

N162DH
Ikarus/C42E
INTERIOR INSPECTION

GPS _____ INSTALL
HOBBS _____ RECORD
A.R.O.W. DOCUMENTS _____ CHECK
FUEL VALVE _____ ON
MAG SWITCHS _____ OFF
CONTROLS _____ FREE
MASTER (KEY) _____ ON
FUEL QUANTITY GUAGE _____ CHECK
LIGHTS: _____ EXTERIOR CHECK/OFF
MASTER (KEY) _____ OFF
FLAPS _____ EXTEND 15°

EXTERIOR — START AT PILOT'S DOOR

WING LEADING EDGE _____ INSPECT
PITOT TUBE _____ REMOVE COVER & INSPECT
TIE DOWN _____ REMOVE
AILERON, FLAP, WING TIP & ROOT _____ INSPECT
TIRE (26-36PSI) WHEEL & BRAKE _____ INSPECT
CHOCKS _____ PLACE BEHIND WHEEL
INSPECTION PANNEL _____ REMOVE

* Visual CHECK FUEL QUANTITY

* Visual CHECK INTERIOR COMPONENTS

SECURE INSPECTION PANNEL

FUSELAGE (INCLUDING ANTENNAS) _____ INSPECT
ELEVATOR/RUDDER/TRIM _____ INSPECT
FUSELAGE AND BELLY _____ INSPECT
FUEL _____ SUMP
FUEL CAP _____ CHECK SECURE
TIRE (26-36PSI) WHEEL & BRAKE _____ INSPECT
AILERON, FLAP, WING TIP & ROOT _____ INSPECT
TIE DOWN _____ REMOVE

ENGINE / PROP / NOSE WHEEL INSPECTION

COOLANT _____ CHECK
NOSE WHEEL (22-26 PSI) / STRUT _____ INSPECT
PROP SECURE **NO SCRATCHES** _____ INSPECT
OIL (IF LOW PULL PROP -3-4) _____ CHECK

DO NOT TURN PROP IN REVERSE

FLAPS _____ RETRACT

REMOVE AIRCRAFT FROM HANGAR

ENGINE START

SEATBELTS _____ ON
PASSENGER BRIEFING _____ COMPLETE
BRAKES _____ SET
CARB HEAT _____ OFF
STROBE LIGHT _____ ON
FUEL PUMP _____ ON

"CLEAR" AREA

MAGS SWITCHS _____ UP/ON
MASTER SWITCH (KEY) _____ ON
CHOKE (NO CHOKE IF WARM) _____ PULL & HOLD OUT
THROTTLE _____ AFT/IDLE

PRESS RED START BUTTON-

RELEASE CHOKE AFTER START

COLD ENGINE START MAY REQUIRE HOLDING CHOKE OUT

RPM 2 MIN _____ 2000 - 2500
OIL PRESSURE _____ (NORMAL 29- 72.5 PSI) RISING
FUEL PUMP _____ OFF
INTERCOMM AND RADIO _____ ON
TRANSPONDER _____ SBY/1200
NAV LIGHTS _____ ON
OIL TEMP (50° TO 110°C normal) _____ RISING
CHT _____ RISING
CHARGING LAMP (ALTERNATOR) _____ OFF

TAXI

RADIO FRQ (CTAF/ ATIS/GROUND) _____ AS REQ
COMMUNICATE IF REQUIRED
THROTTLE _____ LOW IDLE 1800-2000 RPM
BRAKES _____ RELEASE
WIND DIRECTION & SPEED _____ CHECK
CONTROLS _____ SET AS REQ FOR WIND

CRESWELL — 122.7
COTTAGE GROVE — 122.8
EUG ATIS — 125.22
CASCADE APP—119.6
EUG TWR —118.9
EUG GRND—121.7

BEFORE TAKEOFF CHECKS

BRAKES _____ SET

C.I.G.A.R.T.S.

