

----- NPSIMPANEL PANEL Bombardier CRJ700 DELUXE -----

PANEL FEATURES

MAIN

Realistic

EFIS screens for multi-monitor displays

Fire Detection

Warnings and caution messages

Multi Function Display including NAV, Plan, Rose, Terraan

AutoPilot control panel simulating almost all the features

FMS : MSG ,FPLN mode including DEP/ARR altitude restriction input,
Radio page, Perf page includes

Autoland system

OVERHEAD PANEL

Realistic

Battery and generators switches fully operative with corresponding action

APU startup/shutdown sequences fully simulated, with all the corresponding EICAS messages

Fuel Left -Center -Right Control ,XFEED

Bleed Air Panel

Hydraulics switches operative and their positions update the HYDRAULIC page

Anti-icing system

CONTROL PEDESTAL

Realistic

Rudder trim, Parking brakes lever, flaps and spoilers levers, Radio Audio, Transponder Panel. DSL,

3D Virtual Cockpit

Specifications



The Bombardier CRJ700, which entered service in 2001, is a stretched version of the CRJ100/200 regional jet, with seating capacity increased from 50 to 70. The CRJ (Canadair Regional Jet) family of aircraft was in turn derived from the Canadair Challenger business jet, which began its operational life as the LearStar 600. In addition to an increase in length and upgraded landing gear, the CRJ700 features a wing with a longer span and leading edge slats that add additional lift. Like other members of the CRJ family, the CRJ700 cockpit features an electronic flight instrument system (EFIS) avionics suite and "glass cockpit" instrumentation.

Specifications		
	U.S.	Metric
Cruise Speed	Mach 0.78 (515 knots/447 mph)	829 km/h
Engines	Two 12,670 lb thrust GE CF34-8C1 turbofans	
Maximum Range	1,702 nm	3,152 km
Service Ceiling	41,000 feet	12,497 meters
Fuel Capacity	3,036 U.S. gallons	11,488 liters
Empty Weight - HGW	43,200 pounds	19,595 kilograms
Maximum Gross Weight	72,500 pounds	32,885 kilograms
Length	106 feet, 8 inches	32.5 meters
Wingspan	76.3 feet	23.2 meters
Height	24 feet, 10 inches	7.6 meters
Seating	70	
Useful Load	18,800 pounds	8,527 kilograms

MAIN PANEL COMPONENTS



1. Annunciator Panel
2. Cronometer
3. EFIS Control Panel
4. Flight Control Unit FCU
5. Primary Flight Display PFD
6. Map Navigation Display MND
7. Engine Display
8. System Display ECAM
9. PFD Backup
10. Gear Panel
11. PANEL SWITCHERS (click)
12. Wiper Selector (click)
13. Compass

ANNUNCIATOR / FCU



Annunciator Panel

1. Master Warning
2. Master Caution
3. Stall
4. Pull Up
5. Left Engine Fire

Auto Climb Switch makes aotomat. Optimal speed , verticalspeed, and climb 220kt in 240kt until 10000 feed V/S 2000 f/min After 10000 feed automat FMC

Autoland Swith ALT,SpeedFL/50AUTO SPEED LANDING; AUTO FLAPS DOWN; AUTO BRAKES ON , SPEED BRAKE UP TAXI SPEED ON; Landing You have to active Switch nearly 14 NM before the Rnway Speed goes automat. Between 160-170 kt according to weight-airkraft Altitude Approach Runway or active APP button.after 2nm the gear goes automat. Down and laterthe flaps 5° speed is automat. Reduced 140-150 ALT APP between 9nm -7nm before App Flaps 10° 6nm flaps 20° , speed 155-135;3nm in 140, flaps full . in 100 feet before take on tur off Switch SPD ALT . after landing automat. activates the breaksystem and 100-110kt revers speed brake up. 20-30 kt shut all out and turn on TAXI SPEED now the plane can rolls to the terminal.



Autoland

FLIGHT Control Panel

1. Course Selection
2. Flight Director On/Off Switch
3. Autopilot Engage
4. Autopilot Disagage
5. GPS Switch
6. **Auto Climb Switch**
7. Autopilot SPD Switch
8. MACH Switch Speed Selection Knob
9. Appraoch Hold Switch
10. Back Course
11. Heading Hold Switch
12. Heading Selector Knob
13. LNAV
14. Bank 1/2 Switch
15. Altitude Hold Switch
16. Altitude Selection Knob Hold Aircraft Altitude
17. V/S Engage
18. V/S Selection Knob
19. Course Selection NAV 2
20. Flight Director On/Off Switch
21. Right Engine Fire

ONLY ACTIVE ILS and DME VOR 1 and VOR 2 ACTIVE per example ILS and DME should be the same in both of them- identical

EFIS / CLOCK



CLOCK

Cronometer button
Time / date switch
Elapsed time switch
RST switch

EFIS Control Panel

1. VORNAV 1
2. VORNAV 2
3. Range Selector
4. DetailTerrain Map
5. Toggles datatags (Off/Realistic/Detailed)
6. Panel DATA, WPT, Vor, Ndb, Airport
7. Decision Height Setting
8. Baro Reference
9. Mode Selector
10. Barometric Pressure Selector Knob. Toggle between selected Baro Setting and Standard fixed 29.92 In.Hg

