

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°C-30°C	11°C- 30°C	11°C-30°C
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											
°C	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	37	39	41
220	220	200	180	148	140

	7000	8000	8700	9300	9700	10400
Vapp 15°	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