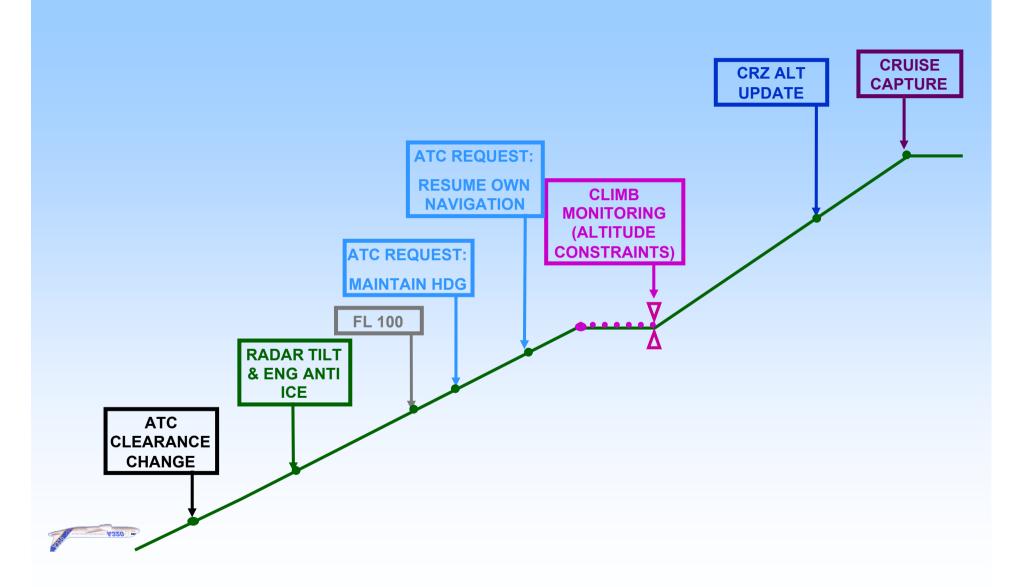
CLIMB PHASE



PF PNF

1. ATC CLEARANCE CHANGE

MCDUPERF CLB

MCDUF-PLN

New ATC clearance: FL230

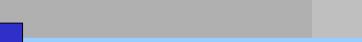
FCU ALTSET

ANNOUNCE....."FL 230"

Read the new ALT on the PFD:

ANNOUNCE FMA, and....."FL 200 MAGENTA"

FMA and FL 200 magenta on PFD......CHECK 1







2. RADAR TILT & ENG ANTI ICE

ENG ANTI ICE......AS RQRD

RADAR TILT.....ADJUST

RADAR TILT:

Slightly reduce tilt to avoid overscanning

PF PNF

3. FL	100		
Passing FL 100	1. L	AND LIGHTS	OFF
	2. S	EAT BELTS	AS RQRD
EFIS OPTIONAS RQRD	3. E	FIS OPTION	AS RQRD
	4. E		
	4	NAVAIDS	
	5. 〈	SEC F-PLN	AS RQRD
		OPT/MAX ALT	CHECK





4. ATC REQUEST: MAINTAIN PRESENT HEADING

When ATC	requests	to maintain	present	Heading

HEADING...... PULL

FMA

➤ Pulling heading knob leads to lateral <u>and</u>vertical <u>selected</u> guidance.



PNF



5.a. ATC REQUEST: RESUME OWN NAVIGATION

When ATC clears to resume own navigation

HEADING.....SET and MANAGE

FMA

When NAV engages:

FMA

> Step 1 : Resume Managed Lateral F-PLAN





5.b. ATC REQUEST: RESUME OWN NAVIGATION

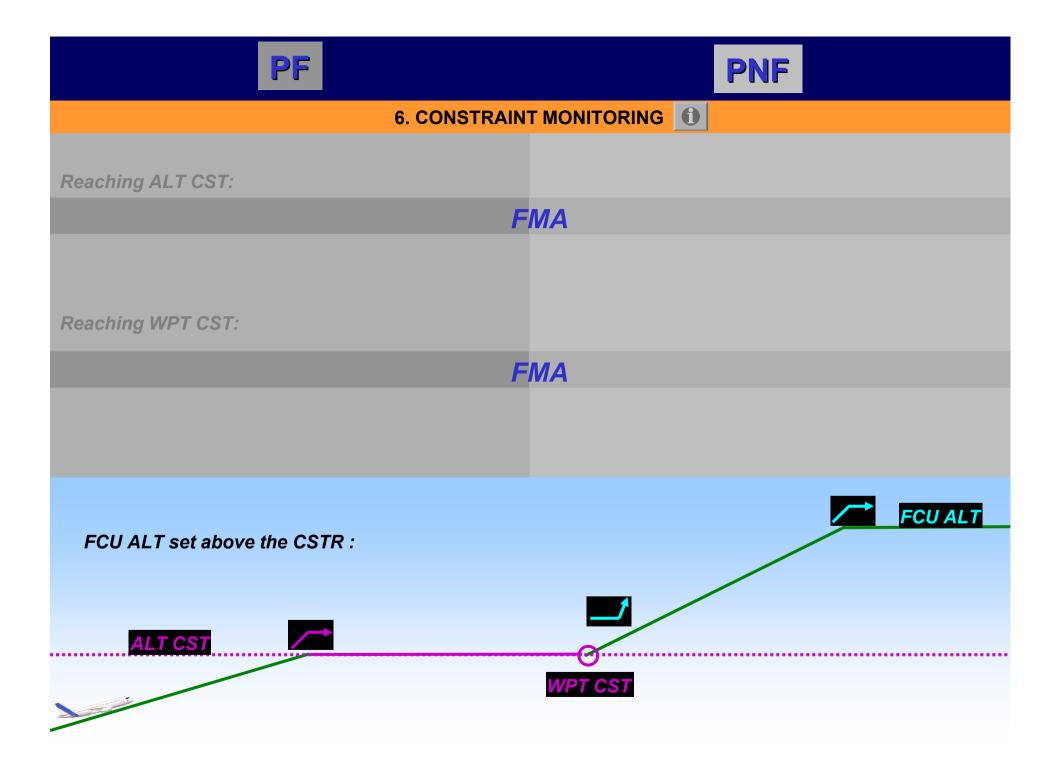
When NAV is green:

ALT.....MANAGE

FMA

➤ <u>Step 2</u> : Resume Managed Vertical F-PLAN





PF PNF

7. CRUISE ALTITUDE CLEARANCE

New ATC clearance :	-L	. 240
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FCU ALTSET

ANNOUNCE....."FL 240 BLUE"

FL 240 on PFD.......CHECK
ANNOUNCE......."FL 240 BLUE"

If final CRZ ALT clearance below intended FL:

PROG PAGE......UPDATE

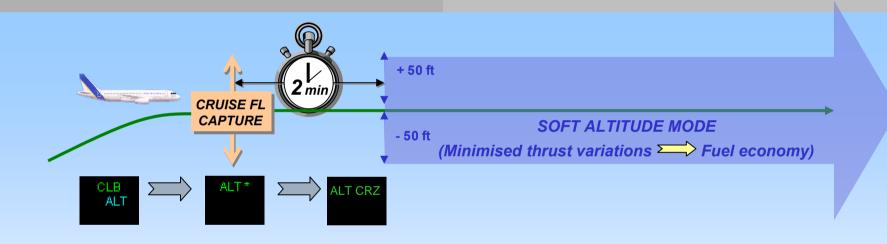
➤ If expedite climb is requested :





8. CRUISE CAPTURE

FMA









PF **PNF**

1. ATC CLEARANCE CHANGE

MCDUPERF CLB

MCDUF-PLN

New ATC clearance: FL230

FCU ALTSET

ANNOUNCE....."FL 230"

Read the new ALT on the PFD:

ANNOUNCE FMA, and....."FL 200 MAGENTA"

FMA and FL 200 magenta on PFD......CHECK



ANNOUNCE....."CROSSCHECKED"

When FCU ALT is selected above the CSTR



Observe:

- •FMA color change
- •Altitude constraint on altitude scale

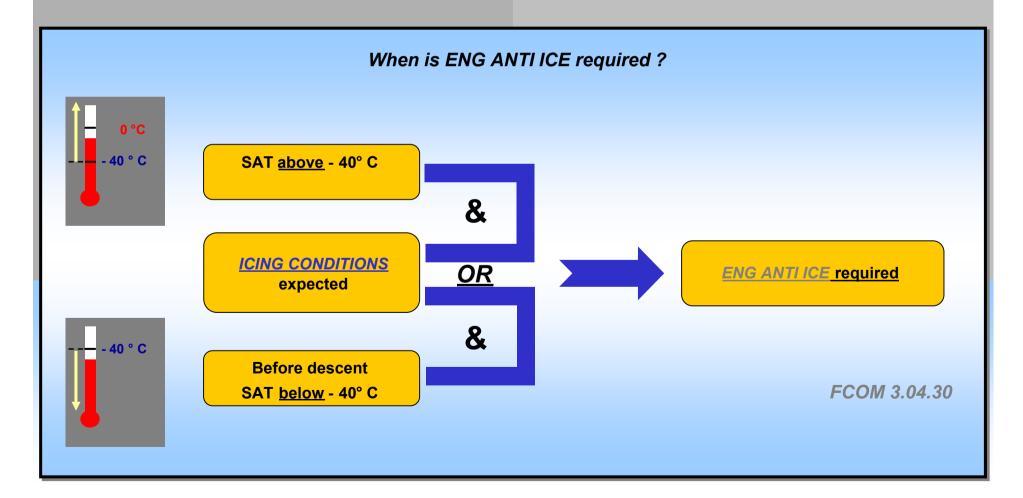
PF

PNF

2. RADAR TILT & ENG ANTI ICE

ENG ANTI ICE......AS RQRD 1

RADAR TILT.....ADJUST



EFIS OPTIONS





Provided if selected range is ≥40 NM



Select the most appropriate option, according to circumstances:

➤ Obstacle area, diversion considerations, etc...

