

ALPHA 160A NORMAL CHECKS

Prestart

Seats	Adjusted
Canopy	Closed
Harnesses	Fastened
Area	Clear & Suitable

Start

Fuel Shut off Valve	Down
Trim	Neutral
Carb Heat	Off / Cold
Masters	On
Fuel Pump	On
Mixture	Full Rich
Flap	Retracted
Key	In ready
Annunciator Lights	Test
Nav Lights	On
Instruments	Left to Right
Breakers	All in
Engine Instruments	Right to Left
Park Brake	Set
Avionics Master	Off
Prime	As Required
Prop and area	Clear
Start	Key Start

After Start

Throttle.	1000 RPM
Oil Pressure	Active
Alternator	Charging
Fuel Pressure	Stable
Fuel Pump	Off
Magnetos	Dead cut check
Avionics Master	On
Radio Freq	Check and Squelch

Taxi Checks

Brakes	Check
Gyro Instruments	Moving Freely
Compass	Moving Freely

Power Checks / Run Ups

Parked	Into wind
Park Brake	Set
Temp, Press.	Active
Power	1800 RPM
Brakes	Holding
Carb Heat	Cycle
Magnetos	L, Both, R, Both <i>Max drop 175 max difference 50</i>
Temp, Press, Suction.	Stable
Power	Throttle Closed
Carb Heat	Cycle
Idle Check.	Not below 500 RPM
Power	1200 RPM

Pre Take off Checks (DVA's)

Too	Trim	Set
	Throttle Friction	Not Applicable
Many	Mixture	Full Rich
	Masters	On
Pilots	Primer	Locked
	Pitch	Fixed
Fly	Flap	Set
	Fuel	Pump On
		Pressure
		Contents
		Timer
In	Instruments	Set
	Ignition	Both
High	Hatches / Canopy	Locked
	Harnesses	Fastened
Cloud	Controls	Full and Free
	Clear	Clearing turn

Line Up Checks

Windsock	Checked
Lights	All On
Camera	TSPNDR ALT
Action	Temp, Press Carb Ht Cycle

DO NOT REMOVE FROM AIRCRAFT

NORMAL CHECKS cont.

HASELL

H	Height	Suitable for recovery
A	Airframe	State configuration
S	Security.	Cockpit Secure
E	Engine.	Temps and Press Fuel Pump ON
L	Locality	Suitable
L	Lookout	Clearing Turn
L	Lights	All ON

SADIE

S	Suction	Green Range
A	Ammeter	Charging
D	Directional Indicator	Aligned
I	Icing	Carb Heat Cycle
E	Engine	T and P's

Pre-landing Checks - BUMFISH

B	Brakes	Pressure
U	Undercarriage	Fixed
M	Mixture.	Full Rich
F	Fuel	Fuel Pump On
I	Ignition	On Both
S	Security	Cockpit Secure
H	Hatches & Harnesses	Secure

After Landing Checks

Vacate runway	
Flaps	Retracted
Fuel Pump	Off
Landing light, Strobe, Taxi light	Off
Radio	Call

Shut Down

ELT	Tune and Squelch 121.5
Radio	119.5
Avionics Master	Off
Flaps	Down
Power	< 1000 RPM
Ignition	Deadcut L, R, OFF, Both
Mixture	Idle Cut Off
Keys	Out
Masters	Off

EMERGENCY CHECKS

Engine fire on start

Starter	Crank Engine
Mixture	Idle Cut OFF
Throttle	Full Throttle
Fuel Pump	OFF
Fuel Valve	OFF
Abandon aircraft if fire continues	

Engine Fire in flight

Fuel Valve	OFF
Throttle	Closed
Mixture	Idle Cut OFF
Fuel Pump	OFF
Cabin Heat	OFF
Defroster.	OFF
Proceed with a forced landing	

Loss of oil pressure

Land as soon as possible.	
Be prepared for engine failure and force landing	

Loss of fuel pressure

Fuel Pump	ON
Land as soon as possible.	
Be prepared for engine failure and force landing	

Alternator Failure

Verify failure	
Reduce electrical load	
Alternator circuit breaker	Check
Alt switch	OFF (1 sec) then ON
If no output	OFF
Land as soon as possible.	

Operating Information

Vs1	63 kts	VX	70 kts
Vso	51 kts	VY	80 kts
VFE	97 kts	Best Glide	80 Kts
VNO	127 kts	Demo Xwind	18 kts
VA	127 kts	Slow Flt Clean	70 kts
VNE	178.5 kts	Slow Flt Dirty	65 kts
Normal Approach			70 kts
Precision Approach			65 kts
Poor Visibility Config			1 stage flap, 75kts
Min Static RPM – ISA SL			2150 RPM
Fuel Burn			35 litres per hour
Minimum Oil			6 quarts

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