



**BEEHCRAFT BE-76
BEEHCRAFT DUCHESS
NORMAL CHECKLIST**

PREFLIGHT: CABIN

- REGISTRATION/AIRWORTHINESS CERTIFICATECHECK
- POH..... ACCESSIBLE TO PILOT
- WEIGHT AND BALANCECHECK/COMPLETE
- HOBBS & TACH RECORD
- EMERGENCY GEAR EXTENSION TOOL STOWED
- ALTERNATE STATIC OFF
- CONTROL WHEEL LOCK REMOVE
- MAGS..... OFF
- FLIGHT CONTROLS FREE/ CORRECT
- STROBES..... ON
- GEAR..... DOWN
- LOW VACUUM ANNUNCIATORS.....ON
- THROTTLES..... IDLE
- PROPSFULL FORWARD
- MIXTURES LEAN
- CARB HEAT OFF
- COWL FLAPS OPEN
- FUEL SELECTOR..... BOTH
- TRIM RUDDER/AILERON/ELEVATOR..... T/O
- FIRE EXTIGUISHER..... SECURE
- MASTER ON
- GEAR LIGHTS3 GREEN
- FLAPS DOWN
- FUEL GUAGESCHECK
- LIGHTS..... ON
- 360 WALKAROUND..... COMPLETE
- MASTER OFF

EMPENAGE

WINDOWS.....	CLEAN
BAGGAGE DOOR.....	CLOSED
CABIN AIR OUTLET.....	INSPECT
COM 1/2.....	ANTENNA
STATIC PORT.....	INSPECT
CABIN AIR INLET.....	INSPECT
RUDDER/ VERTICAL STAB.....	INSPECT
TRIM TAB.....	INSPECT
ELAVATOR/ HORIZONTAL STABILIZER.....	INSPECT
LIGHTS.....	INSPECT
TAIL & TIEDOWN & HOOK.....	REMOVED
VOR ANTENNA (2).....	INSPECT
ELT ANTENNA.....	INSPECT
STATIC PORT.....	INSPECT
WINDOWS.....	CLEAN

RIGHT WING

FLAP.....	INSPECT
AILERON.....	INSPECT
WINGTIP.....	INSPECT
LIGHTS.....	INSPECT
TAXI LIGHT.....	INSPECT
STALL VAIN.....	INSPECT
LEADING EDGE/ TOP OF WING.....	INSPECT
FUEL QUANTITY.....	CHECK
FUEL FILLER CAP.....	SECURE
STALL STRIP.....	INSPECT
WING TANK SUMP (1).....	DRAIN
TIEDOWN.....	REMOVED
FUEL VENT.....	INSPECT
ENGINE SUMP (1).....	DRAIN
COWL FLAP.....	INSPECT
OIL QUANTITY.....	CHECK/6+ QUARTS
PROP/SPINNER.....	INSPECT
MAIN GEAR/WHEEL WELL.....	INSPECT
BRAKES.....	INSPECT
TIRE (ROLL BACK).....	INSPECT
CROSSFEED SUMPS (2).....	DRAIN

NOSE

HEATER EXHAUST	INSPECT
NOSE STRUT	INSPECT
WHEEL WELL.....	INSPECT
GEAR DOORS	INSPECT
TIRE (ROLL BACK).....	INSPECT
HEATER INTAKE	INSPECT
WINDSCREEN.....	INSPECT

LEFT WING

CROSSFEED SUMPS (2).....	DRAIN
MAIN GEAR/WHEEL WELL.....	INSPECT
BRAKES	INSPECT
TIRE (ROLL BACK).....	INSPECT
OIL QUANTITY	CHECK/6+ QUARTS
PROP/SPINNER.....	INSPECT
ENGINE SUMP (1).....	DRAIN
COWL FLAP.....	INSPECT
WING TANK SUMP (1).....	DRAIN
FUEL VENT.....	INSPECT
TIEDOWN	REMOVED
LEADING EDGE/ TOP OF WING	INSPECT
STALL STRIP	INSPECT
FUEL QUANTITY	CHECK
FUEL FILLER CAP.....	SECURE
STALL VAIN.....	INSPECT
TAXI/LANDING LIGHT.....	INSPECT
PITOT TUBE	INSPECT
LIGHTS.....	INSPECT
WINGTIP.....	INSPECT
AILERON	INSPECT
FLAP	INSPECT

