



Aircraft Checklist

MFU - Pilotenclub - LOAV



3fly.at

OE-KDI

Diamond DA40-TDI

MTOM = 1150 kg / 2.535 lb

A/C-Size: W: 11.9 m H: 2.0 m L: 8.0 m

OPERATOR

MFU Pilotenclub

A-2542 Kottlingbrunn

Flugplatz 1, Top 1

www.mfu-pilotenclub.at

+43 2252 77340

FPL (EXAMPLE)

7	A/C ID	OE-KDI
8	Flight Rules	V
	Type of Flight	G
9	Type of A/C	DA40
	Wake Turbul. Cat.	L
10	Equipment	SY/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/GOLVA0045
19	Endurance	06:00
	Persons on Bord	2
	Emerg. Equipm.	ELT
	A/C Colour	WHITE
	Name PIC	NAME

Tower LOAV	+43 1 700729201
Maint. LOAV	+43 2252 790894
AIS	+43 51703 3211
MET	+43 51703 3443

CONTACT

Fuel	JET A1 / Diesel
Maximum Fuel	113.6 L / 30.0 gal
Unusable Fuel	7.6 L / 2 gal

FUEL

Engine Shell Helix	5W-30
Oil Level Min	4.5 L / Max 6.0 L
GearBox Spirax	S4 G 75W-90

OIL

Front Tire	29 psi / 2.0 bar
Main Tires	36 psi / 2.5 bar

TIRE

V _{SO} (Stall- Flaps max)	49 KIAS
V ₀ (Stall- Flaps up)	52 KIAS
V _G (Flaps up)	60-73 KIAS*
Max. Demo. X-Wind	20 knots

SPEED

*) A/C - Mass 1000Kg - 1150Kg

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

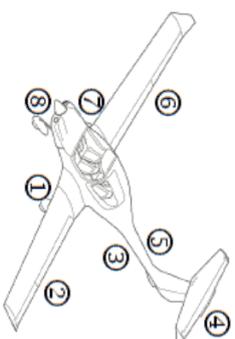
This document does not replace POH/AFM - (KDI 2026 V1.7)

PREFLIGHT

1 Wing Tanks & Gascolator	DRAIN
2 A/C Doc, Mass&Bal	CHECK

**CABIN CHECK**

3 Ignition Key	REMOVE
4 Canopy, Rear Door	CHECK
5 Electric Master	OFF
6 ECU Swap	AUTO
7 Electr. Equipment	OFF
8 Emerg. Fuel Valve	NORMAL
9 All Electrics	OFF
10 Circ. Breaker	ALL-IN
11 Power	CHECK IDLE
Electric Master	ON
CED/AED	CHECK
Fuel Indication	CHECK
Ext. Lights	CHECK
All Electric	CHECK
Electric Master	OFF
18 Foreign Objects	NONE
19 Flight Control	CORRECT
20 Trim Tab	MOVABLE
21 Baggage	SECURED

**EXTERIOR CHECK****1. Left Main Gear**

22 Gear Strut	VIS. INSP.
23 Strut Fairing	VIS. INSP.
24 Wheel Fairing	VIS. INSP.
25 Tire 36psi / 2,5 bar	CHECK
26 Tire Wear, Tread	CHECK
27 Wheel Brake	VIS. INSP.
28 Break Line Leaks	CHECK
29 Slip Marks	VIS. INSP.
30 Chocks	REMOVE



Airspeeds for Normal Operations

TAKEOFF

A/C Mass	1000 - 1150 kg
V _R Flaps T/O	55 - 59 KIAS
V _X Flaps T/O	60-66 KIAS
V _Y Cruise Climb Flaps UP	78 KIAS

LANDING

Final APP Flaps LDG	58 - 71 KIAS
Balked Ldg Flaps T/O	59 - 66 KIAS
Max. demo X Wind	20 knots
V _{FE} max, Flaps LDG	91 KIAS

CRUISE

V _A Maneuvering	94 - 108 KIAS*
V _{NO} Max. Operating Spd.	129 KIAS
V _{NE} Max Airspeed	178 KIAS

