

Airspeeds for Normal Operations

TAKEOFF

- V_R Flaps T/O 51 KIAS
- V_X Flaps T/O 58 KIAS
- V_Y Flaps T/O 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 81 KIAS

CRUISE

- V_A Maneuvering 104 KIAS
- V_{NO} Max turbul. Air 117 KIAS
- V_{NE} Max Airspeed 161 KIAS

PRECAUTIONARY LANDING

- With Power & Flaps LDG 54 KIAS

Airspeeds for Emergency Operations

- V_A Maneuvering 104 KIAS
- Best Glide Flaps T/O 70 KIAS

No Engine Power

- Flaps T/O 59 KIAS



3fly.at

OE-ARW

KATANA DA20-100

MTOM = 750 kg / 1.653 lb

A/C-Size: W: 10.9 m H: 2.1 m L: 7.2 m

OPERATOR

MFU Pilotenclub

A-2542 Kottlingbrunn

Flugplatz 1, Top 1

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FPL (EXAMPLE)

7	A/C ID	OE-ARW
8	Flight Rules	V
	Type of Flight	G
9	Type of A/C	DV20
	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

CONTACT

Tower LOAV	+43 1 700729201
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FUEL

Fuel	EN228 SUPER
Fuel (alt.)*	AVGAS 100LL
Maximum Fuel	76 L / 20.1 gal
Unusable Fuel	2 L / 0.6 gal

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

OIL

Rotax XPS SAE 5W50	
Minimum	DIFF = 0.45 L
Maximum	

TIRE

Front Tire	27 psi / 1.8 bar
Main Tires	34 psi / 2.3 bar

SPEED

V _{S0} (Stall - Flaps max)	38 KIAS
V _G (best glide, Flaps T/O)	70 KIAS
Max. Demo. X-Wind	15 knots

COM FAIL

	Clear to Land
	Return to Landing
	Continue Circling
	A/D unsafe, don't Land
	Do not Land
	Land at this A/C if possible
	to Apron - wait for Clearance

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

This document does not replace POH/AFM - (ARW 2026 V1.5)

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PREFLIGHT INSPECTION

1 Fuel Tank Sump	DRAIN
2 A/C Documents	ACCESSIBLE
3 Checklists	ACCESSIBLE
4 Parking Brake	SET
5 Ignition Key	REMOVE
6 Foreign Objects	REMOVE
7 All CB's	IN PRESSED
Battery Master	ON
Fuel Quantity	CHECK
Map Light	OPERATIONAL
Instrument Lights	OPERATIONAL
Flaps Indicator	OPERATIONAL
Battery Master	OFF
14 Throttle	IDLE
15 Prop High RPM	FULL FWD
16 Carburetor Heat	OFF
17 ELT	ARM/AUTO
18 Temp Indicator	CHECKED
19 Baggage Stowed	SECURE
20 Canopy Clean	NO DAMAGE

1. Left Main Gear

21 Wheel Fairing/Strut	VIS INSP
22 Tire Press/Slip Mkr	CHECK
23 Tire/Wheel/Brake	VIS INSP
24 Chocks	REMOVE

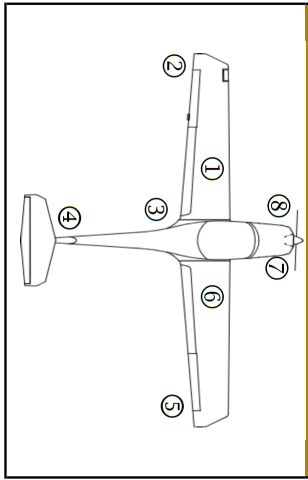
2. Left Wing

25 Entire Wing	VIS INSP
26 Stall Warning	CHECK
27 Pilot / Stat Opening	CLEAR
28 Wing Tip / Bala. Mass	VIS INSP
29 Pos Light	CHECK
30 Flap	VIS INSP
31 Wing Tiedown	DISCON
32 Aileron Window	VIS INSP

