



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	

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

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

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

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

SPEED	V_{SO} (Stall- Flaps max)	49 KIAS
	V₀ (Stall- Flaps up)	52 KIAS
	V_G (Flaps up)	68-73 KIAS*
	Max. Demo. X-Wind	20 knots

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

COM FAIL	

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 04:30
	Persons on Bord 2
	Emerg. Equipm. ELT
	A/C Colour WHITE
	Name PIC NAME

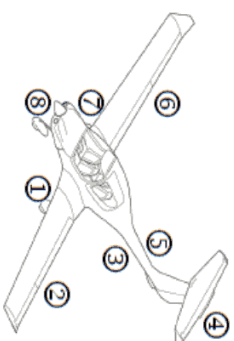
Consult POH/AFM for "Warnings, Cautions and additional information"
 This document does not replace POH/AFM - (KDI 2026 V1.9)

PREFLIGHT

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

CABIN CHECK

3 Ignition Key	REMOVE
4 Canopies Both	CHECK
5 Electric Master	OFF
6 Engine Master	OFF
7 ECU Swap	AUTO
8 Electr. Equipment	OFF
9 Emerg. Fuel Valve	NORMAL
10 Circ. Breakers	ALL-IN
11 Power Lever	CHECK IDLE
Electric Master	ON
CED/AED	CHECK
Fuel Indication	CHECK
Ext. Lights	CHECK
All Electric	CHECK
Doors Closed/Latched	CHECK
Doors Wrng. Inactive	CHECK
Pax Door	UNLATCH
Doors Wrng. Active	CHECK
Pax Door Safety Hook	CHECK
Pax Door Locking Bolts	CHECK
Pax Door Push Button	CHECK
Electric Master	OFF
Foreign Objects	NONE
Flight Control	CORRECT
Trim Tab	MOVABLE
Baggage	SECURED

EXTERIOR CHECK**1. Left Main Gear**

29 Gear Strut	VIS. INSP.
30 Strut Fairing	VIS. INSP.
31 Wheel Fairing	VIS. INSP.
32 Tire 36psi / 2,5 bar	CHECK
33 Tire Wear, Tread	CHECK
34 Wheel Brake	VIS. INSP.
35 Brake Line Leaks	CHECK
36 Slip Mark	VIS. INSP.
37 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	63 - 71 KIAS
Balked Ldg Flaps T/O	60 - 66 KIAS
Max. demo X Wind	20 knots
V _{FE} max, Flaps TO	108 KIAS
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*
Best Glide / Flaps UP	68 - 73 KIAS
Engine Off - Best Glide / Flaps T/O	66 - 72 KIAS

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

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

2. Left Wing

38 Wing Surfaces	VIS. INSP.
39 Step	VIS. INSP.
40 Air Intake Lower	VIS. INSP.
41 Openings Lower	CHECK
42 Tank Drain	CHECK
43 Stall Warning	CHECK
44 Tank Filler	VIS. INSP.
45 Tank Air Outlet	VIS. INSP.
46 2x Stall Strips	VIS. INSP.
47 Pitot Probe	CLEAN
48 Ldg / Taxi Lights	VIS. INSP.
49 Wing Tip	VIS. INSP.
50 Static Dischargers	CHECK
51 Pos.Light & ACL	VIS. INSP.
52 Tiedown	CHECK, CLEAR
53 Aileron & Linkage	VIS. INSP.
54 Aileron Hinges & Pin	VIS. INSP.
55 Foreign.Obj.AileronPad	VIS. INSP.
56 Flap & Linkage	VIS. INSP.
57 Flap Hinge & Pin	VIS. INSP.

3. Fuselage (Left)

58 Canopy Left side	VIS. INSP.
59 Rear Door, Window	VIS. INSP.
60 Fuselage Skin	VIS. INSP.
61 Antenna	VIS. INSP.

4. Empennage

62 Stabilizer Contr. Surf.	VIS. INSP.
63 Static Discharger	CHECK
64 Hinges	VIS. INSP.
65 Elev. Trim, Wire	VIS. INSP.
66 Rudder Trim Tab	VIS. INSP.
67 Fin Tiedown	CHECK, CLEAR
68 Tail Skid & Lower Fin	VIS. INSP.

