

SAFETY EXTERIOR INSPECTION	
PF	PNF
	* WHEEL CHOCKS CHECK IN PLACE * L/G DOORS CHECK POS. * APU AREA CHECK

PRELIMINARY COCKPIT PREP	
PF	PNF
	ENG MASTERS CHECK OFF ENG START SEL CHECK NORM L/G lever CHECK DOWN WIPERS OFF BAT CHECK/AUTO EXT PWR ON APU FIRE CHECK/TEST APU START EXT PWR AS RQRD * COCKPIT LIGHTS AS RQRD * PARKING BRAKE ON * ACCU/BRAKE PRESS CHECK ALTN BRAKING CHECK FLAPS CHECK POSITION * SPD BRK LEVER CHECK RET AND DISARMED PROBE/WINDOW HEAT AUTO APU BLEED ON AIR COND panel SET ELEC panel CHECK VENT panel CHECK * ECAM RECALL PRESS * ECAM OXY PRESS/HYD QTY/ENG OIL QTY CHECK EMER EQPT CHECK RAIN REPELLENT CHECK * EXT. WALKAROUND PERFORM

COCKPIT PREPARATION	
PF	PNF
* GEAR PINS & COVERS CHECK OVERHEAD PANEL * ALL WHITE LIGHTS EXTINGUISH * RCDR GND CTL ON EVAC  AS RQRD * ADIRS NAV EXTERIOR LIGHTS AS RQRD * SIGNS SET LDG ELEV AUTO * PACK FLOW AS RQRD BAT CHECK FUEL T. TANK AUTO ENG FIRE CHECK/TEST DATA LOADER  CHECK OFF MAINT PANEL CHECK PA (3rd occupant) RECEPT CVR TEST RMP SET * AIRFIELD DATA OBTAIN * ATC CLEARANCE OBTAIN * ACARS  INITIALIZE * FMGS INITIALIZATION : ENGINE & AIRCRAFT TYPE CHECK DATABASE VALID CHECK NAVAID DESELECTION AS RQRD F-PLN INITIALIZATION COMPLETE ALIGN IRS PRESS F-PLN A COMPLETE AND CHECK WINDS CLB/CRZ INSERT F-PLN CHECK SEC F-PLN AS APPROPRIATE RADIO NAV CHECK * FMGS DATA INSERTION : ZFCG, ZFW, BLOCK FUEL INSERT TAKEOFF DATA INSERT PRESET SPEEDS AS RQRD	

. When both pilots seated :	
<u>GLARESHIELD :</u>	<u>GLARESHIELD :</u>
* LOUDSPEAKER SET	* LOUDSPEAKER SET
* BARO REF SET	* BARO REF SET
* FD CHECK ON	* FD CHECK ON
* LS AS RQRD	* LS AS RQRD
* ND mode and range SET	* ND mode and range SET
* ADF/VOR sel AS RQRD	* ADF/VOR sel AS RQRD
* FCU SET	
<u>LATERAL CONSOLE :</u>	<u>LATERAL CONSOLE :</u>
OXY MASK TEST	OXY MASK TEST
<u>PF INSTRUMENT PANEL :</u>	<u>PNF INSTRUMENT PANEL :</u>
EFIS DMC SEL NORM	EFIS DMC SEL NORM
PFD-ND brightness ADJUST	PFD-ND brightness ADJUST
* PFD-ND CHECK	* PFD-ND CHECK
<u>CTR INSTRUMENT PANEL :</u>	
* STBY INSTRUMENTS CHECK	
* NORTH REF CHECK	
ECAM SWITCHING SET	
* CLOCK CHECK/ADJUST	
LDG GEAR GRVTY EXTN OFF	
* A/SKID N/W STRG ON	
<u>PEDESTAL :</u>	
ACP CHECK	
* WEATHER RADAR SET	* <u>FMGS DATA CONFIRMATION :</u>
PARKING BRAKE PRESS CHECK	AIRFIELD DATA CONFIRM
SWITCHING PANEL NORM	ATC CLEARANCE OBTAIN
* LDG ELEV (ECAM) CHECK AUTO	IRS ALIGN CHECK
THRUST LEVERS CHECK IDLE	GROSS WEIGHT INSERTION CHECK
ENG MASTER CHECK OFF	TO DATA CALCULATE/CHECK
ENG START SEL CHECK NORM	F-PLN A and B CHECK
ATC SET	* ATC CODE SET
* FUEL QTY CHECK	* FUEL QTY CHECK
* TAKEOFF BRIEFING PERFORM	

