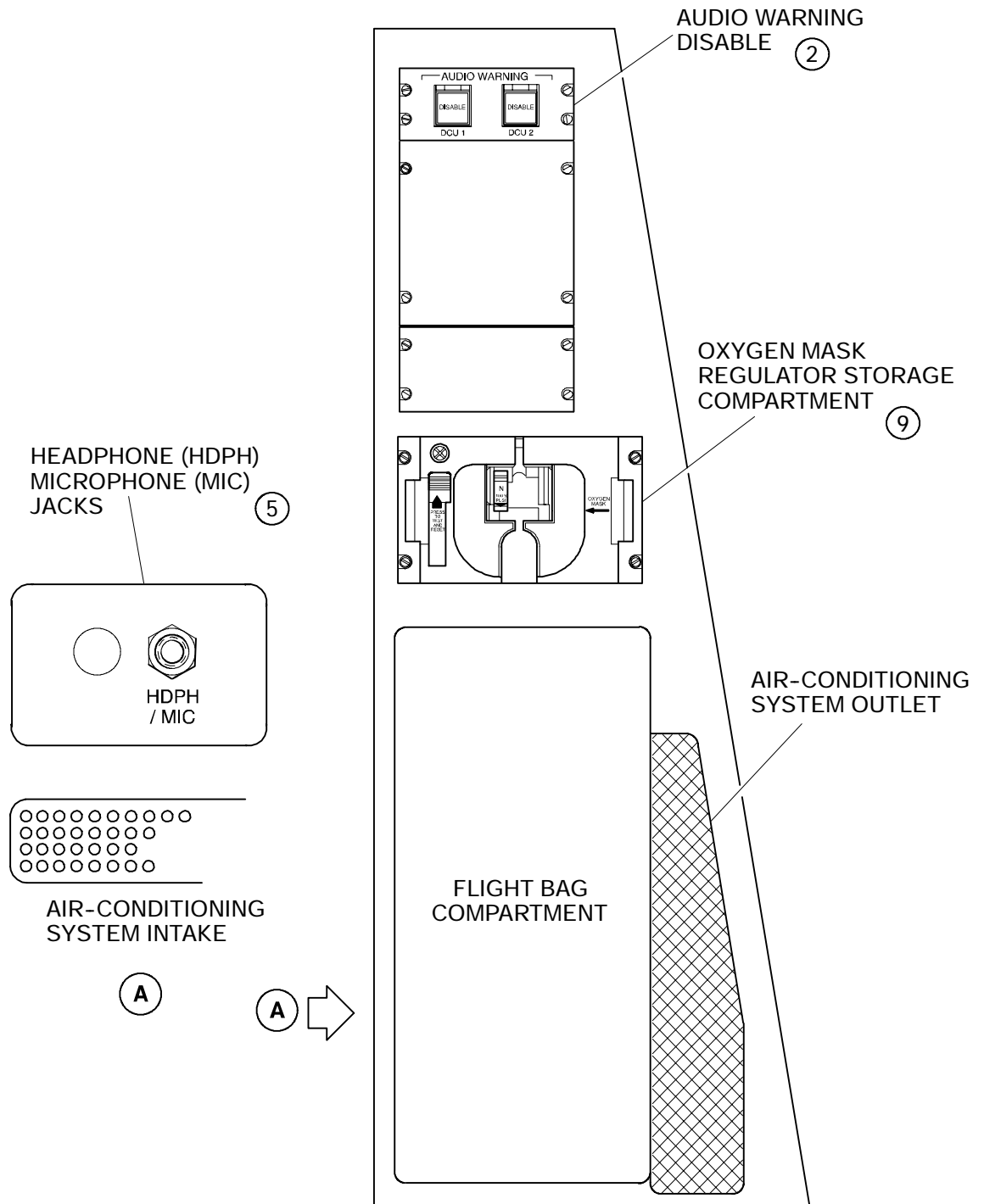


LEGEND

- 1. Air conditioning system gasper. (8)
- 2. Lighting panel. (17)
- 3. Stall protection panel. (11)
- 4. Windshield wiper control panel. (15)
- 5. Display reversionary panel. (2)
- 6. Air data reference panel. (12)(18)
- 7. Display control panel. (12)(18)
- 8. Clock. (12)

