CHECKLIST (EV-97 Eurostar)

PRE START CHECKS

Security; Harnesses, Hatches, Control & Trim Check

Throttle set idle - Choke OFF - Fuel ON

All clear around, Facing safe direction – **BRAKE ON**

Master & charging on

Propeller – "CLEAR PROP" – Lookout & start 5 secs mags off

Ignition (MAGS) ON – choke as regd - start

T Temps & Pressures

M Mags "Dead Cut" Check

R RADIO - ON - ATIS - CALL FOR TAXI

AT THE HOLD - PRE TAKE OFF CHECKS

Brakes ON

Controls – Full & free movement, correct sense

Harnesses & hatches secure

Instruments – set & serviceable

Engine -T's & P's ok, choke off, set RPM 3500

Mags – Max drop 200 rpm (max diff 120)

Check Idle, reset to 2000 rpm – recheck Ts & Ps

OIL Temp AT LEAST 50° C

Fuel – on & sufficient for planned flight

Trim & flap - set for take off

A All clear – all around & final approach clear

Transponder ON set to ALT

Power – check full RPM achieved on take off run

ENROUTE CHECK (Every 10 minutes)

Location – Where are you where is the airfield

Instruments – T's & P's

Fuel – Check quantity/Estimate endurance

E Time elapsed / Estimate time to Land

<u>CIRCUIT JOINING CHECK - FREDA</u>

Fuel check state - sufficient for go around?

Radio - Circuit (re)oining call

Engine Ts & Ps OK

Direction of landing runway, circuit & join

A Altimeter –set QFE

A Airfield – Check signal square, wind & traffic

DOWNWIND CHECK -

B Brakes OFF

M Check Mags ON Both

F Fuel ON & Sufficient

Instruments – Ts & Ps "Green"

H Harnesses & Hatches secure

AFTER LANDING CHECK

F Flaps retracted – when clear of active runway

Transponder OFF (or standby)

SHUTDOWN

Engine Ts & Ps Green – Mags check "dead cut"

Radio, Transponder OFF

Ignition OFF

Master OFF, Charging OFF

PRE -STALLING /MANOEUVRE CHECK HASELL

Height – Min 2000 feet AGL

A Airframe – Configuration, integrity

Security – harnesses & hatches, no loose objects

Engine – T's & P's, fuel level ok

Location – clear area / airspace, allow for drift

Lookout – Clear all around

MAYDAY x 3 G-SHMI (nature of emergency, location, intentions)

EMERGENCY SHUT DOWN - TIFS

Throttle - Closed

Ignition (Magnetos) & master OFF

F Fuel - OFF

Security – Harnesses & hatches

ALL THE TIME LOOKOUT

EV-97 USEFUL INFORMATION

Speeds

VNE (Never Exceed)	146 mph
VA (Turbulent Air Limit)	100 mph
VFE (max Flaps extended)	77 mph
Vs (Stall no flaps power off)	44 mph
(Stall no flaps power on)	37 mph
(Stall flaps fully extend)	36 mph

Best glide speed 68 mph

Climbout speed 70-80 mph Approach speed (flapless) 70 mph Approach speed (with flaps) 60 mph

Typical (4000 rpm) cruise 85-90 mph Fast (4800 rpm) cruise 110-115 mph

Engine / Power

Full power max rpm 5 mins only Continuous high rpm limit 4800 rpm Economic cruise 4000 rpm Do not let engine idle below 1400 rpm.

(Always Check Pilots Operating Handbook for confirmation of operating information)

Weight & Balance - See Overleaf

PILOT's PROCEDURES – Pre-Flight

TASK	Tools & Forms	Notes
Your	Licence, medical,	Notes
currency?	currency valid?	
ourroney:	Are You Fit to Fly?	
Weather	Met office website	www.metoffice.gov.uk
	- TAFs &	
	METARs –	Airfield ATIS – inflight
	synoptic	viz 3000 m + ?
	 rainfall radar 	
	 Local observation 	
NOTAMs	AIS (NATS) website	www.ais.org.uk
	obtain narrow	
	route briefing	
Navigation	Current Map	
Planning	Airfields information	
	Nav tools	
	Plot flight route	
Exercise	Pre flight	
Planning	familiarisation with	
	subject matter	
Tech Log	Enter new line for	
Entry &	planned flight(s) -	
Flight	get authorisation -	
Authorisati	check aircraft state	
on	(hrs flown) &	
5 1: 0	defects	O II : T (1114111)
Booking Ou	•	Callsign, Type (HMNY)
	01452	departing direction,
	857700	PoB, Fuel state, flight time
	-	unie
	Ext 223	
Fuelling &	Ensure fuelled up	Weight & Balance
Oil	(correctly!) & oil top	(under 450kg)?
	up if required	
Preflight	Use checklist from	See main checklist
Check	PoH	
<u> </u>		

Weight & Balance

Aircraft empty weight = 266 kg Max allowable AUW = 450 kg Therefore useful load = 184 kg

Fuel weight = 0.72 kg per litre Mogas Unld

Fuel Load	Max remaining load
20 litres = 14.4 kg	169.6 kg 26.6 stones
30 litres = 21.6 kg	162.4 kg 25.5 stones
40 litres = 28.8 kg	155.2 kg 24.4 stones
50 litres = 36.0 kg	148.0 kg 23.3 stones
60 litres = 43.2 kg	140.8 kg 22.2 stones

Baggage Shelf Max. Load 15 kgs

AIRCRAFT ICAO Code = HMNY