PANEL SWITCHERS

1. Overhead Panel
2. Throttle Quadrant
3. Control Display Units
4. DSP

N1 SET – LDG GEAR



1. N1 SET Knob
2. Anti skid
3. Gear lever

PRIMARY FLIGHT DISPLAY

1. Flight Mode Annunciations

- SPD/MACH** - Speed
- HDG** - Maintains heading selected in MCP
- ALT HOLD** - Altitude hold mode.
- TO/GO** - Flight director is in takeoff mode
- TO/GA** - After Landing
- G/S** - Glideslope tracking mode.
- V/S** - Vertical speed mode.
- CLB** - Pushing the switch selects **Auto CLB** -SPD, pitch mode und Altitude mode
- VNAV** - Active Nav route
- LNAV** -Active route.

2. AFDS Engaged State

- FD** - Flight Director switch engaged while none of CMD
- CMD** - CMD button engaged; the aircraft is controlled by autopilot.

3. Flight Director Indicator Flight Director switch engaged

4. Airspeed Indicator

Command Speed -Speed Displays speed selected on Mode Control

5. Altitude Indicator Displays current barometric altitude.

6. Radio height, Current Radio Height above ground. Blank when above 2500 feet AGL.

7. Baro - Displays selected Baro setting or STD, as selected on EFIS panel.

8. Vertical Speed Shows Vertical Speed when over +/-500 FPM.

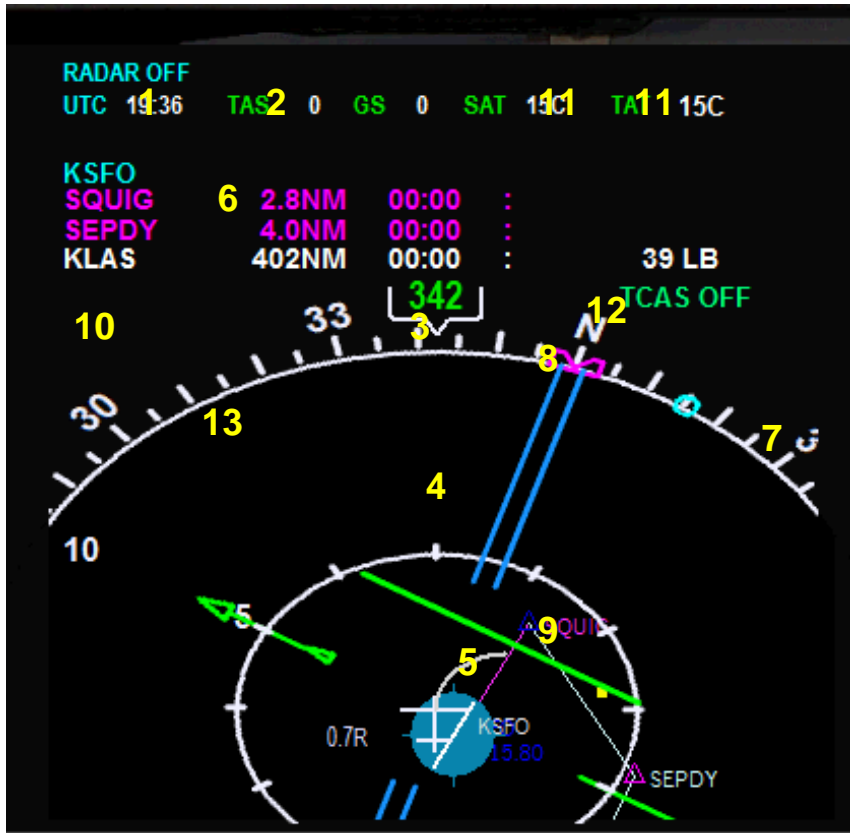
9. Heading Indicator Current Heading Existing aircraft heading.

