

BEFORE START ENGINES

GII G-1159

Pre-Flight Inspection	COMPLETED
CBs / Nav Transfer SW	IN / NORM
Gear Handle	DOWN
Parking Brakes	ON / 3000 psi
Emergency Gyro	ON/CHECK LGT/OFF
Door Switch	UNSAFE
Overhead Panel Switch	CHECK

APU START

Battery	NORMAL / 22-24 Vts
Fire Warning / T-Handles	10 LIGHTS / IN
Warning Panel Light	TEST
Nav Light	ON
APU Panel (TR / AIR / ALT)	OFF
APU Master	ON / OIL LIGHT
Left Boost Pump	ON
APU Start Button	START DC EMERG FDR
APU Alternator	ON
T/R Switch	MAIN or ESS / CHK Vts
APU Air	ON / AFTER 1 MIN
Pressurization Outflow Valve	AUTO & LAND VALVE OPEN

Inverters Check	
Gust Lock	OFF
Flight Power Handle	DOWN
Aileron / Rudder Trim (5°)	CHECK / SET
Emerg Gnd Splr Deact Handle	DOWN
Marker Beacon	TEST LTS
ADF and Transponder	ON / SET
COM NAV Radios	ON / SET
Autopilot	CHECK
FMS	ON / POSITION SET
Altitude Preselect	SET ALT / BARO
Fuel Cocks	SHUT
Engine Temp Controls	ON
Flap Handle / Indicator	X-CHECK / AGREE
Reverser Takeoff Restow Switch	OFF / GUARD DOWN
Power Levers / Reverser	IDLE / STOW
Speedbrake Forward	LIGHT OUT
GND Spoilers Switch	OFF
Anti-Skid	ON / CHECK LIGHT
ELT	CHECK / ARM
Cockpit Voice Recorder	CHECK
Elevator Manual / Electric Trim	CHECK / SET
Mach Trim	TEST / 6° LIGHT OUT
Yaw Damper	OFF
Angle of Attack	TEST
Stall Barrier Switch	ON
Oxygen Valve	Pax Oxygen OFF/AUTO
Static Air Sources LH / RH	NORMAL / GUARD
Instrument Panel Lights LH / RH	SET / DIM DAY BRT
Oxygen Masks / Goggles LH/RH	ON / 100% / TEST
Nosewheel Steering Power	ON / GUARD
Compass Control LH / RH	MAG / SET LATITUDE
Mask Mic Switch LH / RH	BOOM MIC

BEFORE START ENGINES CONT.

Fuel Pumps CBs	4 - IN
Auxiliary Hyd Pump LH / RH	2- OFF
Cockpit Air Foot Outlet Valve	UP / AFT
Side Panel CBs LH / RH	IN
Audio Panel LH / RH	CHK / SET
Cockpit Windows LH / RH	CLOSE / LOCK
Clocks LH / RH	SET
Emergency Gyro	ON
Attitude Ind. ATT / DH LH / RH	TEST / SET
Altimeters LH / RH (3)	SET ALTITUDE / QNE
F/D & Autopilot Annunciator Lights	PRESS TO TEST
Engine Instruments	CHECK
Fuel Counter	RESET 0
Radar	STBY / NAV MAP / NAV 1/2
Warning Panel Light	TEST
Fuel Quantity	TEST
Landing Gear Handle Light	TEST
Flap Override Switch	OFF / GUARD
Fuel Temp Indicators	CHECK NORMAL
Brake Pressure	3000 psi
Rudder Limiter Light	SINGLE ON
Hyd Pressure Indicators (4)	0, 0, 0, 0
Hyd Panel Switches	Aux OFF/Utility NORMAL
Hyd Quantity / Combined Flight	CHECK
Fueling Control LH / RH	NORMAL
Emergency Gear Handle / Reset	IN / SAFETIED
Pax Oxygen Switch	AUTO
Emergency Flap Handle	NEUTRAL
Emergency Flap Switch	NORMAL / GUARD
HF Radios (10.000 GMT)	SET
ADC Pitot / Air / Valve	ON / SAFETIED
Therapeutic Oxygen Shut-Off valve	OFF
NO GND Spoiler Light	SET
Exterior Lights / Seat Belts	SET / ON
Starter Master Switch	OFF
Ignitions LH / RH	OFF
Fuel Pumps: 1,2,3,4 (X feed)	CHECK/LH Main APU ON
Cross Flow & Inter Tank	CHECK GREEN LIGHT
Cabin / Alt.Control (valve manual auto)	CHK / SET
Air Conditioning Temperature	SET CABIN NORMAL
Bleed Switches & Air 30, 40 psi	ON / CHECK
APU Panel / Gen, Alt ,Inverters	CHECK
External Power AC	AS REQUIRED
Cabin & Entrance Light	AS REQUIRED
Engine Vibration	CHECK
Aural Warnings/Mach Airspeed	GATOF / MACH TEST
Batts Monitor Indicator	TEST /CHECK
Baggs & Spot Utility Light	AS REQUIRED
Galley Cabin Master Switches	SET
"V Speeds" / EPR/ Altimeters / Clearance / ALT / FQ / SQ	
Pax Briefing	DONE

