



**PILOTENCLUB WIEN**  
Wiener Luftfahrerverband

3fly.at

# OE-KAS

**Diamond DA40 / GTN 750**

MTOW: 1150 kg (2535 lb)

A/C-Size: W: 11,9m H: 2,0m L: 8,0m

FPL (EXAMPLE)	
7	A/C ID OE-KAS
8	Flight Rules V, I, Y, Z
	Type of Flight G
9	Type of A/C DA40
	Wake Turbul. Cat. L
10	Equipment SBDFGRY / S
13	Departure A/D LOAV
	Departure Time 0830
15	Speed N0125
	Flight Level 080
	Route SNU GRZ
16	Destination A/D LJMB
	Total EET 0045
	Alternate A/D LOWG
18	Other Info. EET/GOLVA0040
	PBN/B2C2D2O2S2 NAV/SBAS
19	Endurance 04:00
	Persons on Bord 2
	Emerg. Equipm. ELT
	A/C Colour WHITE
	Name PIC NAME

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<b>OPERATOR</b>	<b>MFU Flugbetriebs GmbH</b>
	A-2540 Bad Vöslau, Flugplatz
	UID ATU37004810
	3fly.at: +43 2252 77340

<b>CONTACT</b>	Tower LOAV +43 1 900729201
	Maintenance LOAV +43 2252 790894
	A I S +43 51703 3211
	M E T +43 51703 3443

<b>FUEL</b>	Fuel AVGAS 100LL
	Maximum Fuel 156 L / 41,2 gal
	Unusable Fuel 3,8 L / 1 gal

<b>OIL</b>	Shell Aero  15W-50
	Minimum 4 quarts
	Minimum IFR 6 quarts

<b>TIRE</b>	Front Tire 29 psi / 2,0 bar
	Main Tires 36 psi / 2,5 bar

<b>SPEED</b>	V <sub>SO</sub> (Stall- Flaps max) 49 KIAS
	V <sub>S</sub> (Stall- Flaps up) 52 KIAS
	V <sub>g</sub> (best glide, Flaps up) 60-73 KIAS*
	Max. demo. X-Wind 20 knots

\*) A/C - Mass 850 kg - 1150 kg

<b>COM FAIL</b>	Clear to Land	Do not Land 
	Return to Landing	
	Continue Circling	
	A/D unsafe, don't Land	
	Land at this A/D and proceed to Apron - wait for Clearance	

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

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OE-KAS (DIAMOND DA40)

80 Exhaust	VIS. INSP.
81 Forw. Cabin Inlets	CLEAR
82 Antennas	VIS. INSP.
83 Gascolator	DRAIN
84 Venting Pipes	CHECK
85 Fuselage Underside	CLEAN

19 Avionics Master	OFF
20 Essential Bus	OFF
21 Master - BAT	ON
22 Annunciator Panel	TEST
23 Fuel Tank Selector	FULLER TANK

BEF. ENGINE START	
1 Preflight Check	COMPL
2 Rudder Pedals	ADJUST
3 Passenger Briefing	COMPL
4 Seat Belts / Harness	FASTEN
5 Baggage	SECURE
6 Rear Door	CLOSE LOCK
7 Front Canopy	POS. 1 or 2
8 Parking Brake	SET
9 Flight Controls	FREE
10 Trim Wheel	SET T/O
11 Throttle	IDLE
12 Prop	FULL FWD
13 Mixture	LEAN
14 Friction Device	ADJUST
15 Alternate Air	CLOSED
16 Alternate Static	CLOSED

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ENGINE START	
1 Bef. Engine Start CL	COMPL
2 Strobe Light / ACL	ON
3 Fuel Pump	ON
4 Throttle	3 cm OPEN
<b>COLD</b>	Mixture 3-5 SEC RICH
	Mixture LEAN
Throttle	1 cm OPEN
<b>WARM</b>	Mixture 1 SEC RICH
	Mixture LEAN
10 Fuel Pump	OFF
11 Prop Area	CLEAR
12 Ignition	START
13 Mixture when fires	RICH
14 Oil Press. < 15 sec	IN RANGE
15 Master - ALT	ON
16 Amperemeter	CHECK
17 Fuel Press. 14-35 psi	CHECK
18 Annunciator Panel	CHECK

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3. Fuselage (Left)	
29 Canopy Left Side	VIS. INSP.
30 Rear Door, Window	VIS. INSP.
31 Fuselage Skin	VIS. INSP.
32 Antennas	VIS. INSP.


4. Empennage	
33 Stabiliser Contr. Surf.	VIS. INSP.
34 Hinges	VIS. INSP.
35 Elev. Trim, Wire	VIS. INSP.
36 Rudder Trim Tab	VIS. INSP.
37 Tiedown on Fin	CHECK, CLEAR
38 Tail Skid & lower Fin	VIS. INSP.

