

First Officer (FO) Flows

"10,000 FT".....*BOTH*
 (CA) ATTEND BUTTON.....PUSH
 ➤ **CLIMB FLOW**
 PRESSURIZATION.....CHECK
 (FO) CABIN TEMP.....CHECK
 (CA) START SWITCHES.....AS REQD
 (CA) APU.....AS REQD
 FUEL SYSTEM.....MONITOR
 VHF #2 RADIO.....GUARD (121.5)

➔ (PF) calls **"CLIMB CHECKLIST"**

[@ FL180 or Transition ALT]

"xxx ft, Standard Set".....*BOTH*
 (FO) WING / LOGO LIGHTS.....OFF
 (CA) LDG / RWY TURN LIGHTS.....OFF

-----**BEFORE TOP OF DESCENT**-----

ATIS/GATE.....ACQUIRE
 PWB.....REQUEST LANDING DATA
 PWB.....REVIEW DATA
 AUTOBRAKES.....AS REQD
 APPROACH SPEEDS (INIT REF).....SET
 MINIMUMS.....SET

ARRIVAL BRIEFING (PF)

STAR/transition - ALT/SPEED restrictions - Trans level - ADVERSE WX - NOTAMS - SIP - Special Airports - MEL items - Apprch TYPE - Flaps - Braking - Touchdown point/exit plan - LAHSO - Xfer of aircraft - Taxi RTE/hotspots/SMGCS -

✓ **DESCENT CHECKLIST**

-----**APPROACHING [FL 180]**-----

(CA) LDG/RWY TURN LIGHTS.....ON
 (CA) START SWITCHES.....AS REQD
 (FO) WING LOGO (NIGHT).....ON
 (FO) ALTIMETER.....SET
 SHOULDER HARNESS.....FASTEN
 (PF)
 "FLIGHT LEVEL 180, XX.XX, APPROACH CHECKLIST."
 (PM)

"FLIGHT LEVEL XXX, "

✓ **APPROACH CHECKLIST**

APPROACHING [10,000]

(CA)
 ATTENDANT CALL.....PRESS
 ATTENDANT CALL.....MONITOR
 "10,000 FT, FLIGHT ATTENDANTS NOTIFIED"
 (FO)

"10,000 FT"
 PRESSURIZATION.....CHECK
 SEATBELT SIGN.....ENSURE ON
 NOTE:

CONSTANT SPEED DESCENTS

250 kts @ IDLE = 1,700 fpm

210 kts @ IDLE = 1,300 - 1,400 fpm

TYPE	ILS/HGS	RNAV	NON-PR
LAT	VOR LOC/APP	LNAV	LNAV / VOR LOC / HDG
VERT	APP	VNAV	VNAV / V/S

Approach category D minima (141-165 kts)

- When approaching, and before decelerating below flaps up maneuvering speed (UP), select flaps 5.
- When approaching, and before decelerating below flaps 5 maneuvering speed (5), select flaps 15.
- When approaching, and before decelerating below flaps 15 maneuvering speed (15), select flaps 25, or final landing flaps.

CONFIGURATION CALLS & SEQUENCE

➔ **12-15 nm from FAF**

(PF) Begin slowing from **250 kts to flaps up** maneuvering speed by **10 nm (210 clean)**

➔ **On base leg or 5 nm from the FAF**

(PF) Call, **"Flaps 5."**

(PM) Repeat, **"Flaps 5."**

Set speed to **180 kts or flaps 5 speed bug**

➔ **3 nm from FAF OR (G/S ALIVE)**

(PF) Call, **"Landing Gear Down, Flaps 15."**

(PM) Repeat, **"Landing Gear Down, Flaps 15."**

Set speed to **150 kts or to flaps 15 bug**

(CA) SPEEDBRAKE.....ARM

➔ **2 nm FROM FAF**

(PF) Call, **"Flaps ____."** Slow to **VTARGET.**

(PM) Repeat, **"Flaps ____."** Select flaps ____.

(PF) Call, **"Before Landing Checklist."**

FLAPS SET AND NO LATER THAN 1,000 FT ABOVE TDZE COMPLETE THE:

➔ **BEFORE LANDING CHECKLIST**

Setting the MCP Altitude to Zero

MCP altitude must be set to zero for all instrument approaches, except circle-to-land procedures.