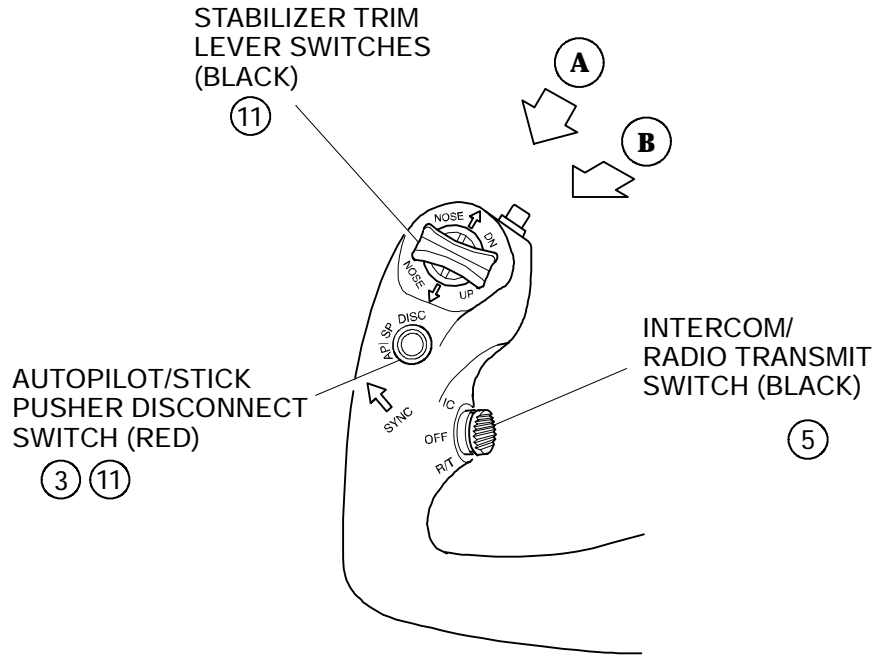
○ Indicates Chapter in which information on item may be found.

Copilot's Side Panel <2040>
Figure 01-30-12

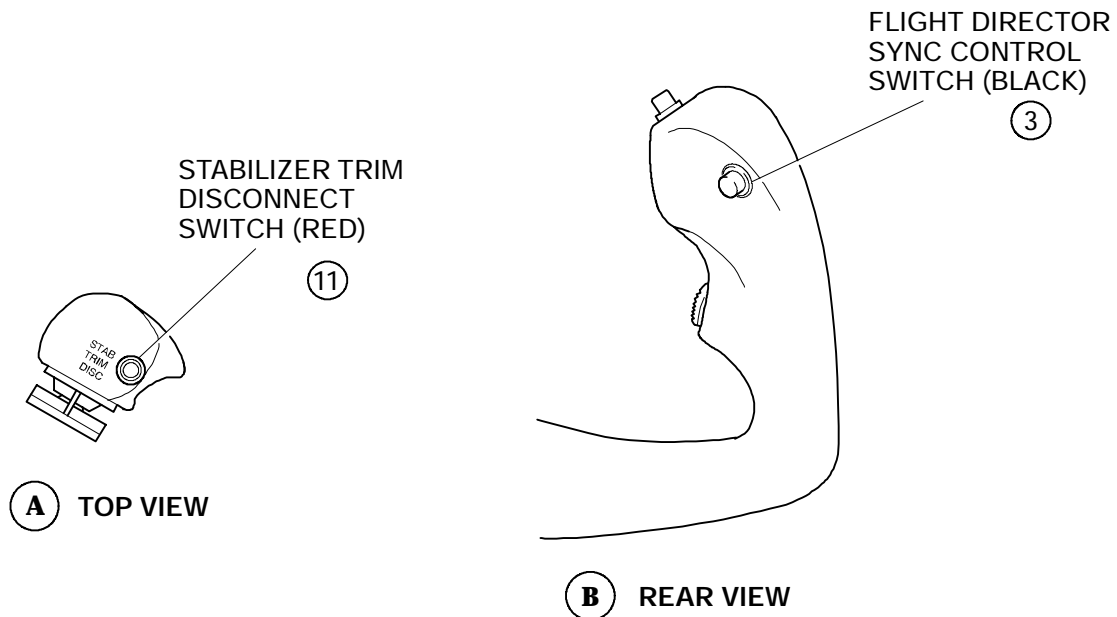


○ Indicates Chapter in which information on item may be found.

Copilot's Side Console <1205>
Figure 01-30-13



**Pilot's Control Wheel
(Copilot's Opposite)**



○ Indicates Chapter in which information on item may be found.

**Control Wheels
Figure 01-30-14**



1. **REINFORCED FLIGHT COMPARTMENT DOOR** <1226>

A. **General**

The reinforced flight compartment door is installed to enhance aircraft security. The door is used to protect the flight crew from ballistic threat and to prevent unauthorized access to the flight compartment. The door is made from Nomex core panels sandwiched in the middle with a bullet proof insert.

