

BEFORE START

EXTERIOR PREFLIGHT..... COMPLETE
PAX BRIEFING (S.A.F.E.T.)..... COMPLETE
AVIONICS OFF
CIRCUIT BREAKERS..... CHECKED
FUEL QUANTITY..... CHECKED
MIXTURES..... RICH
PROPS..... FULL FORWARD
THROTTLES..... 1/4 INCH
CARBURETOR HEAT..... OFF
GENERATOR SWITCHES..... ON
LANDING GEAR HANDLE..... NEUTRAL
FUEL..... MAIN TANKS
FUEL CROSSFEED..... OFF
PRIME (If below freezing)..... L/R 3-5x
MASTER SWITCH..... ON
LANDING GEAR LIGHTS..... 3 GREEN
MAGNETOS (4)..... ON
BOOST PUMPS..... ON-CHK FLOW-OFF

START LEFT/RIGHT ENGINE

AREA..... CLEAR
STARTER L/R (Start LEFT first)..... ENGAGE
L/R ENGINE OIL PRESSURE..... CHECKED
THROTTLE..... 1000 RPM
MIXTURES..... LEAN

AFTER START

HYDRAULICS (FLAPS UP)..... CHECK
AVIONICS..... ON
ATIS / ASOS..... OBTAIN
XPDR..... ON/ CODE SET

BEFORE TAXI

FLIGHT INSTRUMENTS..... CHECKED
FLIGHT CONTROLS (BRIEF EXCHANGE)..... CHECKED
BRAKES (BRIEF CONTROL)..... CHECKED
TAXI LIGHT..... ON (WHEN MOVING)

ENGINE RUN UP

FUEL..... MAIN TANKS
MIXTURES..... RICH
L/R THROTTLES..... 1800 RPM
ENGINE GAUGES..... CHECK
L/R MAGNETOS..... CHECK ≤ 125 DROP
L/R PROPS (NO LWR 1500 RPM.)..... CYCLE L/R
CARBURETOR HEAT..... CHECK
L/R GENERATORS..... CHECK

(CONTINUE NEXT COLUMN)

SUCTION..... CHECK 8-10"/>4.25"
THROTTLES..... IDLE
DIRECTIONAL GYRO..... SET

BEFORE TAKEOFF

DOORS/WINDOWS..... LATCHED
FUEL PUMPS..... ON
LANDING LIGHT..... ON
TRIM..... SET
TRANSPONDER..... ALT
FLAPS..... UP
ENGINE FAILURE PLAN..... REVIEW

AFTER TAKEOFF

GEAR..... UP
POWER..... 25"/2500
AIRSPEED..... 100-120 MPH
BOOST PUMPS..... OFF
LANDING LIGHT..... OFF

CRUISE (18-23" / 2300 RPM)

POWER/PROPS..... SET/SYNC
MIXTURES..... AS REQ'D
ENGINE INSTRUMENTS..... CHECK

AUXILIARY TANK PROCEDURES

NOTE: USE AUX TANKS LEVEL FLIGHT ONLY

ALTITUDE..... LEVEL CRUISE
FUEL VALVE..... AUX

When aux tanks exhausted

FUEL VALVE..... MAIN

DESCENT

ATIS / WX..... OBTAIN
APPROACH (Build/Brief/Bug)..... REVIEW
FUEL..... MAIN TANKS
MIXTURE..... AS REQ'D
BOOST PUMPS..... ON
LANDING LIGHT..... ON

APPROACH 100-110 MPH

RADIOS / NAV INSTR..... SET/TIM
1 DOT or 1 NM from FAF
BEFORE LANDING CHKLST..... ACCOMPLISH
FLAPS (IF <100 MPH)..... APP

(CHECKLIST CAO 11 DEC 2020)

BEFORE LANDING (95 mph)

BOOST PUMPS.....ON
FUEL.....MAIN TANKS
LDG GEAR (<125 MPH)..... DN/3 GREEN
MIXTURE.....RICH/ AS REQ'D
PROPELLERS.....FWD
FLAPS (<100 MPH)..... AS REQ'D