5. Fuselage (Right)	
39 Fuselage Skin	VIS. INSP.
40 Window	VIS. INSP.
41 Canopy Right Side	VIS. INSP.

6. Right Wing	
42 Flap and Linkages	VIS. INSP.
43 Flap Hinges & Pin	VIS. INSP.
44 Aileron & Linkage	VIS. INSP.
45 Aileron Hinges & Pin	VIS. INSP.
46 Foreign Obj. Ailer. Paddle	VIS. INSP.
47 Wing Tip	VIS. INSP.
48 Pos. Light & ACL	VIS. INSP.
49 Tiedown	CHECK, CLEAR
50 Wing Surfaces	VIS. INSP.
51 2 Stall Strips	VIS. INSP.
52 Tank Air Outlet	VIS. INSP.

53 Tank Filler	VIS. INSP.
54 Openings Lower	CHECK
55 Tank Drain	CHECK
56 Step	VIS. INSP.

7. Right Main Gear	
57 Gear Strut	VIS. INSP.
58 Strut Fairing	VIS. INSP.
59 Wheel Fairing	VIS. INSP.
60 Tire 36psi / 2,5 bar	CHECK
61 Tire Wear, Tread	CHECK
62 Wheel Brake	VIS. INSP.
63 Brake Line Leaks	CHECK
64 Slip Marks	VIS. INSP.
65 Chocks	REMOVE

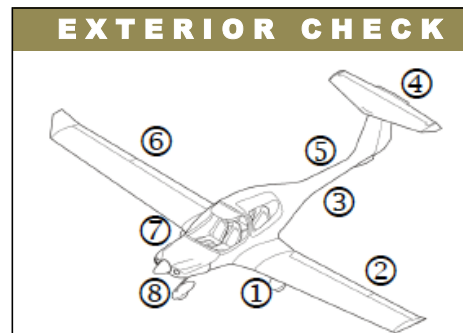
8. Front Fuselage	
66 Oil Level 6 - 8 Qts	CHECK
67 Cowling	VIS. INSP.
68 3 Air Intakes	CLEAR
69 Propeller 	VIS. INSP.
70 Spinner & Screws	VIS. INSP.
71 Nose Landing Gear	VIS. INSP.
72 Tire and Wheel	VIS. INSP.
73 Slip Marks	VIS. INSP.
74 Strut Fairing	VIS. INSP.
75 Tire Wear, Tread	CHECK
76 Wheel Fairing	VIS. INSP.
77 Tow Bar	REMOVE
78 Tire 29 psi / 2,0 bar	CHECK
79 Chocks	REMOVE

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PREFLIGHT	
1 Fuel Tank Sumps	3 x DRAIN
2 AC-Doc. / M & B	CHECK

CABIN CHECK		
1 Ignition Key	REMOVE	
2 Canopy, Rear Door	CHECK	
3 Electr. Equipment	OFF	
4 CB's all in	CHECK	
5 Control Levers	CHECK FREE	
6 Prop	FULL FWD	
7 Throttle	IDLE	
8 Mixture	LEAN	
<b>BATTERY</b>	Master - BAT	ON
	Annunciator Panel	CHECK
	Fuel Quantity	CHECK
	Pos. Light & ACL	CHECK
	Ldg & Taxi - Light	CHECK
Master - BAT	OFF	
15 Loose Items	CHECK	
16 Flight Contr./Trim	FREE / CORR.	
17 Baggage	SECURED	




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1. Left Main Gear	
1 Gear Strut	VIS. INSP.
2 Strut Fairing	VIS. INSP.
3 Wheel Fairing	VIS. INSP.
4 Tire 36psi / 2,5 bar	CHECK
5 Tire Wear, Tread	CHECK
6 Wheel Brake	VIS. INSP.
7 Brake Line Leaks	CHECK
8 Slip Marks	VIS. INSP.
9 Chocks	REMOVE

2. Left Wing	
10 Wing Surfaces	VIS. INSP.
11 Step	VIS. INSP.
12 Air Intake Lower	VIS. INSP.
13 Openings Lower	CHECK
14 Tank Drain	CHECK
15 Stall Warning	CHECK
16 Tank Filler	VIS. INSP.
17 Tank Air Outlet	VIS. INSP.
18 2 x Stall Strips	VIS. INSP.
19 Pitot Probe	CLEAN
20 Ldg / Taxi Lights	VIS. INSP.
21 Wing Tip	VIS. INSP.
22 Pos. Light & ACL	VIS. INSP.
23 Tiedown	CHECK, CLEAR
24 Aileron & Linkage	VIS. INSP.
25 Aileron Hinges & Pin	VIS. INSP.
26 Foreign Obj. Ailer. Paddle	VIS. INSP.
27 Flap and Linkages	VIS. INSP.
28 Flap Hinges & Pin	VIS. INSP.