10. Decision Height Displays Decision Height RADIO or BAROmetric selected on EFIS panel.

11. NAV FMS

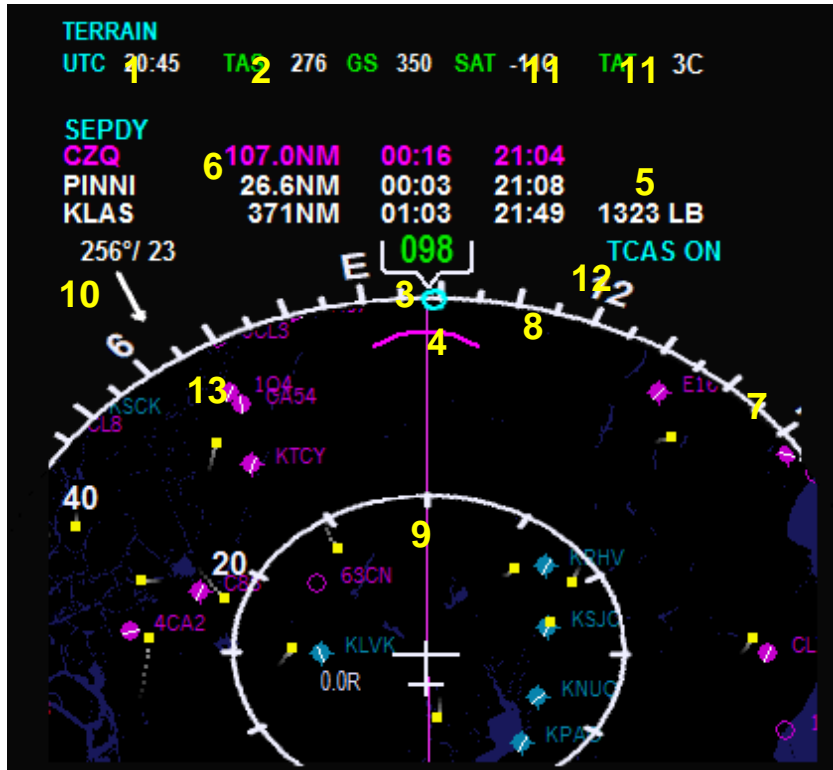


NAVIGATION DISPLAY ARC MODE



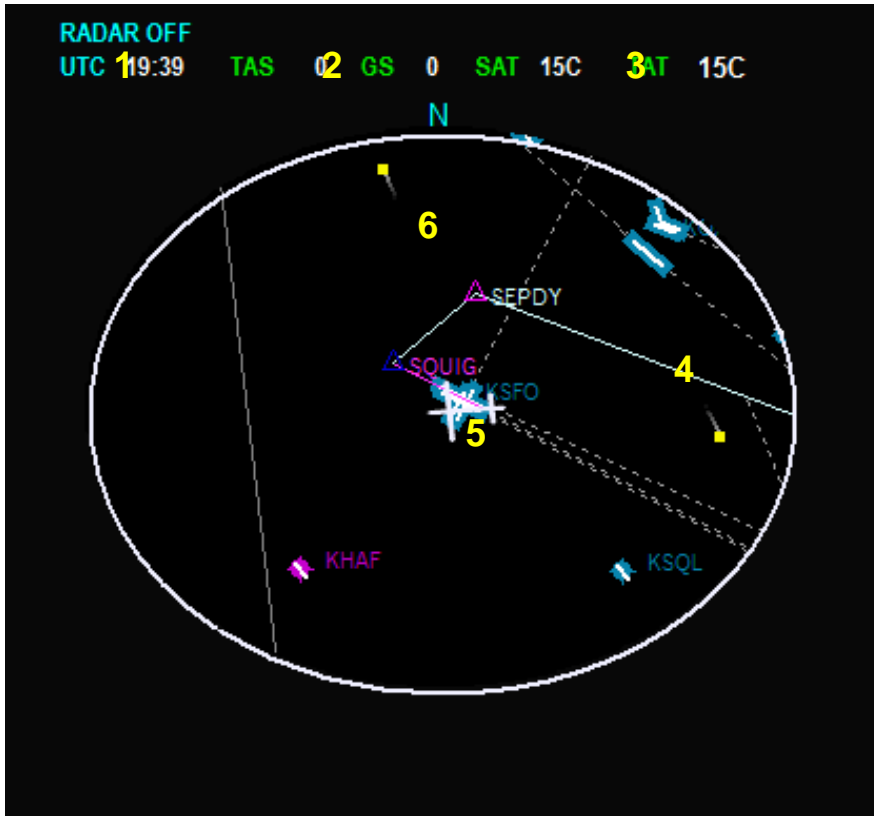
1. Clock
2. Groundspeed / True Airspeed
3. Heading Pointer
4. Altitude range
5. Trend Vector
6. Active Waypoint/ETA/Distance-To-Go
7. Compass Rose
8. Selected Heading Bug
9. Active LNAV Route
10. Wind Direction/Speed/Arrow
11. Temperatur