BEFORE PUSHBACK or START	
PF	PNF
LOADSHEET CHECK (CM1)	
TO DATA ENTER/REVISE	TO DATA CHECK
SEAT BELTS ADJUST	SEAT BELTS ADJUST
MCDU PERF TO	MCDU F-PLN
	EXT PWR CHECK OFF
BEFORE START C/L DOWN TO THE LINE	
	PUSHBACK/START CLEAR OBTAIN
NW STRG DISC CHECK AS RQRD	
WINDOW/DOORS CHECK	WINDOW CHECK
THR LEVERS IDLE	
PARK BRK AS RQRD	BEACON ON
BEFORE START C/L BELOW THE LINE	



NO CHANGE



BEFORE PUSHBACK or START	
PF	PNF
LOADSHEET CHECK (CM1)	
TO DATA ENTER/REVISE	TO DATA CHECK
SEAT BELTS ADJUST	SEAT BELTS ADJUST
MCDU PERF TO	MCDU F-PLN
EXT PWR CHECK OFF	
BEFORE START C/L DOWN TO THE LINE	
PUSHBACK/START CLEAR OBTAIN	
NW STRG DISC CHECK AS RQRD	A/SKID & N/W STRG OFF
WINDOW/DOORS CHECK	WINDOW CHECK
THR LEVERS IDLE	BEACON ON
PARK BRK AS RQRD	
BEFORE START C/L BELOW THE LINE	

NO CHANGE

AFTER START	
PF	PNF
ENG START sel NORM	
APU BLEED OFF	GND SPLRS ARM
	RUD TRIM ZERO
	FLAPS SET
	PITCH TRIM SET
ECAM STATUS CHECK	ENG ANTI ICE AS RQRD
ECAM DOOR PAGE CHECK	WING ANTI ICE AS RQRD
ANNOUNCE "CLEAR TO DISCONNECT"	APU MASTER SW OFF
	NWS TOWING LT  CHECK
AFTER START C/L	A/SKID & N/W STRG ON

NO CHANGE

BEFORE TAKEOFF	
PF	PNF
APPROACH PATH CLEAR OF TRAFFIC CHECK CABIN CREW ADVISE THRUST BUMP  AS RQRD EXTERIOR LIGHTS SET SLIDING TABLE  STOWED BEFORE TO C/L BELOW THE LINE	BRAKE TEMP (if fans running ) CHECK BRAKE FANS (if fans running ) OFF TAKE OFF/LINE UP CLEAR OBTAIN ENG START SEL AS RQRD TCAS  TA or TA/RA CAMERA  OFF ATC (if no AUTO position) ON PACKS 1 + 2 AS RQRD SLIDING TABLE  STOWED

TAKEOFF	
PF	PNF
ANNOUNCE "TAKEOFF" BRAKES RELEASE THRUST LEVERS FLEX/TOGA When thrust set, captain places CHRONO START ANNOUNCE FMA • Below 80 KT : • At 100 KT : ANNOUNCE "CHECKED" At V1, "V1" synthetic voice is triggered • At VR : • When V/S positive + ALTI :: ORDER "GEAR UP" A/P AS RQRD ANNOUNCE FMA • At thrust reduction alt. : THRUST LEVERS CL ANNOUNCE FMA "THR CLB-SRS" • At acceleration alt. : ANNOUNCE FMA "THR CLB-CLB or OPEN CLB" • At F speed : ORDER "FLAPS 1" • At S speed : ORDER "FLAPS 0"	hands on thrust levers until V1 CHRONO START PFD/ND SCAN N1 (EPR) CHECK ANNOUNCE "POWER SET" PFD/ENG parameters SCAN ANNOUNCE "100 KT" ANNOUNCE "ROTATE" ANNOUNCE "POSITIVE CLIMB" L/G UP GRND SPLRS DISARM EXTERIOR LIGHTS SET ANNOUNCE "GEAR UP" ONE PACK ON FLAPS 1 SELECT CONFIRM/ANNOUNCE "FLAPS 1" FLAPS 0 SELECT CONFIRM/ANNOUNCE "FLAPS 0" 2ND PACK ON

