

PA-28-181 ARCHER III: NORMAL CHECKLIST

BEFORE START

PREFLIGHT INSPECTION -COMPLETE
AIRWORTHINESS REQUIREMENTS -MET
HOBBS TIME -RECORDED
CHOCKS / TIEDOWNS / PROPELLER LOCK / PITOT COVER -REMOVED
SAFETY BELTS -FASTENED
SEATS -LOCKED
PASSENGER SAFETY BRIEFING -REVIEWED (Safety Belt Use, Door Use, Emergencies)
ALL ELECTRICAL EQUIPMENT -OFF
CIRCUIT BREAKERS -IN
PANEL LIGHT SELECTOR -"DAY" OR "NIGHT" AS NECESSARY
ELT -ARMED
ALTERNATE STATIC SOURCE -OFF

ENGINE START

PARKING BRAKE -ON
FUEL SELECTOR -ON FULLER TANK
CARBURETOR HEAT -OFF
MIXTURE -FULL RICH
THROTTLE -OPEN 1/4 INCH (1/2 INCH IF ENGINE IS HOT)
MASTER SWITCH -ON
ALTERNATOR SWITCH -ON
STANDBY ALTERNATOR SWITCH -ON
LEFT MAGNETO -ON
FIN STROBE LIGHT -ON
FUEL PUMP -ON
PRIME -AS REQUIRED (NONE IF ENGINE IS HOT)
AREA -CLEAR
STARTER -ENGAGE
ENGINE -1000 RPM
MIXTURE -LEANED FOR TAXI
RIGHT MAGNETO -ON
FUEL PUMP -OFF
DATABASE CURRENCY -CONFIRM ON MFD
FUEL QUANTITY -SET ON MFD
OIL PRESSURE -IN NORMAL RANGE
AMMETER -VERIFY ELECTRICAL LOAD
EXTERIOR & INTERIOR LIGHTS -AS REQUIRED
RADIO MASTER SWITCH -ON
AUTOPILOT / FD MASTER SWITCH -ON
TRANSPONDER CODE -SET TO 1200

TAXI

FLIGHT INSTRUMENTS -VERIFY PROPER OPERATION

RUNUP

PARKING BRAKE -ON AND BRAKES HELD
FLIGHT CONTROLS -VERIFY FULL TRAVEL & CORRECT DEFLECTIONS
AIR CONDITIONER -OFF
MIXTURE -FULL RICH
MFD -ON "ENGINE" PAGE
ENGINE -2000 RPM (Verify No Aircraft Movement)
1. MAGNETO CHECK: MAX DROP: 175 RPM; MAX DIFFERENTIAL: 50 RPM
2. CARBURETOR HEAT -CHECK, THEN OFF
3. ALTERNATOR -CHECK
4. ENGINE GAUGES -IN NORMAL RANGE
ENGINE -IDLE CHECK, THEN 1000 RPM
PFD FLIGHT INSTRUMENTS -CHECKED AND SET
STANDBY FLIGHT INSTRUMENTS -CHECKED AND SET
CLOCK / WATCH -SET
NAVIGATION EQUIPMENT -SET
TRANSPONDER CODE -SET
ANNUNCIATOR PANEL -TEST
CARBURETOR ICE DETECTION -ON AND SET
ELECTRIC PITCH TRIM -ON AND TEST
STABILATOR & RUDDER TRIM -EXERCISE, THEN SET FOR TAKEOFF
AUTOPILOT -PERFORM DISENGAGE TESTS, THEN SWITCH OFF (SEE SUPPLEMENT)
FLAPS -CYCLE, THEN SET AS REQUIRED
DOOR & WINDOW -CLOSED AND LATCHED
TAKEOFF BRIEFING -REVIEWED (Airspeeds, Takeoff Distance, Departure Procedure, Emergencies)
OIL TEMPERATURE -IN NORMAL RANGE BEFORE TAKEOFF
RADIO -ON PROPER FREQUENCY

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TAKEOFF

FUEL PUMP -ON
LANDING LIGHT -ON
STROBE LIGHTS -ON
TIME -COPY DOWN

CRUISE

POWER -SET
MIXTURE -LEANED (BEST POWER OR BEST ECONOMY)
FUEL PUMP -OFF
LANDING LIGHT -OFF
FUEL -BALANCE TANKS (Fuel Pump **ON** When Switching Tanks)

BEFORE LANDING

ALTIMETER -SET
FUEL PUMP -ON
FUEL SELECTOR -ON FULLER TANK
LANDING LIGHT -ON
MIXTURE -FULL RICH
CARBURETOR HEAT -CHECK, THEN OFF
AIR CONDITIONER -OFF
SAFETY BELTS -FASTENED

AFTER LANDING

RADIO -ON PROPER FREQUENCY
FUEL PUMP -OFF
MIXTURE -LEANED FOR TAXI
LANDING LIGHT -OFF (daytime)
FLAPS -0°

SHUT DOWN

PARKING BRAKE -ON
ENGINE -1000 RPM
ELECTRICAL EQUIPMENT -OFF
RADIO MASTER SWITCH -OFF
AIR CONDITIONER -OFF
EXTERIOR & INTERIOR LIGHTS -OFF
MIXTURE -IDLE CUT-OFF
MAGNETOS -BOTH OFF
STANDBY ALTERNATOR SWITCH -OFF
ALTERNATOR SWITCH -OFF
MASTER SWITCH -OFF

PARKING & SECURING

FLIGHT CONTROLS -SECURE
CHOCKS -IN PLACE
TIEDOWNS -SECURE
PITOT COVER -ON
PROPELLER LOCK -SECURE

COMMUNICATIONS (KBVY)

TOWER PHONE: 978-922-0657	ATIS / ASOS: 119.2
BFC PHONE: 978-774-7755	GROUND: 121.6
ASOS PHONE: 978-921-5042	TOWER / CTAF: 125.2
BFC / NORTH ATLANTIC AIR: 123.30	AIR-TO-AIR: 122.75
FLIGHT WATCH: 122.0	FLIGHT SERVICE: 122.2

AIRSPEEDS

V_R - 60 KIAS
(55 KIAS @ 25° FLAPS)
V_X BEST ANGLE - 64 KIAS
(60 KIAS @ 25° FLAPS)
V_Y BEST RATE - 76 KIAS
ENROUTE CLIMB - 87 KIAS

V_A - 113 KIAS @ 2550 LBS. GROSS
89 KIAS @ 1634 LBS. GROSS
BEST GLIDE - 76 KIAS
CLOSE DOOR - 87 KIAS OR BELOW
APPROACH @ 40° FLAPS - 66 KIAS
MAXIMUM CROSSWIND - 17 KIAS

▶▶▶ TURN OVER FOR TAKEOFF ▶▶▶ TURN OVER FOR TAKEOFF ▶▶▶