



PILOTENCLUB WIEN
Wiener Luftfahrerverband

3fly.at

③

D-ELFH (AQUILA A 211 GX)

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D-ELFH

Aquila A211GX / G500

MTOW = 750 kg / 1.653 lb

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

FPL (EXAMPLE)		
7	A/C ID	D-ELFH
8	Flight Rules	V
	Type of Flight	G
9	Type of A/C	A 211
	Wake Turbul. Cat.	L
10	Equipment	SY / S
13	Departure A/D	LOAV
	Departure Time	0830
15	Speed	N0110
	Flight Level	VFR
16	Route	SOPRON
	Destination A/D	LHFM
18	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 / Tel - 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

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

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

This document does not replace POH / AFM - (DELPH 2019 V1.0)

10	Carburetor Heat	PUSH (OFF)
11	Throttle	IDLE
12	Prop	FULL FWD
13	Avionic - Master	OFF
14		
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	ENG warning Light	ILLUMIN
21		
22	ACL	ON

ENGINE START		
1	Before Start Check	COMPL
2	Fuel Pump	ON
3	Fuel Pressure	IN GREEN
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

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BEFORE TAXI		
1	Warmup max 1000rpm	OIL MIN 50°C
2	Avionics	ON / SET
3	Engine Instruments	CHECK
4	Annunc. Panel	TEST
5	Trim Sw. + Indicator	CHECK
6	Flap Sw. + Indicator	CHECK + UP
7		
8		
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	

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	

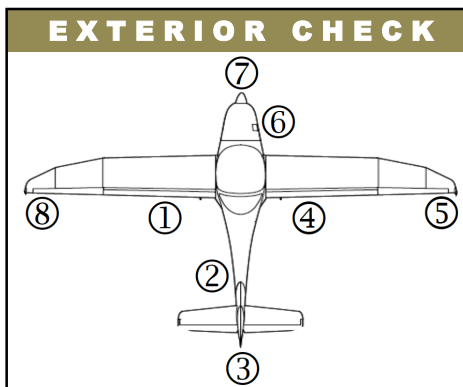
BEF. ENGINE START		
1 Preflight Check	COMPL	
2 Passenger Briefing	COMPL	
3 Seats	ADJUST	
4 Seat Belts / Harn.	FASTEN	
5 Canopy Closed	LOCK	
6 Canopy locked	CHECK	
7 Parking Brake	SET	
8 Controls movement	CHECK	
9 Fuel Selector	FULLER TANK	

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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 - ALT1 / BAT	ON
	Annunc. Panel	TEST
	Master - ALT1	OFF
	Eng. Instrument	CHECK
	Fuel Quantity	CHECK
	Light: Nav, Ldg, Instr	CHECK
	ACL, Stall Warning	CHECK
	Master - BAT	OFF
	13 ELT	ARM
	14 Foreign Objects	REMOVE
15 Baggage stowed	SECURE	
16 Canopy clean	NO DAMAGE	
17 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	

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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 Pressure 	IN GREEN
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 ENG warning Light 	OFF
5 Engine Instruments	IN GREEN
6 Climb Speed (V _Y)	65 KIAS
7 min. 400 ft AGL - Check Safe Spd	
8 Flaps	UP
9 Trim	AS REQ
10 Landing Light	OFF
11 Fuel Pump	OFF
12 Fuel Pressure	IN GREEN

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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Pressure altitude		Standard temperature		Engine performance in % of MCP														
				55%			65%			75%			85%			MCP		
				RPM	MP	FF	RPM	MP	FF	RPM	MP	FF	RPM	MP	FF	RPM	MP	FF
H	T	[U/min]	[in Hg]	[gal/h]	[U/min]	[in Hg]	[gal/h]	[U/min]	[in Hg]	[gal/h]	[U/min]	[in Hg]	[gal/h]	[U/min]	[in Hg]	[gal/h]		
[ft]	[°F]																	
0	15	1900	24.6	14.0	2000	25.7	15.6	4.12	2100	27.0	21.0	5.65	2260	27.7	24.0	6.34		
2000	11	1900	24.0	15.0	2000	24.7	16.0	4.23	2200	25.7	21.3	5.63	2260	26.7	22.0	5.81		
3000	9	1900	23.7	15.5	2050	24	16.4	4.33	2230	25.0	21.4	5.65	2260	26	22.0	5.81		
4000	7	1900	23.3	16.0	2100	23.3	16.8	4.44	2260	24.3	21.5	5.68	2260	25.2	22.0	5.81		
5000	5	1950	22.7	16.5	2150	23	18.1	4.77	2260	23.8	21.9	5.79						
6000	3	2000	22.0	17.0	2200	22.7	19.3	5.1	2260	23.3	22.3	5.89						
8000	-1	2100	21.0	18.0	2200	21.5	21.5	5.68	2260	21.5	23.0	6.08						
10,000	-5	2200	19.7	19.0	2260	20.1	22.0	5.81										
12,000	-9	2260	18.5	19.0	5.0													

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

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%

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CRUISE		
1 Throttle	AS REQ	
2 Prop	1650-2260 rpm	
3 Flaps	CHECK UP	
4 Trim	AS REQ	
5		
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	

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		
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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