NAVIGATION DISPLAY ACTIVE FPL



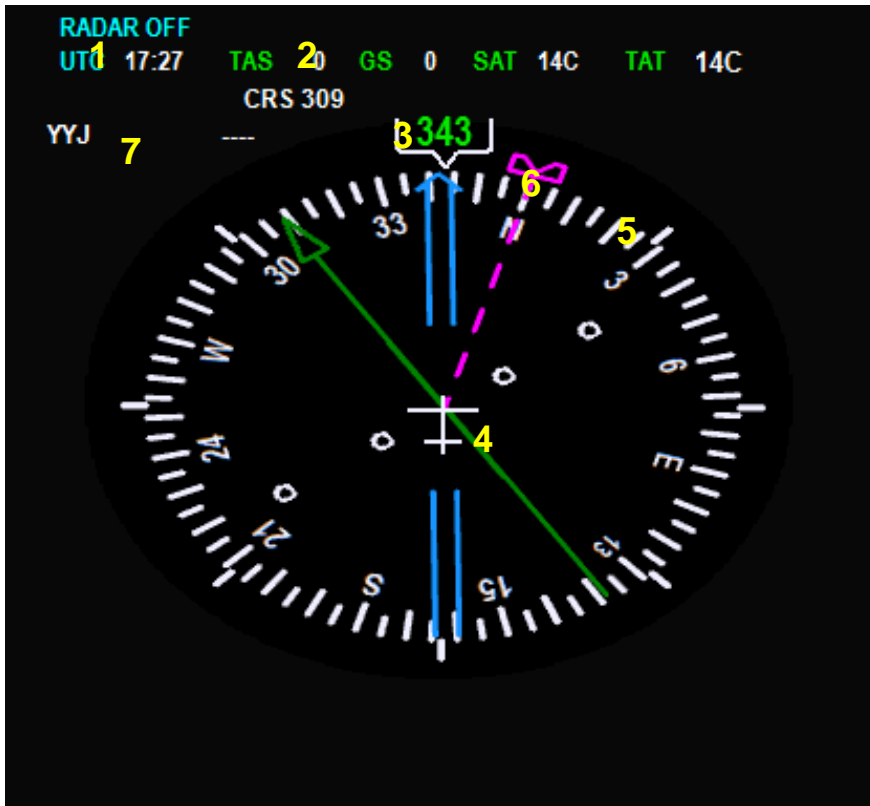
1. Clock
2. Groundspeed / True Airspeed
3. Heading Pointer
4. Altitude range
5. Fuel
6. Active Waypoint/ETA/Distance-To-Go
7. Compass Rose
8. Selected Heading Bug
9. Active LNAV Route
10. Wind Direction/Speed/Arrow
11. Temperatur

ND DISPLAY PLAN MODE



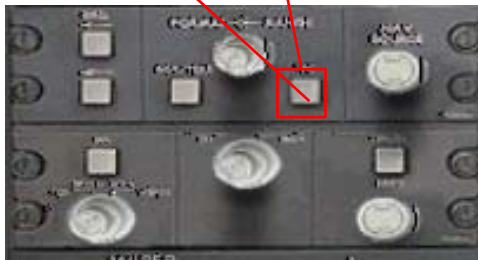
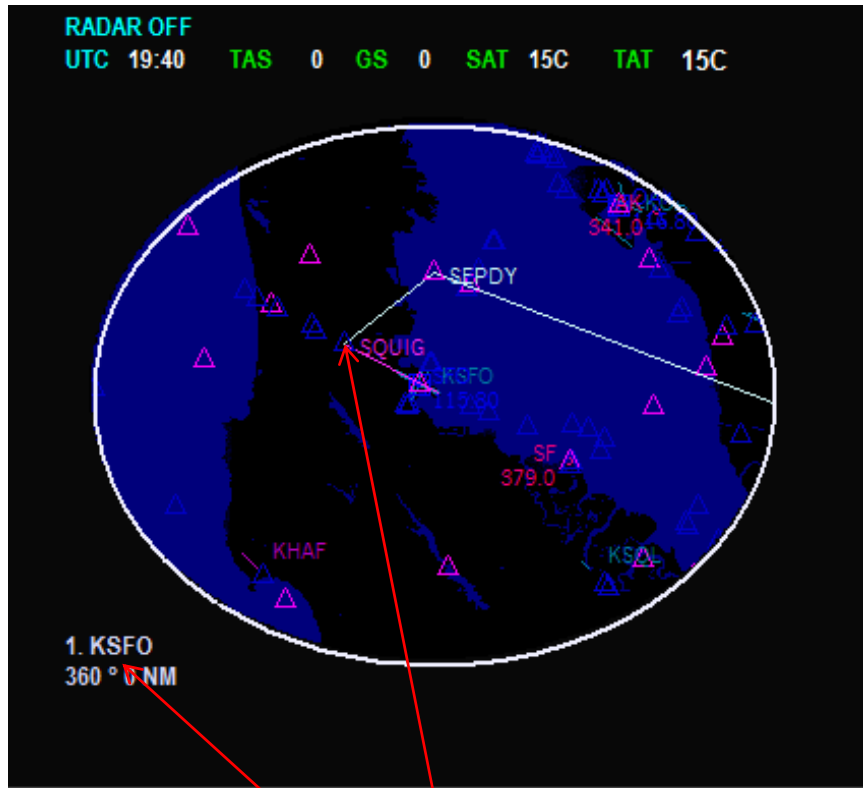
1. Clock
2. Groundspeed / True Airspeed
3. Temperatur
4. Active LNAV Route
5. Airplane Symbol