3. Fuselage

33 Skin	VIS INSP
34 Tank Vent	CHECK
35 Tank Drain	CONFIRM
36 Fuel Quantity	PIPETTE

EXTERIOR CHECK



4. Empennage

37 Fin & Contr. Surface	VIS INSP
38 Skid Plate	VIS INSP
39 Tail Tiedown	DISCON
40 Trim Tab	VIS INSP

Pressure Altitude ft. m		Standard Temp. °C °F		Engine power in % of max. continuous power.											
				55 %				65 %				75 %			
				RPM *100	MP in. Hg	Fuel Flow l/h gal/hr		RPM *100	MP in. Hg	Fuel Flow l/h gal/hr		RPM *100	MP in. Hg	Fuel Flow l/h gal/hr	
0	0	15	59	19	24.7	13.6	3.6	20	25.7	15.6	4.1	21	27.0	18.0	4.8
2000	600	11	52	19	24.0	14.4	3.8	20	24.7	16.0	4.2	22	25.7	18.4	4.9
4000	1200	7	45	19	23.3	15.6	4.1	21	23.3	16.8	4.4	22.6	24.3	19.6	5.2
6000	1800	3	38	20	22.0	16.8	4.4	22	22.7	19.6	5.2	22.6	23.3	23.2	6.1
8000	2400	-1	31	21	21.0	18.0	4.8	22	21.7	21.2	5.6	22.6	22.0 ^x	23.6 ^x	6.2 ^x
10000	3000	-5	24	22	19.7	19.2	5.1	22.6	20.3 ^x	22.4 ^x	5.9 ^x				
12000	3600	-8	17	22.6	18.0 ^x	20.4 ^x	5.4 ^x								

Pressure Altitude ft. m		Standard Temp. °C °F		85 %				95 %				105 %			
				RPM *100	MP in. Hg	Fuel Flow l/h gal/hr		RPM *100	MP in. Hg	Fuel Flow L/h gal/hr		RPM *100	MP in. Hg	Fuel Flow l/h gal/hr	
0	0	15	59	22.6	27.7	22.0	5.8	22.6	28.3	26.0	6.9	23.8	29.7 ^x	30.0 ^x	7.9 ^x
2000	600	11	52	22.6	26.7	22.4	5.9	22.6	27.7 ^x	26.8 ^x	7.1 ^x				
4000	1200	7	45	22.6	25.7 ^x	25.2 ^x	6.7 ^x								

LANDING	
1	Airspeed (V_{FE}) Max. 81 KIAS
2	Flaps T/O
3	Lap Belt TIGHTEN
4	Fuel Pump ON
5	Landing Light AS REQ
6	Carburetor Heat PULL ON
7	Throttle AS REQ
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 58 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

5. Right Wing	
41	Entire Wing VIS INSP
42	Wing Tip / Bala. Mass VIS INSP
43	Pos Light CHECK
44	Flap CHECK
45	Wing Tiedown DISCON
46	Alleron Window VIS INSP



6. Right Main Gear	
47	Wheel Fairing/Strut CHECK
48	Tire Press/Slip Mkr CHECK
49	Tire/Wheel/Brake VIS INSP
50	Chocks REMOVE



7. Nose Section / Cowling	
51	Ignition CHECK OFF
52	Parking Brake SET
53	Prop GND Clearance 25 CM
54	Crank Engine  CHECK NOISE
55	Oil level/diff. 0.45L CHECK
56	Coolant Level VIS INSP
57	Cowling VIS INSP
58	Air+Cooler Intakes FREE
59	Prop Damage CHECK
60	Propeller/Spinner VIS INSP



8. Nose Ldg Gear	
61	Wheel Fairing/Strut CHECK
62	Gear Strut Mount VIS INSP
63	Tire Pressure CHECK
64	Tire/Wheel VIS INSP
65	Tow Bar REMOVE

BEEF. ENGINE START	
1	Preflight Check COMPL
2	Passenger Briefing COMPL
3	Pedals ADJUST
4	Seat Belts / Harn. FASTEN
5	Canopy Closed LOCK
6	Parking Brake SET
7	Controls Movement CHECK
8	Fuel Shut-Off Valve OPEN
9	Carburetor Heat FREE-OFF
10	Throttle FREE-IDLE
11	Prop RPM FULL FWD
12	Friction Device ADJUST
13	Avionic - Master OFF
14	All CBs CHECK
15	Battery Master ON
16	Gen. Warning Light ILLUMIN
17	Fuel Warning Light ILLUMIN
18	Canopy Warning Light OFF
19	ACL ON