LANDING		
1 Fuel Pump	ON	
2 Fuel Selector	FULLER TANK	
3 Safety Harnesses	FASTEN	
4 Airspeed Reduce	<b>MAX 108 KIAS</b>	
5 Flaps	T/O	
6 Trim	AS REQ	
7 Landing Light	AS REQ	
Before Landing		
8 Mixture	FULL FWD	
9 Prop	FULL FWD	
10 Throttle	AS REQ	
11 Airspeed Reduce	<b>MAX 91 KIAS</b>	
12 Flaps	LDG	
13 Final App. Spd 	<b>63 - 71 KIAS *</b>	
<b>GO AROUND</b>	Prop	FULL FWD
	Throttle	FULL FWD
	Airspeed	<b>60 - 66 KIAS *</b>
	Flaps	T/O
	400 ft AGL - Safe Alt -	CHECK
	Prop	2.400 rpm
	Airspeed	<b>68 - 73 KIAS *</b>
Flaps	UP	
Fuel Pump	OFF	

\*) A/C - Mass 1000 kg - 1150 kg



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AFTER LANDING	
1 Throttle	IDLE
2 Brakes	AS REQ
3 Fuel Pump	OFF
4 Transponder	OFF / STBY
5 Pitot Heat	OFF
6 Avionics	AS REQ
7 Lights	AS REQ
8 Flaps	UP

SHUT DOWN	
1 Parking Brake	SET
2 Engine Instruments	CHECK
3 ELT (121,5 MHz)	CHECK
4 Avionic - Master	OFF
5 Throttle	1.000 rpm
6 Electr. Equipment	OFF
7 Mixture	IDLE CUTOFF
8 Ignition	OFF
9 Master - BAT / ALT	OFF
10 Map Light	CHECK OFF
11 Parking Brake	AS REQ
12 Tiedown	AS REQ

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LINE UP / TAKEOFF	
1 Before T/O Check	COMPL
2 Approach Sector	CLEAR
3 Runway Heading	CONFIRM
4 Transponder	ON / ALT
5 Prop	FULL FWD
6 Throttle 	FULL FWD
7 Full T/O Power 	CONFIRM
8 Elevator	NEUTRAL
9 Rudder	DIRECTION
10 Rotate (V <sub>R</sub> )	<b>59 KIAS</b>
11 Climb Speed (V <sub>Y</sub> )	<b>60 - 66 KIAS *</b>


\*) A/C - Mass 1000 kg - 1150 kg

CLIMB	
1 Throttle	FULL FWD
2 Mixture	RICH
3 Prop 2400 rpm	REDUCE
4 Engine Instruments	IN GREEN
5 Climb Speed (V <sub>Y</sub> )	<b>60 - 66 KIAS *</b>
6 400 ft AGL - Safe Speed -	CHECK
7 Flaps	UP
8 Trim	AS REQ
9 Landing Light	OFF
10 Fuel Pump	OFF
11 Fuel Press	CHECK
12 Mixture > 5000 ft	SET EGT

\*) A/C - Mass 1000 kg - 1150 kg



CRUISE - CLIMB	
1 Flaps	UP
2 Airspeed	<b>68 - 73 KIAS *</b>
3 Prop 2400 rpm	SET
4 Throttle	FULL FWD
5 Mixture > 5000 ft	SET EGT
6 Engine Instruments	IN GREEN
7 Trim	AS REQ
8 Fuel Pump (high Alt)	ON 

\*) A/C - Mass 1000 kg - 1150 kg

CRUISE	
1 Flaps	CHECK UP
2 Throttle (Page 7)	AS REQ
3 Prop 1800-2400 rpm	SET
4 Mixture	SET
5 Trim	AS REQ
6 Fuel Selector	AS REQ
7 Fuel Pump (high Alt)	ON 
8 Man. Spd (V <sub>A</sub> )	<b>94 / 108 KIAS *</b>
9 Turbulent Air (V <sub>NO</sub> )	<b>129 KIAS</b>

\*) A/C - Mass 780 kg - 980 kg: 94 KIAS

A/C - Mass 981 kg - 1150 kg: 108 KIAS

DESCENT	
1 Mixture 	AS REQ
2 Prop 1800-2400 rpm	AS REQ
3 Throttle	AS REQ
4 Fuel Pump (high Alt)	ON 
5 Descent Planing	COMPL

