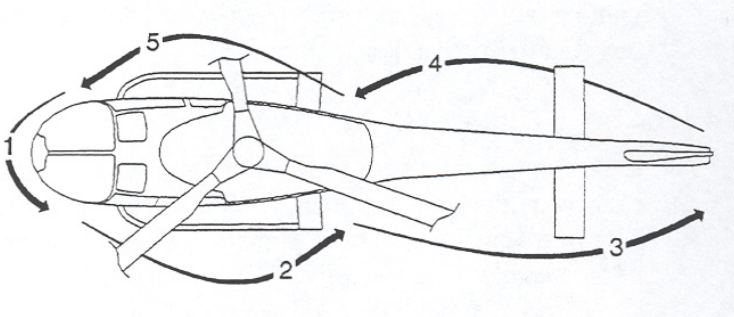




Preflight-Checklist EC120B D-HVIP



Station 1	
Landing light	Checked
Pitot tube	Checked
Engine intake	Checked

Station 4	
Yaw control rod	Checked
Tail gear box oil level	Checked
Stabilizer	Checked
Tail boom + antennas	Checked

Station 2	
Doors and windows	Checked
Landing gear	Checked
Fuel tank and system	Checked
MGB+Eng.oil levels	Checked
Main gear box cowl	Checked
All lower fairing panels	Checked
Main rotor head	Checked
Hydraulic unit / system	Checked
Main rotor blades	Checked
Static port	Checked
Aft baggage door	Checked
Tail boom + antennas	Checked

Section 5	
Static port	Checked
Landing gear	Checked
All lower fairing panels	Checked
EPU door	Checked
Main gear box cowl	Checked
Circuit breakers	Checked
Starboard baggage door	Checked
Door and windows	Checked

Station 3	
Stabilizer	Checked
Fenestron	Checked
Beacon	Checked



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Operating Limitations

Weight Limits

- max. Weight- 1.715 Kg (3.781 lb)

Aktual Weight and Moment (D-HVIP 2007)

1.075 kg / 4532,9 mkg

Speed Limits

Vne Power on: 150 Kts (MSL) /-3 Kts per 1.000 ft

Vne Power off. 120 Kts (MSL) /-3 Kts per 1.000 ft

Vne Sliding doors open.: 130 Kts

Vne Sliding doors operating.: 80 Kts

Altitude Limits

- max. 20.000 ft

Temperature Limits

- min. Temp.: -40°C

- max.Temp.: ISA +35°C, limeted to +50°C

Rotor Brake Limitations

- max. Rotor speed for brake application: 150 r.p.m.

- min. time between two brakings: 5 min.

First Limitation Instrument Limitations

9.6 Max continuous rating

9.6 to 10 Takeoff power range

10 Max takeoff rating

10.8 Max transient rating

Engine t4 Temperature Limitations

- max. Engine start: 800°C

- max. Transient Engine start 5 sec.: 870°C

Battery Limitations

- min. Before Engine start: 24 Volt

- min. After press "START" pushbutton 15 Volt



Checklist EC120B D-HVIP

Cockpit Check	
Seats and control pedals	adjusted
Seat Belts	fastened
Cabin	clean
Fire extinguisher	checked
Circuit breakers	checked
Objects carried	stowed
Door jettison	checked
Before Starting Engine	
Heating- and AC- system	off
Rotor brake release	forward
Fuel shut-off lever (lockwired)	forward
EMERG SW (lockwired)	on
Battery/Gen/Horn Switches	on
CWP Warning-Caution-Advisory lts.	checked
Engine fire test	complete
ICS and GPS	check on
Battery voltage (min 24 Volts)	checked
VEMD Engine page	displayed
Yaw pedals	centered
Flight controls	free
Cyclic pitch control	neutral
Collective pitch control	locked low
Collective control friction	adjusted
Twist grip	shut off
Hydraulic switch (both collectives)	on
Starting Engine	
Booster Pump	on
Anti-collision light	on
Twist grip (after 30sec)	Start pos.
Start button	press/min Bat 15 V !!
Twist grip	Monitor T4
Rotor starts turning	checked
Start button (NG > 50%)	release
Twist grip	Idle detent
ENG P, HYDR, MGB P lights	out
Horn	off
External power (if used)	disconnect
Gen. and BAT lights	out
After engine start	
Pitot heat	on
Booster pump	off
Warning lights	checked
Volts / Amps	checked
Engine oil pressure	checked
Avionics Master and requ. lights	on
COM/NAV/GPS/Transponder	set
Hydr. acc. Test	performed
Hydr. shut-off test	performed
	light out

Twist grip (TQ<40%)	flight detent
Horn switch	on, horn light out
When Twist grip flight idle	NR lower green, TWTGRIP light out
Before takeoff	
Doors	closed
Transponder	ALT
Friction clamps	adjusted
Landing light	as requ.
Press and Temps	checked
CWP	lights off
Collective friction	unlock
After landing	
Collective Pitch	locked/low
Stick Friction neutral	adjust
Pitot heat, Horn, LDG light	off
Transponder	SBY
Twist grip (NG 66-70%)	ground idle
Temperatures (120 sec.)	stabilized
Avionic Master + GEN +	
Moving Terrain	off
DO NOT SWITCH OF G430, ICS or XPDR!!!	
Twist grip	shut-off
Apply rotor brake only by danger situation or high wind conditions.	
Rotor brake (<150 RPM)	fully apply
Anti-collision light / nav lights	off
Before leaving the helicopter	
VEMD flight report page	checked
Ng and Nf cycles	white and above 0
BAT switch	off
Covers	installed
Tie downs	installed
Doors and Baggage compartment	locked



Abbreviated Emergency Checklist EC120B

In case of any malfunction:

- **maintain A/C control**
- **Analyze situation**
- **Take proper action**

Engine failure in hover	
Collective	adjust
Hover autorotation	perform
Engine failure in flight	
Collective	full down
Airspeed	65 kt
Autorotative landing	perform

No engine restart attempt in flight!

Engine fire on ground	
Twist grip	shut-off
Fuel shutoff-valve	close
All switches	off
Engine fire in flight	
Autorotation	establish
Twist grip	shut-off
Fuel shutoff-valve	close
All switches	off
Autorotative landing	perform
Tail rotor control failure hover-IGE	
Twist grip	idle stop
Collective	increase
Tail rotor control failure hover-OGE	
Collective pitch	reduce
Cyclic	forward
Cyclic	adjust to Vy
Land as soon as possible	
Autorotation landing	perform

Tail rotor control failure in cruise flight	
Collective	adjust
Land as soon as possible	
Autorotative landing	perform
Warning / Advisory panel	
Any red light, refer to POH	
On ground, refer POH	
Any amber light, refer POH	
For any further details:	
Refer section 3 of POH	

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