GO AROUND

THROTTLES.....25"/2500-2700 RPM
FLAPS.....APP / UP
LANDING GEAR.....UP
AIRSPEED.....100 MPH or BLUE LINE (min)

AFTER LANDING

LANDING LIGHT.....AS REQ'D/OFF
FLAPS.....UP
FUEL PUMPS..... OFF
HEATER FAN..... OFF

SHUTDOWN CHECKLIST

THROTTLES.....1000 RPM
AVIONICS.....OFF
MIXTURES.....CUTOFF
LIGHTS/STROBES.....OFF
MAGS / MASTER..... OFF

(Speeds in MPH)

V _{SO}	56	V _{SI}	62	V _{mc}	72	V _x	75
V _R	80*	V _{XSE}	85*	V _{YSE}	95	V _y	100
V _{FE}	100	V _{CC}	120	V _{LO/LE}	125	V _{NO}	180
V _{NE}	227	*DERIVED SPEEDS/NOT PUBLISHED					

ENGINE FIRE ON GROUND

STARTER.....ENGAGE
MIXTURE.....OFF
THROTTLE.....OPEN
FUEL SELECTOR.....OFF

ABANDON AIRCRAFT IF FIRE PERSIST

INFLIGHT DOOR CLOSING

THROTTLES.....REDUCE
AIRSPEED.....<90 MPH
STORM WINDOW (left of pilot).....OPEN
DOOR.....CLOSE
THROTTLES/AIRSPEED.....RESUME NORM

EMERGENCY GEAR/ FLAP EXTENSION

GEAR/ FLAP HANDLE.....DESIRED POSITION
MANUAL PUMP HANDLE.....EXTEND/PUMP

**NOTE: 30-40 pumps for gear/ 10-12 for flaps
IN THE EVENT OF HYDRAULIC SYSTEM FAILURE
CAUSED BY A LINE BREAK OR SELECTOR VALVE
MALFUNCTION USE THE EMERG CO2 SYSTEM.**

EMER CO2 GEAR EXTENDER:

GEAR HANDLE.....DESIRED POSITION
COVER UNDER PILOT SEAT.....REMOVE/LIFT
GEAR EXTENDER PIN.....PULL

**NOTE: Once the CO2 has been used the gear cannot
be retracted – do not attempt to retract or actuate
hydraulics in any way**

ENG FAILURE AFTER LIFTOFF (COMMITTED)

DIRECTIONAL CONTROL.....MAINTAIN
BANK.....<5 DEG. INTO GOOD ENG
AIRSPEED.....BLUE LINE
MIXTURES/PROPS/THROTTLES.....FORWARD
GEAR AND FLAPS.....UP
IDENTIFY....."DEAD FT, DEAD ENGINE"
VERIFY.....SLOWLY CLOSE THROTTLE
FEATHER.....Left/Right ENGINE
MIXTURE.....IDLE CUTOFF
CLIMB.....STRAIGHT AHEAD
COMPLETE.....SE SECURING CHK LIST >400 AGL

(ZERO thrust 12"/2300 RPM)

SE SECURING CHECKLIST:

MAGS.....OFF
FUEL PUMP.....OFF
FUEL SELECTOR.....OFF
ELECTRICAL LOAD..... CONSIDERED

AIRSTART

FUEL SELECTOR..... MAIN TANK
MIXTURE..... RICH
MAGNETOS..... ON
ENGINE PROP.....SET TO CRUISE SETTING
THROTTLE.....1/8th OPEN
STARTER..... ENGAGE
CARBURETOR HEAT.....ON (oil temp rise)
CARBURETOR HEAT..... OFF (oil temp normal)
CHT / EGT.....MONITOR
ENGINES.....SYNC

CROSSFEED CHECKLIST

CROSSFEED VALVE..... ON
FUEL SELECTOR INOP ENGINE..... ON
BOOST PUMP INOP ENGINE..... ON
OPER ENG FUEL SELECTOR VALVE..... OFF

Once fuel exhausted from INOP ENG

OPER ENG FUEL SELECTOR..... MAIN
CROSSFEED VALVE..... OFF
BOOST PUMP INOP ENGINE..... OFF
FUEL SELECTOR INOP ENGINE.....OFF