no obstacles
anti ice off
approach flaps
5000 ft +
no tailwind
level
dry

weight range pounds	10,400 pounds or less	10,000 pounds or less	9,400 pounds or less
altitude of airport	2000 ft or less	3000 ft or less	5000 ft or less
ambient temperature	11℃-30℃	11℃- 30℃	11℃-30℃
V1	108	106	103
Vr	108	106	103
V2	110	108	104
SE climb	126	123	119
Takeoff N1	95.9%	95.9%	95.9%
SE climb N1	91.8%	91.8%	91.8%

maximum Rate of climb Vy									
speed	SL	5	10	15	20	25	30	35	41
	188	187	182	177	169	161	157	150	140

Climb N1										
Pressure Altitude/ 1000										
℃	SL	5	10	15	20	25	30	35	37	39	41
50	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
45	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
40	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
35	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
30	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
25	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
20	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
15	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
10	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
5	95.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
0	94.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
-5	93.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
-10	92.5	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
-12	92.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
-15	91.6	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
-20	90.7	97.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
-25	89.8	96.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
-30	88.8	95.2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
-35	87.9	94.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2
-40	86.9	93.2	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4
-45	85.9	92.2	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7
-50	84.9	91.2	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7

cruise climb						
SL	25	30	35	37	39	41
220	220	200	180	164	148	140

	7000	8000	8700	9300	9700	10400
Vapp 15º	98	105	109	113	115	119
Vref Full	92	98	102	16	108	112

BEFORE START

CABIN DOOR	SECURE
PASSENGER BRIEF	COMPLETE
THRUST LEVERS	OFF
AIR CONDITIONING/FANS	OFF
STBY GYRO SWITCH & LIGHT	ON & CHECKED
GENERATOR SWITCHES	AS REQD
C.B.'S SWITCHES	CHECKED
BATT SWITCH	EMER CHECK, ON/__ VOLTS
PARKING BRAKE	SET
GEAR HANDLE	DOWN-3 GREENS
WARNING SYSTEMS TEST	COMPLETE
ENGINE INSTRUMENTS	NO FLAGS
FUEL QUANTITY	___LBS REQUIRED__ON BOARD
BEACON LIGHT	ON
DOOR NOT LOCKED ANNUNC	EXTINGUISHED
OXYGEN SYSTEM	SET
FLIGHT CONTROLS	CHECKED
SEAT BELTS/ HARNESS	FASTENED/ SECURE
STBY GYRO	UNCAGED

AFTER START

ENGINE INSTRUMENTS	CHECKED
GENERATORS/DC AMPS & VOLTS	CHECKED & ON
CABIN FAN/ AIR CONDITIONING	ON/AS REQ
INVERTERS	CHECKED & ON
AVIONICS POWER	ON
PASS ADVISORY SW	PASS SAFETY
LIGHTS	AS/REQD
PRESSURIZATION CONTROLS	ELEV + 200
T.O. DATA & BUGS	COMPLET & SET
FLAPS	CHECKED & SET
TRIM	CHECKED & SET 3 WAYS
THRUST ATTENUATORS	CHECKED AUTO
RH ATTITUDE INDICATOR	CAGED & CHECKED
AVIONICS	CHECKED & SET
AUTO PILOT	CHECKED

TAXI

BRAKES	CHECKED
SPEED BRAKES	CHECKED
FLIGHT INSTRUMENTS	CHECKED AND SET
ALTITUDE ALERTER	SET
TAKEOFF BRIEFING	COMPLETE

BEFORE TAKEOFF

ANTI-ICE DE-ICE SYSTEMS	AS REQ
ANTI-SKID	ON
FLAPS	SET T.O.
THRUST ATTENUATOR SW	AUTO

RUNWAY ITEMS

PITOT HEAT	ON
IGNITION	ON
ANTI-COLLISION LIGHTS	ON
RECOG/ LANDING LIGHTS	ON
ANNUNCIATOR PANEL	CHECKED

AFTER TAKEOFF / CLIMB

LANDING GEAR & FLAPS	UP
YAW DAMPER	ON
IGNITION	AS REQ
CLIMB POWER	SET
PASSENGER ADVISORY SW	AS REQ
PRESSURIZATION	CHECKED
LANDING/ RECOG LIGHTS	AS REQD

TRANSITION ALTITUDE

ALTIMETERS	SET
RECOG LIGHTS	OFF
PRESSURIZATION	CHECKED

CRUISE

POWER	SET
PRESSURIZATION	CHECKED

DESCENT/ APPROACH

DEFOG SYS	FAN-HI/ WSHLD BLD AS REQ
PRESSURIZATION	SET
APPROACH	REVIEWED & BRIEFED
LDG DATA & BUGS	COMPLETE & SET

TRANSITION ALTITUDE

ALTIMETERS	SET
RECOG LIGHTS	AS REQUIRED
SEAT BELTS/ HARNESS	SECURE
PASSENGER ADVISORY SW	PASS SAFE

BEFORE LANDING

LANDING GEAR	DOWN
IGNITION	ON
FUEL CROSSFEED	OFF
FLAPS	SET
ENGINE SYNC	OFF
AUTO-PILOT / YAW DAMPER	OFF

AFTER LANDING

PITOT HEAT	OFF
IGNITION	OFF/ NORM
LANDING/ RECOG LIGHTS	AS REQ
FLAPS	TAKE OFF

SHUTDOWN

|	
PARKING BRAKE	SET
AVIONICS POWER/ INVERTERS	OFF
STBY GYRO	CAGED & OFF
AIR CONDITIONING	OFF
THROTTLES	OFF
PASSENGER ADVISORY SW	OFF
AIRCRAFT LIGHT	OFF
BATTERY SWITH	OFF

