

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



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D-ELFH

AQUILA A211GX

MTOM = 750 kg / 1.653 lb
A/C-Size: W: 10.3 m H: 2.4m L: 7.4 m

OPERATOR

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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

A/D not this A/C type

Is Apron - Wait for Clearance

Do not Land

DAILY INSPECTION

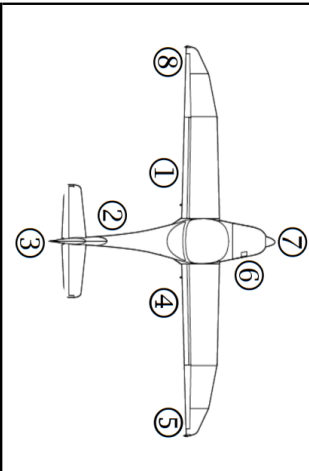
1 Fuel Tank Sumps	2x DRAIN
2 Electr. Fuel Pump	DRAIN

CABIN CHECK

3 A/C Documents	CHECK
4 Ignition Key	REMOVE
Master – ALT1/BAT	ON
Anunc. 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

B A T T E R Y

Master – ALT1/BAT	ON
Anunc. Panel	TEST
Master - ALT1	OFF
Eng. Instrument	CHECK
Fuel Quantity	CHECK
Light: Nav, Ldg, Instr	CHECK
ACL, Stall Warning	CHECK
Master – BAT	OFF

EXTERIOR CHECK**1. Left Main Gear**

18 Wheel Fairing/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 Fairing/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

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

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

Pressure altitude	Standard temperature		Engine performance in % of MCP																			
			55%				65%				75%				85%				MCP			
			RPM	MP	FF	FF	RPM	MP	FF	FF	RPM	MP	FF	FF	RPM	MP	FF	FF	RPM	MP	FF	FF
H	T	T	RPM	MP	FF	FF	RPM	MP	FF	FF	RPM	MP	FF	FF	RPM	MP	FF	FF	RPM	MP	FF	FF
[ft]	[°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]
0	15	59	1900	24.6	14.0	3.7	2000	25.7	15.6	4.12	2100	27.0	21.0	5.55	2260	27.7	24.0	6.34	2260	28.0	26.0	6.87
2000	11	52	1900	24.0	15.0	4.0	2000	24.7	16.0	4.23	2200	25.7	21.3	5.63	2260	26.7	22.0	5.81	2260	27.0	26.0	6.87
3000	9	48	1900	23.7	15.5	4.1	2050	24	16.4	4.33	2230	25.0	21.4	5.65	2260	26	22.0	5.81				
4000	7	44	1900	23.3	16.0	4.2	2100	23.3	16.8	4.44	2260	24.3	21.5	5.68	2260	25.2	22.0	5.81				
5000	5	41	1950	22.7	16.5	4.4	2150	23	18.1	4.77	2260	23.8	21.9	5.79								
6000	3	37	2000	22.0	17.0	4.7	2200	22.7	19.3	5.1	2260	23.3	22.3	5.89								
8000	-1	30	2100	21.0	18.0	4.8	2200	21.5	21.5	5.68	2260	21.5	23.0	6.08								
10,000	-5	23	2200	19.7	19.0	5.0	2260	20.1	22.0	5.81												
12,000	-9	16	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	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
AROUND	Throttle	FULL FWD
	Prop	FULL FWD
	Carburetor Heat	PUSH (OFF)
12	Flaps	T/O
13	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

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 Fairing/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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D-ELFH (AQUILA A211GX)

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
COLD	Choke - when cold	PULL/HOLD
HOT	Throttle - when hot	1-2 cm OPEN
HOT	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
	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
	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
	Parking Brake	RELEASE
	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
	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)
	Prop 3x Cycle Slowly	END STOPS
	→ Drop	200 ±50 rpm
	→ Oil Press	CONSTANT
	→ Manifold Press	CHANGE
	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

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