



PILOTENCLUB WIEN
Wiener Luftfahrerverband

3fly.at

③

OE-AKW (AQUILA A 211G)

3fly.at

OE-AKW

Aquila A211G / G500

MTOW = 750 kg / 1.653 lb

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

OPERATOR

MFU Flugbetriebs GmbH
A-2540 Bad Vöslau, Flugplatz
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CONTACT

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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 36 psi / 2,5 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

COM FAIL

Clear to Land
 Return to Landing
 Continue Circling
 A/D unsafe, don't Land
 Land at this A/D and proceed to Apron - wait for Clearance

Do not Land

F P L (E X A M P L E)		
7	A/C ID	OE-AKW
8	Flight Rules	V
	Type of Flight	G
9	Type of A/C	A 211
	Wake Turbul. Cat.	L
	Equipment	SY / S
13	Departure A/D	LOAV
	Departure Time	0830
15	Speed	N0110
	Flight Level	VFR
	Route	SOPRON
	Destination A/D	LHFM
16	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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10	Carburetor Heat	PUSH (OFF)
11	Throttle	IDLE
12	Prop	FULL FWD
13	Avionic - Master	OFF
14	P/S Heat	OFF
15	All CB's	CHECK
16	Attitude Indicator	CAGE
17	Master - ALT1 / BAT	ON
18	G500 AHRS Warnings	CHECK
19	ALT1 / ALT2 Light	ILLUMIN
20	Fuel Warning Light	ILLUMIN
21	P/S HEAT Light	ILLUMIN
22	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	ALT1 Warning Light	OFF
11	ALT2 Warning Light	OFF
12	Fuel Pump	OFF
13	Fuel Warning Light	OFF

BEFORE TAXI		
1	Warmup max 1000rpm	OIL MIN 50°C
2	Avionics	ON / SET
3	Engine Instruments	CHECK
4	Volt Meter in green	CHECK
5	Trim Sw. + Indicator	CHECK
6	Flap Sw. + Indicator	CHECK + UP
7	P/S Heat ON	LIGHT OFF
8	P/S Heat OFF	LIGHT ON
ALTERNATOR TEST	Throttle 1.000 rpm	SET
	NAV Lights	ON
	Landing Light	ON
	Instrument Lights	ON
	Ammeter Charge	CHECK
	Master - ALT1	OFF
	Ammeter Discharge	CHECK
	ALT2 CB	PULL (OFF)
	If Discharge increase	→ ALT2 OK
	If no Change	→ ALT2 U/S
If one ALT u/s	→ NO NVFR	
ALT2 CB	PUSH (ON)	
Master - ALT1	ON	
If Charge increase	→ ALT1 OK	
If no change	→ ALT1 U/S	
If one ALT u/s	→ NO NVFR	
All Switches	AS REQ	
26	Parking Brake	RELEASE
TAXI	Brakes	CHECK
	Steering	CHECK
	Flight Instruments	CHECK

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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

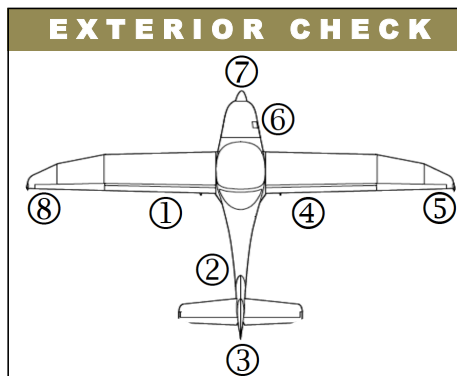
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PREFLIGHT		
1	Daily Inspection	COMPL
2	Tow Bar	REMOVE
3	Fuel Quant. Dipstk	2 x CHECK
4	Ignition, ALT1 / BAT	CHECK OFF
5	Parking Brake	SET
6	Crank Engine	CHECK NOISE
7	Oil level / diff. 0,45L	CHECK
8	Coolant Level	CHECK
9	Tiedown Straps	REMOVE
10	Baggage 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
9	Fuel Selector	FULLER TANK

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 - ALT1 / BAT	ON
	Lights (ALT1, Fuel)	ILLUMIN
	Lights (ALT2, Volt)	ILLUMIN
	Master - ALT1	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