ENGINE START

PREFLIGHT	COMPLETE
PASSENGER/CREW BRIEFING	COMPLETE
SEATBELTS	ON
SEATS	SET/LOCKED
MASTER	ON
FUEL PUMPS	ON
THROTTLES	¼ INCH
PROPS	FULL FORWARD
MIXTURES	FULL FORWARD
CIRCUIT BREAKERS	IN
FUEL PRESSURE	CHECK
LEFT ENGINE MAGS	IN/ START
LEFT ENGINE THROTTLE	1000 RPM
LEFT ENGINE INSTRUMENTS	CHECK
LEFT ENGINE ALTERNATOR	ON
LEFT FUEL PUMP	OFF
LEFT FUEL PRESSURE	CHECK
LEFT MIXTURE	LEAN
LEFT FUEL SELECTOR	CROSS-FEED
RIGHT ENGINE MAGS	IN/ START
RIGHT ENGINE THROTTLE	1000 RPM
RIGHT ENGINE INSTRUMENTS	CHECK
RIGHT ENGINE ALTERNATOR	ON
RIGHT FUEL PUMP	OFF
RIGHT FUEL PRESSURE	CHECK
RIGHT MIXTURE	LEAN
RIGHT FUEL SELECTOR	CROSS-FEED
CHECKLIST	COMPLETE

TAXI

AVIONICS ON
TRANSPONDER STANDBY
RADIOS.....SET AND CHECKED
ATIS..... COPY
CLEARANCEOBTAIN
LIGHTS..... AS REQUIRED
FLIGHT INSTRUMENTS CHECK
INSTRUMENT/ICC COMPLETE
FLAPS UP
TAXI AREA CLEAR
BRAKES AND STEERINGCHECK
CHECKLIST COMPLETE

RUN UP

BRAKES APPLY AND HOLD
DOORS CLOSED AND LATCHED
FLIGHT CONTROLSFREE AND CORRECT
MIXTUREFULL FORWARD
PROPSFULL FORWARD
THROTTLES 1500 RPM
PROPSEXERCISE 3 TIMES
THROTTLES 2200 RPM
MAGSCHECK
VAC GUAGECHECK
GOVENOR.....CHECK
PROPSFULL FORWARD
ENGINE GUAGES AND AMMETERCHECK
CARB HEAT ON
THROTTLE..... IDLE
CARB HEAT OFF
THROTTLE..... 1000 RPM
MIXTURELEANED
FUEL SELECTOR ON POSITION
CHECKLIST COMPLETE

TAKEOFF

PRE T/O BRIEF COMPLETE
SEATBELTS..... VERIFY ON
WINDOWS/DOORS CLOSED AND LATCHED
FLAPS UP
FUEL SELECTOR ON
TRIM SET FOR TAKEOFF
COMMS, NAVS, FLIGHT INSTRUMENTS..... SET
T/O CLEARNACE.....OBTAIN
LIGHTS.....ON
FUEL PUMPS..... ON
MIXTURE FULL RICH
TRANSPONDER ALT
THROTTLE.....FULL
71 KIAS.....ROTATE
POSITIVE RATE/NO RUNWAY REMAINING GEAR UP
CLIMB OUT 85 KIAS
500 FEET 25"/2500 RPM
CHECKLIST COMPLETE

CLIMB 1000 FT

AIRSPEED 100 KIAS
LIGHTS..... AS REQUIRED
FUEL PUMPS..... OFF
FUEL PRESSURE..... VERIFY
GEAR..... UP
CLIMB POWER SET
MIXTURE LEAN
FLAPS UP
ENGINE GUAGES CHECK
ENGINE INSTRUMENTS CHECK
CHECKLIST COMPLETE