NAVIGATION DISPLAY ROSE



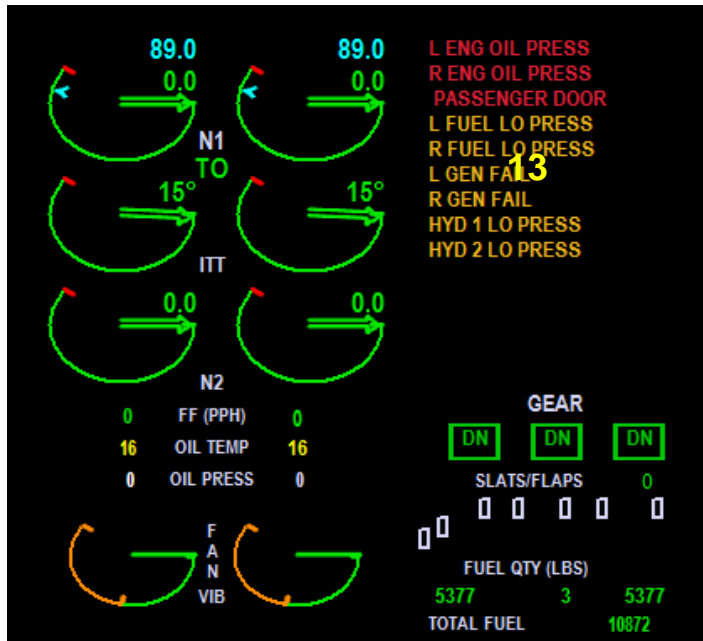
1. Clock
2. Groundspeed / True Airspeed
3. Heading Pointer
4. Airplane Symbol
5. Compass Rose
6. Selected Heading Bug
7. Ident/Frequency, VOR DME

DISPLAY FPL SELECT

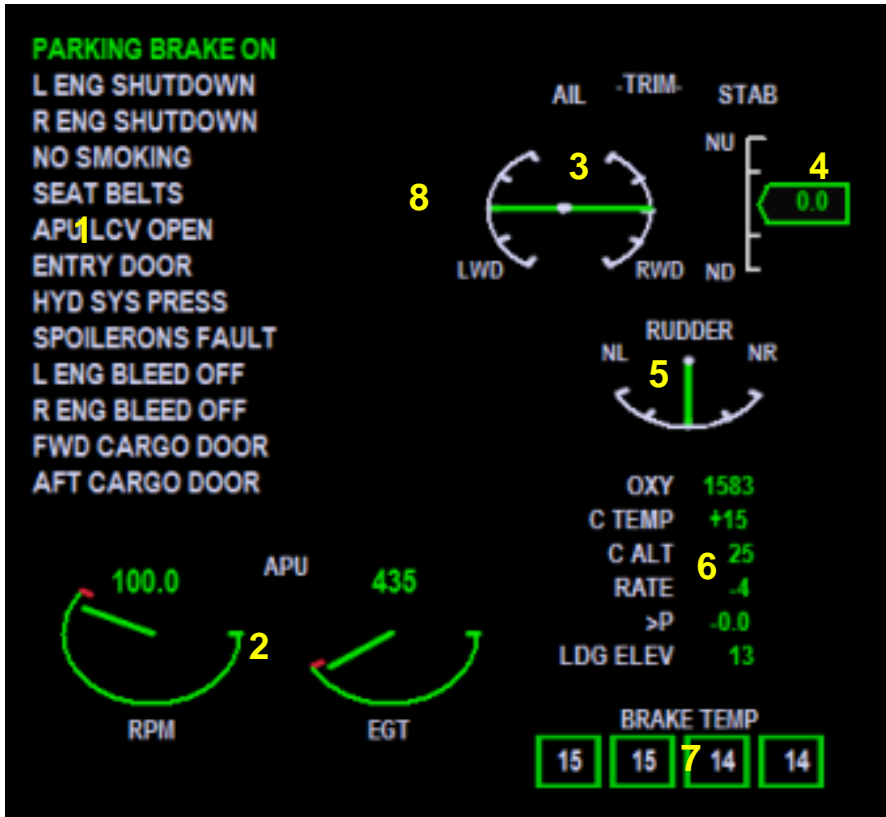


ENGINE Display

1. N1 LP Rotor speed, in % REV indication
2. Thrust limit mode - - TO-GA,CLB,CRZ,DES.
3. ITT Gas Temperature, in °C
4. N2 HP Rotor speed, in %.
5. Fuel flow per engine, in current units Lb/hour or Kg/hour
6. Vib N1 N2
7. Oil Temp
8. Oil Pressure
9. GEAR
10. Flaps
11. FUEL
12. Total Fuel
13. Message area EICAS Warnings, Cautions, Advisories and Memo messages.

