



PILOTENCLUB WIEN
Wiener Luftfahrerverband

3fly.at

D-EAVZ

Aquila A210 / G500

MTOW = 750 kg / 1.653 lb

A/C-Size: W: 10,3 m H: 2,4 m L: 7,35 m

FPL (EXAMPLE)

7	A/C ID	D-EAVZ
8	Flight Rules	V
	Type of Flight	G
9	Type of A/C	A 210
	Wake Turbul. Cat.	L
10	Equipment	S / S
13	Departure A/D	LOAV
	Departure Time	0830
15	Speed	N0110
	Flight Level	VFR
	Route	SOPRON
16	Destination A/D	LHFM
	Total EET	0025
	Alternate A/D	LOAN
18	Other Info	EET/SOPRON0015
19	Endurance	0430
	Persons on Bord	2
	Emerg. Equipm.	ELT
	A/C Colour	WHITE
	Name PIC	NAME

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FUEL

Fuel	EN228 SUPER
Fuel (alternative)*	AVGAS 100LL
Maximum Fuel	120 L / 31,7 gal
Unusable Fuel	10,4 L / 2,8 gal

*) If alternative Fuel used → Entry in A/C LOG

OIL

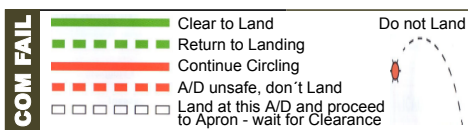
Aero Shell SPORT PLUS 4	
Minimum	
Maximum	DIFF = 0,45 L

TIRE

Front Tire	29 psi / 2,0 bar
Main Tires	36 psi / 2,5 bar

SPEED

V _{SO} (Stall- Flaps max)	39 KIAS
V _G (best glide, Flaps up)	78 KIAS
Max. Demo. X-Wind	15 knots



Consult POH / AFM for "Warnings, Cautions and additional Information"

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D-EAVZ (AQUILA A 210)

9	Fuel Selector	FULLER TANK
10	Carburetor Heat	PUSH (OFF)
11	Throttle	IDLE
12	Prop	FULL FWD
13	Avionic - Master	OFF
14	All CB's	CHECK
15	Attitude Indicator	CAGE
16	Master - GEN / BAT	ON
17	G500 AHRS Warnings	CHECK
18	GEN1 / GEN2 Light	ILLUMIN
19	Fuel Warning Light	ILLUMIN
20	ACL	ON

ENGINE START

1	Before Start Check	COMPL
2	Fuel Pump	ON
3	Fuel Warning Light	OFF
COLD	Throttle - when cold	IDLE
	Choke - when cold	PULL / HOLD
HOT	Throttle - when hot	1-2 cm OPEN
	Choke - when hot	PUSH
6	Brakes Both Pedals	PRESS
7	Prop Area	CLEAR
8	Ignition	START / BOTH
9	Oil Press < 10 sec.	RISING
10	GEN1 Warn. Light	OFF
11	GEN2 Warn. Light	OFF
12	Fuel Pump	OFF
13	Fuel Warning Light	OFF

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BEFORE TAXI

1	Warmup max 1000rpm	OIL MIN 50°C
2	Avionics/Flight Instr.	ON / SET
3	Engine Instruments	CHECK
4	Trim Sw. + Indicator	CHECK
5	Flap Sw. + Indicator	CHECK + UP
6	Landing Light	ON
GENERATOR TEST	Master - GEN	OFF
	Low Volt Warn Light	CHECK
	GEN2 CB	PULL (OFF)
	Low Volt Warn Light	ILLUMIN
	Master - GEN	ON
	Low Volt Warn Light	CHECK
	GEN2 CB	PUSH (ON)
	Voltmeter in green	CHECK
	All Switches	AS REQ
16	Parking Brake	RELEASE
TAXI	Brakes	CHECK
	Steering	CHECK
	Flight Instruments	CHECK

