



PILOTENCLUB WIEN
Wiener Luftfahrerverband

3fly.at

③

OE-AFG (DIAMOND DV 20)

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OE-AFG

DIAMOND DV 20

MTOW = 730 kg / 1.609 lb

A/C-Size: W: 10,8 m H: 2,1 m L: 7,2 m

FPL (EXAMPLE)		
7	A/C ID	OE-AFG
8	Flight Rules	V
	Type of Flight	G
9	Type of A/C	DV 20
	Wake Turbul. Cat.	L
10	Equipment	SY / S
13	Departure A/D	LOAV
	Departure Time	0830
15	Speed	N0100
	Flight Level	VFR
16	Route	SOPRON
	Destination A/D	LHFM
18	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

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FUEL

Fuel EN228 SUPER
Fuel (alternative)* AVGAS 100LL
Maximum Fuel 79 L / 20,9 gal
Unusable Fuel 2 L / 0,5 gal

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

OIL

Aero Shell SPORT PLUS 4

Minimum
Maximum DIFF = 0,45 L

TIRE

Front Tire 26 psi / 1,8 bar
Main Tires 33 psi / 2,3 bar

SPEED

V_{SO} (Stall- Flaps max) 38 KIAS
V_G (best glide, Flaps T/O) 64-70 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

Do not Land

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

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4	Fuel Press Warn LT	OFF
COLD	Throttle if cold	IDLE
	Choke if cold	ON HOLD
HOT	Throttle if hot	2 cm OPEN
	Choke if hot	PUSH
9	Prop Area	CLEAR
10	Ignition	START
11	Throttle	MAX 1500 rpm
12	Oil Press < 10 sec	GREEN
13	GEN Warning Light	CHECK OFF
14	Low Voltage Light	CHECK OFF
15	Fuel Pump	OFF
16	Fuel Press Warn LT	CHK OFF
17	Fuel Pump	ON

BEFORE TAXI

1	Warmup 1100 rpm	OIL MIN 50°C
2	Electr Consumers	AS REQ
3	Engine Instrumts	CHECK
4	Flap Sw. + Indicator	CHECK
5	Avionics Master	ON
6	Flight Instruments	SET
7	Avionics	SET
8	Parking Brake	RELEASE
TAXI	Brakes	CHECK
	Steering	CHECK
	Instruments	CHECK
	Avionics	CHECK

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BEFORE TAKEOFF

1	Transponder	SET ALT
2	Brakes Both	PRESS
3	Parking Brake	SET
4	Seat Belts	FASTENED
5	Canopy	CLOSE/LOCK
6	Canop. Safety Hook	LOCKED
7	Fuel Shutoff Valve	CHECK OPEN
8	Engine Instruments	CHECK
9	Fuel Quantity	CHECK
10	Wing Flaps	T/O
11	Trim	NEUTRAL
12	Controls	FREE
13	Throttle	1700 rpm
GOVERN.	Prop	PULL 3x
	Drop	100 - 200 rpm
	Prop	FULL FWD
MAGNETOS	R - B - L - B	SWITCH
	Drop max. 150 rpm	CHECK
	Diff L/R max 50 rpm	CHECK
	Ignition Switch Both	CONFIRM
21	Throttle	1500 rpm
22	Carb Heat: -30 rpm	OFF-ON-OFF
23	Throttle for 5 Sec.	FULL FWD
24	RPM 2450 +/-100	CHECK
25	Throttle	IDLE
26	Departure Briefg	COMPL
27	T/O Briefing	COMPL
28	Parking Brake	RELEASE

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5. Right Wing

39 Flap	VIS INSP
40 Aileron, Window	VIS INSP
41 Tie Down	RELEASE
42 Wingtip, Bala. Mass	VIS INSP
43 Position Light	VIS INSP

6. Right Main Gear

44 Wheel Fairing	VIS INSP
45 Wheel Strut	VIS INSP
46 Tire Press. 2,3 bar	CHECK
47 Tire Skid Mark	VIS INSP
48 Tire Wheel Brake	VIS INSP

7. Nose Section / Cowling

49 Ignition	CHECK OFF
50 Parking Brake	SET
51 Crank Engine	CHECK NOISE
52 Oil level / Diff.0,45L	DIPSTICK
53 Coolant Level	DIPSTICK
54 Cowling	VIS INSP
55 Air Intakes (6)	FREE
56 Prop Damage	VIS INSP
57 Prop Gnd Clearance	min. 25 cm
58 Spinner	VIS INSP

