PREFLIGHT CHECK

CABIN

1	Aircraft Log & Aircraft Papers	CHECKED
2	LANE (Ignition Switch)	OFF & KEY REMOVED
3	AV (Avionics Master)	OFF
4	BAT (Master Switch)	ON
5	Fuel Quantity (electrical **&** sight gauges)	CHECKED (Endurance !)
6	Flaps Control Linkage	CHECK SECURE
7	BAT (Master Switch)	OFF

OUTSIDE

8	Oil check (gurgling noise!) & Outside Check	ACCORDING AFM

PREFLIGHT CHECK COMPLETED

CHECK BEFORE ENGINE START

1	Cabin Doors	CLOSED
2	Seats, Seat Belts & Shoulder Harness	ADJUSTED & SECURED
3	Fuel Shutoff Valve	OPEN
4	Parking Brake	SET
5	BAT (Master Switch)	ON
6	ACL (Anti-Collision Light)	ON
7	Fuel Pump	MAIN **ON** / AUX **OFF**
8	Circuit Breakers	CHECKED IN
9	EMU Display (Engine Monitoring Unit)	CHECKED

CHECK BEFORE ENGINE START COMPLETED

STARTING ENGINE & AFTER ENGINE START CHECK

1	Propeller Area & Zone behind Aircraft	CLEAR
2	Rotate Ignition Switch	*"**A/B**"* – short pause
3	Rotate Ignition Switch	*"**START POWER**"* and…
4	Throttle	TURN OPEN 2x↻ = throttle 50%
		EMU Display: wait for *"**A**"* & *"**B**"* to switch off
5	Fuel Pressure	min 3.0 bar
6	Rotate Ignition Switch	*"**START ENGINE**"* (max 10 sec)
7	Oil Pressure (**not longer than 10 sec**)	**GREEN**
8	Throttle	2 000 rpm
6	Engine Instruments	CHECKED
7	Engine Warm Up	WAIT 2 MINUTES
8	Generator Warning	**GEN OK**
	if warning persists SET 2 800 rpm – wait and	CHECK AGAIN **GEN OK**
10	AV (Avionics Master)	ON & FREQUENCY SET
11	MFD (Multi-Functional Display)	SET QNH

STARTING & AFTER ENGINE START CHECK COMPLETED – READY TO TAXI

TAXI CHECK

1	Brakes & Steering	CHECKED
2	Gyro Instruments & Magnetic Compass	CHECKED

TAXI CHECK COMPLETED

RUN UP

1	Parking Brake	SET
2	Oil Temperature	**min 50° C**
3	Zone behind Aircraft	CLEAR
4	Throttle	3 000 rpm
5	Generator Warning	**GEN OK**
6	Rotate Ignition Switch to ***"B"***	max drop 150 rpm MONITOR EMU Display CHECK ***"LANE A"*** LIGHTS UP
7	Rotate Ignition Switch to ***"A"***	max drop 150 rpm MONITOR EMU Display CHECK ***"LANE B"*** LIGHTS UP
8	Rotate Ignition Switch to ***"B"***	CHECK ***"LANE A"*** LIGHTS UP
9	Rotate Ignition Switch to ***"A/B"***	CHECK ***"LANE A"*** & ***"B"*** **OFF**
10	Throttle	2 000 rpm
11	Fuel Pressure	Pressure CHECKED
12	Fuel ***"AUX PUMP"*** – ON	Pressure CHECKED
13	Fuel ***"MAIN PUMP"*** – OFF	Pressure CHECKED
14	Fuel ***"MAIN PUMP"*** – ON	Pressure CHECKED
15	Throttle	CHECK IDLE (± 1 400 rpm)
16	Throttle	2 000 rpm
17	EMU (Engine Monitoring Unit) Power Supply	min 12 V (each folder green)

RUN UP COMPLETED

CHECK BEFORE DEPARTURE

1	Seats, Seat Belts & Shoulder Harness (PAX)	RECHECKED
2	Cabin Doors	CLOSED & LATCHED
3	Flaps	AS REQUIRED
4	Ignition Switch	***"A/B"***
5	Fuel Pumps	BOTH ON
6	Fuel Quantity	CHECKED (Endurance !)
7	Elevator Trim	SET FOR TAKE OFF
8	Circuit Breakers	CHECKED
9	Flight Instruments	CHECKED & SET
10	Engine Instruments	CHECKED **all green**
11	Flight Controls	FREE & CORRECT
12	Departure & Emergency Briefing	COMPLETED
13	Parking Brake	RELEASED

CHECK BEFORE DEPARTURE COMPLETED – READY TO LINE UP

Approach Sector & Runway ..... FREE / ENTER THE RUNWAY & LINE UP

LINE UP CHECK

1	Runway	IDENTIFIED & DG (CONFIRMED)
2	Wind	CHECKED
3	NAV/POS (Navigation Lights)	ON
4	Transponder	SELECT ***"ALT"*** (7 000)
5	Time	NOTED