ENGINE START		
1 Before Start Check	COMPL	
2 Fuel Pump	ON	
3 Fuel Pump Noise	CHECK	
4 Fuel Warning Light	OFF	
5 Throttle - when cold	IDLE	
6 Throttle - when cold	PULL/HOLD	
7 Throttle - when hot	2 cm OPEN	
8 Choke - when hot	PUSH	
9 Brakes Both Pedals	PRESS	
10 Prop Area	CLEAR	
11 Ignition	START/BOTH	
12 Oil Press < 10 sec	RISING	
13 Gen. Warning Light	OFF	
14 Fuel Pump	OFF	
15 Fuel Warning Light	OFF	

BEFORE TAKEOFF		
1 Transponder	SET ALT	
2 Brakes Both	APPLY	
3 Parking Brake	SET	
4 Compass/G5	CHECK/SET	
5 Fuel Warnng Light	OFF	
6 Engine Instruments	IN GREEN	
7 Throttle	1700 rpm	
8 L - B - R - B	SWITCH	
9 Drop max. 120 rpm	CHECK	
10 Diff L/R max 50 rpm	CHECK	
11 Ignition Switch Both	CONFIRM	
12 Carburetor pull (on)	DROP 20-50 rpm	
13 Carburetor	PUSH (OFF)	
14 Prop RPM	PULL 3X	
15 → Drop	200 ±50 rpm	
16 → Oil Press	CONSTANT	
17 → Manifold Press	CHANGE	
18 Throttle	IDLE	
19 Fuel Pump	ON	
20 RPM 2300 +/-100RPM	CHECK	
21 Trim	NEUTRAL	
22 Flaps	T/O	
23 All CBs	CHECK	
24 Contr. Movement	FREE	
25 Lap Belt	TIGHTEN	
26 Departure Briefing	COMPL	
27 T/O Briefing	COMPL	
28 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 Throttle/Prop	FULL FWD	
6 Prop RPM 2260-2385	CHECK	
7 T/O Power Values	CORRECT	
8 Elevator	NEUTRAL	
9 Rudder	DIRECTION	
10 Rotate (V _R)	51 KIAS	
11 Climb Initially	58 KIAS	
12 Short T/O (V _X)	58 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 Climb Speed (V _Y)	70 KIAS	
9 Trim	AS REQ	
10 Landing Light	OFF	
11 Fuel Pump	OFF	
12 Fuel Warning Light	CHECK	

CRUISE		
1 Throttle	CHECK TABLE	
2 Prop	CHECK TABLE	
3 Flaps	CHECK UP	
4 Trim	AS REQ	
5 Position Light	CHECK OFF	
6 Engine Instruments	IN GREEN	
7 Manvr. Speed (V _A)	104 KIAS	
8 Turbulent Air (V _{NO})	117 KIAS	

Full Throttle: → Prop min. 2140 rpm

DESCENT		
1 Altimeter	SET	
2 Throttle	AS REQ	
3 Prop RPM	1700-2260	
4 Carburetor Heat	PULL ON	
5 Throttle	IDLE	
6 Prop RPM	2260	
7 Carburetor Heat	PULL ON	
8 Flaps	UP	
9 Airspeed Max.	117 KIAS	
10 Engine Instruments	IN GREEN	

BEFORE TAXI

1 Warmup max 1000 _{rpm}	OIL MIN 50°C	
2 Electrical Consumers	AS REQ	
3 Engine Instruments	CHECK	
4 Volt Meter in green	CHECK	
5 Flap Sw. + Indicator	CHECK+UP	
6 Avionics Master	ON	
7 Flight Instruments	SET	
8 Avionics	SET	
9 Parking Brake	RELEASE	
10 Brakes	CHECK	
11 Steering	CHECK	
12 Flight Instruments	CHECK	