

# KATANA DV20/100



Österreichischer  
Sportfliegerclub

<b>A</b>	<b>BEFORE ENGINE START</b>
1	Preflight Check..... COMPLETED
2	Rudder Pedals..... ADJUSTED and LOCKED
3	Parking Brake..... SET
4	Fuel Shut-off Valve..... OPEN
5	Safety Belts..... FASTEN
6	Controls..... FREE
7	Canopy..... CLOSED and LATCHED
8	Prop Speed Lever..... FULL FORWARD
9	Carburetor Heat..... OFF
10	Avionics Master Switch..... OFF
11	Transponder..... STBY

<b>B</b>	<b>STARTING ENGINE</b>
1	Master Switch BAT/GEN..... ON
2	Circuit Breakers..... PRESSED IN
3	Generator Warning Light.... ILLUMINATED
4	Fuel Press Warning Light.... ILLUMINATED
5	Canopy Warning Light..... OFF / PRESS TO TEST
6	Voltage..... MIN YELLOW ARC
7	Electric Fuel Pump..... ON, noise of pump audible
8	Fuel Press Warning Light.... OFF
9	ACL / Strobe Light..... ON
10	Throttle - Cold Start..... IDLE
11	- Warm Engine..... 1cm FORWARD
12	Choke - Cold Start only..... ON, fully pulled and hold
13	Propeller Area..... CLEAR
14	Ignition Key..... START
15	Throttle..... MAX 1200 RPM
16	Oil Pressure..... WITHIN GREEN RANGE
17	Voltage / Amperemeter..... 14 VOLT / CHARGING
18	Generator Warning Light.... OFF
19	Electric Fuel Pump..... OFF
20	Fuel Press Warning Light.... remains OFF
21	Exterior / Cabin Lights..... AS REQUIRED
22	Avionics Master Switch..... ON

<b>C</b>	<b>BEFORE TAXIING</b>
1	Avionics..... SET
2	ATIS..... MONITORED
3	Flight Instruments..... SET & CHECKED
4	Wing Flaps..... CHECK & SET for T/O
5	Elevator Trim SET for T/O
6	Taxi Clearance..... OBTAIN
7	Taxi Light / Transponder.... ON / switch to ALT
8	Parking Brake..... RELEASE

<b>D</b>	<b>TAXIING</b>
1	Brakes..... CHECK
2	Directional Control..... CHECK
3	Flight Instruments..... CHECK

<b>E</b>	<b>ENGINE RUN UP</b>
1	Parking Brake..... SET
2	Engine Instruments..... CHECK within range
3	Fuel Quantity Indicator..... CHECK
4	Throttle..... 1700 - 1800 RPM
5	Amperemeter..... CHECK
6	Prop Control Lever..... CYCLE 3 TIMES
7	Ignition Switch..... L - BOTH - R - BOTH
8	Throttle..... 1500 RPM
9	Carburetor Heat..... ON, max 50 RPM drop
10	Throttle..... IDLE
11	Carburetor Heat..... OFF
12	Throttle..... 1000 RPM
13	Circuit Breakers..... CHECK PRESSED IN

<b>F</b>	<b>BEFORE TAKE OFF</b>
1	Controls..... FREE
2	Prop Control Lever..... FULL FORWARD
3	Carburetor Heat..... CHECK OFF
4	Flaps / Trim..... SET for Take Off
5	Ignition Switch..... CHECK BOTH
6	Storm Windows..... CLOSED
7	Departure Briefing..... COMPLETED
8	Take Off Clearance..... RECEIVED
9	Electrical Fuel Pump..... ON
10	Landing Light / Taxi Light... ON / OFF
11	Parking Brake..... RELEASED

<b>G</b>	<b>LINE UP CHECK</b>
1	Approach Sector / Rwy..... CLEAR
2	Runway..... IDENTIFIED
3	Transponder..... CHECK ON ALT
4	Time Off..... NOTE

<b>AIRSPEEDS</b> Vias	
V rot.....	51 kts
Vx best angle of climb.....	57 kts
Vy best rate of climb.....	65 kts
Engine Failure T/O.....	60 kts

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H	START
1	Throttle..... FULL FORWARD
2	Directional Control..... CHECK WITH RUDDER
3	Check MP / RPM..... BELOW RED LINE
4	Airspeed..... RISING
5	Rotate..... 51 - 55 kts
6	Climb rate..... POSITIVE
7	Brakes..... APPLY
8	Climb speed..... 57 - 65 kts

I	CLIMB CHECK
1	Safety Altitude..... 300 - 400 ft GND
2	Airspeed..... 70 kts
3	Wing Flaps..... UP
4	Power Setting..... REDUCE 2260 RPM
5	Electric Fuel Pump..... OFF
6	Landing / Taxi Light..... OFF
7	Airspeed..... 70 - 75 kts
8	Elevator Trim..... ADJUST
9	Engine Gauges..... WITHIN GREEN RANGE

J	CRUISE CHECK
1	Power Setting..... 65% MAX CONTINUOUS
2	Elevator Trim..... AS REQUIRED
3	Engine Gauges..... CHECK

AIRSPEEDS Vias	
Va manoeuvring.....	104 kts
Vno normal operating.....	117 kts
Vne never exceed.....	161 kts

K	DESCENT CHECK
1	Avionics / ATIS..... ADJUST / MONITOR
2	Flight Instruments..... SET
3	Throttle..... REDUCE MP (~15-18 in)
4	Carburetor Heat..... AS REQUIRED
5	Elevator Trim..... ADJUST

STALL SPEEDS Vias					
Flaps	0°	30°	45°	60°	
UP	43	46	51	60	
T/O	39	42	46	55	
LDG	38	41	45	54	

L	LANDING APPROACH CHECK
1	Electric Fuel Pump..... ON
2	Landing Light..... ON
3	Carburetor Heat..... AS REQUIRED
4	Throttle..... REDUCE MP (~12in)
5	Airspeed..... REDUCE MAX 80 kts
6	Wing Flaps..... SET T/O POSITION
7	Initial Approach Speed..... TRIM for Vias 70 kts

M	FINAL CHECK
1	Prop Control Lever..... FULL FORWARD
2	Wing Flaps..... LANDING POSITION
3	Final Approach Speed..... Vias 60 - 65 kts

N	GO AROUND
1	Prop Control Lever..... MAX RPM
2	Throttle..... FULL FORWARD
3	Carburetor Heat..... OFF
4	Wing Flaps..... SET T/O POSITION
5	Airspeed..... Vias 60 - 65 kts

O	AFTER LANDING CHECK
1	Carburetor Heat..... OFF
2	Wing Flaps..... UP
3	Electrical Fuel Pump..... OFF
4	Exterior Lights..... AS REQUIRED

P	ENGINE SHUT DOWN
1	Throttle..... IDLE
2	Parking Brake..... AS REQUIRED
3	Avionics Master / Transp. OFF / STAND BY
4	Electric Consumers..... OFF
5	Ignition..... OFF
6	ACL / Strobe..... OFF
7	Master Switch..... OFF

ENGINE FAILURE SPEEDS Vias	
Best Glide, Flaps T/O.....	73 kts (750 kg)
Best Glide, Flaps T/O.....	66 kts (600 kg)
EMERGENCY LANDING SPEEDS Vias	
Precautionary Landing.....	57 kts Flaps LDG
Engine OFF, with Flaps...	57 kts
Engine OFF, Flaps up.....	65 kts