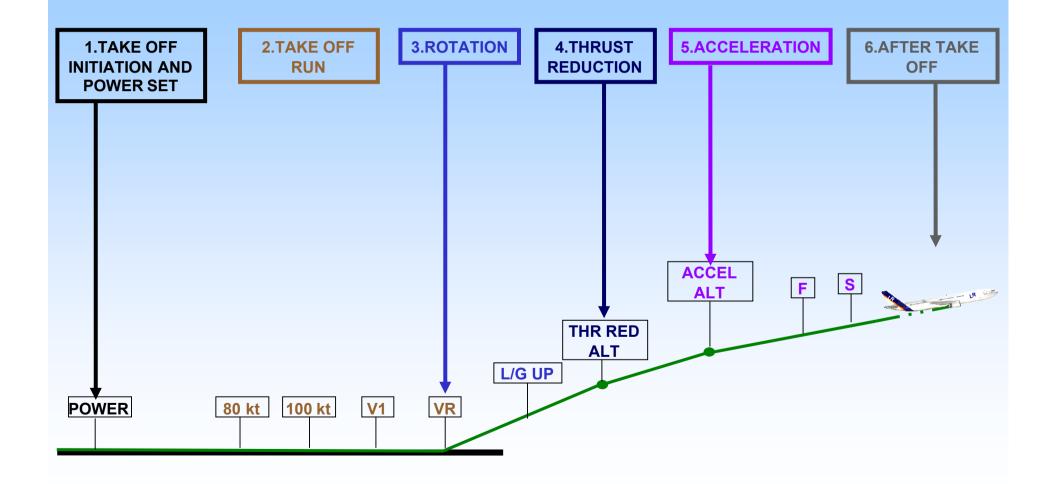
TAKE OFF



PF

PNF

1. TAKEOFF INITIATION AND POWER SET

ANNOUNCE....."TAKE OFF"

CHRONO.....START

CHRONO.....START

BRAKES.....RELEASE

THRUST LEVERS...

- ... 1) From IDLE to 50 % N1 (1.1 EPR)
- ... 2) From ALL engines THR stabilized to T/O THR

> ECAM SD auto - switching



> Computer inhibits warnings and cautions.



2. TAKEOFF RUN

BEFORE 80 kt

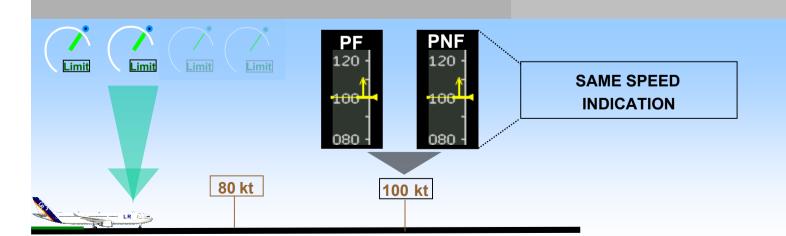
N1(EPR).....CHECK

ANNOUNCE....."POWER SET"

AT 100 kt

ANNOUNCE....."ONE HUNDRED KNOTS"

ANNOUNCE....."CHECKED"



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3.a.	K	UI	ΑI	IU	'IN

AT V1

At VR

ROTATION......PERFORM

WHEN V/S positive and RA positive
ORDER....."GEAR UP"

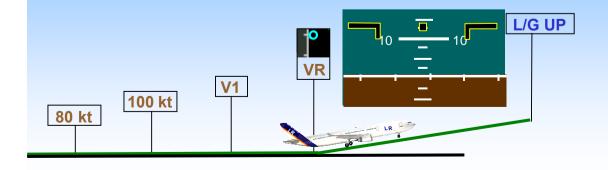
L/G......UP
ANNOUNCE...."GEAR UP"

GRND SPLR.....DISARM
EXTERIOR LIGHTS....SET 1

ORDER...."AUTOPILOT ON"

A/P.....ON (on PF SIDE)

> AP is available 5 sec after lift off (100 ft).





SEAT BELTS NO SMOKING

PF Control of the con	PNF
--	-----

2 h	DDI				
3.D.	PRI	ESEL	ᅜᅜᆝ	HEAD	טמונ

ANNOUNCE FMA"AP 1 (or 2)"	FMACHECK	EC
	ANNOUNCE "CHECKE	-D'

If RWY TRK mode is engaged:

HDG.....PULL or MANAGE

>RWY TRK mode keeps the aircraft on the current track memorized at 30 ft RA.



Pull HDG Knob

To maintain runway HDG

Or

Push HDG Knob: NAV mode is engaged

5. ACCELERATION

At acceleration altitude

FMA

At F speed with positive speed trend

ORDER....."FLAPS 1"

ANNOUNCE....."SPEED CHECKED"

FLAPS 1.....SELECT

CONFIRM....."FLAPS 1"

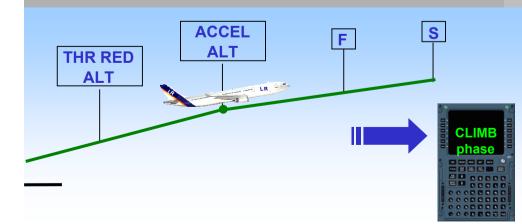
At S speed with positive speed trend

ORDER...."FLAPS 0"

ANNOUNCE....."SPEED CHECKED"