Select preferably different option on each side



NAVAIDS.....CHECK

> Clear NAVAIDS from MCDU RAD NAV page, if manually tuned.

Note:

Actions on MCDU should be performed upon PF request, or at least, with PF approval

SEC F-PLN.....AS RQRD

> In most of the cases copy active should be performed at that time.

OPT/MAX ALTCHECK

➤ Check on the PROG page MORE DETAILS ①



NAVAIDS......CHECK

> Clear NAVAIDS from MCDU RAD NAV page, if manually tuned.

Note:

Actions on MCDU should be performed upon PF request, or at least, with PF approval

SEC F-PLN.....AS RQRD

> In most of the cases copy active should be performed at that time.

OPT/MAX ALTCHECK

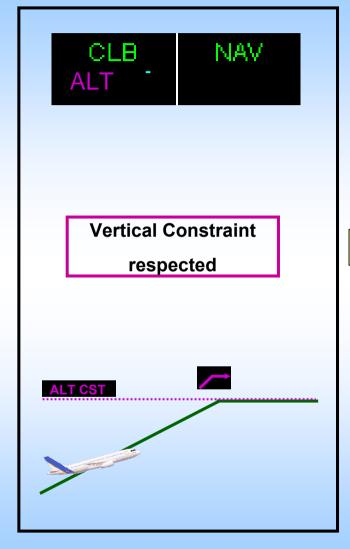
OPTIMUM FL (OPT)

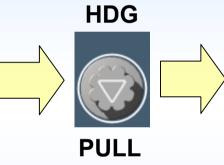
MAXIMUM ALTITUDE (REC MAX)

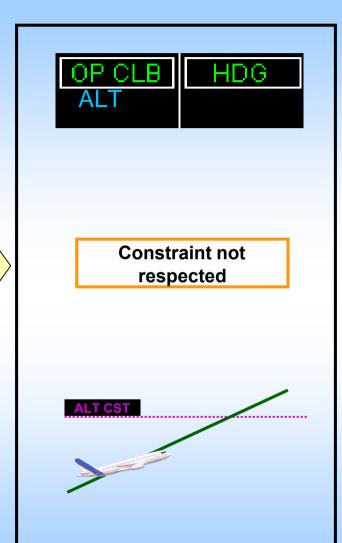
- > THE MOST ECONOMIC FL at given :
 - > Cost Index,
 - ➤ Gross Weight,
 - > Weather conditions (Winds and Temp)
- > It ensures a minimum estimated cruising time of 15 min
- > It is continuously updated in flight.

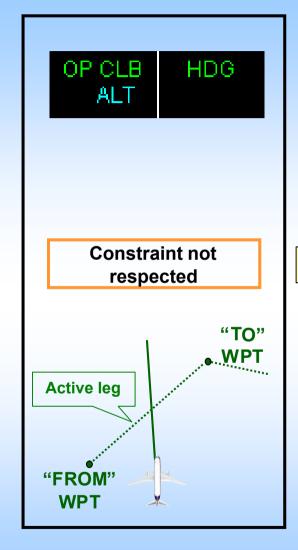
- > REC MAX = f (Gross Weight, Temperature)
 - > It ensures the 0.3g buffet margin
 - > It is continuously updated in flight