APP MODE:

- Cleared for the approach
- On a published segment of the approach
- VOR/LOC captured
- GS captured

VNAV MODE:

- Cleared for the approach
- On a published segment of the approach
- Final segment roll mode verified in FMA
- Prior to GP intercept
- VNAV PTH in FMA

V/S MODE:

- Cleared for the approach
- On a published segment of the approach
- At the FAF altitude, if there are no restrictions inside of the FAF, after compliance with stepdown restrictions inside of the FAF is ensured

Visual Approach Profile

➔ DOWNWIND: FLAPS 5 – 5 maneuver

➔ PRIOR TO BASE LANDING GEAR DOWN

Flaps 15

➔ BASE FLAPS 30/40 – VTGT

@ 1,000 ft above TDZE Callouts:

POSITION	PF	PM
AT 1,000 FT ABOVE TDZE	"1,000 FT, AIRSPEED ____, SINK RATE."	"1,000 FT"
ON FINAL	DISENGAGE THE AUTOPILOT AND AUTOTHROTTLE NO LOWER THAN 50 FT AGL.	"500" IF NO AUTO CALLS. "100" "50" "30" "10"

ILS APPROACH CALLS:

POSITION	PF	PM
LOC CAPTURE	"VOR LOC CAPTURE"	
GS INTCP	"GLIDESLOPE CAPTURE"	
@ MARKER	"XXXX AT (ALT)"	"CROSS-CHECKED"
1,000	"1,000 FT, AIRSPEED ____, SINK RATE ____,."	"1,000 FT"
@ 500 AGL		"500"
100 ABOVE DA	"GOING OUTSIDE"	"APPROACHING MINIMUMS"
@ DA	"LANDING OR GO AROUND"	"MINIMUMS"

RNAV (GPS) AND (RNP) APPROACH CALLS:

POSITION	PF	PM
ON APPCH	"LNAV AND VNAV PATH"	Verify FMA
FAF	"(FIX) at (ALT)"	"CROSS-CHECKED"
@ 1,000 FT ABOVE TDZ	"1,000 FT, AIRSPEED ____, SINK RATE ____,."	"1,000 FT"
@ 500 AGL		"500"
100 ABOVE DA	"GOING OUTSIDE"	"APPROACHING MINIMUMS"
@ DA OR DDA	"LANDING OR GO AROUND"	"MINIMUMS"

NON-PRECISION V/S APPROACH CALLS:

POSITION	PF	PM
INTCP FINAL	"VOR LOC CAPTURE"	Verify FMA
FAF	"(FIX) at (ALT)"	"CROSS-CHECKED"
@ 1,000 FT ABOVE TDZ	"1,000 FT, AIRSPEED ____, SINK RATE ____,."	"1,000 FT"
@ 500 AGL		"500"
100 ABOVE DDA	"GOING OUTSIDE"	"APPROACHING MINIMUMS"
@ DDA	"LANDING OR GO AROUND"	"MINIMUMS"

GO AROUND/MISSED APPROACH CALLS:

PF	PM

"GO AROUND" Select TO/GA Advance thrust Rotate to 15°	"GO AROUND"
"FLAPS 15"	"FLAPS 15"
"LANDING GEAR UP, SET MISSED APPROACH ALTITUDE"	"POSITIVE RATE, LANDING GEAR UP"
AT 400 FT "HDG SEL OR LNAV"	"HDG SEL OR LNAV"
1,000 ft AGL "FLAPS 5" @ BUG OR VREF+15	"FLAPS 5"
If appropriate "I HAVE THE THRUST" OR "CLIMB TRUST"	Verify climb thrust, advise ATC of go-around.
"FLAPS 1" @ BUG OR 170	"FLAPS 1"
"FLAPS UP" @ UP BUG OR 190	"FLAPS UP"

LANDING CALLS:

POSITION	PF	PM
AT TOUCHDOWN		"EXTENDED" OR "NO SPEEDBRAKE"
NOSE WHEEL ON THE GROUND	SET REV TO DETENT 2	"DEPLOYED" OR "NO REVERSE"
		"AUTOBRAKE DISARM"
		"60 KTS"

(CA) "FLAPS UP"

(CA) SPD BRK.....DN / LIGHTS.....OFF

➤ **AFTER LANDING FLOW (FO)**

FLAPS.....(FO) "FLAPS UP"
 CLOCK.....START
 RADAR.....TEST/OFF
 AUTOBRAKE SWITCH.....OFF
 APU.....START
 ENG START SW.....OFF
 LIGHTS.....AS REQ
 ANTI-ICE.....SET
 PROBE HEAT.....OFF
 WINDOW HEAT.....OFF
 APU GEN BUS Switches.....ON
 OPERATIONS.....CALL

➤ **PARKING SHUTDOWN FLOW (FO)**

ANTI-COLLISION.....OFF
 PACKS / AIR.....AS RQD
 HYD PUMPS.....ELEC OFF
 APU.....AS RQD
 TRANSPONDER.....STBY
 AND SET ALL ZEROS
 LUVCARS POSTFLIGHT
 P/C AIR / PACK CONFIGURED
 APU

AFTER SHUTDOWN (TERMINATING)

(CA) POST FLIGHT.....ACCOMPLISH
 (FO) Crew change or terminating; enter fuel and
 oil in logbook.