6. Nose Section / Cowling		
41	Ignition / ALT1/BAT	CHECK OFF
42	Parking Brake	SET
43	Crank Engine	CHECK NOISE
44	Oil level / diff. 0,45L	CHECK
45	Coolant Level	CHECK
46	Air+Cooler Intakes	FREE
47	Cowling Fasteners	CHECK
48	Propeller / Spinner	CHECK

7. Nose Ldg Gear		
49	Wheel Fairng / Strut	CHECK
50	Gear Strut Mount	VIS INSP
51	Tire Pressure	CHECK
52	Tire / Wheel	VIS INSP
53	Shock Absorber	CHECK
54	Chocks / Tow Bar	REMOVE

8. Left Wing		
55	Wing Surfaces	VIS INSP
56	Fuel Vent - clear	CHECK
57	Pitot / Static Cover	REMOVE
58	Pitot / stat Opening	CLEAR
59	Wing Tip	VIS INSP
60	Aileron Insp. Wndw.	VIS INSP
61	Fuel Level / Dipstick	CHECK
62	Fuel Filler Cap	CLOSE
63	Flap	CHECK
64	Wing Tiedown	DISCON

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PREFLIGHT		
1	Daily Inspection	COMPL
2	Tow Bar	REMOVE
3	Fuel Quant. Dipstck	2 x CHECK
4	Ignition & GEN/BAT	CHECK OFF
5	Parking Brake	SET
6	Crank Engine	CHECK NOISE
7	Oil level / diff. 0,45L	CHECK
8	Coolant Level	CHECK
9	Tiedown Straps	REMOVE
10	Baggage Door	CLOSE/LOCK
11	Pitot Cover	REMOVE
12	Control Locks	REMOVE
13	Seating Positions	ADJUST/LOCK
14	Carburetor Heat	FREE - PUSH
15	Cabin Heat	FREE - PUSH
16	Choke free move	AUTO RESET
17	Throttle free move	IDLE
18	Prop free move	FULL FWD
19	Mass & Balance	IN LIMITS

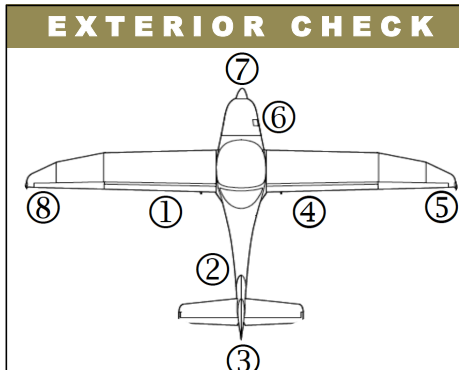
BEF. ENGINE START		
1	Preflight Check	COMPL
2	Passenger Briefing	COMPL
3	Seats	ADJUST
4	Seat Belts / Harn.	FASTEN
5	Canopy Closed	LOCK
6	Canopy locked	CHECK
7	Parking Brake	SET
8	Controls movement	CHECK

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DAILY INSPECTION		
1	Fuel Tank Sumps	2 x DRAIN
2	Electr. Fuel Pump	DRAIN

CABIN CHECK		
3	A/C Documents	CHECK
4	Ignition Key	REMOVE
BATTERY	Master - GEN / BAT	ON
	Lights (GEN1, Fuel)	ILLUMIN
	Lights (GEN2, Volt)	ILLUMIN
	Master - GEN	OFF
	Eng. Instrument	CHECK
	Fuel Quantity	CHECK
	Light: Nav, Ldg, Instr	CHECK
	ACL, Stall Warning	CHECK
	Master - BAT	OFF
	14	ELT
15	Foreign Objects	REMOVE
16	Baggage stowed	SECURE
17	Canopy clean	NO DAMAGE
18	Flashlights	CHECK



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1. Left Main Gear		
19	Wheel Fairng / Strut	CHECK
20	Tire Press /Slip Mkr.	CHECK
21	Tire / Wheel / Brake	VIS INSP
22	Chocks	REMOVE