LATERAL GUIDANCE : SELECTED MODE 1

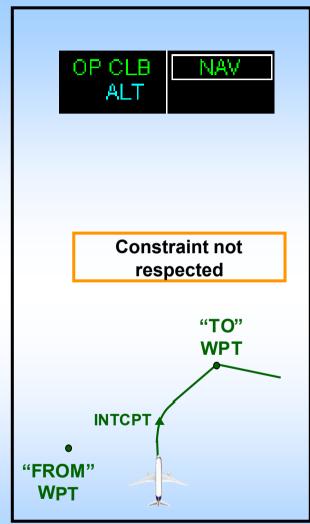






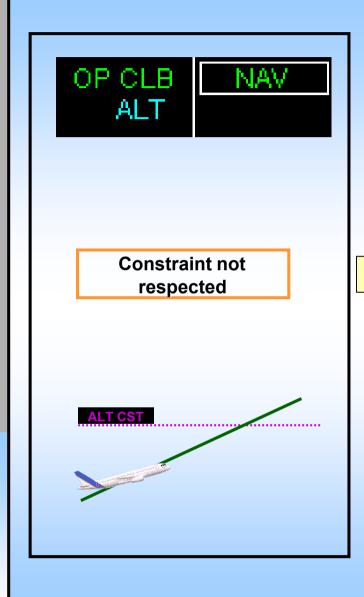


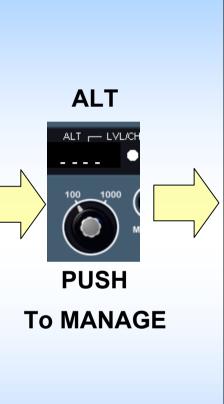


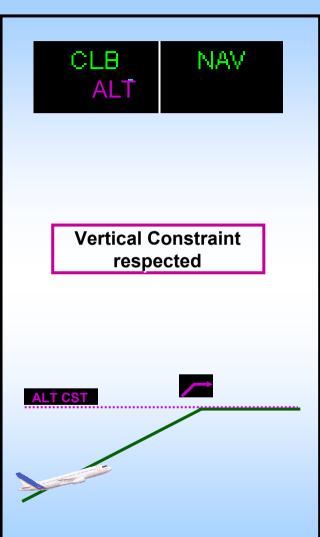


Minimum Distance to engage Nav mode: 1 NM

Maximum divergence angle between Active leg & A/C Heading: 160 °







>ALTITUDE constraint:



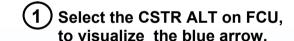
Magenta: The aircraft will match the constraint

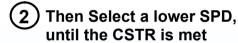


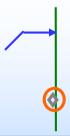
Amber: The aircraft will miss the constraint

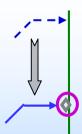


> To match the constraint :









- > SPEED constraint to be missed by more than 10 kt :
 - > The MCDU scratchpad displays



CRZ ALT UPDATE ON PROG PAGE



Final ATC clearance at or above intended CRZ FL:

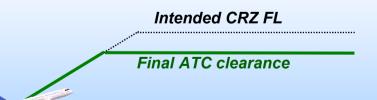




Automatically updated.

No action required.

Final ATC clearance below intended CRZ FL:





CRZ FL must be updated by the crew.

Otherwise: No transition to CRZ phase when reaching CRZ FL

EXPEDITE TO A HIGHER FL



FCU selected altitude

1 Select a Lower SPD



2 When ALT* engages, **Resume managed SPD**

Note:

At high altitude, acceleration to resume managed speed may take a long time.

- ➤ Observe V/S
- > See predictions on F-PLN before any action
 - > To allow comparisons with the new predictions



EXPEDITE TO A HIGHER FL



FCU selected altitude

- 1 Select a Lower SPD 1
 - > Above FL 250: Select turbulence SPD/Mach (QRH5.00)
 - > Below FL 250: Do not select SPD below green dot
 - ➤ Observe V/S
 - > See predictions on F-PLN before any action
 - > To allow comparisons with the new predictions



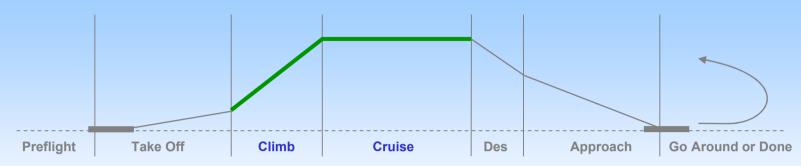
2 When ALT* engages, Resume managed SPD

Note:

At high altitude, acceleration to resume managed speed may take a long time.

FLIGHT PHASE SWITCHING CONDITIONS (1)





FLIGHT PHASES	OPTIMUM SPEED PROFILE	SWITCHING CONDITIONS TO NEXT PHASE
PREFLIGHT	I	SRS take off mode engaged and N1> 85% (EPR >= 1.25) or Ground Speed > 90 kt
TAKE OFF	V2 (V2 + 10)	At acceleration altitude or by engagement of another vertical mode
CLIMB	ECON CLB SPD / MACH	Reaching cruise FL
CRUISE	ECON CRZ MACH	At descent initiation (if distance to DEST < 200 NM and no step descent)
DESCENT	ECON DES MACH / SPD	- Over flying (DECEL) pseudo waypoint with NAV (or LOC*/LOC) mode engaged and altitude < 7200 ft AGL - Manual activation of the approach phase.
APPROACH	Vapp (GS Min)	1. To Go Around : when thrust levers at TO.GA detent or 2. To Done: 30 seconds after landing or 3. To Climb: when inserting a new CRZ FL
GO AROUND	Vapp or current SPD whichever is greater. Green Dot at ACC ALT	To Approach: Manual activation of the approach phase or To Climb: Above acceleration altitude by Selecting ALTN or inserting NEW DEST and CRZ FL
DONE	ı	To preflight when INIT or PERF key depressed