Airspeeds for Emergency Operations

V _A Maneuvering	94 - 108 KIAS*
Engine Off - Best Glide / Flaps T/O	60 - 73 KIAS

*) A/C - Mass 780Kg - 980Kg 94 KIAS

*) A/C - Mass 981Kg - 1150Kg 108 KIAS

2. Left Wing

31 Wing Surfaces	VIS. INSP.
32 Step	VIS. INSP.
33 Air Intake Lower	VIS. INSP.
34 Openings Lower	CHECK
35 Tank Drain	CHECK
36 Stall Warning	CHECK
37 Tank Filler	VIS. INSP.
38 Tank Air Outlet	VIS. INSP.
39 2x Stall Strips	VIS. INSP.
40 Pitot Probe	CLEAN
41 Ldg / Taxi Lights	VIS. INSP.
42 Wing Tip	VIS. INSP.
43 Static Dischargers	CHECK
44 Pos.Light & ACL	VIS. INSP.
45 Tiedown	CHECK, CLEAR
46 Aileron & Linkage	VIS. INSP.
47 Aileron Paddle	VIS, INSP.
48 Foreign.Obj.AileronPad	VIS. INSP.
49 Flap & Linkages	VIS. INSP.
50 Flap Hinges & Pin	VIS. INSP.

3. Fuselage (Left)

51 Canopy Left side	VIS. INSP.
52 Rear Door, Window	VIS. INSP.
53 Fuselage Skin	VIS. INSP.
54 Antennas	VIS. INSP.

4. Empennage

55 Stabilizer Contr. Surf.	VIS. INSP.
56 Static Dischargers	CHECK
57 Hinges	VIS. INSP.
58 Elev. Trim, Wire	VIS. INSP.
59 Rudder Trim Tab	VIS. INSP.
60 Fin Tiedown	CHECK, CLEAR
61 Tail Skid & Lower Fin	VIS. INSP.

5. Fuselage (Right)

62 Fuselage Skin	VIS. INSP.
63 Window	VIS. INSP.
64 Canopy Right Side	VIS. INSP.

6. Right Wing

65 Flap & Linkages	VIS. INSP.
66 Flap Hinges & Pin	VIS. INSP.
67 Aileron & Linkage	VIS. INSP.
68 Aileron Hinges & Pin	VIS. INSP.
69 Static Dischargers	CHECK
70 Aileron Paddles	VIS, INSP.
71 Wing Tip	VIS. INSP.
72 Pos.Light & ACL	VIS. INSP.
73 Tiedown	CHECK, CLEAR
74 Wing Surfaces	VIS. INSP.
75 2x Stall Strips	VIS. INSP.
76 Tank Filler	VIS. INSP.
77 Openings Lower	CHECK
78 Tank Drain	CHECK
79 Winterkit Temp Lmt. +20°	CHECK
80 Step	VIS. INSP.

7. Right Main Gear		
81 Gear Strut	VIS. INSP.	
82 Strut Fairing	VIS. INSP.	
83 Wheel Fairing	VIS. INSP.	
84 Tire 36psi / 2,5 bar	CHECK	
85 Tire Wear, Tread	CHECK	
86 Wheel Brake	VIS. INSP.	
87 Break Line Leaks	CHECK	
88 Slip Marks	VIS. INSP.	
89 Chocks	REMOVE	

8. Front Fuselage		
90 Oil Level 4,5-6 l	CHECK	
91 Gear Box Oil	CHECK	
92 Cowling	VIS. INSP.	
93 5 Air Intakes	CLEAR	
94 Propeller 	VIS. INSP.	
95 Spinner & Screws	VIS. INSP.	
96 Nose Landing Gear	VIS. INSP.	
97 Tire and Wheel	VIS. INSP.	
98 Slip Marks	VIS. INSP.	
99 Strut Fairing	VIS. INSP.	
100 Tire Wear, Tread	CHECK	
101 Wheel Fairing	VIS. INSP.	
102 Tow Bar	REMOVE	
103 Tire 29psi / 2,0bar	CHECK	
104 Chocks	REMOVE	

106 Exhaust	VIS. INSP.	
106 Forw. Cabin Inlets	CLEAR	
107 Antennas	VIS. INSP.	
108 Gascolator	DRAIN	
109 Venting Pipes	CHECK	
110 Fuselage Underside	CLEAN	

