Gama Aviation	B350 Proline 21 NORMAL CHECKLIST	GAL325

BEFORE START

Passenger Briefing ..... COMPLETED
Control Locks / Covers..... STOWED
Chocks..... REMOVED
Parking Brake ..... SET
Doors ..... SECURE
Fuel Quantity..... CHECK […] lbs
Battery Bus ..... NORM
Gen Ties..... AS REQ
Engine Anti-Ice..... ON
Oxygen System ..... ON
Power Console..... SET
Cabin Temp Mode ..... OFF
Environmental Bleed Air ..... AS REQ
Bleed Air Valves..... ENVIR OFF
ESIS ..... TESTED / ON
Avionics Master ..... OFF
Batteries ..... MAIN ON / GROUND OFF
DC Volts..... >23v
Ground Equipment ..... CLEAR
Beacon & Lights..... ON

AFTER-START

♦ Electrical system..... CHECK
Loadmeters ..... PARALLEL ~10%
Avionics Master ..... ON
Cabin Temp Mode ..... AS REQ
EMS Power ..... AS REQ
Ground-Use Battery..... CHARGE
Instruments / Flt-Dir / REF's ..... SET
FMS & Fuel ..... SET
Bleed Air Valves ..... OPEN
Cabin Pressurisation ..... PRESS & SET
Transponder..... ON
Cabin Sign ..... ON
ESIS ..... INITIALISED

Taxi Light ON..... (With Taxy Clearance)

♦ FUNCTIONAL

Auto-Feather ..... CHECK
Over-Speed GOV & Rudder-Boost .. CHECK
Low Pitch Stop & Prim Governor..... CHECK
Ice Protection..... CHECK
Pressurisation ..... CHECK
Bleed Air Valves ..... CHECK

KEY

Items marked ♦ may be omitted after the crew's first flight of the day

BEFORE TAKE-OFF

Brakes ..... CHECK
Instruments & Flight Controls..... CHECK
Flaps ..... SET […]
Frictions & Trims ..... SET
Transponder ..... ON
Departure Brief (PEDS) ..... REVIEWED
Cabin ..... SECURE

RUNWAY

Strobes..... ON
Ice Protection ..... AS REQ
Auto-Ignition ..... ARM
Engine Anti-Ice ..... AS REQ
Auto-Feather..... ARM
Annunciator Lights ..... CONSIDERED

Landing Lights ON…..(With T/O Clearance)

PEDS

P = PERFORMANCE
E = EMERGENCY TURN
D = DEPARTURE
S = STOP ALT / FL

AFTER TAKE-OFF

Landing Gear ..... UP, NO RED
Landing & Taxy lights ..... OFF
Flaps ..... UP
Yaw Damper ..... ENGAGED
Climb Power ..... SET
Engine Instruments..... CHECK

CLIMB

Altimeters .... STANDARD SET X CHECKED
Engine Anti-Ice ..... AS REQ
Ice Protection..... AS REQ
Cabin Signs ..... AS REQ
Environmental Bleed Air ..... AS REQ
Pressurisation..... CHECK
Lights..... AS REQ

DESCENT

Pressurisation..... SET
Refs / NAV-Aids / FMS..... SET
ESIS ..... SET
Fuel ..... CHECK
Briefing ..... COMPLETED

APPROACH

Altimeters ..... QNH SET X CHECKED
Auto-Feather ..... ARMED
Engine Anti-Ice ..... ON
Ice Protection..... AS REQ
Environmental Bleed Air ..... LOW
Cabin Signs ..... ON

LANDING

Cabin ..... SECURE
Landing Gear ..... DOWN 3 GREEN NO RED
Missed Approach Altitude ..... SET
Props ..... MAX RPM
Flaps ..... DOWN
Yaw Damper ..... OFF

MISSED APPROACH

Landing Gear ..... UP
Landing & Taxy Lights ..... OFF
Flaps ..... UP
Altimeters ..... CHECK
Fuel ..... CHECK
FMS & Flt Director ..... AS REQ

AFTER LANDING

Radar..... STANDBY
Press Diff ..... VERIFY 0
Bleed Air Valves ..... ENVIR OFF
Flaps ..... UP
Trims ..... RESET
Transponder..... STANDBY
Ice Protection ..... OFF
Lights ..... AS REQ
Auto-Ignition ..... OFF
Engine Anti-Ice ..... ON
Auto-Feather..... OFF

SHUTDOWN

Parking Brake..... SET
Taxy Light ..... OFF
Cabin Temp Mode ..... OFF
ESIS ..... OFF
Avionics Master ..... OFF
ITT..... STABLE
Condition Levers ..... CUTOFF
Props..... FEATHER
Oxygen System ..... AS REQ
Fuel Quantity..... […] lbs
Cabin Signs ..... OFF
EMS power ..... AS REQ
Beacon & Lights ..... AS REQ
DC volts ..... CHECK
Ground Use Battery ..... AS REQ
Main Battery & Generators..... OFF
Battery Bus ..... AS REQ
Headsets ..... OFF
Control Locks..... AS REQ