CONTROLS _____ FREE & CORRECT

INSTRUMENTS _____ SET & CHECK

GAS _____ ON

ATTITUDE TRIM _____ 1 STEP ABOVE NEUTRAL

RADIOS/GPS _____ SET/VOL/PROGRAM

RUN-UP – OIL TEMP $\geq 50^{\circ}\text{C}$

– **THROTTLE: 3500 OR AS APPROPRIATE**

– **MAGS (MAXIMUM DROP 200 RPM)**

– **#1 MAG** CHECK (OFF / ON)

– **#2 MAG** CHECK (OFF / ON)

– **CARB HEAT** _____ PULL ON /OFF

– **OIL PRES CHECK** _____ 29- 72.5 PSI

– **OIL TEMP** _____ BEST **90° - 110°C**

– **THROTTLE** _____ CHECK IDLE THEN 2000

TRANSPONDER (1200 OR AS DIRECTED) _____ ALT

SAFETY

– **FUEL PUMP** _____ **ON**

– DOORS CLOSED / BELTS ON

FLAPS _____ 1ST NOTCH (15°) **IF DESIRED**

BRAKES RELEASE

360° —VISUALLY CLEAR BASE/FINAL

AT HOLD LINE RECHECK & ANNOUNCE

—INSTRUMENTS / TRIM / FUEL PUMP ON /TRAFFIC

—ANNOUNCE INTENTIONS

—**TIME – START/NOTE**

—**TRANSPONDER –ALT**

—ON RUNWAY CHECK HEADING

TAKEOFF V_R 26 KIAS (30-44 MPH)

CLIMB SPEEDS:

66-70 KIAS NO FLAPS V_Y 60 KIAS — 15° FLAPS

V_X (15° FLAPS) 48 KIAS (55 MPH)

AFTER TAKEOFF & CRUISE CLIMB

FLAPS UP
CLIMB — **70 - 90** KIAS (80 – 105 MPH)
SCAN ENGINE INSTRUMENTS
CHECK HEADING
SCAN FOR TRAFFIC
1000 FEET AGL OR ABOVE — **FUEL PUMP OFF**
OPEN FLIGHT PLAN WITH FSS /CONTACT ATC — AS REQ

TOP OF CLIMB — CRUISE

THROTTLE — 4500 RPM OR ADJUST AS REQ
ECONOMIC CRUISE — **83 KIAS** (95 MPH)
TURBULANT AIR VA — 84 KIAS (97 MPH) OR LESS

APPROACH TO LANDING IN RANGE (10 MILES FROM AIRPORT)

RADIO SET - MONITOR CTAF/ UNICOM/ATIS/ASOS
PASSENGER BRIEFING
ANNOUNCE POSITION AND/OR CONTACT ATC

BEFORE LANDING -5 MILES OUT (C.G.L.U.P.S)

CARB HEAT _____ IF REQ
GAS _____ ON
LIGHTS _____ ON
UNDERCARRIAGE _____ BRAKES OFF
SEATBELTS/ PASSENGER BRIEFING/ CHECK TRAFFIC

DOWNWIND/MID FIELD

CARB HEAT IF REQ
FUEL PUMP ON
AIRSPEED (3800-4300 RPM) **60-80 KIAS** (92 MPH)

ABEAM END OF RUNWAY /BASE / FINAL

REDUCE POWER 2100-2500 RPM OR AS REQ.
AIRSPEED WHITE ARC
FLAPS 15° OR AS REQ
15° FLAPS **58 KIAS** (67 MPH)
40° FLAPS YELLOW ARROW 48- **55 KIAS** (63MPH)
CARB HEAT OFF

AFTER LANDING — CLEAR OF RUNWAY

FLAPS _____ RETRACT
FUEL PUMP _____ OFF
TRANSPONDER _____ SBY
RADIOS _____ ANNOUNCE AS REQ

ENGINE SHUT DOWN

BRAKES _____ SET
THROTTLE SET RPM TO 2000 _____ CHECK MAGS
THROTTLE _____ IDLE
FUEL PUMP _____ OFF
NAV LIGHTS (EXCEPT STROBE) _____ OFF
TRANSPONDER _____ OFF
RADIO _____ OFF
MAGS _____ OFF/DOWN
MASTER KEY _____ OFF/REMOVE
BRAKES _____ RELEASE
GPS— IF INSTALLED _____ REMOVE