BEF. ENGINE START

1 Preflight Check	COMPL	
2 Rudder Pedals	ADJUST	
3 Passenger Briefing	COMPL	
4 Seat Belts / Harness	FASTEN	
5 Baggage	SECURE	
6 Pax Door	LOOKED/LATCHED	
7 Door Lock 	UNBLOCKED	
8 Front Canopy	POS. 1 or 2	
9 Canopy Lock 	UNBLOCKED	
10 Parking Brake	SET	
11 Flight Controls	FREE	
12 Trim Wheel	SET T/O	
13 Power	IDLE	
14 Power Lever Friction	ADJUST	
15 Alternate Air	CLOSED	
16 Alternate Static	CLOSED	
17 All Electric	OFF	
18 Avionic Master	OFF	
19 Electric Master	ON	
20 Annunciator Panel	CHECK	
21 Acknowledge Button	PRESS	
22 Cooling Level Warning	OFF	

Pres. Alt.	Load (%)	KTAS (kt)	Fuel Flow (l/h)	(US gal/h)	Range (NM)	Endurance (hrs)	Weight: 1150 kg / 2535 lb		Flaps: UP	
							Standard Tanks: 106 l (28 US gal) usable fuel			
8000	50	114	15.3	4.0	649	5.4				
10000	90	150	29.6	7.8	390	2.3				
10000	80	144	25.8	6.8	441	2.8				
10000	70	136	22.1	5.8	502	3.4				
10000	60	127	18.6	4.9	573	4.2				
10000	50	115	15.3	4.0	652	5.3				
12000	90	153	29.6	7.8	394	2.2				
12000	80	146	25.8	6.8	446	2.7				
12000	70	138	22.1	5.8	507	3.3				
12000	60	129	18.6	4.9	577	4.1				
12000	50	117	15.3	4.0	654	5.2				
14000	80	149	25.8	6.8	450	2.6				
14000	70	141	22.1	5.8	512	3.2				
14000	60	131	18.6	4.9	582	4.0				
14000	50	118	15.3	4.0	656	5.1				
16000	80	152	25.8	6.8	455	2.5				
16000	70	143	22.1	5.8	516	3.1				
16000	60	133	18.6	4.9	586	3.9				
16000	50	120	15.3	4.0	657	4.9				

Weight: 1150 kg / 2535 lb		Flaps: UP				
Standard Tanks: 106 l (28 US gal) usable fuel						
Pres. Alt.	Load (%)	KTAS (kt)	Fuel Flow (l/h)	Range (NM)	Endurance (hrs)	
SL	100	143	33.6	8.9	326	2.3
SL	90	137	29.6	7.8	370	2.7
SL	80	131	25.8	6.8	420	3.2
SL	70	124	22.1	5.8	480	3.9
SL	60	117	18.6	4.9	552	4.7
SL	50	107	15.3	4.0	635	5.9
2000	100	145	33.6	8.9	330	2.2
2000	90	140	29.6	7.8	374	2.6
2000	80	133	25.8	6.8	424	3.1
2000	70	126	22.1	5.8	485	3.8
2000	60	118	18.6	4.9	556	4.6
2000	50	109	15.3	4.0	639	5.8
4000	100	148	33.6	8.9	334	2.1
4000	90	142	29.6	7.8	378	2.5
4000	80	136	25.8	6.8	428	3.0
4000	70	129	22.1	5.8	489	3.7
4000	60	120	18.6	4.9	561	4.5
4000	50	111	15.3	4.0	642	5.7
6000	100	151	33.6	8.9	337	2.1
6000	90	145	29.6	7.8	382	2.5
6000	80	138	25.8	6.8	432	2.9
6000	70	131	22.1	5.8	494	3.6
6000	60	123	18.6	4.9	565	4.4
6000	50	112	15.3	4.0	646	5.6
8000	100	154	33.6	8.9	341	2.0
8000	90	148	29.6	7.8	386	2.4
8000	80	141	25.8	6.8	437	2.9
8000	70	133	22.1	5.8	498	3.5
8000	60	125	18.6	4.9	569	4.3

ENGINE START		
1	Bef. Engine Start CL	COMPL
2	Strobe Light / ACL	ON
3	Power	IDLE
4	Engine Master	ON
5	Glow Indication	OFF
6	Prop Area	CLEAR
7	Electric Master	START
8	Oil Press.	CHECK
9	Warmup@1400 RPM	2 MIN
10	Annunciator Panel	CHECK
11	Engine RPM	STABLE
12	Voltage, El. Load	CHECK

BEFORE TAXI		
1	Avionic Master	ON
2	Flaps all Positions	CHECK
3	Instruments	CHECK / SET
4	Avionics	AS REQ.
5	GNS430W NAV Data	CHECK
6	GI 275 Selftest	CHECK
7	Pitot On → Ammeter	CHECK
8	Pitot	OFF