8. Nose Ldg Gear

59 Tire / Wheel	VIS INSP
60 Wheel Fairing	VIS INSP
61 Tire Press. 1,8 bar	CHECK
62 Tow Bar	REMOVE

BEF. ENGINE START

1 Preflight Check	COMPL
2 Passenger Briefing	COMPL
3 Pedals	ADJUST/LOCK
4 Seat Belts	FASTEN
5 Canopy Closed	LOCK
6 Can. Safety Hook	LOCK
7 Parking Brake	SET
8 Controls	CHK FREE
9 Fuel Shutoff Valve	OPEN
10 Trim	NEUTRAL
11 Throttle	FREE - IDLE
12 Prop RPM	FULL FWD
13 Carburetor Heat	FREE - OFF
14 Friction Device	ADJUST
15 Avionics Master	OFF
16 Battery (Master)	ON
17 GEN Warning Light	ILLUMIN
18 Low Voltage Light	ILLUMIN
19 Fuel Press. Light	ILLUMIN
20 Flaps Indicat. Light	ILLUMIN
21 ACL	ON

ENGINE START

1 Bef. Eng. Start CL	COMPL
2 Fuel Pump	ON
3 Fuel Pump Noise	CHECK

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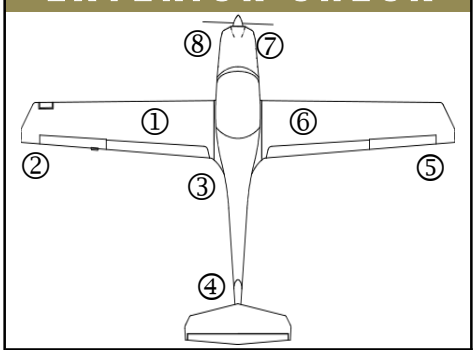
PREFLIGHT

1 Fuel Tank Sump	DRAIN
2 A/C Documents	CHECK

CABIN CHECK

3 Parking Brake	SET
4 Ignition Key	REMOVED
5 Checklist	ON BOARD
6 All CB's	IN PRESSED
BATTERY Battery (Master)	ON
Fuel Quantity	CHECK
Battery (Master)	OFF
10 Throttle	IDLE
11 Prop RPM	FULL FWD
12 Carburetor Heat	OFF
13 Foreign Objects	REMOVE
14 ELT	ARM/AUTO
15 Main Wing Bolts	SECURED
16 Baggage Stowed	SECURE
17 Canopy clean	NO DAMAGE
18 Flashlights	CHECK

EXTERIOR CHECK



1. Left Main Gear

19 Wheel Fairing	VIS INSP
20 Wheel Strut	VIS INSP
21 Tire Press. 2,3 bar	CHECK
22 Tire Skid Mark	VIS INSP
23 Tire Wheel Brake	VIS INSP

2. Left Wing

24 Entire Wing	VIS INSP
25 Stall Warning	CHECK
26 Pitot Static Opng	CLEAN
27 Wingtip, Bala. Mass	VIS INSP
28 Position Light	VIS INSP
29 Tie Down	RELEASE
30 Aileron , Window	VIS INSP
31 Flap	VIS INSP

3. Fuselage

32 Skin	VIS INSP
33 Tank Vent	CHECK
34 Tank Drain	CONFIRM
35 Fuel Qty CHK	PIPETTE

4. Empennage

36 Fin & Contr. Surface	VIS INSP
37 Tail Tiedown	RELEASE
38 Trim Tab	VIS INSP

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LINE UP / TAKEOFF	
1 Before T/O Check	COMPL
2 Approach Sector	CLEAR
3 Runway Heading	CONFIRM
4 Fuel Pump	ON
5 LDG Light	ON
6 Prop	FULL FWD
7 Throttle	FULL FWD
8 Prop RPM	2300-2500
9 Elevator	NEUTRAL
10 Rudder	DIRECTION
11 Rotate	51 KIAS
12 Climb Speed Vy	65 KIAS
13 Prop @ min. 400 ft	2400 rpm
14 Fuel Pump	OFF
15 LDG Light	OFF

CLIMB	
1 Prop RPM	2400
2 Throttle	FULL FWD
3 Engine Instrument	IN GREEN
4 Flaps @ min. 400 ft	UP
5 Climb Speed Vy	70 KIAS
6 Trim	AS REQ

CRUISE	
1 Flaps	UP
2 Throttle	AS REQ
3 Prop RPM	1900 - 2400
4 Trim	AS REQ
5 Position Light	CHECK OFF
6 V _A Man. Speed	104 KIAS
7 Turbulent Air max	117 KIAS

DESCENT	
1 Altimeter	SET
2 Throttle	AS REQ
3 Prop RPM	1900 - 2400
4 Carburetor Heat	AS REQ
Prop RPM	2400
Throttle	IDLE
Carburetor Heat	ON
Flaps	UP
Airspeed	117 KIAS
Temperatures	IN GREEN