5. Fuselage (Right)

69 Fuselage Skin	VIS. INSP.
70 Window	VIS. INSP.
71 Canopy Right Side	VIS. INSP.

6. Right Wing

72 Flap & Linkages	VIS. INSP.
73 Flap Hinges & Pin	VIS. INSP.
74 Aileron & Linkage	VIS. INSP.
75 Aileron Hinges & Pin	VIS. INSP.
76 Foreign.Obj.AileronPad	VIS. INSP.
77 Static Dischargers	CHECK
78 Wing Tip	VIS. INSP.
79 Pos.Light & ACL	VIS. INSP.
80 Tiedown	CHECK, CLEAR
81 Wing Surfaces	VIS. INSP.
82 2x Stall Strips	VIS. INSP.
83 Tank Filler	VIS. INSP.
84 Openings Lower	CHECK
85 Tank Drain	CHECK
86 Winterkit Temp Lmt. +20°	CHECK
87 Step	VIS. INSP.

7. Right Main Gear	
88 Gear Strut	VIS. INSP.
89 Strut Fairing	VIS. INSP.
90 Wheel Fairing	VIS. INSP.
91 Tire 36psi / 2,5 bar	CHECK
92 Tire Wear, Tread	CHECK
93 Wheel Brake	VIS. INSP.
94 Brake Line Leaks	CHECK
95 Slip Mark	VIS. INSP.
96 Chocks	REMOVE

112 Exhaust	VIS. INSP.
113 Forw. Cabin Inlets	CLEAR
114 Antennas	VIS. INSP.
115 Gascolator	DRAIN
116 Venting Pipes	CHECK
117 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	LOCKED/LATCHED
7 Door Lock 	UNBLOCKED
8 Front Canopy	POS. 1 or 2
9 Canopy Lock 	UNBLOCKED

8. Front Fuselage	
97 Oil Level 4,5-6 l	CHECK
98 Gear Box Oil	CHECK
99 Cowling	VIS. INSP.
100 5 Air Intakes	CLEAR
101 Propeller 	VIS. INSP.
102 Spinner & Screws	VIS. INSP.
103 Nose Landing Gear	VIS. INSP.
104 Tire and Wheel	VIS. INSP.
105 Slip Mark	VIS. INSP.
106 Strut Fairing	VIS. INSP.
107 Tire Wear, Tread	CHECK
108 Wheel Fairing	VIS. INSP.
109 Tow Bar	REMOVE
110 Tire 29psi / 2,0bar	CHECK
111 Chocks	REMOVE

10 Parking Brake	SET
11 Flight Controls	FREE
12 Trim Wheel	SET T/O
13 Power Lever	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
23 Fuel Temp. Warning 	CHECK

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

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

This document does not replace POH/AFM - (KDI 2026 V1.9)

ENGINE START		
1	Bef. Engine Start CL	COMPL
2	Strobe Light / ACL	ON
3	Power Lever	IDLE
4	Prop Area	CLEAR
5	Engine Master	ON
6	Glow Indication	OFF
7	Electric Master	START
8	Oil Press.	CHECK
9	Warmup@Idle RPM	2 MIN
10	Warmup@1400 RPM	2 MIN
11	Oil & Cooler Temp	GREEN
12	Annunciator Panel	CHECK
13	Engine RPM	STABLE
14	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	Circuit Breakers CHECKED
9	Flaps TAKEOFF
10	Trim TAKEOFF
11	Flight Controls FREE
12	Power 10 Seconds MAX
13	Oil Pressure GREEN
14	RPM 2240 / 2300 STABILIZE
15	Load Indication Stable 90-100%
16	Power Lever IDLE
17	ECU Test PUSH&HOLD
18	ECU A, ECU B, Caution BLINKING
19	ECU B Caution BLINKING
20	Propeller RPM CYCLING
21	ECU A Caution BLINKING
22	Propeller RPM CYCLING
23	Caution Lights OFF
24	ECU Test Button RELEASE
25	ECU Swap ECU B
26	Engine RPM No Change CHECK
27	ECU swap AUTOMATIC
28	Pitot Heat AS REQ
29	Landing Light ON
30	Parking Brake RELEASE

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

This document does not replace POH/AFM - (KDI 2026 V1.9)

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*

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

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

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

FINAL	
1 Airspeed Reduce	71 KIAS
2 Flaps	LANDING
3 Final Approach Spd	63-71 KIAS*
Power	FULL FWD
Airspeed	60-66 KIAS*
Flaps	T/O
400ft AGL Safe Alt	CHECK
Airspeed	68-73 KIAS*
Flaps	UP
Airspeed	78 KIAS

^{*)} 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 Electric Master	OFF
10 Flight Logger	SLIDE CARD
11 Map Light	CHECK OFF
12 Parking Brake	AS REQ
13 Pitot Cover	INSTALL
14 Tiedown	AS REQ