2. Fuselage		
23	Shell & Skid Plate	VIS INSP
24	Tail Tiedown	DISCON

3. Empennage		
25	Elevat. & Stabilizer	VIS INSP
26	Rudder	VIS INSP
27	Fitting Bolt Connect.	CHECK
28	Vertical Stabilizer	VIS INSP

4. Right Main Gear		
29	Wheel Fairng / Strut	CHECK
30	Tire Press /Slip Mkr.	CHECK
31	Tire / Wheel / Brake	VIS INSP
32	Chocks	REMOVE

5. Right Wing		
33	Wing Surfaces	VIS INSP
34	Fuel Vent - clear	CHECK
35	Flap	CHECK
36	Aileron/Insp. Wndw.	VIS INSP
37	Wing Tip	VIS INSP
38	Fuel Level- Dipstick	CHECK
39	Fuel Filler Cap	CLOSE
40	Wing Tiedown	DISCON

BEFORE TAKEOFF		
1	Transponder	CHECK
2	Brakes	APPLY
3	Parking Brake	SET
4	Compass / Gyro	CHECK / SET
5	Fuel Selector	FULLER TANK
6	Fuel Warng Light	OFF 
7	Engine Instruments	IN GREEN
8	Throttle	1700 rpm
MAGNETOS	L - B - R - B	SWITCH
	Drop max.120 rpm	CHECK
	Diff L/R max 50 rpm	CHECK
	Ignition Switch Both	CONFIRM
13	Carburetor pull (on)	DROP 20-50 rpm
14	Carburetor	PUSH (OFF)
GOVERNOR	Prop 3 x to start / cruise end stops	
	↳ Drop	200 +/- 50 rpm
	↳ Oil Press	CONSTANT
	↳ Manifold Press	CHANGE
19	Throttle	IDLE
20	Fuel Pump	ON
21	Flaps	T/O
22	Trim	SET START
23	All CB's	CHECK
24	Contr. Movement	FREE
25	Lap Belt	TIGHTEN
26	Canopy → closed	LOCK
27	Departure Briefing	COMPL
28	T/O Briefing	COMPL
29	Parking Brake	RELEASE


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LINE UP / TAKEOFF		
1	Before T/O Check	COMPL
2	Landing Light	AS REQ
3	Approach Sector	CLEAR
4	Runway Heading	CONFIRM
5	Throt / Prop / Carb	FULL FWD
6	RPM Max 2260	CHECK
7	T/O Power Values	CORRECT
8	Elevator	NEUTRAL
9	Rudder	DIRECTION
10	Rotate (V _R)	50 KIAS
11	Climb Initialy	57 KIAS
12	Short T/O (V _x)	52 KIAS

CLIMB		
1	Throttle	FULL
2	Prop Max 2260 rpm	CHECK
3	Engine Instruments	IN GREEN
4	Climb Speed (V _y)	65 KIAS
5	min. 400 ft AGL - Check Safe Spd	
6	Flaps	UP
7	Trim	AS REQ
8	Landing Light	OFF
9	Fuel Pump	OFF
10	Fuel Warning Light	CHECK

Airspeeds for Normal Operations

TAKE OFF

Climb Flaps T/O	57 KIAS
V _x Flaps T/O	52 KIAS
V _y Flaps UP	65 KIAS 

LANDING

Final APP Flaps LDG	60 KIAS
Balked Ldg Flaps LDG	60 KIAS
Max. demo X Wind	15 KIAS
V _{FE} max, Flaps LDG	90 KIAS

CRUISE

V _A Maneuvering	112 KIAS
V _{No} Max turbul. Air	130 KIAS
V _{NE} Max Airspeed	165 KIAS

Airspeeds for Emergency Operations

V _A Maneuvering	112 KIAS
Best Glide Flaps UP	78 KIAS
Best Glide Flaps T/O	73 KIAS
Precaut. Flaps LDG	60 KIAS