The door consists of:

- (1) Slide latch
- (2) Deadbolt assembly with key lock
- (3) Two quick-release hinge pins
- (4) Two decompression panels release latches
- (5) Cabin viewer
- (6) Strap handles

B. **Operation**

The slide latch is used to latch and unlatch the door

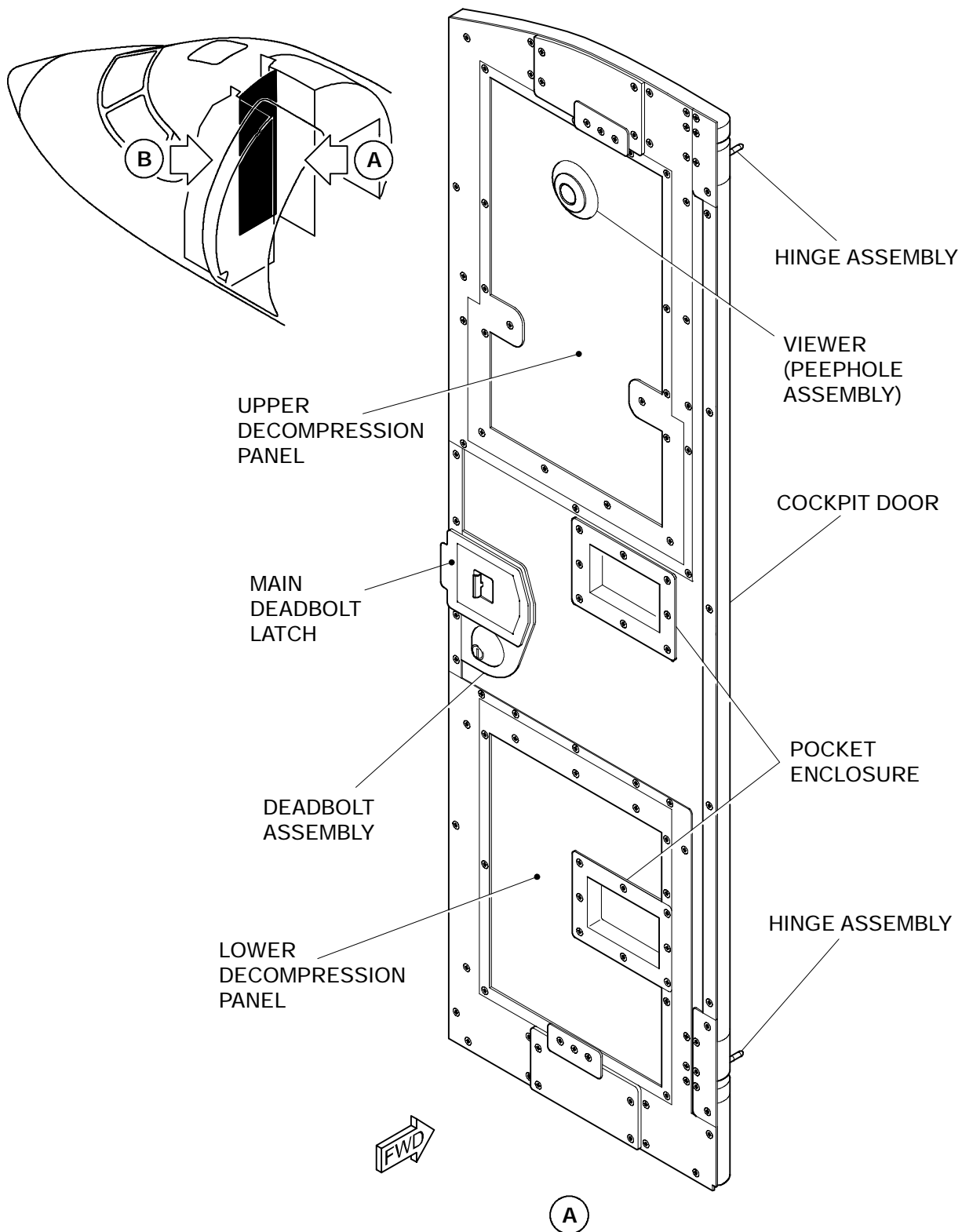
The deadbolt assembly is used to securely lock the door. To lock or unlock the door from inside the flight compartment, the deadbolt knob is manually rotated to engage the deadbolt pin into the flight compartment bulkhead. A key is required to lock or unlock the door from the passenger compartment.

The door is hinged to the galley bulkhead. The door opens towards the passenger compartment and can be held open with a door retainer on the galley wall. The two quick-release pins are used to remove the door from inside the flight compartment and the strap handles are used to lift the door out of the way.

The bullet proof viewer has two lenses to increase the magnification for field of view.

The decompression panels are hinged on the door and held closed by the pressure release latches. When the pressure differential between the passenger compartment and the flight compartment exceeds a preset limit, the latches release to allow both panels to open. This is done to equalize the pressure between the two compartments.

At any time during the flight, if one of the required flight crew leaves the flight compartment, another crew member must replace him/her in the flight compartment to ensure that the required crew member is not locked out of the flight compartment.