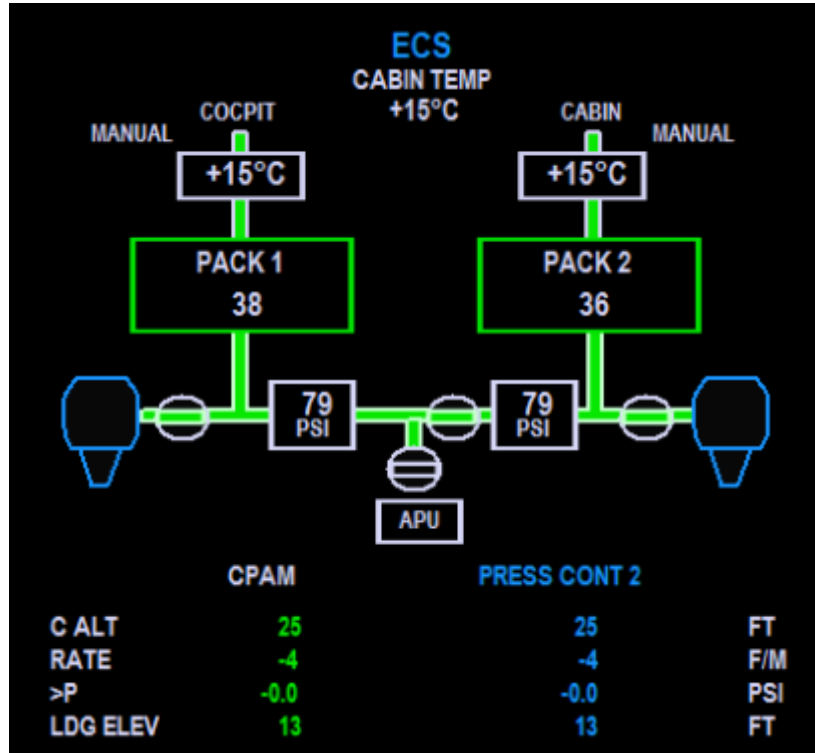


Eicas Stat Display

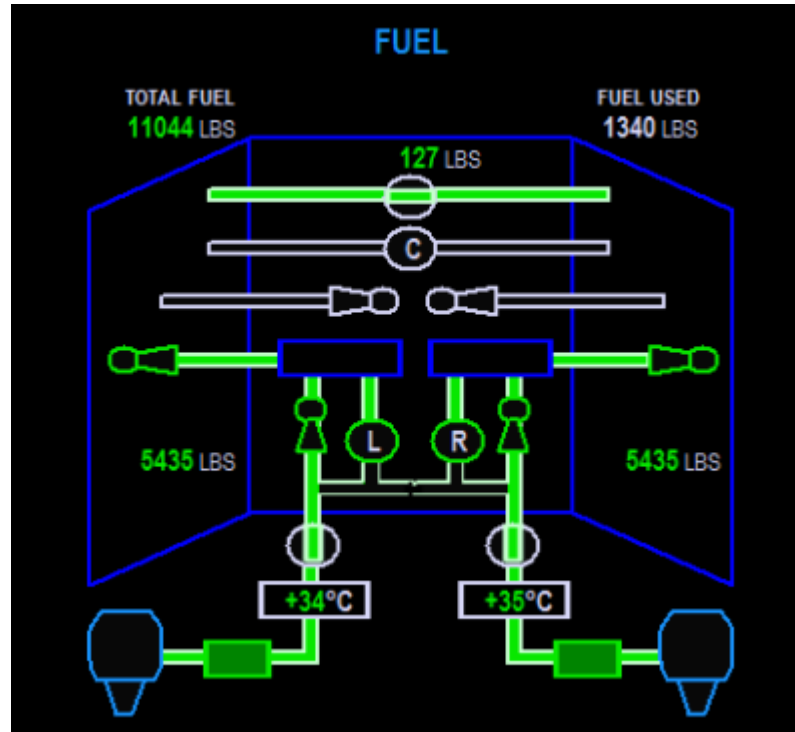


1. Advisories and Memo messages Caution
2. Apu
3. Ailerons Outboard ailerons control
4. Stabilizer trim
5. Rudder trim
6. Cab.Alti Temp
7. Brake temp control