AFTER TAKEOFF	
PF	PNF
AFTER TO/CLIMB C/L DOWN TO THE LINE	APU BLEED/MASTER SW AS RQRD ENG START sel AS RQRD TCAS  TA/RA ANTI ICE AS RQRD

CLIMB	
PF	PNF
MCDU PERF CLB	MCDU F-PLN
FCU/FMGS SET IF AP ON	FCU/FMGS SET IF AP OFF
• At transition altitude :	
BARO REF SET X CHECK	BARO REF SET X CHECK
AFTER TO/CLIMB C/L BELOW THE LINE	ENGINE ANTI ICE AS RQRD
RADAR TILT ADJUST	
• At 10000 feet :	
EFIS OPTION ARPT	LAND LIGHTS OFF
RADIO NAV CHECK	SEAT BELTS AS RQRD
	ECAM MEMO REVIEW
SEC F-PLN AS RQRD	OPT/MAX ALT CHECK

CRUISE	
PF	PNF
ECAM MEMO/SYS PAGES REVIEW	
FLIGHT PROGRESS CHECK	
FUEL MONITOR	
STEP FLIGHT LEVEL AS APPROPRIATE	
NAV ACCURACY CHECK	
RADAR TILT ADJUST	
CABIN TEMP MONITOR	

DESCENT PREPARATION	
PF	PNF
LDG ELEV CHECK	LANDING DATA PREPARE
FMGS PREPARE	FMGS PREPARE
APPR BRIEFING PERFORM	
	DESCENT CLEARANCE OBTAIN
	ANTI ICE AS RQRD

DESCENT	
PF	PNF
DESCENT INITIATE	
ANNOUNCE FMA	FMA CHECK
MCDU PROG/PERF DESCENT	MCDU F-PLN
DESCENT MONITOR	
SPEED BRAKES AS RQRD	
RADAR TILT ADJUST	
• When cleared to altitude :	
BARO REF SET/X CHECK	BARO REF SET/X CHECK
	ECAM STATUS CHECK
• At 10000 feet :	
EFIS OPTION CSTR	LAND LIGHTS AS RQRD
LS pushbutton AS RQRD	SEAT BELTS AS RQRD
RADIO NAV SELECT/IDENT	LS pushbutton AS RQRD
NAV ACCURACY CHECK	

ILS APPROACH	
PF	PNF
Initial approach :	
SEAT BELTS ON	ENG START sel AS RQRD
Approx 15 NM from touchdown :	
APPR PHASE ACTIVATE or set green dot	
POSITIONING MONITOR	NAV ACCURACY MONITOR
RADAR TILT ADJUST	
APPR C/L	
Intermediate/Final approach :	
When cleared for ILS approach :	
APPR PRESS	
BOTH AP ENGAGE	
At green dot :	
ORDER "FLAPS 1"	FLAPS 1 SELECT
	CONFIRM/ANNOUNCE "FLAPS 1"
CHECK OR SET S SPEED*	
	TCAS  TA or TA/RA
FMA ANNOUNCE	FMA CHECK
LOC CAPTURE MONITOR	
ANNOUNCE "LOC*"	
GLIDE CAPTURE MONITOR	GO AROUND ALT SET
ANNOUNCE "G/S*"	
At 2000 feet AGL :	
ORDER "FLAPS 2"	FLAPS 2 SELECT
	CONFIRM/ANNOUNCE "FLAPS 2"
CHECK OR SET F SPEED *	
When FLAPS 2	
ORDER "GEAR DOWN"	L/G DOWN SELECT
	GRND SPLRS ARM
	AUTO BRAKE AS RQRD
	CONFIRM/ANNOUNCE "GEAR DOWN"
When L/G down, below V_{FE} :	
ORDER "FLAPS 3"	FLAPS 3 SELECT
	CONFIRM/ANNOUNCE "FLAPS 3"
	ECAM WHEEL PAGE CHECK
When FLAPS 3, below V_{FE} :	
ORDER "FLAPS FULL"	FLAPS FULL SELECT
	CONFIRM/ANNOUNCE "FLAPS FULL"
CHECK OR SET VAPP *	
	A/THR CHECK SPD or OFF
	WING A. ICE (if not required) OFF
	EXTERIOR LIGHTS SET
SLIDING TABLE  STOWED	SLIDING TABLE  STOWED
	LDG MEMO CHECK NO BLUE
CABIN REPORT	OBTAIN (CM 1)
CABIN CREW	ADVISE
LDG C/L	
ANNOUNCE ANY FMA modification	FLT PARAMETERS CHECK
	Announce any deviation in excess of :
	V/S : 1000 ft/min
	IAS : speed target + 10 kt, speed target - 5 kt
	ILS : 1 dot
	Max deviation allowed :
	500 ft AGL : 1 dot LOC/GS
	300 ft AGL : 0.5 dot LOC ; 1 dot GS
	pitch : 0° nose down ; 10° nose up
	BANK : 7°
At DH + 100 (or MDA/MDH + 100) :	MONITOR OR ANNOUNCE . . "ONE HUNDRED ABOVE"
At DH (or MDA/MDH) :	
ANNOUNCE "LANDING" or "GA/FLAPS"	MONITOR or ANNOUNCE "MINIMUM"

