September 2020

**PA-28-181 ARCHER II: NORMAL CHECKLIST**

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# BEFORE START

PREFLIGHT INSPECTION –COMPLETE

AIRWORTHINESS REQUIREMENTS –MET

HOBBS TIME –RECORDED

CHOCKS / TIEDOWNS / PROPELLER LOCK / PITOT COVER -REMOVED

LAP BELTS & SHOULDER HARNESSES –FASTENED

SEATS –LOCKED

PASSENGER SAFETY BRIEFING –REVIEWED

ELECTRICAL EQUIPMENT –OFF

AVIONICS MASTER SWITCH & NAVIGATION EQUIPMENT –OFF

CIRCUIT BREAKERS –IN

ELT –ARMED

ALTERNATE STATIC SOURCE –OFF

ENGINE START

PARKING BRAKE –ON

FUEL SELECTOR -ON

CARBURETOR HEAT –OFF

MIXTURE –FULL RICH

THROTTLE –OPEN 1/4 INCH **(1/2 INCH IF ENGINE IS HOT)**

KEY –IN IGNITION

MASTER SWITCH -ON

BEACON –ON

FUEL PUMP –ON & CHECK FUEL PRESSURE

PRIME -AS REQUIRED, THEN LOCKED **(NONE IF ENGINE IS HOT)**

AREA –CLEAR

STARTER –ENGAGE

ENGINE –1000 RPM

MIXTURE -LEANED FOR TAXI

FUEL PUMP –OFF & CHECK FUEL PRESSURE

OIL PRESSURE –IN NORMAL RANGE

AMMETER –VERIFY ELECTRICAL LOAD

AUXILIARY VACUUM –CHECK, THEN OFF (If Installed In Aircraft)

SUCTION –CHECK

EXTERIOR & INTERIOR LIGHTS -AS REQUIRED

AVIONICS MASTER SWITCH –ON

TRANSPONDER ON – CODE SET and ALT ON (Altitude Reporting Mode)

# TAXI

FLIGHT INSTRUMENTS –VERIFY PROPER OPERATION

RUNUP

PARKING BRAKE -ON AND BRAKES HELD

FLIGHT CONTROLS –VERIFY FULL TRAVEL & CORRECT DEFLECTIONS

FUEL SELECTOR – SWITCH TO OTHER TANK

MIXTURE –FULL RICH

ENGINE -2000 RPM (Verify No Aircraft Movement)

1. MAGNETO CHECK -MAXIMUM DROP: 175 RPM / MAXIMUM DIFFERENTIAL: 50 RPM

2. CARBURETOR HEAT -CHECK, THEN OFF

3. ALTERNATOR –CHECK

4. SUCTION - 4.8 TO 5.1 INCHES HG

5. ENGINE GAUGES -IN NORMAL RANGE

ENGINE –IDLE CHECK, THEN 1000 RPM

FLIGHT INSTRUMENTS -CHECKED AND SET

CLOCK / WATCH -SET

NAVIGATION EQUIPMENT –ON AS REQUIRED AND SET

ANNUNCIATOR PANEL –TEST

ELECTRIC PITCH TRIM –ON AND TEST (If Installed In Aircraft)

STABILATOR & RUDDER TRIM –EXERCISE, THEN SET FOR TAKEOFF

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

FUEL SELECTOR -ON FULLER TANK

RADIO -ON PROPER FREQUENCY

**►►► TURN OVER FOR TAKEOFF ►►► TURN OVER FOR TAKEOFF ►►►**

TAKEOFF

FUEL PUMP –ON

LANDING LIGHT –ON

STROBE LIGHTS –ON

VERIFY TRANSPONDER CODE and ALT ON (Altitude Reporting Mode)

TIME –COPY DOWN

HEADING INDICATOR –SET TO RUNWAY HEADING

**CRUISE**

POWER –SET

MIXTURE –LEANED (BEST POWER OR BEST ECONOMY)

FUEL PUMP –OFF & CHECK FUEL PRESSURE

LANDING LIGHT –OFF

HEADING INDICATOR –ADJUST

ATTITUDE INDICATOR –ADJUST

FUEL –BALANCE TANKS (Fuel Pump **ON** When Switching Tanks)

**BEFORE LANDING**

ALTIMETER –SET

FUEL PUMP –ON

FUEL SELECTOR -ON FULLER TANK

MAGNETOS –ON “BOTH”

PRIMER –LOCKED

MIXTURE –FULL RICH

LANDING LIGHT –ON

CARBURETOR HEAT -CHECK, THEN OFF

LAP BELTS & SHOULDER HARNESSES –FASTENED

AFTER LANDING

RADIO -ON PROPER FREQUENCY

FUEL PUMP –OFF & CHECK FUEL PRESSURE

MIXTURE -LEANED FOR TAXI

LANDING LIGHT -OFF (Daytime)

FLAPS –0°

SHUT DOWN

PARKING BRAKE –ON

AVIONICS MASTER –OFF

ENGINE THROTTLE – IDLE

MIXTURE -IDLE CUT-OFF

IGNITION –OFF AND KEY REMOVED

BEACON LEFT ON

OTHER EXTERIOR & INTERIOR LIGHTS –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

ASOS PHONE: 978-921-5042 GROUND: 121.6

BFC PHONE: 978-774-7755 TOWER / CTAF: 125.2

BFC / NORTH ATLANTIC AIR: 129.725 AIR-TO-AIR: 122.75

FLIGHT SERVICE: 122.2

AIRSPEEDS

VR - 60 KIAS VA - 113 KIAS @ 2550 LBS. GROSS

(55 KIAS @ 25° FLAPS) 89 KIAS @ 1634 LBS. GROSS

VX BEST ANGLE - 64 KIAS BEST GLIDE - 76 KIAS

(60 KIAS @ 25º FLAPS) CLOSE DOOR - 87 KIAS OR BELOW

VY BEST RATE - 76 KIAS APPROACH @ 40º FLAPS - 66 KIAS

ENROUTE CLIMB - 87 KIAS MAXIMUM CROSSWIND - 17 KTS