STARTING ENGINES

Main Door & Cargo Doors	CURTAIN STOWED / CLOSE
Parking Brakes	ON , 3000 psi
Power Levers / Fuel Cocks	IDLE / SHUT
Beacon	ON
APU Air Bleed Psi	30 PSI FOR START
Engine Bleed Air Switches	ON
Fuel Boost Pumps	MAIN ON
Starter Master Switch	START
Engine Selector	(RH) ON
Engine Start Button (30 Amp) 3-30sec/15	570° PUSH & RELEASE

Start Valve Open	GREEN LIGHT
Ignition	GREEN LIGHT
Rotation	GREEN LIGHT
Fuel Cock Open 15%	HP RPM
MAX TGT	570° TGT
Fuel Cock Full Open	50% HP RPM 425° TGT
Oil Psi	15 -100 psi
< 40% STAR VALVE	Lgt Out (If Not Out SVMF)

IDLE HP RPM	52-55%
OIL psi Left / Right Light Out	15-100psi
Turbine Vibration	3
Single Rudder Limiter	LIGHT ON
FLY HYD	LIGHT OUT
COMB HYD	0 psi
UTIL HYD	3000 psi / 3000 psi
FLY HYD	3000 psi / 1500 psi

AFTER STARTING ENGINES

Starter Master & Engine Selector	OFF
Left and Right Generators	ON / CHECK 28 Vts 300 Amp
T/R Switch & External Power	OFF
Right Alternator	ON / CHECK
APU Alternator & Air	TRIP & OFF 0 Amps / TGT >
Left Alternator Bus	CHECK POWER 115V AC
Left Alternator	ON / CHECK 115V AC
Main Door Switch	SAFE
Engines Anti-Ice	PSI / CHECK
Wing Anti-Ice	GREEN LIGHT CHECK
AOA & Windshield	ON / 5 LIGHTS CHECK
Pressurization Control	SET / AUTO / FLIGHT
Fuel Pumps	ALL ON

TAXI

Brakes / Steering /Anti-Skid	CHECK / LIGHTS
Ground Spoilers	TEST / ARM
Stall Barrier Switch	ON
Angel of Attack	TEST
Yaw Damper	ON
APU (1 minute cooling)	OVERSPEED
Flaps & Stab Trim (4)	SET / 20° / STAB AGREE
Reverser Switch/T.Reversers	TAKEOFF/RESTOW/6LGTS
Engine Instruments / HDG " 3 "	NORMAL / CHECK
Flight Controls / Rudder Limiter	CHECK & DUAL LIGHT
Takeoff V Speeds & EPR	CHECK / SET
APU	MASTER OFF
Crew Brief & Seat Belts " ON "	FLEX / SID / ALT / ABORT / LAND