LPV

WHEN ON VECTORS FLYING HEADING

330 PPH FUEL FLOW

1. GPS (NOT VLOCK)
2. ON BASE ACTIVATE VECTORS TO FINAL (WHEN FAF IS ACTIVE WP)
3. DISPLAY GREEN NEEDLES (NAV)
4. FLAPS APP (OR CONFIGURE WITH GLIDE SLOPE)
5. "CLEARED FOR APP" SEL APR
6. FAF SET MAP ALT

LPV MAP

1. TOGA /POWER / F-APP / POS RATE-GEAR UP
2. CHECK MAP ALTITUDE
3. FLY MAP HDG / ALT OR IF NO HDG TO FLY
4. GPS SELECT MAP / UNSUSPEND
5. SELECT NAV
6. SET 330 PPH FUEL FLOW

LPV

JET TECH
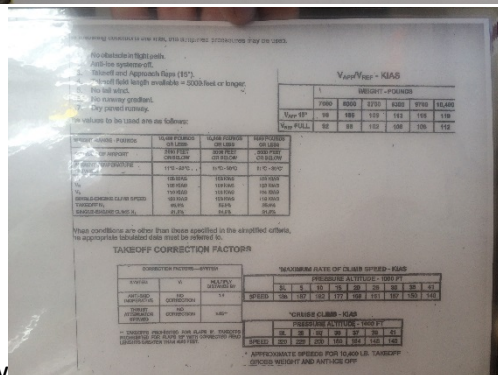
RNAV (GNSS) approach w/ Vertical Guidance (LPV, LNAV+V, L/VNAV)

NOTE: The EHSI will indicate ILS I as the navigation source when the EHSI navigation source is selected to NAV. If the autopilot/flight director is coupled in NAV mode when the CDI selection is changed, the AP will retain the existing vertical mode and switch to basic lateral mode. The autopilot/flight director APR model should be selected after selecting NAV as the EHSI navigation source.

If on radar vectors:
GTN 750 CDI Selection ....**SELECT GPS**
EHSI Navigation Source ....**SELECT NAV**
Final Approach Course...**SET**
Autopilot/Flight Director...............................**ARM NAV**

Once established on the final approach course with the final approach fix as the active waypoint:
Vertical Guidance..................**CONFIRM AVAILABLE**
Autopilot/Flight Director...............................**SELECT AP**

If using GNSS navigation:
GTN 750 CDI Selection ....**SELECT GPS**
EHSI Navigation Source ....**SELECT FMS**
Autopilot/Flight Director...........................**SELECT NAV**

Once established on the final approach course:
EHSI Navigation Source ....**SELECT NAV**
Final Approach Course...**SET**
Vertical Guidance..................**CONFIRM AVAILABLE**
Autopilot/Flight Director...............................**SELECT APR**

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APPROACH CHECK

ILS

WHEN ON VECTORS FLYING HEADING

330 PPH FUEL FLOW

1. VLOCK
2. DISPLAY GREEN NEEDLES (NAV)
3. CHECK ILS FREQUENCY SET
4. SELECT INBOUND COURSE
5. BASE LEG ACTIVATE VECTORS TO FINAL
6. FLAPS APP (OR CONFIGURE WITH G/S)
7. "CLEARED FOR APPROACH" SEL APR
8. FAF SET MAP ALT

ILS MAP

1. TOGA / POWER / F-APP / POS RATE-GEAR UP
2. CHECK MAP ALTITUDE
3. FLY MAP HEADING AND ALTITUDE
4. HDG / VS / AUTO PILOT ON
5. VLOCK TO GPS
6. GPS SELECT MAP AND/OR UNSUSPEND
7. DISPLAY BLUE NEEDLES (FMS)
8. SEL NAV
9. SET 330 PPH FUEL FLOW

RNAV APP (NON G/S)

1. GPS (NOT VLOCK)
2. DISPLAY BLUE NEEDLES (FMS)
3. BASE LEG ACTIVATE VECTORS TO FINAL
4. "CLEARED FOR APPROACH" SEL NAV
5. CONFIGURE 3 NM FROM FAF F-APP / 2 NM FROM FAF G-DOWN / AT FAF V/S DOWN 700 FPM
6. AT FAF SET NEXT ALTITUDE
7. AT NEXT WP SET NEXT ALT
8. RUNWAY IN SIGHT LANDING ASSURED F-LAND

LPV

WHEN ON VECTORS FLYING HE

330 PPH FUEL FLOW

1. GPS (NOT VLOCK)
2. ON BASE ACTIVATE VECTOR FINAL (WHEN FAF IS ACTIV
3. DISPLAY GREEN NEEDLES (
4. FLAPS APP (OR CONFIGURE GLIDE SLOPE)
5. "CLEARED FOR APP" SEL AF
6. FAF SET MAP ALT

LPV MAP

1. TOGA /POWER / F-APP / PO RATE-GEAR UP
2. CHECK MAP ALTITUDE
3. FLY MAP HDG / ALT OR IF NO HDG TO FLY
4. GPS SELECT MAP / UNSUSP
5. SELECT NAV
6. SET 330 PPH FUEL FLOW

hdg