LINE UP CHECK COMPLETED

CLIMB CHECK

1	Throttle	FULL POWER (min 5 000 rpm)
2	Flaps	UP (when clear of obstacles, +ve ROC & SPEED > 114 km/h)
3	Throttle (≤97%)	REDUCE to FUEL FLOW 20l/h
4	500 ft AGL: ***"AUX PUMP"*** – OFF	Pressure CHECKED

CLIMB CHECK COMPLETED

CRUISE CHECK

1	Altimeter	SET AS REQUIRED
2	Cruise Power	SET (75 – 85%) [max. 5 500 rpm] (75% [±4 500 rpm] – 85% [±4 800 rpm])
3	Fuel Quantity	CHECKED (Endurance)
4	Engine Instruments	**GREEN**

CRUISE CHECK COMPLETED

DESCENT CHECK

1	ATIS (if available)	NOTED
2	Approach Briefing	COMPLETED
3	Avionics	SET
4	Cabin & PAX	SECURED

DESCENT CHECK COMPLETED

APPROACH CHECK

1	Altimeter	SET QNH (D/W Altitude)
2	Throttle	4 000 rpm
3	Fuel ***"AUX PUMP"*** – ON	Pressure CHECKED
4	Fuel Quantity	CHECKED (Endurance)
5	Engine Instruments	**GREEN**

APPROACH CHECK COMPLETED

FINAL CHECK

1	Speed	110 km/h
2	Power	± 2 500 rpm
3	Flaps	SET FOR LANDING

FINAL CHECK COMPLETED

AFTER LANDING CHECK

1 Transponder ..... SELECT ***"SBY"***
2 Fuel ***"AUX PUMP"*** ..... OFF
3 Flaps ..... UP
4 Elevator Trim ..... SET FOR TAKE OFF

AFTER LANDING CHECK COMPLETED

PARKING & ENGINE SHUT DOWN

1 Parking Brake ..... SET AS REQUIRED
2 Throttle ..... 2 000 rpm
3 COM ..... MONITOR 121.50
4 AV (Avionics Master) ..... OFF
5 Electrical Consumers (except ACL) ..... OFF
6 Throttle ..... IDLE
7 Ignition Switch (± 2 minutes after the landing) ..... OFF & KEY REMOVED
8 Master Switch ..... OFF
9 ACL (Anti-Collision Light) ..... OFF
10 Flight Data & Aircraft Log ..... NOTED

PARKING & ENGINE SHUT DOWN CHECK COMPLETED

EMERGENCY

i ***"Lane A"*** or ***"Lane B"*** steady ON: .....land ASAP

ii ***"Lane A"*** flashing ON:.....set 3 000 rpm / Ignition Switch **"B"** / ***"LANE A"*** should light up / Ignition Switch **"A/B"** / warning lights OFF

iii ***"Lane B"*** flashing ON below 5 000 ft AGL: ....land ASAP

iv ***"Lane B"*** flashing ON above 5 000 ft AGL: ....set 4 000 rpm / speed > 140 km/h / Ignition Switch **"B"** (for 2 sec) / then continue as below

iv-1 if prop stopped: perform re-start (*see page 1, lower half*)
iv-2 if prop wind milling: ignition switch on "A"▸"B"▸"A/B", check voltage >13.2 V

Important Data for Light*Wing* AC4 (according AFM) ..... **check T/O performance according AFM**

V_R	(Rotating speed)	**95 km/h**
V_X	(Best angle of climb speed)	**85 km/h**
V_Y	(Best rate of climb speed)	**108 km/h**
V_A	(Manoeuvring speed)	**176 km/h**
V_G	(Best glide speed) (clean)	**110 km/h**
V_{NO}	(Max. structural speed)	**176 km/h**
V_{NE}	(Never exceed speed)	**210 km/h**
V_{FE}	(Max. flaps extend speed)	**165 km/h**
V_S	(Stalling speed - clean)	**82 km/h**
V_{SO}	(Stalling speed – full flap)	**76 km/h**
Max. Crosswind		**10 kt**
Service Ceiling		**12 000 ft**

Weights

MTOW	600 kg
Empty weight	386 kg
Max. useful load	214 kg

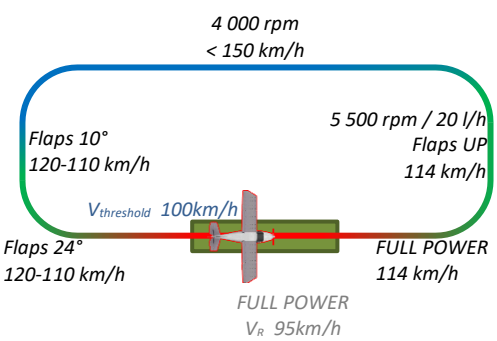
Fuel (MOGAS 95 / 98)

Max. capacity	94 l
Usable fuel	90 l
Fuel flow (average)	15 l/h

Oil (15W40 Sport)

Max. capacity	3.0 l
Min. quantity	2.5 l

Circuit (Power, Configuration, Speed)



Engine: .....100 PS – fuel injection Rotax 912iS Sport
Electrical system: ..... 12 V DC