LINEUP

Exterior Lights	AS REQUIRED
Engines & Wing Anti-Ice	ON / CHK , PSI & LIGHT
Pitot Heat	ON / CHECK LIGHT
Ignitions	AS REQUIRED
Warning Light	CLEAR
Altitude Preselect	3 SET
Ground Spoilers	ARMED
Transponder	ON & SET
Radar	AS REQUIRED
Timer / Max Takeoff Power	START / ON / 585° TGT

CLIMB

Landing Gear	UP / LIGHT OUT
Flaps	UP / AGREE
Climb Power	SET / MAX 490° TGT
Reverser Switch	OFF
Ground Spoilers	OFF
Engines & Wing Anti-Ice	AS REQUIRED
Ignitions	OFF
Pressurization	CHECK
Seat Belts & No Smoking	AS REQUIRED
Landing & Taxi Light	OFF

FL 180'

Altimeters (4)	SET 29.92
Lights	AS REQUIRED

CRUISE

Power	SET MAX 470 ° TGT
Pressurization	CHECK
Performance Parameters	COPY
FMS Block Time	COPY

DESCENT

ATIS	COPY
Circuit Breakers	CHECK
Pressurization Control	SET / LANDING
Landing Data / V speeds / EPR	SET BUGS
Warning Light	TEST
Anti-Skid	ON
Parking Brakes / HYD Qty	OFF/ CHECK
Engines & Wing Anti-Ice	AS REQUIRED

FL 180'

Altimeters (4)	SET
Lights	AS REQUIRED
Seat Belts & No Smoking	AS REQUIRED

APPROACH IN RANGE

Reverser Switch	TAKEOFF / RESTOW
Brake Accumulator Pressure	CHECK / 3000 psi
Flaps	AS REQUIRED
Hydraulic Psi / Quantity	CHECK
AOA 1& 2 Positions	CHECK
Landing Data / V speeds / EPR	SET BUGS
Approach Briefing	COMPLETED

BEFORE LANDING

Speedbrakes Handle	RETRACTED
Ignitions	AS REQUIRED
Flaps	20° / 39°
Landing Gear	DOWN / 3 GREENS
Nutcracker Switch	TEST / CHECK LIGHTS
Ground Spoilers	ARMED
Nosewheel Steering	CHECK / ON
Missed Approach Briefing	ALTITUDE / SET

AFTER LANDING

Flaps	UP
Reverser Switch	NORMAL
Ground Spoiler	OFF
Radar & Transponder	STANDBY
Landing & Strobe Lights	OFF
Ignitions	OFF
Pressurization Outflow Valve	OPEN
AOA / Windshield & Pitot Heat	OFF
Engines & Wing Anti-Ice	OFF
Fuel Boost Pumps	ALTERNATE OFF

APU START

Nav Light	ON
APU Panel (TR / AIR / ALT)	OFF
APU Master	ON / OIL LIGHT
Left Boost Pump	ON
APU Start Button	START DC EMERG FDR

SHUTDOWN

Parking Brakes	ON / 3000 psi
Generators & Alternators	OFF
HP Fuel Cocks	SHUT
Door Switch	UNSAFE
Main Cabin Door	CLEAR / OPEN
APU	
APU Alternator	ON
T/R Switch	ON ESS
APU Air	ON / AFTER 1 MIN
Boost Pumps	LH MAIN ON / ALL OFF
Inverters	OFF
Light	AS REQUIRED
Oxygen Valve	Pax Oxygen OFF / OFF

SECURING AIRCRAFT

Gust Lock	ON
APU Air	OFF
NAV / COM / FMS / All Radios	OFF
T/R Switch	OFF
APU Alternator	OFF
APU	OVERSPEED
Boost Pumps	OFF
Outflow Valve	CLOSE
APU Master & Batt Switch (-5% APU TGT)	OFF
Parking Brakes	OFF / CHOCKS ON

BEST LONG RANGE SPEEDS

BOW 38,080 lbs

WEIGHT SPEEDS

44000	222
45000	224
46000	226
47000	228
48000	230
49000	232
50000	234
51000	236
52000	238
53000	240
54000	242
55000	246
56000	248
57000	250
58000	252
59000	254

