

AIRCRAFT CHECKLIST

ACHTUNG

Massgebend für den Betrieb des Flugzeuges ist ausschliesslich das **AFM**



COMCO IKARUS C42
HB-WAS

Diese Checkliste gehört: _____

FLUGLEISTUNGEN

GESCHWINDIGKEITEN

Maximalgeschwindigkeit flaps extended	V_{FE}	105	km/h
Final Speed	V_{final}	95	km/h
Manoeuvring	V_A	139	km/h
<i>Achtung: Mit geringerem Fluggewicht wird V_A kleiner!</i>			
Never exceed	V_{NE}	216	km/h
geringstes Sinken bei abgestelltem Motor, Flaps 1		85	km/h
bester Gleitwinkel bei abgestelltem Motor, Flaps 0		95	km/h

MASSE

Leergewicht		278.1	kg
Maximale Abflugmasse	MTOW	472.5	kg
Zuladung minimal		65	kg
Zuladung maximal		194.4	kg

BETRIEBSSTOFFE

Nachfolgende Kraftstoffe können verwendet werden:

Bleifrei 95; Bleifrei 98; wenn nichts anderes vorhanden AVGAS 100LL

Tankinhalt 65 l

Eine Betankung mit AVGAS 100 ist im Flugreisebuch zu vermerken!

Kraftstoffverbrauch bei 65% / 4700 RPM Dauerleistung 12 l/h

MOTOR / LÄRM

Motorentyp und -leistung	ROTAX 912UL / 80 PS
Propeller	KievProp 3-Blatt BB263/1700
Lärmklasse	D

LIMITEN

Maximale Windgeschwindigkeiten für den Betrieb:

Bei gleichmäßigem Wind **35 km/h / 20 kts**

Demonstrierte Seitenwindkomponente **30 km/h / 17 kts**

1. By heart item, Auswendig durchzuführen

AEROPLANE PREPARATION

- | | |
|---|------------------------|
| 1. Outside check | • according AFM |
| 2. Seitensteuerpedale auf Risse prüfen | • keine Risse sichtbar |
| 3. Anlenkplatte Seitensteuer auf Risse prüfen | • keine Risse sichtbar |
| 4. Documents / Flight time counter | • checked |
| 5. Weight and balance | • check AFM |

BEFORE STARTING ENGINE

- | | |
|--------------------------|-------------------------|
| 1. Cabin doors | • closed |
| 2. Rettungsgerät | • entsichert |
| 3. Parking brake | • set |
| 4. Seatbelts | • set |
| 5. Electric equipment | • off |
| 6. Master switch | • on |
| 7. Fuel quantity | • checked |
| 8. Fuel shut off valve | • open |
| 9. Controls | • free and correct |
| 10. Flaps | • set for take off |
| 11. Electric Trim | • set for take off |
| 12. Avionics COM | • on / check 121.50 |
| 13. ATIS | • checked |
| 14. Altimeter set QNH | • check field elevation |
| 15. Start up clearance | • request |
| 16. Strobe light | • on |
| 17. Avionics (COM, XPDR) | • off |

CHECK BEFORE STARTING ENGINE COMPLETED

STARTING ENGINE

- | | |
|---------------------------|--|
| 1. Electric fuel pump | • on |
| 2. Choke | • pull if engine cold |
| 3. Throttle | • idle if engine cold
• 1 cm open if engine hot |
| 4. Magnetos | • both ON |
| 5. Propeller area | • clear |
| 6. Starter | • engage |
| 7. Oil pressure | • check green arc within
10sec |
| 8. Throttle | • 2000 RPM for 2min then
2500 RPM for 3min |
| 9. Choke | • carefully release |
| 10. Electric fuel pump | • off |
| 11. Charger Warning light | • checked off |

ENGINE START COMPLETED

AFTER ENGINE START

- | | |
|-------------------|---------|
| 1. Avionics | • on |
| 2. Transponder | • SBY |
| 3. Off block time | • noted |

TAXI CHECK

- | | |
|--------------------------------|-----------|
| 1. Taxi clearance | • request |
| 2. Area | • free |
| 3. Brakes and steering | • correct |
| 4. Magneto compass / slip ball | • correct |

TAXI CHECK COMPLETED

GROUND CHECK / RUN UP

- | | |
|------------------------------------|-------------------------|
| 1. Parking brake | • set / hold manually |
| 2. Back area | • free |
| 3. Engine instruments | • green arc |
| 4. Throttle | • 4000 RPM |
| 5. Magnetos left + right / both | • max. drop 300 RPM |
| 6. Difference between left + right | • max. 120 RPM |
| 7. Oil pressure | • green |
| 8. Engine instruments | • checked within limits |
| 9. Throttle idle | • max 2000 RPM |
| 10. Throttle | • set 2000 RPM |