* PF FOR AUTO APPR, PNF FOR MAN APPR

NON PRECISION APPROACH (MANAGED GUIDANCE)
NON ILS APPROACH IN NAV DATA BASE, AND, NAV ACCY CHECK POSITIVE

PF	PNF
Initial approach :	
SEAT BELTS ON/AUTO	ENG START SEL AS RQRD
Approx 15 NM from touchdown :	
APPR PHASE ACTIVATE or set green dot	NAV ACCURACY MONITOR
POSITIONING MONITOR	
RADAR TILT ADJUST	
APPR C/L	
Intermediate/Final approach :	
When cleared for approach :	
APPR PRESS	
At green dot :	
ORDER "FLAPS 1"	FLAPS 1 SELECT
	CONFIRM/ANNOUNCE "FLAPS 1"
CHECK OR SET S SPEED *	
	TCAS  TA or TA/RA
ND MODE RANGE AS RQRD	ND MODE RANGE AS RQRD
FMA ANNOUNCE	FMA CHECK
At S speed :	
ORDER "FLAPS 2"	FLAPS 2 SELECT
	CONFIRM/ANNOUNCE "FLAPS 2"
CHECK OR SET F SPEED*	
When FLAPS 2	
ORDER "GEAR DOWN"	L/G DOWN SELECT
	GRND SPLRS ARM
	AUTO BRAKE AS RQRD
	CONFIRM/ANNOUNCE "GEAR DOWN"
When L/G down, below VFE	
ORDER "FLAPS 3"	FLAPS 3 SELECT
	CONFIRM/ANNOUNCE "FLAPS 3"
	ECAM WHEEL PAGE CHECK
When FLAPS 3, below VFE :	
ORDER "FLAPS FULL"	FLAPS FULL SELECT
	CONFIRM/ANNOUNCE "FLAPS FULL"
CHECK OR SET VAPP*	
After the FAF :	FINAL APP CHECK
	GA ALTITUDE SET
	A/THR CHECK SPD or OFF
POSITION/FLT PATH MONITOR	WING A. ICE (if not required) OFF
SLIDING TABLE  STOWED	EXTERIOR LIGHTS SET
	SLIDING TABLE  STOWED
	LDG MEMO CHECK NO BLUE
CABIN REPORT OBTAIN (CM1)	
CABIN CREW ADVISE	
LDG C/L	
ANNOUNCE ANY FMA MODIFICATION	FLT PARAMETERS CHECK
	Announce any deviation in excess of :
	V/S : 1000 ft/mn
	IAS : + 10 kt, -5 kt
	PITCH : 10° NOSE UP, 0° NOSE DN
	BANK : 7°
At MDA + 100 :	MONITOR OR ANNOUNCE . . . "ONE HUNDRED ABOVE"
At MDA	
ANNOUNCE "LANDING" or "GA/FLAPS"	MONITOR OR ANNOUNCE "MINIMUM"
AP (if applicable) OFF	