LANDING SPEEDS LENGHT WET Part 121-135 FLAP 39°

Landin g Weight	Vref	Vac	SL	1	2	3	4	5	7
58	141		5350	5450	5500	5600	5700	5850	6100
	156		6200	6300	6350	6450	6600	6750	7050
56	139		5250	5350	5450	5500	5600	5750	6000
	153		6050	6200	6300	6350	6450	6650	6800
54	137		5100	5200	5250	5450	5500	5600	5800
	151		5900	6000	6050	6300	6350	6450	6650
52	135		5000	5100	5200	5250	5350	5450	5700
	148		5750	5900	6000	6050	6200	6300	6500
50	132		4950	5000	5100	5200	5250	5350	5600
	144		5700	5750	5900	6000	6050	6200	6300
48	130		4850	4950	5000	5100	5200	5250	5500
	143		5600	5600	5750	5900	6000	6050	6100
46	128		4750	4850	4950	5000	5100	5200	5350
	140		5500	5600	5700	5750	5900	600	6150
44	125		4700	4750	4850	4950	5000	5100	5200
	138		5450	5500	5600	5700	5750	5900	6000
42	122		4600	4700	4750	4850	4950	5000	5100
	135		5300	5450	5500	5600	5700	5750	5800
40	120		4500	4600	4700	4750	4850	4950	5000
	132		5200	5300	5450	5500	5600	5700	5750

fuel balance 900 lbs Part 91 Length (x .6)
 Ex: 4950 x.6 = **2970**

fuel balance 2000 lbs

Ice - 180 Kias Flaps 10°

No Spoilers & Reverser Brakes Only

MORE IMPORTANT INFORMATION		GND
* NO GND SPOILERS		RED LIGHT ON
* GND SPOILERS ANNUNCIATOR		LIGHT OFF
* GND SPOILERS SWITCH		ARM
* GND SPOILERS		DEPLOY
* NO GND SPLR ANNUNCIATOR		LIGHT OFF
* GND SPOILERS ANNUNCIATOR		LIGHT OFF
* 1 Power Lever		ADVANCE
* GND SPOILERS		STOW
* 2 Power Lever		ADVANCE
* 1 Power Lever		RETURN TO IDLE
* GND SPOILERS		REMAIN STOWED
CHECK VISUALLY		
* GND SPOILERS ANNUNCIATOR		LIGHT OFF
* NO GND SPLR ANNUNCIATOR		LIGHT OFF
* GND SPOILERS SWITCH		TEST
* GND SPOILERS		REMAIN STOWED
CHECK VISUALLY		
* GND SPOILERS ANNUNCIATOR		LIGHT ON
* NO GND SPLR ANNUNCIATOR		LIGHT ON
* GND SPOILERS SWITCH		RELEASE
* GND SPOILERS		REMAIN STOWED
CHECK VISUALLY		
* GND SPOILERS ANNUNCIATOR		LIGHT OFF
* NO GND SPLR ANNUNCIATOR		LIGHT OFF
* 2 Power Lever		RETURN TO IDLE
* NO GND SPLR ANNUNCIATOR		LIGHT ON
* NO GND SPOILERS		LIGHT OFF

GATOF

Gear	KLAXON
Airspeed	CRICKET
T/O Configuration	HI / LOW
Oxygen	WARBELL
Fire	BELL

Flex Takeoff

Runway	DRY
Anti-Ice	ON
Anti-Skid	ON
EPR Reduction	NO MORE 0.42
HP RPM	<90% N2
GND Spoilers	ON

Battery Integrity Check

T/R Switch	ESS
Battery Switch	EMERG / OFF
Battery Switch	NORMAL
One Fuel Pump	ON
Batt # 1	DISCONNECT
Batt # 2	DISCONNECT
Batt # 1	ON
Batt # 2	ON
Fuel Pump	OFF
T/R Switch	OFF

3SAR

3 Boost Pumps
2 Stall Barriers
2 AOA
1 Rudder Limiter