ENGINE CHECK COMPLETED

CHECK BEFORE TAKE OFF

- | | |
|----------------------------------|----------------------|
| 1. Fuel shut off valve | • open |
| 2. Fuel quantity | • rechecked |
| 3. Flaps + Trim set for take off | • rechecked |
| 4. Magnetos | • both on |
| 5. Electric Fuel Pump | • on |
| 6. Controls | • free and correct |
| 7. Avionics setting | • rechecked |
| 8. Door + Windows | • closed and latched |
| 9. Passenger | • fastened |

CHECK BEFORE TAKE OFF COMPLETED

DEPARTURE BRIEFING

- | | |
|--------------------------|--|
| 1. Consider | <ul style="list-style-type: none"> • RWY length required and available • Type of obstacles • Actual meteo |
| 2. Speeds | <ul style="list-style-type: none"> • 70-80 km/h for normal T/O and short Field T/O (Flaps 1) |
| 3. First climb | <ul style="list-style-type: none"> • 95 - 105 km/h |
| 4. Any major malfunction | <ul style="list-style-type: none"> • Power idle, braking and steering • Nose down, speed 85 km/h, landing straight ahead, no turns back to the field below circuit altitude |
| 5. Engine Failure | <ul style="list-style-type: none"> • Nose down, speed 85, fuel pump on |
| 6. First navigation | <ul style="list-style-type: none"> • checked |

READY FOR DEPARTURE

LINE UP CHECK

- | | |
|--------------------------------------|--|
| 1. Approach sector | <ul style="list-style-type: none"> • free |
| 2. Landing light | <ul style="list-style-type: none"> • on |
| 3. Wind / RWY | <ul style="list-style-type: none"> • checked / free |
| →→ When established on centreline →→ | |
| 4. Time | <ul style="list-style-type: none"> • noted |
| 5. Take-Off clearance received | |

TAKE OFF



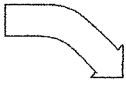

- | | |
|--|--|
| 1. Full power | <ul style="list-style-type: none"> • set |
| 2. Airspeed indicator | <ul style="list-style-type: none"> • alive / speed rising |
| 3. Rotate (Flaps -4.5° / 11°) | <ul style="list-style-type: none"> • 50 km/h |
| 4. Increase speed | <ul style="list-style-type: none"> • 95 km/h |
| 5. Flaps (clear of obstacles) | <ul style="list-style-type: none"> • Speed checked / up |
| 6. First nav. | <ul style="list-style-type: none"> • continue |

CLIMB CHECK

- | | |
|-----------------------|-------------------------|
| 1. Power setting | • set climb power |
| 2. Electric fuel pump | • off |
| 3. Flaps | • check up |
| 4. Landing light | • off |
| 5. Speed | • 100 - 110 km/h |

CLIMB CHECK COMPLETED

LEVEL OFF

 <ol style="list-style-type: none"> 1. Attitude 2. Power setting 3. Trim 	 <ol style="list-style-type: none"> 1. Power setting 2. Attitude 3. Trim
 <ol style="list-style-type: none"> 1. Attitude 2. Power setting 3. Trim 	 <ol style="list-style-type: none"> 1. Attitude 2. Power setting 3. Trim

CRUISE CHECK

- | | |
|-----------------------|---------------------|
| 1. Altimeter | • set to QNH or QNE |
| 2. Fuel QTY | • checked |
| 3. Engine instruments | • green arc |
| 4. Power setting | • 4700 RPM (65%) |

CRUISE CHECK COMPLETED

CHECK FOR APPROACH

- | | |
|-------------------------|---------------|
| 1. Approach Briefing | |
| 2. Altimeter | • set to QNH |
| 3. Landing light | • on |
| 4. Electrical fuel pump | • on |
| 5. Fuel QTY | • checked |
| 6. Power setting | • as required |

CHECK FOR APPROACH COMPLETED

- | | |
|----------|--------------|
| 7. Speed | • white arc |
| 8. Flaps | • Position 1 |

APPROACH CONFIGURATION ESTABLISHED

FINAL CHECK

- | | |
|-------------------------------|---------------|
| 1. Flaps | • as required |
| 2. Landing clearance received | |

FINAL CHECK COMPLETED

GO AROUND

- | | |
|---------------|-------------------------|
| 1. Power | • full power |
| 2. Attitude | • climb |
| 3. Flaps | • check speed, flaps up |
| 4. Accelerate | • 105 km/h |

→→Climb check→→

CHECK AFTER LANDING

- | | |
|-------------------------|-------|
| 1. Transponder | • SBY |
| 2. Flaps | • up |
| 3. Electrical fuel pump | • off |