* PF FOR AUTO APPR, PNF FOR MAN APPR

NON PRECISION APPROACH (SELECTED GUIDANCE) NON ILS APPROACH NOT IN NAV DATA BASE, OR, NAV ACCY CHECK NEGATIVE	
PF	PNF
Initial approach :	
SEAT BELTS ON/AUTO	ENG START SEL AS RQRD
Approx 15 NM from touchdown :	
APPR PHASE ACTIVATE or set green dot	NAV ACCURACY MONITOR
POSITIONING MONITOR	
RADAR TILT ADJUST	
APPR C/L	
Final approach :	
At green dot :	
ORDER "FLAPS 1"	FLAPS 1 SELECT CONFIRM/ANNOUNCE "FLAPS 1"
CHECK OR SET S SPEED *	
	TCAS  TA or TA/RA
ND MODE RANGE AS RQRD	ND MODE RANGE AS RQRD
At S speed :	
ORDER "FLAPS 2"	FLAPS 2 SELECT CONFIRM/ANNOUNCE "FLAPS 2"
CHECK OR SET F SPEED *	
When FLAPS 2	
ORDER "GEAR DOWN"	L/G DOWN SELECT GRND SPLRS ARM AUTO BRAKE AS RQRD CONFIRM/ANNOUNCE "GEAR DOWN"
When L/G down, below V_{FE} :	
ORDER "FLAPS 3"	FLAPS 3 SELECT CONFIRM/ANNOUNCE "FLAPS 3"
	ECAM WHEEL PAGE CHECK
When FLAPS 3, below V_{FE}	
ORDER "FLAPS FULL"	FLAPS FULL SELECT CONFIRM/ANNOUNCE "FLAPS FULL"
CHECK OR SET VAPP*	
AT the FAF :	
SET FPA TO FINAL APPROACH PATH*	
After the FAF :	
SET GA ALTITUDE ON FCU*	
POSITION/FLT PATH CHECK/ADJUST	
	A/THR CHECK SPD or OFF WING A. ICE (if not required) OFF EXT LT SET
SLIDING TABLE  STOWED	SLIDING TABLE  STOWED
	LDG MEMO CHECK NO BLUE
CABIN REPORT	OBTAIN (CM1)
CABIN CREW ADVISE	
LDG C/L	
ANNOUNCE ANY FMA modification	FLT PARAMETERS CHECK Announce any deviation in excess of : V/S : 1000 ft/mn IAS : + 10 kt, - 5 kt PITCH : 10° NOSE UP, 0° NOSE DN BANK : 7°
At MDA + 100 :	MONITOR OR ANNOUNCE . . . "ONE HUNDRED ABOVE"
At MDA :	ANNOUNCE "MINIMUM"
ANNOUNCE "LANDING" or "GA/FLAPS"	
AP (if applicable) OFF	

* PF FOR AUTO APPR, PNF FOR MAN APP

LANDING	
PF	PNF
At 30 feet :	
FLARE PERFORM	ATTITUDE MONITOR
THRUST LEVERS IDLE	
At touchdown :	
REV PULL	ANNOUNCE "GRND SPLRS"
BRAKES AS RQRD	"REV GREEN"
REV MAX	
At 70 knots :	ANNOUNCE "70 KT"
REV IDLE	
At taxi speed :	
REV STOW	
Before 20 knots :	
AUTO BRK DISENGAGE	

GO AROUND	
PF	PNF
THRUST LEVERS TOGA	
ANNOUNCE « GO AROUND-FLAPS »	
ROTATION PERFORM	FLAPS RETRACT ONE STEP
ANNOUNCE FMA	ANNOUNCE "POSITIVE CLIMB"
ORDER "GEAR UP"	L/G UP
	ANNOUNCE « GEAR UP-FLAP »
	NAV or HDG SELECT
At GA thrust red. alt :	
THRUST LEVERS CL	
At GA accel alt :	
SPEED MONITOR	FLAPS RETRACT ON SCHEDULE