♦ COCKPIT SAFETY

Fire Extinguisher..... CHECK
Oxygen System.... CHECK, CONTENTS […]
Static Air Source .....NORMAL
Landing Gear..... DOWN
Alternate Extension Handle ..... SECURE
Trims ..... ZERO
Rudder-Boost ..... ON
ELT ..... ARM
Starter Switches.....OFF
Battery Bus ..... NORM
Ground-Use Battery..... ON
DC Volts..... CHECK
Ground-Use Battery.....OFF
Main Battery ..... ON
DC Volts..... > 23V
External Power (if available) ..... ON
DC Volts (GPU) ..... 28.0 - 28.4V
Circuit Breakers LHS & RHS..... CHECK
Annunciators ..... CHECK
Fire Detectors / Extinguishers ..... CHECK
Stall Warning ..... CHECK
Landing Gear Warning ..... CHECK
Cabin Alt High Warning ..... CHECK
Cabin Diff Warning ..... CHECK
Land Gear Handle Light ..... CHECK
Hydraulic Fluid Sensor..... CHECK
Flaps ..... CHECK
CVR ..... CHECK
Fuel System ..... CHECK
Low Fuel Quantity ..... CHECK
Gen Ties..... MAN CLOSE
Avionics Master ..... ON
Over Speed Warning ..... CHECK
Electric Pitch Trim ..... ON, CHECK
Radios, Radar, TCAS, EGPWS..... CHECK
Audio Panels .....SET
Autopilot ..... CHECK
EMER Frequency ..... EXTINGUISHED
Avionics Master .....OFF
Reversion Panel ..... NORM / CENTRE
Main & Ground Use Batteries ..... AS REQ

Take-Off Speeds, Flap UP (Sea Level, ISA)

LBS x 1000	15	14	13	12	11
V1	106	102	99	98	97
VR	110	107	104	104	104
V2	117	115	112	112	112
V1 (WET)	101	96	92	92	92

Landing Speeds (Sea Level, ISA)

LBS x 1000	15	14	13	12	11
VREF	109	105	102	100	100
VAPP	119	115	112	110	110
V SEERC	125	125	125	125	125

Contaminated Runway Take-Off Speeds, Flap UP (SW, Slush, Wet/Dry Snow)

LBS x 1000	15	14	13	12	11
V1	110	107	104	104	104
VR	110	107	104	104	104
V2	117	114	111	111	112

Contaminated Runway Take-Off Speeds, Flap APP (SW, Slush, Wet/Dry Snow)

LBS x 1000	15	14	13	12	11
V1	104	102	102	102	102
VR	104	102	102	102	102
V2	109	107	107	107	108

Expanded Procedures

Electrical System

Right Gen .....RESET then ON
Gen Ties ..... OPEN
L GEN TIE R GEN TIE ON
Voltmeter TPL FED..... 26.5 – 28V
R GEN, L GEN ..... 27.5 – 29V
Gen Ties ..... NORMAL
L GEN TIE R GEN TIE OFF
Bus Sense ..... TEST (short)
L GEN TIE R GEN TIE BATT TIE OPEN
ON
Voltmeter CTR 0V
Bus Sense .....RESET (short)
L GEN TIE R GEN TIE BATT TIE OPEN
OFF
Voltmeter CTR 27.5-29V

Auto-Feather

Condition Levers ..... LOW IDLE
Prop Levers..... FULL FORWARD
Power Levers .....~ 22% TQ
Auto-Feather Switch ..... HOLD to TEST
Power Levers .....Retard Individually
at ~17% TQ – Opp AFX Annunciator Extinguished
at ~10% TQ – Both AFX Annunciators Extinguished & Prop Starts to Feather
Power Levers ..... IDLE
(Neither Prop Feathers)
Auto-Feather switch ..... RELEASE

Over-speed Governors & Rudder-Boost

Rudder-Boost OFF then ON (Check Caption)
Prop Levers ..... FULL FORWARD
Prop Governor Test Switch... HOLD to GOV
On Each Engine Individually
Power Lever .....Increase Until Stable 1500 – 1610 RPM
Power Lever ..... Continue to Increase Until Rudder Movement Noted
A/P Trim Disconnect ... Depress to 1st Level & Release RUD BOOST OFF
Power Lever ..... IDLE
On Completion of Both Engine Check
Prop Governor Test Switch..... RELEASE

Low Pitch Stops & Primary Governors

Prop Levers ..... FULL FORWARD
Low Pitch Stop..... Hold to GND IDLE STOP
L PROP PITCH R PROP PITCH Illuminated
Power Levers ..... SET 1500 RPM
Prop Levers ..... Cycle to Low & High RPM
(Propeller RPM Decreases & Then Returns to 1500 RPM)
Low Pitch Stop ..... RELEASE
L PROP PITCH R PROP PITCH Extinguished
Prop RPM .....STABLE at 1150 to 1250 RPM

Useful Frequencies

Gama Glasgow FBO 131.965
Signature Handling 122.350
Far Nor Wick 130.375
Scottish Volmet 125.725
London Volmet North 126.600
London Volmet South 128.600