CHECK AFTER LANDING COMPLETED

ENGINE SHUT DOWN

- | | |
|------------------------------|--------------------------------|
| 1. Parking brake | • set |
| 2. Landing light | • off |
| 3. Throttle | • 2500 RPM |
| 4. COM | • check 121.50 |
| 5. Avionics (COM/XPDR) | • off |
| 6. Magnetos | • both off |
| 7. Master switch | • off |
| 8. Rettungsgerät | • gesichert |
| 9. Parking brake | • released, apply wheel chocks |
| 10. Doors closed for parking | • checked |

EMERGENCY PROCEDURES

ENGINE FIRE DURING START

- | | |
|-------------------------|-------------|
| 1. Starter | • press |
| 2. Fuel shut off valve | • off |
| 3. Electrical Fuel Pump | • off |
| 4. Throttle | • full open |
| 5. Magnetos | • both off |
| 6. Master switch | • off |
| 7. Passenger/Pilot | • evacuate |

FIRE IN FLIGHT

- | | |
|-------------------|------------|
| 1. Source of fire | • identify |
|-------------------|------------|

→→Electrical fire→→

- | | |
|------------------|--------|
| 1. Master switch | • off |
| 2. Stormwindow | • open |

→→Land as soon as possible→→

→→Engine fire→→

- | | |
|-------------------------|-------------|
| 1. Fuel shut off valve | • off |
| 2. Electrical Fuel pump | • off |
| 3. Throttle | • full open |
| 4. Slip (schieben) | • establish |

→→Prepare for power off landing→→

ENGINE POWER LOSS DURING TAKEOFF

- | | |
|----------------------|---|
| 1. Fly the aircraft! | • Nose down, safe speed immediately: 95 km/h |
| 2. At low altitude | • As req. If possible flaps 2 (34°), 90 km/h |

ENGINE POWER LOSS IN FLIGHT

1. Fly and trim best glide speed	• 95 km/h
2. Landing site	• determine
→→If no time / low altitude→→	
3. Prepare for power off landing	
→→If time / altitude permits→→	
4. Fuel shutoff valve (Brandhahn)	• open (forward)
5. Electrical fuel pump	• on
6. Choke	• off
7. Engine instruments	• check for reason
8. Fuel quantity	• checked
9. Magnetos	• both on
10. Throttle	• ¼ open
11. Starter	• engage
→→If power is restored→→	
12. Electrical fuel pump	• off
→→If power is not restored→→	
13. Prepare for power off landing	

POWER OFF LANDING

1. Seatbelts / Cabin	• fastened / secured
2. Fuel shutoff valve (Brandhahn)	• off (upwards)
3. Magnetos	• both off
4. Master switch	• off
→→When field can easily reached→→	
5. Flaps	• 2 (34°)
6. Speed	• final approach 90 km/h
7. Door	• consider open/closed

SPIN (VRILLE) RECOVERY

- | | |
|-------------------------|---------------------------|
| 1. Throttle | • idle |
| 2. Ailerons | • neutral |
| 3. Rudder | • full opposite direction |
| 4. Elevator | • neutral |
| →→When rotation stops→→ | |
| 5. Rudder | • neutral |
| 6. Elevator | • recover attitude |

USE OF RETTUNGSGERÄT

- | | |
|------------------|------------------|
| 1. Magnetos | • both off |
| 2. Attitude | • horizontally |
| 3. Speed | • 70 km/h |
| 4. Seatbelts | • fastened |
| 5. Rettungsgerät | • activate |

LOSS OF OIL PRESSURE

1. Land as soon as possible and investigate cause
2. Prepare for power off landing

LOSS OF FUEL PRESSURE

- | | |
|----------------------------------|------------------------|
| 1. Electrical fuel pump | • on |
| 2. Fuel shutoff valve | • check open (forward) |
| 3. Prepare for power off landing | |

ELEVATOR LOCKED

- | | |
|--|----------------------------------|
| 1. Electrical trim | • Establish speed
80-170 km/h |
| 2. Try to land by using electrical trim (long, wide runway, wind calm) | |
| 3. Consider use of Rettungsgerät | |

AILERON LOCKED

1. Control Aircraft by using rudder
2. Try to land by using rudder (long, wide runway, wind calm)
3. Consider use of Rettungsgerät

RUDDER LOCKED

1. Control Aircraft by using ailerons
2. Try to land by using rudder (long, wide runway, wind calm)
3. Consider use of Rettungsgerät

ELECTRICAL FAILURES

1. Check charger warning light for failure of alternator
2. Check fuses
3. If problem not solved: reduce electrical loads
4. **Battery is the only source of electrical Power**

MFGO

COMCO IKARUS C42

HB-WAS