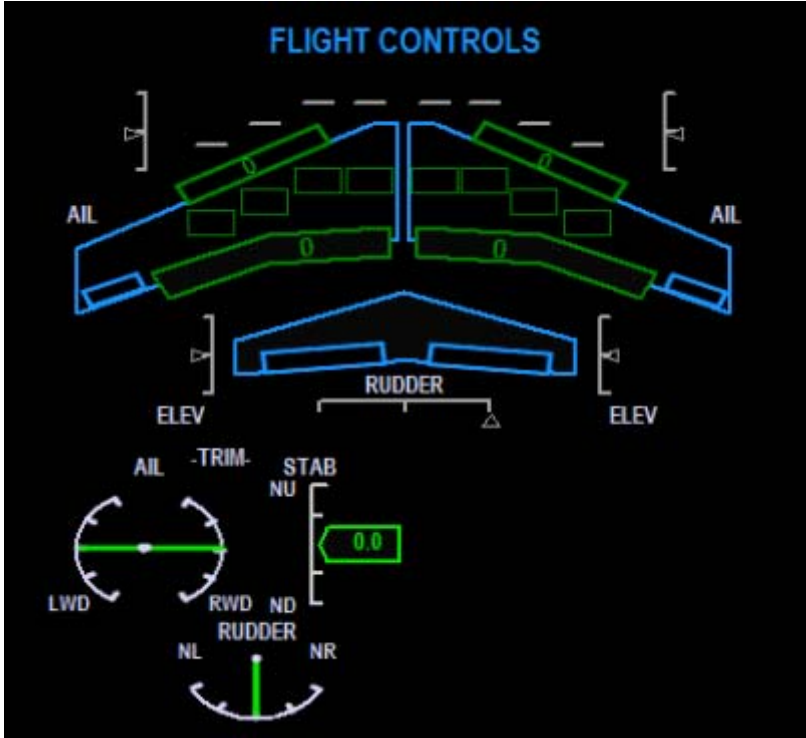
ECS Display



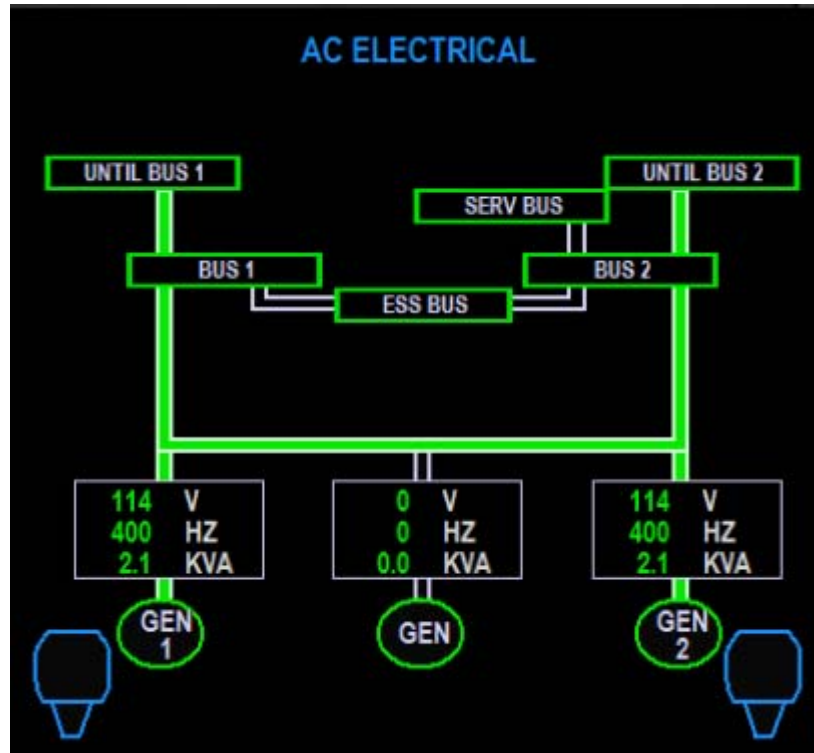
Fuel Display



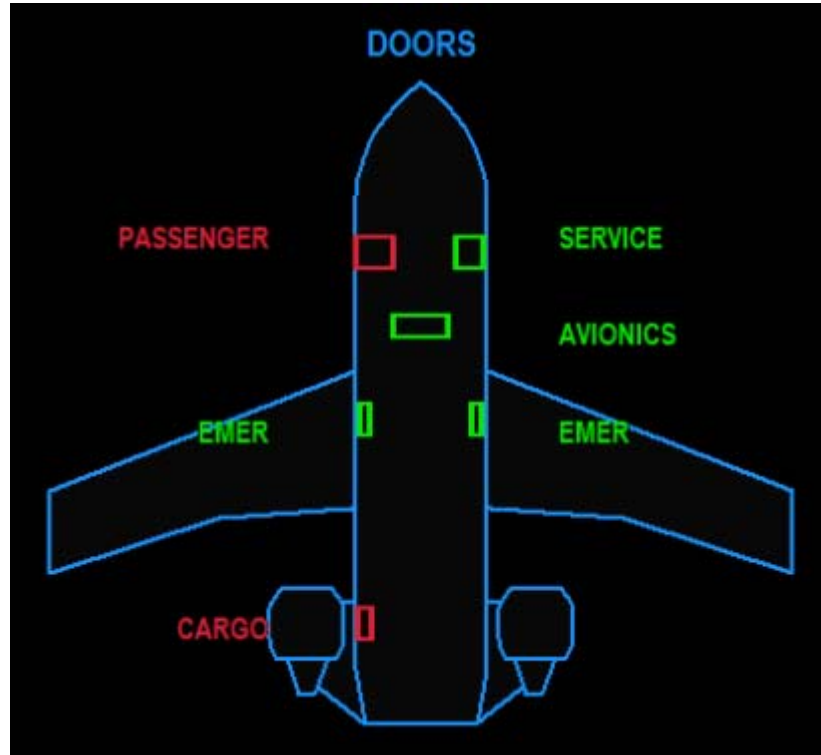
F/CTL Display



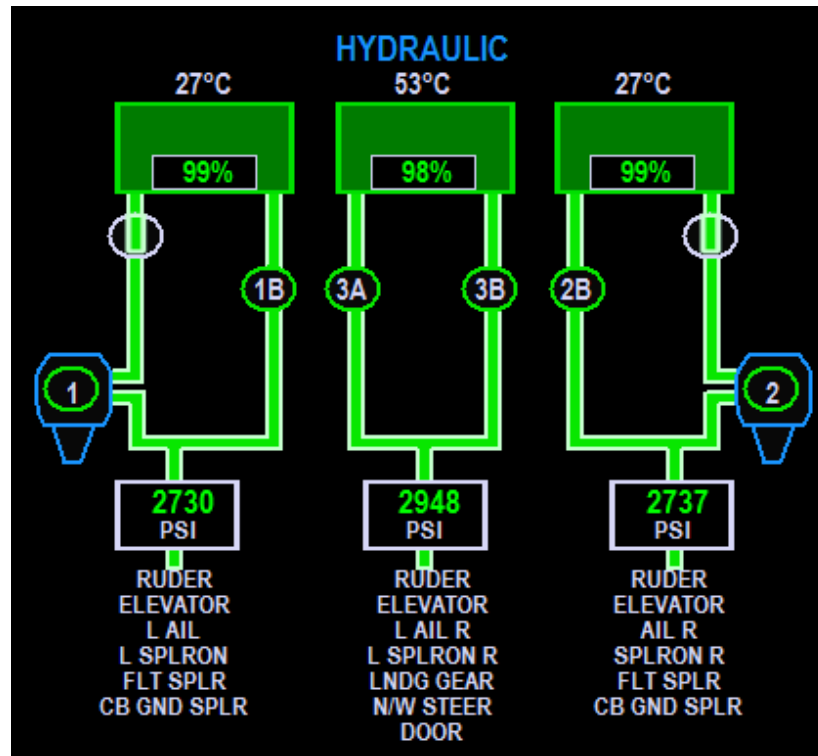
Electrical Display



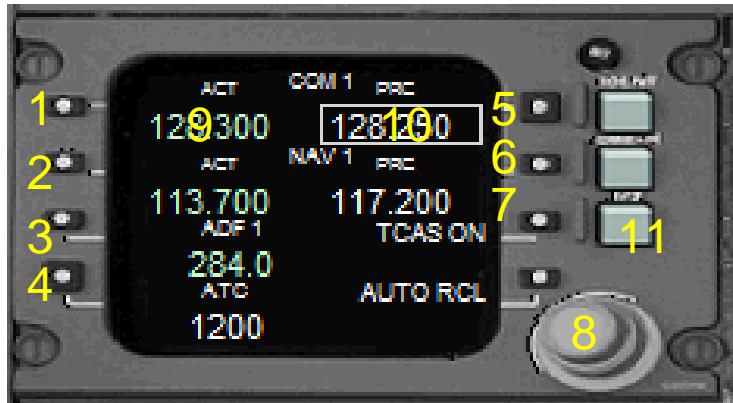
DOORS Display



Hydraulic Display

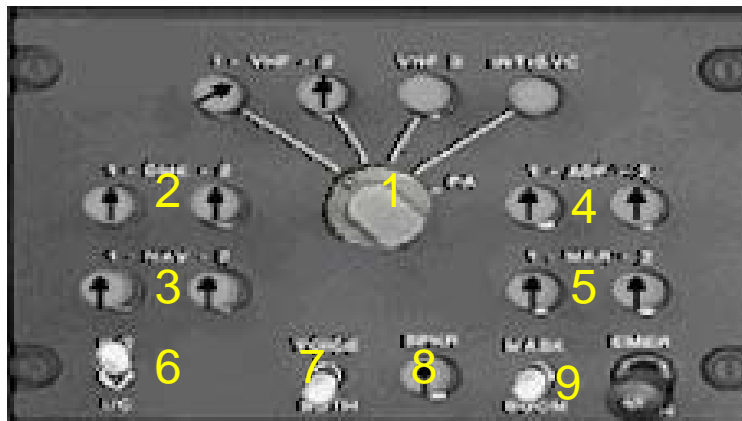


RADIO PANEL



RADIO PANEL

1. Swap button Swaps the Active and Standby frequencies.VHF 1 2(COM 1or 2)
2. Swap button Swaps the Active and Standby frequencies. HF 1 2(VOR 1or 2)
3. Select Automatic Direction Finder
4. Select TRANSPONDER
5. Select COM 1or 2
6. Select NAV 1or 2
7. TCAS ON/OFF
8. Tuning knob
9. Frequency Indicator –Active
10. Frequency Indicator -Standby
11. Select COM 1or 2 NAV 1or 2



AUDIO PANEL

1. Transmit com1, 2
2. DME Ident
3. NAV1 Ident NAV2 Ident
4. ADF1 Ident ADF2 Ident
5. MKR
6. ATC Menu on/off
7. ATC Menu fit
8. Sound off
9. Pushback

OVERHEAD PANEL



1. AC and DC Panel
2. Hydraulic Panel
3. Extern Lights
4. Landing Light Panel
5. Fuel Controls and Indicators
6. Bleed Air Controls and Indicators
7. APU Panel
8. Engine Start Switches
9. Air Conditioning
10. Engine Anti-Ice Panel
11. Passenger Signs

CONTROL PEDESTAL



1. Left/Right Control Display Units
2. Speed Brake
3. Throttles
4. Flaps lever
5. Radio
6. N1 Select
7. N1 Set
8. DSP
9. Audio Panel
10. Aileron Trim Ruder
11. Display Control
12. Parking Brake Lever
13. Yaw Damper
14. Fuel Control switches

Control Display Units CDU



D
I
S
P
L
A
Y
S

1. Message
2. Init/Ref Index
3. Flight Plan
4. Prev Page
5. Next Page
6. NAV/Radio
7. Progres
8. Performance intitalization
9. Bright Display
10. CDU keyboard

CDU SELECTET Progres



CDU SELECT Init/Ref



CDU ACT RTE



CDU ACT RTE



CDU FPLN



CDU FPLN





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