CRUISE

LIGHTS..... AS REQUIRED
POWER..... SET
MIXTURE..... LEAN
COWL FLAPS..... AS REQUIRED
HEADING INDICATOR/ COMPASS.....CHECKED
CHECKLIST..... COMPLETE

BEFORE LANDING/DESCENT

SEAT BELTS..... ON
APPROACH BRIEF..... COMPLETE
ATIS.....OBTAIN
LIGHTS..... ON
FUEL PUMPS..... ON
THROTTLE..... AS REQUIRED
MIXTURE..... RICH
CARB HEAT..... AS REQUIRED
COWL FLAPS..... AS REQUIRED
FUEL SELECTORS..... ON
CHECKLIST..... COMPLETE

DOWNWIND, 1000', FAF, OR COURSE INTERCEPT

FUEL SELECTOR..... ON
GEAR..... DOWN
MIXTURES.....RICH
PROP..... FULL FORWARD ON FINAL
GUMP CHECK..... COMPLETE 3 TIMES
CHECKLIST..... COMPLETE

AFTER LANDING

LIGHTS..... AS REQUIRED
FUEL PUMPS..... OFF
THROTTLE..... 1000
MIXTURE..... LEAN
FLAPS..... UP
TRANSPONDER..... STANDBY
TRIM.....SET FOR TAKEOFF
CHECKLIST..... COMPLETE

SHUTDOWN

RAMP IN (122.9) COMPLETE
AVIONICS OFF
THROTTLE..... 1000
LEFT ENGINE MIXTURE..... OFF
LEFT ENGINE ALTERNATOR..... OFF
LEFT ENGINE MAGS OFF
RIGHT ENGINE MIXTURE..... OFF
RIGHT ENGINE ALTERNATOR..... OFF
RIGHT ENGINE MAGS..... OFF
THROTTLES..... IDLE
CHECKLIST COMPLETE

SECURE

CONTROL LOCK..... SET
HOBBS/TACH RECORDED
CLEAN COCKPIT VERIFIED
DOORS SHUT/LOCKED
TIED DOWN 3-POINT
360 WALK AROUND COMPLETE
CHECKLIST COMPLETE



**BEECHCRAFT BE-76
BEECHCRAFT DUCHESS
EMERGENCY/ABNORMAL
CHECKLISTS**

ENGINE FAILURE IN FLIGHT

DIRECTIONAL CONTROL / 85 KIAS DONE
 MIXTURE FULL
 PROPS FULL
 THROTTLES FULL
 FLAPS UP
 GEAR UP
 IDENTIFY DEAD FOOT DEAD ENGINE
 VERIFY THROTTLE CLOSE
 DECIDE TROUBLESHOOT OR FEATHER

TROUBLESHOOTING CHECKLIST

ALTERNATOR INOP ENGINE ON
 MASTER ON
 MAGNETO INOP ENGINE BOTH
 FUEL PUMP ON
 THROTTLES CHECK
 PROP INOP ENGINE CHECK
 MIXTURE INOP ENGINE CHECK
 CIRCUIT BREAKERS CHECK
 CARB HEAT INOP ENGINE ON
 FUEL SELECTOR ON
 CHECKLIST COMPLETE

SECURING CHECKLIST

PROP INOP ENGINE..... FEATHER
ALTERNATOR INOP ENGINE..... OFF
MAGNETO INOP ENGINE..... OFF
PUMP INOP ENGINE..... OFF
GEAR..... UP
THROTTLE INOP ENGINE CLOSED
MIXTURE INOP ENGINE..... IDLE CUTOFF
FLAPS UP
CIRCUIT BREAKERS.....CHECK
ENGINE INSTRUMENTSCHECK
CARB HEAT INOP ENGINE..... ON
COWL FLAP INOP ENGINE..... CLOSED
FUEL SELECTOR INOP ENGINE..... OFF
CHECKLIST COMPLETE