RETURN TO HANGAR OR TIE DOWN POST-FLIGHT

REFUEL IF TANK IS 8 GAL OR LESS

HOBBS / TACH TIMES RECORD IN BOOK
REMOVE GPS
SEAT BELTS FASTENED
CLEAN WINDSCREEN / REMOVE PERSONAL ITEMS
LOCK DOORS

POST FLIGHT COMPLETE

LOCAL RADIO FREQUENCIES

CRESWELL — 122.7
COTTAGE GROVE — 122.8
EUG ATIS — 125.22
CASCADE APP—119.6
EUG TWR —118.9
EUG GRND—121.7

V SPEEDS (CAS)

V_{s1} 0° Flaps _____ **44 KTS** (50 MPH)
V_{s2} 15° Flaps _____ **40 KTS** (46 MPH)
V_{so} 40° Flaps _____ **35 KTS** (40 MPH)
V_{FE} _____ **63 KTS** (70 MPH) White Arc
V_A _____ **84 KTS** (97 MPH) Yellow Arc
V_H _____ **105 KTS** (121 MPH)
V_{NE} _____ **121 KTS** (139 MPH)
BEST GLIDE 58 KIAS/67 MPH

Engine RPM'S

5800 rpm (5 minutes max)
5500 rpm max continuous

Oil Pressure: 29 – 72.5 psi (Normal)

Oil Temperature Celsius

50°MIN / **Max 130°**
Preferred Range 90 - 110°
Maximum Coolant Temp. 115°
Maximum CHT Temp: 135°C

ENGINE RESTART

1. MASTER KEY ON
2. MAGS ON
3. FUEL SELECTOR VALVE ON
4. FUEL PUMP ON
5. THROTTLE 1/4 OPEN
6. START BUTTON PRESS

ENGINE FAILURE AT ALTITUDE (A-B-C-D-E)

AVIATE FLY THE AIRPLANE

BEST GLIDE SPEED 58 KIAS (67 MPH) (TRIM)

BEST LANDING SITE

LOOK AROUND / BELOW OR BEHIND YOU

CHECK WIND DIRECTION

CHECKS

1. FUEL SELECTOR VALVE ON
2. FUEL PUMP ON
3. CARB HEAT ON
4. CHOKE OFF
5. MAGS: CHECK #1 / #2 (BEST MAG IF REQ).
6. OIL PRESSURE: 29 – 72.5 psi) LOW/HIGH?
7. Oil TEMP: 50°MIN / Max 130° LOW/HIGH?
8. CHT MAX = 135° LOW/HIGH?

COMMUNICATE: ATC / 121.5 / XPONDER: 7700

EVALUATE ACTIONS

OFF FIELD LANDING

1. AIRSPEED NORMAL LANDING SPEED
2. FLAPS 15° TO 40° - AS REQUIRED
3. SEAT BELTS TIGHT
4. PASSENGERS BRIEFING: SEAT BELTS / HOW TO EXIT
5. THROTTLE OFF
6. MASTER KEY OFF
7. FUEL PUMP OFF
8. FUEL SELECTOR VALVE OFF

AFTER EXIT MOVE AWAY FROM AIRCRAFT

RADIO / AVIONICS FAILURES

1. FREQUENCY CORRECT?
2. KEY & AVIONICS MASTER CHECK ON ?
3. CIRCUIT BREAKERS CHECK / RESET — 1X ONLY
4. RADIO VOL. AND HEADSET CONNECTIONS CHECK
5. TRY ANOTHER FREQUENCY OR HANDHELD RADIO
6. **TOWER AIRPORT - SQUAWK 7600**
7. LOOK FOR LIGHT GUN SIGNALS
8. LAND AT NEXT PRACTICAL AIRPORT

ENGINE FIRE IN FLIGHT

1. THROTTLE _____ CLOSED
2. FUEL PUMP _____ OFF
3. FUEL VALVE _____ OFF
4. FULL THROTTLE — BURN REMAINING OFF FUEL
5. THROTTLE _____ OFF
6. HEATER/DEFROSTER _____ OFF

MAKE EMERGENCY DESCENT & LANDING

RADIO MAYDAY 121.5 OR TALK TO ATC

IF FIRE IS NOT EXTINGUISHED INCREASE LAND IMMEDIATELY DESCENT WITH MAX ALLOWABLE SPEED

TAKewing: 541-510-7049 / 541-895-5935