No Engine Power

Flaps T/O	65 KIAS
Flaps UP	70 KIAS

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Press. Alt	Temp. (ISA)	Cruise power - % of the maximum continuous power (MCP)														
		55%			65%			75%			85%			MCP		
		RPM	MP	F/F	RPM	MP	F/F	RPM	MP	F/F	RPM	MP	F/F	RPM	MP	F/F
	T	[1/min]	[in Hg]	[l/h]	[1/min]	[in Hg]	[l/h]	[1/min]	[in Hg]	[l/h]	[1/min]	[in Hg]	[l/h]	[1/min]	[in Hg]	[l/h]
0	15	1900	24.6	14	2000	25.7	15.6	21.0	27.0	21.0	21.0	21.0	22.60	27.7	24	26
2,000	11	1900	24.0	15	2000	24.7	16.0	22.00	25.7	21.3	21.3	22.60	26.7	22	22	26
4,000	7	1900	23.3	16	2100	23.3	16.8	22.60	24.3	21.5	21.5	22.60	25.2	22		
6,000	3	2000	22.0	17	2200	22.7	19.3	22.60	23.3	22.3	22.3					
8,000	-1	2100	21.0	18	2200	21.5	21.5	22.60	21.5	23.0	23.0					
10,000	-5	2200	19.7	19	2260	20.1	22.0									
12,000	-9	2260	18.5	19												

MCP: Maximum continuous power
 RPM: Revolutions per minute
 MP: Manifold pressure
 F/F: Fuel flow

Data correction for non-ISA temperature conditions:

For each 10°C above ISA: increase manifold pressure by 3%, fuel consumption will increase by 5%
 For each 10°C below ISA: decrease manifold pressure by 3%, fuel consumption will decrease by 5%

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CRUISE		
1 Throttle	📖	AS REQ
2 Prop		1650-2260 rpm
3 Flaps		CHECK UP
4 Trim		AS REQ
5 Engine Instruments		IN GREEN
6 Manvr. Speed (V _A)		112 KIAS
7 Turbulent Air (V _{No})		MAX 130 KIAS

📖 Full Throttle: → Prop min. 2140 rpm

DESCENT		
1 Throttle		AS REQ
2 Prop		MIN 2000 rpm
3 Carburetor Heat		AS REQ
RAPID DESCENT	Throttle	IDLE
	Prop	FULL FWD
	Carburetor Heat	PULL (ON)
	Flaps	UP
Airspeed		MAX 130 KIAS
Engine Instruments		IN GREEN

LANDING		
1 Lap Belt		TIGHTEN
2 Fuel Pump		ON
3 Landing Light		AS REQ
4 Carburetor Heat		PULL (ON)
5 Throttle		AS REQ
5 Airspeed (V _{FE})		MAX 90 KIAS
6 Flaps		T/O OR LDG
7 Trim		AS REQ

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8 Flaps	📖	LDG
9 Fin. Appr. Spd.	📖	60 KIAS
10 Prop		FULL FWD
GO AROUND	Throttle	FULL FWD
	Prop	FULL FWD
	Carburetor Heat	PUSH (OFF)
	Flaps	T/O
Climb Airspeed		65 KIAS

📖 CAUTION: Strong cross/head winds may require less flaps / higher airspeeds

AFTER LANDING		
1 Throttle		AS REQ
2 Flaps		UP
3 P/S Heat		OFF
4 Carburetor Heat		PUSH (OFF)
5 Fuel Pump		OFF
6 Landing Light		OFF
7 XPDR GND Mode		CHECK

SHUT DOWN		
1 Throttle		IDLE
2 Parking Brake		SET
3 Flaps		LDG
4 ELT (121,5 MHz)		CHECK
5 Avionic Master		OFF
6 Ignition		OFF
7 Electr. Equipment		OFF
8 Instrument Lights		OFF
9 Master - ALT1 / BAT		OFF
10 Seats Pos. (L & R)		FULL AFT
11 Chocks / Tiedowns		AS REQ.

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