TAXI		
1	Taxi/Landing Lights	ON
2	Parking Brake	RELEASE
3	Brakes	CHECK
4	Flight Instruments	CHECK
5	GI 275 Instruments	CHECK

BEFORE TAKEOFF		
1	Parking Brake	SET
2	Circuit Breakers	CHECK IN
3	Seat Belts/Harness	FASTEN
4	Pax Door	LOCKED/LATCHED
5	Front Canopy	LOCKED/LATCHED
6	Door Warning Light	CHECK OFF
7	Engine Instruments	GREEN
8	Flaps	TAKEOFF
9	Trim	TAKEOFF
10	Flight Controls	FREE
11	Power 10 Seconds	MAX
12	Oil Pressure	GREEN
13	RPM 2240 / 2300	STABILIZE
14	Load Indication Stable	90-100%
15	Power	IDLE
16	ECU Test	PUSH&HOLD
17	ECU A, ECU B, Caution	BLINKING
18	ECU B Caution	BLINKING
19	Propellor RPM	CYCLING
20	ECU A Caution	BLINKING
21	Propellor RPM	CYCLING
22	Caution Lights	OFF
23	ECU Test Button	RELEASE
24	ECU Swap	ECU B
25	Engine RPM No Change	CHECK
26	ECU swap	AUTOMATIC
27	Pitot Heat	AS REQ
28	Landing Light	ON
29	Parking Brake	RELEASE

DEPARTURE BRIEFING	
1 ATC Clearance	RECEIVED
2 RWY In Use	CHECKED
3 Departure Route	CONFIRM
4 Contingency Procedure	Checked
5 COM / NAV	PREPARED
6 Dep. Briefing	COMPLETE

LINE UP / TAKEOFF	
1 Dep. Briefing	COMPLETED
2 Landing Light	On
3 Transponder	ON/ALT
4 Approach Sector	CLEAR
5 Rotate (V_R)	55-59 KIAS*
6 Climb Speed (V_X)	60-66 KIAS*

*) A/C - Mass 1000Kg - 1150Kg

CLIMB CHECK	
1 Power	90%
2 400ft AGL Safe Alt	CHECK
3 Climb Speed (V_Y)	78 KIAS*
4 Flaps	UP
5 Landing Light	OFF

*) A/C - Mass 1000Kg - 1150Kg

CRUISE CHECK	
1 Flaps	CHECK UP
2 Altimeters	SET
3 Power	SET
4 Directional Gyros	SET
5 Fuel quantity	CHECK
6 Fuel Transfer	BALANCE
7 Maneuver Spd V_A	94/108 KIAS*
8 Normal Operating Spd V_{no}	129 KIAS

*) A/C - Mass 780Kg - 980Kg 94 KIAS

*) A/C - Mass 981Kg - 1150Kg 108 KIAS

DESCENT	
1 Approach Briefing	COMPLETE
2 Altimeter	SET
3 GI 275 Instruments	SET
4 Fuel	BALANCE
5 Descent Planning	COMPLETE

LANDING APPROACH	
1 Power	APPROX. 30%
2 Safety Harness	FASTEN
3 Airspeed Reduce MAX	108 KIAS
4 Flaps	T/O
5 Trim	AS REQ
6 Landing Light	AS REQ
7 Approach Speed	70 KIAS

FINAL	
1 Airspeed Reduce	70 KIAS
2 Flaps	LANDING
3 Final Approach Spd	63-67 KIAS*
Power	FULL FWD
Airspeed	54-66 KIAS*
Flaps	T/O
400ft AGL Safe Alt	CHECK
Airspeed	68-73 KIAS*
Flaps	UP

*) A/C - Mass 1000Kg - 1150Kg

AFTER LANDING	
1 Power	IDLE
2 Transponder	GND/STBY
3 Flaps	UP
4 Pitot Heat	OFF
5 Landing Light	OFF
6 Taxi / LDG Light	AS REQ

SHUT DOWN	
1 Parking Brake	SET
2 ELT (121,5 MHz)	CHECK
3 Flight Plan	CLOSE
4 Avionic / Electrics	OFF
5 Power Cooldown	IDLE 2 MIN.
6 Engine Master	OFF
7 Position Lights	OFF
8 Strobes	OFF
9 Master ALT - BAT	OFF
10 Flight Logger	SLIDE CARD
11 Map Light	CHECK OFF
12 Parking Brake	AS REQ
13 Tiedown	AS REQ