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## NORMAL AIRSPEEDS

### TAKEOFF

	850 kg - 1150 kg
V <sub>(y)</sub> Flaps T/O	54 - 66 KIAS
Cruise - Climb Flaps UP	60 - 73 KIAS

### LANDING

	850 kg - 1150 kg
Final APP Flaps LDG	58 - 71 KIAS
Balked Landing Flaps T/O	54 - 66 KIAS
Max. demo X Wind	20 KIAS
V <sub>(FE)</sub> max, Flaps LDG	91 KIAS

### CRUISE

V <sub>(A)</sub> Maneuvering	94 / 108 KIAS *
V <sub>(NO)</sub> Max Turbulent Air	129 KIAS
V <sub>(NE)</sub> Max Airspeed	178 KIAS

## AIRSPEEDS FOR EMERGENCY

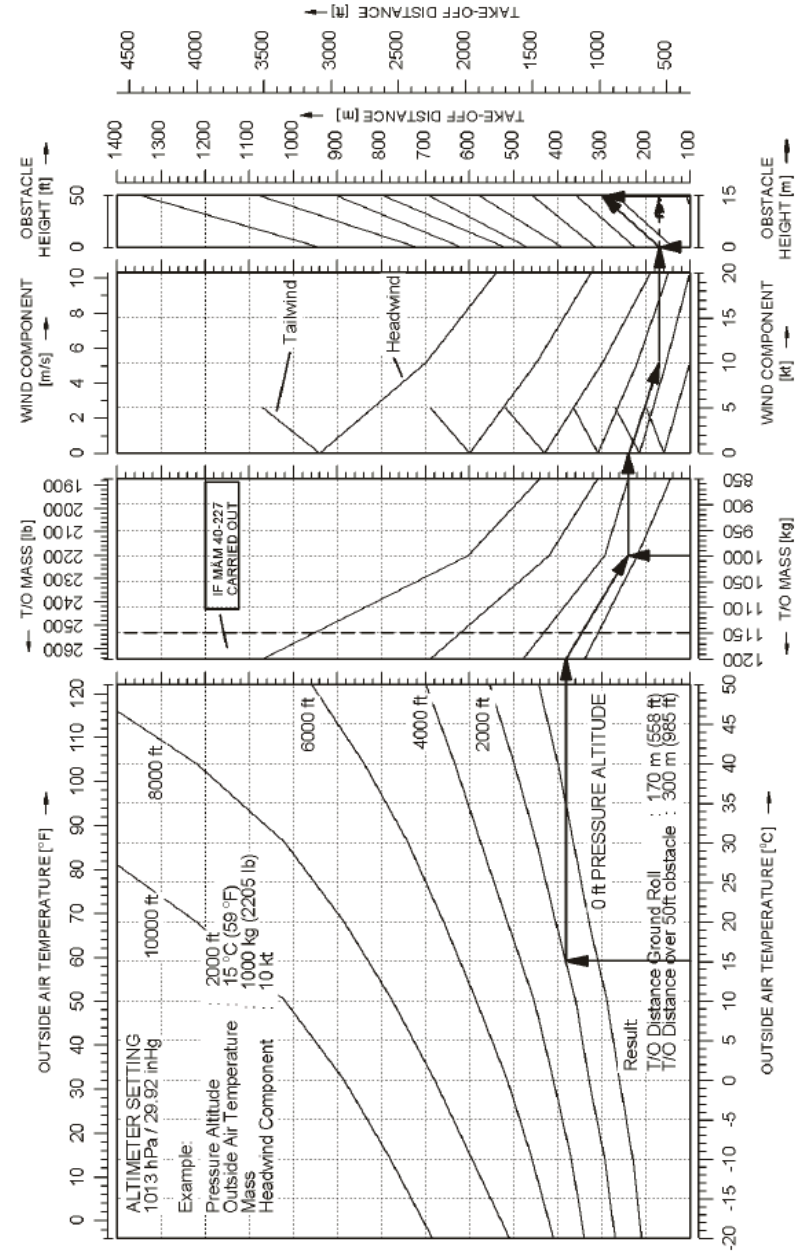
V <sub>(A)</sub> Maneuvering	94 / 108 KIAS *
	850 kg - 1150 kg
Engine Off - Best Glide / Flaps UP	60 - 73 KIAS
Engine Off - Best Glide / Flaps T/O	59 - 72 KIAS
Engine Off - Best Glide / Flaps LDG	58 - 71 KIAS
Eng. Failure after T/O Flaps T/O	59 - 72 KIAS
Eng. Failure after T/O Flaps UP	60 - 73 KIAS

\*) A/C - Mass 780 kg - 980 kg: 94 KIAS  
A/C - Mass 981 kg - 1150 kg: 108 KIAS

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### DA 40 - TAKE-OFF DISTANCES



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