AIR START

MASTER ON
MAGNETO INOP ENGINE..... BOTH
FUEL PUMP..... ON
THROTTLE INOP ENGINE ¼ INCH
MIXTURE FULL
CARB HEAT ON
FUEL SELECTOR ON
PROP INOP ENGINE..... FULL
AIRSPEED 100 KTS
CHECKLIST COMPLETE

START ASSIST:

STARTER ENGAGE DONE
AIR START..... COMPLETE
POST FLOW COMPLETE

ENGINE FAILURE BEFORE Vr

THROTTLES IDLE
BRAKES APPLY
WING FLAPS RETRACT
MIXTURE IDLE CUTOFF
IGNITION SWITCH OFF
MASTER SWITCH..... OFF

ENGINE FAILURE AFTER Vr RWY REMAINING

AIRSPEED 85 KIAS
GEAR DOWN
MIXTURE IDLE CUT-OFF
MAGS OFF
FUEL SELECTOR OFF
FLAPS AS REQUIRED
EMERGENCY DECLARE
MASTER SWITCH..... OFF
CABIN DOOR..... UNLATCH
LAND STRAIGHT AHEAD
BRAKES APPLY HEAVILY

EMERGENCY LANDING WITH ONE ENGINE INOP

PASSENGER SEAT BACKS UP
SEATS AND SEAT BELTS SECURE
AIRSPEED 90 KIAS
INOPERATIVE ENGINE SECURED
FLAPS AS REQ (30 RECOMMENDED)
AVIONICS MASTER SWITCH AND ELECTRICAL..... OFF
MASTER OFF
DOORS UNLATCH
TOUCHDOWN SLIGHTLY TAIL LOW
BRAKES APPLY HEAVILY

EMERGENCY LANDING WITH ENGINE POWER

PASSENGER SEAT BACKS UP
SEATS AND SEAT BELTS SECURE
AIRSPEED 85 KIAS
GEAR DOWN
FLAPS AS REQUIRED
SELECTED FIELD FLY OVER
AVIONICS MASTER SWITCH AND ELECTRICAL..... OFF
MASTER SWITCH..... OFF
DOORS UNLATCHED PRIOR TO TOUCHDOWN
TOUCHDOWN SLIGHTLY TAIL LOW
BRAKES APPLY HEAVILY

DITCHING

RADIO TRANSMIT MAYDAY ON 121.5 MHZ
TRANSPONDER 7700
HEAVY OBJECTS SECURE/JETTISON
SEAT BACKS UP
SEATS AND SEAT BELTS SECURE
GEAR UP
FLAPS FULL
POWER..... ESTABLISH 300FT/MIN DECENT AT 85 KIAS
HIGH WINDS/HEAVY SEAS..... INTO WIND
LIGHT WINDS/HEAVY SWELLS PARALLEL TO SWELLS
CABIN DOORS..... UNLATCH
TOUCHDOWN LEVEL ATTITUDE
FACE..... CUSHION AT TOUCHDOWN
ELT ACTIVATE
AIRPLANE EVACUATE
LIFE RAFTS AND VESTS INFLATE WHEN CLEAR OF A/C

ENGINE FIRE DURING START ON GROUND

MIXTURES IDLE CUTOFF
MAGS/STARTER..... CONTINUE CRANKING
FUEL SELECTORS OFF
BATTERY/ ALTERNATORS OFF
FIRE EXTINGUISHER (IF AVAILABLE) OBTAIN AND PUT OUT FIRE

ENGINE FIRE DURING FLIGHT

FUEL SELECTOR OFF
MIXTURE IDLE CUTOFF
PROP FEATHER
AUX FUEL PUMP OFF
MAGNETO SWITCH OFF
ALTERNATOR SWITCH OFF

ELECTRICAL FIRE IN FLIGHT

GEAR DOWN
MASTER SWITCH OFF
VENTS, CABIN AIR, HEAT CLOSED
FIRE EXTINGUISHER ACTIVATE
AVIONICS MASTER SWITCH OFF
ALL OTHER SWITCHES (EXCEPT IGNITION) OFF
FIRE EXTINGUISHED OPEN VENTS
MASTER SWITCH ON
CIRCUIT BREAKERS CHECK DO NOT RESET
RADIO SWITCHES OFF
AVIONICS MASTER SWITCH ON
RADIO/ELECTRICAL SWITCHES ON, ONE AT A TIME

