

## 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<sub>R</sub> - 60 KIAS  
(55 KIAS @ 25° FLAPS)  
V<sub>X</sub> BEST ANGLE - 64 KIAS  
(60 KIAS @ 25° FLAPS)  
V<sub>Y</sub> BEST RATE - 76 KIAS  
ENROUTE CLIMB - 87 KIAS

V<sub>A</sub> - 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 ▶▶▶