AIR PANEL

COCKPIT / COURIER / CARGO Temp

65º to 85º range – Center position is 75 º

OFF
Respective trim air valve is closed (cold)
Zone TEMP OFF alert appears

COLD (full)
All 3 packs driven to full cold

HOT
Trim air is added

PACK Switch (1,2,3)

Controls respective pack flow valve in manual mode – Switch inhibited in Auto

FLOW – Amber if packs are on, but flow is insufficient, or flow is present with packs commanded off.

OFF – Illuminated when pack is commanded off manually (Ram Air Door is commanded closed)

TRIM AIR Switch

Opens/closes Trim Air Press Regulator Valves in manual mode

OFF (pushed in Manual Mode)
Trim Air PRVs manually turned off – Prevents hot air from entering Trim Air Manifold

AVNCS OVHT
-Amber when overheat is sensed in avionics compartment.
-Assumes trim air duct rupture
-Auto closes trim air PRVs
Must be reset by maintenance

CABIN AIR Switch

Control switch & wrng light

SMOKE
-Smoke detected in upper cargo
(Extinguishes when not detected)

OFF *(initially pushing switch)*
-Closes conditioned air shutoff valve
-Reduces to single pack operation
Not an Auto function – must push switch

Pushing a 2nd time (while illum.) reopens the AC shutoff valve.

Air SYSTEM Select Switch

Allows selection between (2) Auto channels and (1) Manual channel. When functioning properly, the Air System defaults to an Auto Channel. Pressing the switch then selects the Manual mode. Pressing the switch again selects the other Auto channel.

SELECT
-Illuminates if system detects a malfunction, and reverts from Auto to Manual mode.

MANUAL
-Illuminates if Manual mode has been selected by pressing the switch.
-Flashes if system is in auto and any switch on Air Panel is pressed that has no effect in auto mode.

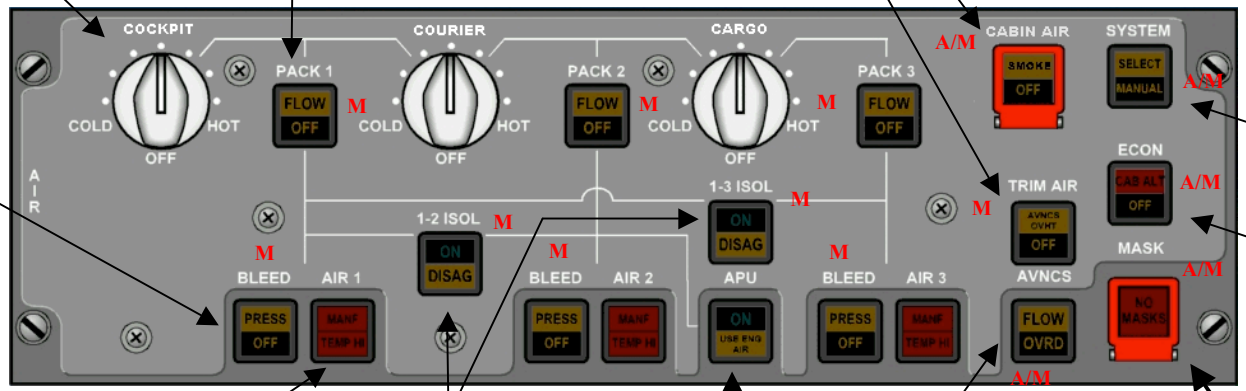
BLEED AIR (1,2,3) PRESS / OFF Switch

Controls the Eng bleed valve in the manual mode

Operates in parallel with, & identical to the MAN TEMP HI switch

PRESS (illuminated)
Air press low *(< 11psi)*

OFF *(Pressed in Man)*
Bleed valve is manually commanded off



ECON Switch

Works in Auto or Manual mode

Starts/Stops Econ op's of packs

ESC automatically turns ECON mode on/off as req'd for flt conditions. Unless otherwise needed, Air system normally operates in ECON mode with packs operating on low volume.

OFF
-ECON manually selected off
Will not illuminate if ESC automatically selects ECON off.

CAB ALT
-Illuminates when cabin altitude is greater than 9500 ft.

BLEED AIR (1,2,3) MANF / TEMP HI Switch

Controls the Eng Bleed valve in Manual mode

Operates in parallel with, and identical to the BLEED AIR PRESS Switch

MANF *(Auto or Manual)*
Illuminates when excessive temperature is detected in any compartment in which a pneumatic manifold is routed. Indicates a failed or leaking manifold.

TEMP HI *(Auto or Manual)*
Illuminates when excessive bleed air temperature is detected downstream of the precooler

In Auto, the respective Eng Bleed valve closes to remove bleed air from a damaged system.

1-2 ISOL / 1-3 ISOL Switches

Open/close respective ISOL valve when sys is in Manual.

Inhibited in Auto mode

ON *(Switch pressed in Manual)*
-ISOL valve is commanded open

DISAG
-Illuminated when ISOL valve is not in commanded position.
- Light inhibited for 10 secs in Auto mode. In Manual, illuminates when valves are in transit.

APU Switch

Opens & closes APU bleed air load valve

ON
-APU valve is selected open *(if Air in Auto. ISOL valves 1-2 & 1-3 are auto controlled).*

USE ENG AIR
-APU air is ON and diff press is > 1.3 PSI (acft is beginning to pressurize)

AVNCS FAN Switch

Starts/Stops override of the avionics exhaust fan and venturi shutoff valve in the manual mode.

FLOW Illuminates if:
-Cooling airflow through the avionics is below normal
- Cabin inflow is insufficient for pressurization
-Cabin altitude greater than 10,000'
Auto closes venturi & fan turns on

OVRD (pressed in Manual mode)
-Starts avionics exhaust fan
-Closes avionics cooling outflow venturi

NO MASKS

Illuminates if cabin approaches 15,000 ft, and masks in crew rest module have not (auto) deployed.

Pressed & held for 3 seconds deploys the masks