Reinforced Flight Compartment Door
Figure 01-30-15

C. Evacuation

If the latch has failed or if the door has jammed, the following steps are used to remove the door in an emergency

WARNING

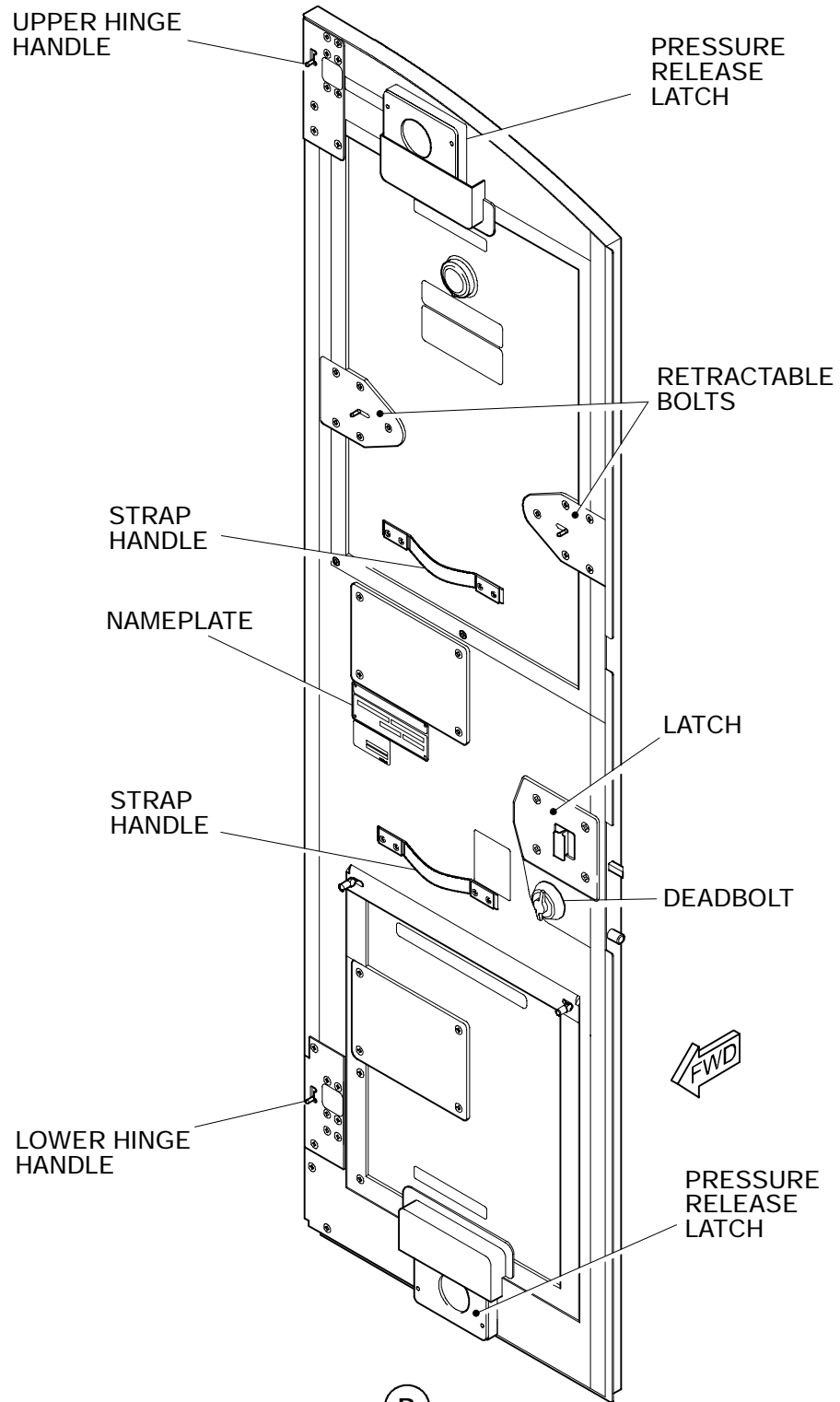
The lower door hinge pin must be released before the upper hinge pin. Failure to do so could result in the door suddenly coming disengaged from the hinges causing injury to persons.

From inside the flight compartment:

- (1) Unlock and lift lower hinge pin.
- (2) Unlock and pull down upper hinge pin.
- (3) Remove the door by forcibly pushing it out at the hinge side.
- (4) Rotate door clockwise and stow against the galley.

From the passenger compartment:

In the event that the flight crew becomes trapped in the flight compartment or becomes incapacitated, it has been demonstrated that rescue personnel can remove the door using normally available, non-powered, hand carried, rescue tools (e. g. , crowbar, axe, etc.).



B

Reinforced Flight Compartment Door – Placards
Figure 01-30-16