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

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BEFORE TAKEOFF		
1 Transponder	CHECK	
2 Brakes	APPLY	
3 Parking Brake	SET	
4 Compass / Gyro	CHECK / SET	
5 Fuel Selector	FULLER TANK	
6 Fuel Warnng 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	WHITE MARK	
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 = 2300 - 2385	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 full forward	MAX 5 MIN.
3 Prop 2260 rpm	REDUCE
4 Engine Instruments	IN GREEN
5 Climb Speed (V _Y)	65 KIAS
6 min. 400 ft AGL - Check Safe Spd	
7 Flaps	UP
8 Trim	AS REQ
9 Landing Light	OFF
10 Fuel Pump	OFF
11 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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Standard temperature		Engine performance in % of MCP																											
		55%				65%				75%				85%				MCP											
Pressure altitude	H	T	T	RPM	MP	FF	FF	RPM	MP	FF	FF	RPM	MP	FF	FF	RPM	MP	FF	FF	RPM	MP	FF	FF						
		[°C]	[°F]	[U/min]	[in Hg]	[l/h]	[gal/h]	[U/min]	[in Hg]	[l/h]	[gal/h]	[U/min]	[in Hg]	[l/h]	[gal/h]	[U/min]	[in Hg]	[l/h]	[gal/h]	[U/min]	[in Hg]	[l/h]	[gal/h]	[U/min]	[in Hg]	[l/h]	[gal/h]		
0	15	59	1900	24.6	14.0	3.7	2000	25.7	15.6	4.12	4.12	2100	27.0	21.0	5.55	2260	27.7	24.0	6.34	2260	28.0	26.0	26.0	2260	27.0	26.0	26.0	6.87	6.87
2000	11	52	1900	24.0	15.0	4.0	2000	24.7	16.0	4.23	4.23	2200	25.7	21.3	5.63	2260	26.7	22.0	5.81	2260	27.0	26.0	26.0	2260	27.0	26.0	26.0	6.87	6.87
3000	9	48	1900	23.7	15.5	4.1	2050	24	16.4	4.33	4.33	2230	25.0	21.4	5.65	2260	26	22.0	5.81	2260	27.0	26.0	26.0	2260	27.0	26.0	26.0	6.87	6.87
4000	7	44	1900	23.3	16.0	4.2	2100	23.3	16.8	4.44	4.44	2260	24.3	21.5	5.68	2260	25.2	22.0	5.81	2260	27.0	26.0	26.0	2260	27.0	26.0	26.0	6.87	6.87
5000	5	41	1950	22.7	16.5	4.4	2150	23	18.1	4.77	4.77	2260	23.8	21.9	5.79	2260	25.2	22.0	5.81	2260	27.0	26.0	26.0	2260	27.0	26.0	26.0	6.87	6.87
6000	3	37	2000	22.0	17.0	4.7	2200	22.7	19.3	5.1	5.1	2260	23.3	22.3	5.89	2260	25.2	22.0	5.81	2260	27.0	26.0	26.0	2260	27.0	26.0	26.0	6.87	6.87
8000	-1	30	2100	21.0	18.0	4.8	2200	21.5	21.5	5.68	5.68	2260	21.5	23.0	6.08	2260	25.2	22.0	5.81	2260	27.0	26.0	26.0	2260	27.0	26.0	26.0	6.87	6.87
10,000	-5	23	2200	19.7	19.0	5.0	2260	20.1	22.0	5.81	5.81	2260	20.1	22.0	5.81	2260	25.2	22.0	5.81	2260	27.0	26.0	26.0	2260	27.0	26.0	26.0	6.87	6.87
12,000	-9	16	2260	18.5	19.0	5.0	2260	20.1	22.0	5.81	5.81	2260	20.1	22.0	5.81	2260	25.2	22.0	5.81	2260	27.0	26.0	26.0	2260	27.0	26.0	26.0	6.87	6.87

Correction for non-ISA temperature conditions:
 For each 50°F (10°C) above ISA: increase Manifold Pressure by 3%, Fuel consumption increases by 5%
 For each 50°F (10°C) below ISA: decrease Manifold Pressure by 3%, Fuel consumption decreases by 5%

MCP: maximum continuous power
 RPM: revolutions per minute
 MP: manifold pressure
 FF: fuel flow

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CRUISE		
1 Throttle	AS REQ	
2 Prop	1650-2260 rpm	
3 Flaps	CHECK UP	
4 Trim	AS REQ	
5 P/S Heat as req.	OAT>15°C OFF	
6 Engine Instruments	IN GREEN	
7 Manvr. Speed (V _A)	112 KIAS	
8 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	
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
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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