SHORT FIELD T/O	
Approach Sector	CLEAR
Runway Heading	CONFIRM
Fuel Pump	ON
LDG Light	ON
Prop	FULL FWD
Throttle	FULL FWD
Prop RPM	2300-2500
Elevator	NEUTRAL
Rudder	DIRECTION
Lift-Off Speed	57 KIAS
Climb Speed Vx	58 KIAS
Prop @ min. 400 ft	2400 rpm
Fuel Pump	OFF
LDG Light	OFF

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Airspeeds for Normal Operations

TAKE OFF

Climb Flaps T/O	58 KIAS
Climb Spd Vx T/O	58 KIAS
Climb Spd Vy UP	70 KIAS

LANDING

Final APP LDG	59 KIAS
Balked Ldg LDG	51 KIAS
Max demo X-Wind	15 KIAS

CRUISE

VNO Max Rough Air	117 KIAS
VA Maneuvering	104 KIAS
VFE	81 KIAS

Airspeeds for Emergency Operations

VA Maneuvering	104 KIAS
Best Glide Flaps T/O	64-70 KIAS *
* (600 - 730 kg)	
Prec. LDG Flaps LDG	54 KIAS

No Engine Power

Eng. Fail Landing	59 KIAS
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Pressure		Standard		Engine power in % of max. continuous power.											
				55 %				65 %				75 %			
Altitude		Temp.		RPM	MP	Fuel Flow		RPM	MP	Fuel Flow		RPM	MP	Fuel Flow	
ft.	m	°C	°F	*100	in. Hg	lb/h	gal/hr	*100	in. Hg	lb/h	gal/hr	*100	in. Hg	lb/h	gal/hr
0	0	15	59	20	24.7	11.3	3.0	21	25.7	13.0	3.4	22	27.0	15.0	4.0
2000	600	11	52	20	24.0	12.0	3.2	21	24.7	13.3	3.5	23	25.7	15.3	4.0
4000	1200	7	45	20	23.3	13.0	3.4	22	23.3	14.0	3.7	24	24.3	16.3	4.3
6000	1800	3	38	21	22.0	14.0	3.7	23	22.7	16.3	4.3	24	23.3	19.3	5.1
8000	2400	-1	31	22	21.0	15.0	4.0	23	21.7	17.7	4.7	24	22.0	19.7	5.2
10000	3000	-5	24	23	19.7	16.0	4.2	24	20.3	18.7	4.9				
12000	3600	-8	17	24	18.0	17.3	4.6								

Pressure		Standard		85 %				95 %				105 %			
				RPM	MP	Fuel Flow		RPM	MP	Fuel Flow		RPM	MP	Fuel Flow	
ft.	m	°C	°F	*100	in. Hg	lb/h	gal/hr	*100	in. Hg	lb/h	gal/hr	*100	in. Hg	lb/h	gal/hr
0	0	15	59	24	27.7	18.3	4.8	24	28.3	21.7	5.7	25.5	29.7	25.0	6.6
2000	600	11	52	24	26.7	18.7	4.9	24	27.7	22.3	5.9				
4000	1200	7	45	24	25.7	21.0	5.5								

Correction of chart under non-standard conditions:

At ISA + 10° C (ISA + 18° F): The same power and fuel consumption result if manifold pressure values are increased by 0.3 inHg and pressure altitude values are decreased by 500 ft. (150 m).

At ISA - 10° C (ISA - 18° F): The same power and fuel consumption result if manifold pressure values are decreased by 0.3 inHg and pressure altitude values are increased by 500 ft. (150 m).

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LANDING		
1 Airspeed Max	81 KIAS	
2 Flaps	T/O	
3 Trim	AS REQ	
4 Throttle	AS REQ	
5 Prop RPM	FULL FWD	
6 Carburetor Heat	ON	
7 Fuel Pump	ON	
8 LDG Light	ON	
9 Flaps	LDG	
10 Final App Speed	60 KIAS	
GO AROUND	Prop RPM	FULL FWD
	Throttle	FULL FWD
	Carburetor Heat	OFF
	Flaps	T/O
	Climb Airspeed	58 KIAS
LDG Light	OFF	

AFTER LANDING	
1 Throttle	IDLE
2 Flaps	UP
3 Carburetor Heat	OFF
4 XPDR Mode	CHECK
5 LDG Light	OFF

SHUT DOWN	
1 Throttle	IDLE
2 Parking Brake	SET
3 Fuel Pump	OFF
4 ELT (121,5 MHz)	CHECK
5 Avionics	OFF
6 Electr. Equipment	OFF
7 Ignition	OFF
8 ACL	OFF
9 Battery (Master)	OFF

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