FLAPS 0.....SELECT

CONFIRM....."FLAPS 0"



> Target speed change



6. AFTER TAKEOFF

APU BLEED/MASTER SW.....AS RQRD

ENG START SEL.....AS RQRD

TCAS.....TA/RA

1

ANTI ICE.....AS RQRD

PF

PNF

7. TRANSITION ALT

At transition altitude:

ANNOUNCE....."PULL STANDARD"

BARO REFPULL STANDARD ANNOUNCE....."STANDARD CROSS-CHECKED"

ANNOUNCE....."PASSING FL XX, now"

ALTCHECK

ANNOUNCE....."CHECKED"

AFTER T/O CLIMB C/L









2. TAKEOFF RUN

Typical announcement is:

"MAN TOGA (or MAN FLX XX), SRS, RWY, A/THR blue"

BEFORE 80 kt

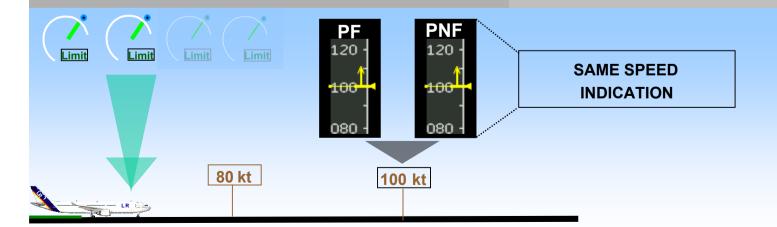
AT 100 kt

ANNOUNCE....."CHECKED"

N1(EPR).....CHECK

ANNOUNCE....."POWER SET"

ANNOUNCE....."ONE HUNDRED KNOTS"



3.a. ROTATION

AT V1
At VR

ROTATION.....PERFORM

WHEN V/S positive and RA positive

ORDER....."GEAR UP"

- > Set NOSE and RWY TURN OFF lights switches to OFF
- > LAND lights should be left ON

ORDER...."AUTOPILOT ON"

ANNOUNCE....."V1"

ANNOUNCE....."ROTATE"

ANNOUNCE....."POSITIVE CLB"

L/G.....UP

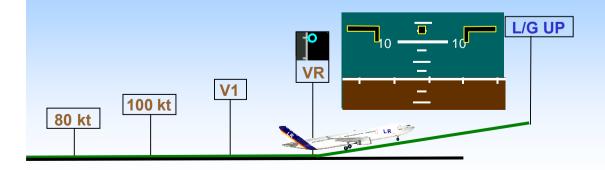
ANNOUNCE....."GEAR UP"

GRND SPLR......DISARM

EXTERIOR LIGHTS.....SET 1

A/P.....ON (on PF SIDE)

> AP is available 5 sec after lift off (100 ft).





SEAT BELTS NO SMOKING

PNF

4. THRUST REDUCTION

FMA

When LVR CLB flashing on FMA

THRUST LEVERS......CL 1

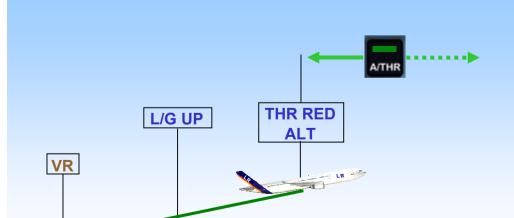
FMA

THR RED ALT ~ 1500 ft AGL is the default value of the FMS, It can be modified by the pilot as required by the procedure

If takeoff was performed with packs off:

PACKS 1 and 2ON

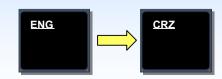




> 1500 ft AGLor 2 min after lift off :



> ECAM SD auto - switching :



> Do not select PACK 1 ON before reducing Takeoff Thrust, otherwise :



- Second pack selection is delayed until clean configuration.
 - It may be selected earlier, in order to avoid ECAM caution activation,
 - but not earlier than 10 seconds after PACK 1 ON, for passenger comfort

> If

PACK

Above 1500 ft





> For T/O in CONF 1+F minimum flap retraction speed "F" is not displayed.

➤ When CONF 1+F is selected, auto retraction of flaps to CONF 1 occurs at 200 kt

> Announce "FLAPS X" as soon as the proper position has been selected



6. AFTER TAKEOFF

APU BLEED/MASTER SW.....AS RQRD

ENG START SEL.....AS RQRD

TCAS.....TA/RA

ANTI ICE.....AS RQRD

Select:

> APU BLEED to OFF, if APU has been used during T/O

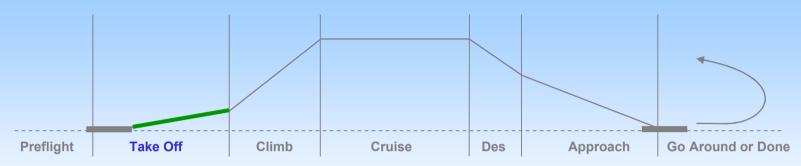
> IGN, in case of severe turbulence or heavy rain

> TA/RA, if TA has been used during T/O

> ENG ANTI ICE, in case of expected icing conditions

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	1. To Approach: Manual activation of the approach phase or 2. To Climb: Above acceleration altitude by - Selecting ALTN or - inserting NEW DEST and CRZ FL
DONE	I	To preflight when INIT or PERF key depressed