CABIN FIRE

GEAR DOWN
MASTER SWITCH OFF
VENTS/CABIN AIR/HEAT CLOSED
FIRE EXTINGUISHER ACTIVATE
FIRE EXTINGUISHED OPEN VENTS
LAND AS SOON AS POSSIBLE

WING FIRE

LANDING/TAXI LIGHT SWITCHES OFF
NAV LIGHTS OFF
STROBE LIGHTS OFF
PITOT HEAT OFF
AIRSPEED INCREASE
LAND ASAP

AMMETER EXCESSIVE

ALTERNATOR OFF
ALTERNATOR CB PULL OUT
ELECTRICAL LOAD REDUCE
LAND ASAP

LOW VOLTAGE

AVIONICS OFF
ALTERNATOR BREAKER IN
MASTER RECYCLE
LOW VOLTAGE LIGHT CHECK

IF LIGHT COMES BACK ON:

ALTERNATOR OFF
ELECTRICAL LOAD REDUCE
LAND ASAP

INADVERTENT ICING ENCOUNTER

PITOT HEAT ON
TURN BACK OR CHANGE ALTITUDE
DEFROSTER ON
THROTTLE FULL
CARB HEAT ON
BEST PRACTICAL LANDING SITE IDENTIFIED
FLAPS UP
WINDSHIELD CLEAN
AIRSPEED 90 KIAS
LAND LEVEL ATTITUDE

LANDING GEAR FAILS TO RETRACT

MASTER SWITCH ON
LANDING GEAR LEVER UP
LANDING AND GEAR PUMP CIRCUIT BREAKERS IN
GEAR UP LIGHT CHECK
LANDING GEAR LEVER RECYCLE
GEAR MOTOR CHECK OPERATION
LAND ASAP

LANDING GEAR MANUAL EXTENSION

MASTER SWITCH..... ON
LANDING GEAR LEVER..... DOWN
LANDING AND GEAR PUMP CIRCUIT BREAKERS OFF
AIRSPEED 100 KIAS MAXIMUM
EMERGENCY EXTENSION VALVE OPEN
(USE EMERGENCY GEAR EXTENSION TOOL AND TURN 90° COUNTER
CLOCKWISE)
GEAR DOWN LIGHTS ON

GEAR UP LANDING

LANDING GEAR LEVER..... UP
LANDING AND GEAR PUMP CIRCUIT BREAKERS IN
RUNWAY SELECT
COWL FLAPS CLOSED
FLAPS 30
AIRSPEED 85 KIAS
DOORS UNLATCH
AVIONICS OFF
MASTER OFF
TOUCHDOWN.....SIGHTLY TAIL LOW
MIXTURE IDLE CUTOFF
MAGS..... OFF
FUEL SELECTOR OFF
AIRPLANE EVACUATE

LANDING W/O INDICATION OF GEAR LOCKING

BEFORE LANDING CHECK..... COMPLETE
APPROACH NORMAL
LANDING AND GEAR PUMP CIRCUIT BREAKERS IN
TOUCHDOWN.....SIGHTLY TAIL LOW
BRAKING MINIMUM
TAXI SLOWLY
GEAR..... INSPECT AFTER SHUTDOWN

V SPEEDS

V _{MCA}	65
V _{SSE}	71
V _{XSSSE}	85
V _{YSSE}	85
ONE ENGINE ENROUTE CLIMB	85
MAX GLIDE BOTH ENGINES INOP.....	95
V _A	132
V _F	110
V _{FE}	110
V _{LE}	140
V _{LO}	EXTENSION 140
.....	RETRACTION 112
V _{NO}	154
V _{NE}	194

**THIS CHECKLIST IS NOT A SUBSTITUTE FOR THE AIRCRAFT'S PILOT
OPERATING HANDBOOK.**