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