AFTER LANDING	
PF	PNF
PF at night, PNF by day LANDING LIGHTS OFF	
GRND SPLRS DISARM <i>(signal for PNF to commence after landing items)</i>	FLAPS RETRACT ENG START sel NORM ATC (if no AUTO position) STBY/OFF TCAS MODE SEL  STBY ANTI ICE AS RQRD APU START RADAR OFF/STBY PREDICTIVE WINDSHEAR  OFF BRAKE TEMP CHECK
AFTER LDG C/L	

PARKING	
PF	PNF
	ANTI-ICE OFF
PARKING BRK ON	APU BLEED ON
ENG MASTER 1, 2, 3, 4 OFF	SLIDE DISARMED CHECK
GROUND CONTACT ESTABLISH	ELAPSED TIME STOP
BEACON LT OFF	FUEL PUMPS OFF
EXTERIOR LIGHTS AS RQRD	IRS PERFORMANCE CHECK
SEAT BELTS OFF	STATUS CHECK
PARKING BRK AS RQRD	BRAKE FAN  OFF
DU's DIM	DU's DIM
PARKING C/L	

SECURING THE AIRCRAFT	
PF	PNF
PARKING BRK CHECK ON	
ADIRS (1 + 2 + 3) OFF	OXY CREW SUPPLY OFF
	EXTERIOR LIGHTS OFF
	GND SELECT CTL sw AS RQRD
	APU BLEED OFF
	EXT PWR AS RQRD
	APU MASTER SW OFF
	EMER EXIT LIGHTS OFF
	NO SMOKING OFF
	BAT 1 + 2 + APU OFF
SECURING THE A/C C/L	

BEFORE START	APPROACH
COCKPIT PREP COMPLETED (BOTH) GEAR PINS and COVERS REMOVED SIGNS ON / AUTO ADIRS NAV FUEL QUANTITY _____ KG.LB TO DATA _____ SET BARO REF _____ SET (BOTH)	BRIEFING CONFIRMED ECAM STATUS CHECKED SEAT BELTS ON BARO _____ SET (BOTH) MDA/DH _____ SET (BOTH) ENG START SEL AS RQRD
WINDOWS/DOORS CLOSED (BOTH) BEACON ON THR LEVERS IDLE PARKING BRAKE AS RQRD	LANDING
AFTER START	CABIN CREW ADVISED A/THR SPEED/OFF ECAM MEMO LDG NO BLUE . SIGNS ON . CABIN READY . LDG GEAR DN . FLAPS LDG . SPLRS ARM
ANTI ICE AS RQRD ECAM STATUS CHECKED PITCH TRIM _____ SET RUDDER TRIM ZERO	AFTER LANDING
BEFORE TAKEOFF	FLAPS RETRACTED SPOILERS DISARMED APU START RADAR OFF/STBY
FLIGHT CONTROLS CHECKED (BOTH) FLT INST CHECKED (BOTH) BRIEFING CONFIRMED FLAP SETTING CONF – (BOTH) V1.VR.V2/FLX TEMP – (BOTH) ATC SET ECAM MEMO TO NO BLUE . SIGNS ON . CABIN READY . SPLRS ARM . FLAPS TO . AUTO BRK MAX . TO CONFIG NORM	PARKING
CABIN CREW ADVISED ENG START SEL AS RQRD PACKS AS RQRD	APU BLEED ON ENGINES OFF SEAT BELTS OFF EXT LT AS RQRD FUEL PUMPS OFF PARK BRK and CHOCKS. AS RQRD
AFTER TAKEOFF / CLIMB	SECURING AIRCRAFT
LDG GEAR UP FLAPS RETRACTED PACKS ON BARO REF _____ SET (BOTH)	ADIRS OFF OXYGEN OFF APU BLEED OFF EMER EXIT LT OFF NO SMOKING OFF APU OFF BAT 1+2+APU BAT OFF

ON GROUND EMER / EVACUATION

- AIRCRAFT/PARKING BRK STOP/ON
- ATC (VHF1) NOTIFY
- ΔP CHECK ZERO
If not zero, MODE SEL on MAN, V/S CTL FULL UP.
- ENG MASTERS (all) OFF
- CABIN CREW (PA) NOTIFY
- FIRE P/Bs (ENG and APU) PUSH
- AGENTS (ENG and APU) AS RQRD
- EVACUATION INITIATE

