



Aircraft Checklist

MFU - Pilotenclub - LOAV



3fly.at

D-ELFH

AQUILA A211GX

MTOM = 750 kg / 1.653 lb

A/C-Size: W: 10.3 m H: 2.4m 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	A211
	Wake Turbul. Cat.	L
10	Equipment	SY/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

OPERATOR

MFU Pilotenclub

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Flugplatz 1, Top 1

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FUEL

Fuel	EN228 SUPER
Fuel (alt.)*	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	DIFF = 0.45 L
Maximum	

TIRE

Front Tire	36 psi / 2.5 bar
Main Tires	36 psi / 2.5 bar

SPEED

V _{S0} (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	

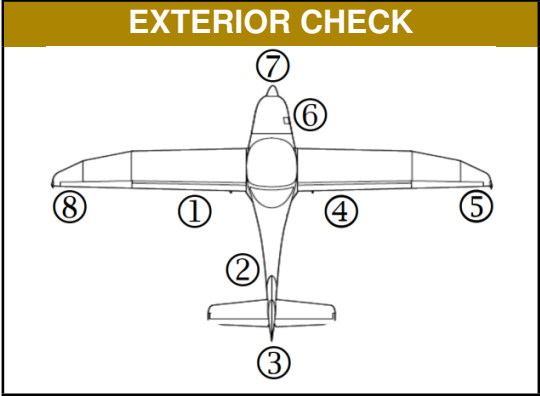
Consult POH/AFM for "Warnings, Cautions and additional Information"

This document does not replace POH/AFM - (DELFH 2023 V2.4)

DAILY INSPECTION		
1	Fuel Tank Sumps	2x 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



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

*) Red dot under tire valve



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



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



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

*) Red dot under tire valve



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

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6. Nose Section / Cowling		
40	Ignition/ALT1/BAT	CHECK OFF
41	Parking Brake	SET
42	Crank Engine	CHECK NOISE
43	Oil level/diff. 0.45L	CHECK
44	Coolant Level	CHECK
45	Air+Cooler Intakes	FREE
46	Winterkit Temp Lmt. +10°	CHECK
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

10	Carburetor Heat	PUSH (OFF)
11	Throttle	IDLE
12	Prop	FULL FWD
13	Avionic - Master	OFF
14	All CBs	CHECK
15	Attitude Indicator	CAGE
16	Master - ALT1/BAT	ON
17	G500 AHRS Warnings	CHECK
18	ALT1/ALT2 Lights	ILLUMIN
19	ENG Warning Lights	ILLUMIN
20	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

BEFORE TAXI		
1	Warmup max 1000 _{rpm}	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
TEST	Throttle 1000 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
ALTERNATORS	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
24	Parking Brake	RELEASE
TAXI	Brakes	CHECK
	Steering	CHECK
	Flight Instruments	CHECK

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 3x Cycle Slowly	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 CBs	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

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 Initially	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

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})	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
6	Airspeed (V _{FE}) Max.	90 KIAS
7	Flaps	T/O OR LDG
8	Trim	AS REQ
9	Flaps 	LDG

10	Fin. Appr. Spd. 	60 KIAS
11	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	Carburetor Heat	PUSH (OFF)
4	Fuel Pump	OFF
5	Landing Light	OFF
6	XPDR GND Mode	CHECK

SHUT DOWN		
1	Throttle	IDLE
2	Parking Brake	SET
3	Flaps	LDG
4	ELT (121.5 MHz)	CHECK
5	Flight Plan	CLOSED
6	Avionic Master	OFF
7	Ignition	OFF
8	Electr. Equipment	OFF
9	Instrument Lights	OFF
10	Master - ALT1/BAT	OFF
11	Seats Pos. (L&R)	FULL AFT
12	Flight Logger	SLIDE CARD
13	Chocks/Tiedowns	AS REQ

Pressure altitude	Standard temperature		Engine performance in % of MCP																														
			55%						65%						75%						85%												
			RPM	MP	FF	FF	[gal/h]	[U/min]	RPM	MP	FF	FF	[gal/h]	[U/min]	RPM	MP	FF	FF	[gal/h]	[U/min]	RPM	MP	FF	FF	[gal/h]	[U/min]	RPM	MP	FF	FF	[gal/h]	[U/min]	
H	T	T	[°C]	[°F]	[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]	[U/min]	[in Hg]	[l/h]	[gal/h]	[U/min]	

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%

Airspeeds for Normal Operations**TAKEOFF**

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 knots
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