

DA 20  
DV 20

NORMAL OPERATING CHECKLIST

**PREFLIGHT**

Aircraft documents	checked
Master Switch	check off
Magnetos	check off
All avionics	check off
All elctrics	check off
Flight Controls	check free
Foreign object	check
Main bolts	check
Structual temp. indicator	check
Master switch	on
Electric fuel pump	check operative (on+off)
Fuel indication	check quantity indicated
External lights	check (outside)
All electrics	off
Master switch	off
ELT	check auto

Chocks	check removed
Nose gear	check
Air intakes	check unobstructed
Propeller+spinner	check
Cowling	check
Engine oil+coolant level	check
Stall warning	check
LH main gear+brakes	check
LH tie down	check
Pitot static probe	check visual
LH wing+aileron+flaps	check
Fuel sump	drain + check
Fuel quantity	check as required
Fuel cap	check
Tail section	check
Elevator + rudder	check
RH wing+aileron+flaps	check
RH tie down	check
RH main gear+brakes	check

**BEFORE STARTING ENGINE**

Pedals	adjust
Fuel valve	check on
Circuit breakers	check in
Hobbs time	note
Transponder	standby
Seat belts	fasten
Canopy	check latched LH+RH

**STARTING ENGINE**

Parking brake	set
Propeller control	check full RPM
Carburator heat	check off
Avionics	check off
Master switch	on
Warning light (fuel/battery)	check on
ACL/Strobes	on
Fuel pump	on (fuel press warning light check off) then off
Throttle cold engine	closed
warm engine	2cm open
Choke cold engine	full on
warm engine	off
Magnetos	both on
Propeller area	check clear
Starter	engage
Throttle	1000 RPM
Oil pressure	check green arc
Choke	check off
Fuel pump	check off
All warning lights	check off

**BEFORE TAXI**

Avionivs/Electrics	on + set for departure
Flaps	Full travel to check then T/O position
Elevator trim	set neutral
Altimeters	set QNH
Horizon	set
Directional gyro	set heading
Fuel indication	check quantity

**TAXI**

Taxi light	on
Brakes	check
Flight instruments	check

**BEFORE TAKE OFF**

Parking brake	set
Taxi light	off
Throttle control	1900 RPM
Engine instruments	check green arc
Propeller control	3x exercise
Carburator heat	check RPM drop
Magnetos	max. 150/50 RPM
Ammeter	check (flaps or POS light)
Throttle control	1000 RPM
Flaps	check T/O position
Flight controls	check free
Canopy	check latched LH + RH
Seat belts	tighten
Departure briefing	completed
T/O briefing	completed



## DA / DV 20

### LINE UP / TAKE OFF

Time	note
Fuel pump	on
Landing light	on
Transponder	set ALT
Approach sector	clear
Runway	identify

Throttle full open	check RPM + MP
51 / 65 KIAS	rotate / initial climb

### AFTER TAKE OFF SAFE ALTITUDE

Propeller control	RPM reduce green arc
Flaps	up

### CLIMB

Climb power	Throttle full open RPM check green arc
Carburator heat	check off
Fuel pump	off
Landing light	off

### CRUISE

Altimeters	set
Power	according power table
Fuel quantity	check

### DESCENT CHECK

Altimeters	set QNH
Gyro	set
Carburator heat	as required
Seat belts	tighten
Approach briefing	completed

## NORMAL PROCEDURES

### APPROACH

Fuel pump	on
Landing light	on
Flaps below 81 KIAS	T/O, LDG as required
Carburator heat	as required

### FINAL

Flaps	as required
Propeller control	full RPM
65 / 60	approach / landing

### AFTER LANDING CHECK RWY VACATED

Carburator heat	off
Transponder	standby
Flaps	up
Taxi light	on
Landing light	off
Fuel pump	off
Time	note

### PARKING CHECK

Throttle control	close
Taxi light	off
Parking brake	set
ELT	check
Avionics and electrics	off
Magnetos	off
ACL / Strobes	off
Master switch	off
Hobbs time	note

Rotate $V_r$	51 KIAS
Best angle $V_x$ (flaps T/O)	58 KIAS
Best rate $V_y$ (flaps T/O)	65 KIAS
Best rate $V_y$ (flaps up)	70 KIAS
Flaps T/O	81 KIAS
Flaps LDG $V_{fe}$	81 KIAS
Maneuvering $V_a$	104 KIAS
Final approach (flaps LDG) min.	57 KIAS

## DA / DV 20

## NORMAL PROCEDURES

### DV DA 20 KATANA 80 HP POWER SETTING

PAIt	55%			65%			75%			85%		
	MP	RPM	L/h	MP	RPM	L/h	MP	RPM	L/h	MP	RPM	L/h
SL	24,7	2000	11,3	25,7	2100	13,0	27,0	2200	15,0	27,7	2400	18,3
2000	24,0	2000	12,0	24,7	2100	13,3	25,7	2300	15,3	26,7	2400	18,7
4000	23,3	2000	13,0	23,3	2200	14,0	24,3	2400	16,3	25,7	2400	21,0
6000	22,0	2100	14,0	22,7	2300	16,3	23,3	2400	19,3			
8000	21,0	2200	15,0	21,7	2300	17,7	22,0	2400	19,7			
10000	19,7	2300	16,0	20,3	2400	18,7						
12000	18,0	2400	17,3									

Angaben gültig für Standardatmosphäre (ISA)

### DV DA 20 KATANA 100 HP POWER SETTING

PAIt	55%			65%			75%			85%		
	MP	RPM	L/h	MP	RPM	L/h	MP	RPM	L/h	MP	RPM	L/h
SL	24,7	1900	13,6	25,7	2000	15,6	27,0	2100	18,0	27,7	2260	22,0
2000	24,0	1900	14,4	24,7	2000	16,0	25,7	2200	18,4	26,7	2260	22,4
4000	23,3	1900	15,6	23,3	2100	16,8	24,3	2260	19,6	25,7	2260	25,2
6000	22,0	2000	16,8	22,7	2200	19,6	23,3	2260	23,2			
8000	21,0	2100	18,0	21,7	2200	21,2	22,0	2260	23,6			
10000	19,7	2200	19,2	20,3	2260	22,4						
12000	18,0	2260	20,4									

Angaben gültig für Standardatmosphäre (ISA)