

PA-28R-201 ARROW III: NORMAL CHECKLIST

BEFORE START

PREFLIGHT INSPECTION -COMPLETE
AIRWORTHINESS REQUIREMENTS -MET
HOBBS TIME -RECORDED
CHOCKS / TIEDOWNS / PROPELLER LOCK / PITOT COVER -REMOVED
LAP BELTS & SHOULDER HARNESSSES -FASTENED
SEATS -LOCKED
PASSENGER SAFETY BRIEFING -REVIEWED (Safety Belt Use, Door Use, Emergencies)
ELECTRICAL EQUIPMENT -OFF
RADIOS & NAVIGATION EQUIPMENT -OFF
TRANSPONDER -OFF AND SET TO 1200
CIRCUIT BREAKERS -IN
ELT -ARMED
ALTERNATE STATIC SOURCE -OFF

ENGINE START

PARKING BRAKE -ON
FUEL SELECTOR -ON FULLER TANK
LANDING GEAR SELECTOR -IN DOWN POSITION
ALTERNATE AIR -OFF
PROPELLER -RPM FULL INCREASE
THROTTLE -OPEN 1/2 INCH
KEY -IN IGNITION
MASTER SWITCH -ON
BEACON -ON
FUEL PUMP -ON & CHECK FUEL PRESSURE
MIXTURE -FULL RICH TO PRIME, THEN IDLE CUTOFF (NONE IF ENGINE IS HOT)
AREA -CLEAR
STARTER -ENGAGE
MIXTURE -ADVANCE TO FULL RICH WHEN ENGINE STARTS
ENGINE -1000 RPM
MIXTURE -LEANED FOR TAXI
FUEL PUMP -OFF & CHECK FUEL PRESSURE
OIL PRESSURE -IN NORMAL RANGE
AMMETER -VERIFY ELECTRICAL LOAD
SUCTION -CHECK
EXTERIOR & INTERIOR LIGHTS -AS REQUIRED
RADIOS -ON
TRANSPONDER -STANDBY

TAXI

FLIGHT INSTRUMENTS -VERIFY PROPER OPERATION

RUNUP

PARKING BRAKE -ON AND BRAKES HELD
FLIGHT CONTROLS -VERIFY FULL TRAVEL & CORRECT DEFLECTIONS
MIXTURE -FULL RICH
ENGINE -2000 RPM (Verify No Aircraft Movement)
1. MAGNETO CHECK: MAX. DROP -175 RPM; MAX. DIFFERENTIAL -50 RPM
2. ALTERNATE AIR -CHECK, THEN OFF
3. ALTERNATOR -CHECK
4. SUCTION -4.8 TO 5.1 INCHES HG
5. ENGINE GAUGES -IN NORMAL RANGE
6. PROPELLER -EXERCISE (500 RPM reduction maximum)
7. GOVERNOR -CHECK, THEN RPM FULL INCREASE (200 RPM reduction maximum)
ENGINE -IDLE CHECK, THEN 1000 RPM
FLIGHT INSTRUMENTS -CHECKED AND SET
CLOCK / WATCH -SET
NAVIGATION EQUIPMENT -ON AS REQUIRED AND SET
TRANSPONDER CODE -SET
ANNUNCIATOR PANEL -TEST
ELECTRIC PITCH TRIM -ON AND TEST
STABILATOR & RUDDER TRIM -EXERCISE, THEN SET FOR TAKEOFF
FLAPS -CYCLE, THEN SET AS REQUIRED
LANDING GEAR AUTO-EXTEND OVERRIDE -AS REQUIRED
DOOR & WINDOW -CLOSED AND LATCHED
TAKEOFF BRIEFING -REVIEWED (Airspeeds, Takeoff Distance, Departure Procedure, Emergencies)
OIL TEMPERATURE -IN NORMAL RANGE BEFORE TAKEOFF

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

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TAKEOFF

FUEL PUMP -ON
LANDING LIGHT -ON
STROBE LIGHTS -ON
TRANSPONDER -TEST, THEN ALTITUDE MODE
TIME -COPY DOWN
HEADING INDICATOR -SET TO RUNWAY HEADING

INITIAL CLIMB

ABOVE 500 FT AGL: 25" MANIFOLD PRESSURE / 2500 RPM

CRUISE

POWER -SET
MIXTURE -LEANED (BEST POWER OR BEST ECONOMY)
FUEL PUMP -OFF & CHECK FUEL PRESSURE
LANDING LIGHT -OFF
LANDING GEAR AUTO-EXTEND OVERRIDE -DISENGAGED
HEADING INDICATOR & 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"
LANDING GEAR AUTO-EXTEND OVERRIDE -DISENGAGED
LANDING GEAR -DOWN AND LOCKED
PROPELLER -RPM FULL INCREASE
MIXTURE -FULL RICH
FUEL PUMP -ON
LANDING LIGHT -ON
ALTERNATE AIR -CHECK, THEN OFF
LAP BELTS & SHOULDER HARNESSSES -FASTENED

AFTER LANDING

RADIO -ON PROPER FREQUENCY
FUEL PUMP -OFF & CHECK FUEL PRESSURE
MIXTURE -LEANED FOR TAXI
TRANSPONDER -OFF AND SET TO 1200
LANDING LIGHT -OFF (daytime)
FLAPS -0°

SHUT DOWN

PARKING BRAKE -ON
NAVIGATION EQUIPMENT -OFF
RADIOS -OFF
ENGINE -1000 RPM
MIXTURE -IDLE CUT-OFF
IGNITION -OFF AND KEY REMOVED
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: 123.3	AIR-TO-AIR: 122.75
FLIGHT WATCH: 122.0	FLIGHT SERVICE: 122.2

AIRSPPEEDS

V_R - 70 KIAS @ 0° FLAPS
(60 KIAS @ 25° FLAPS)
V_X BEST ANGLE - 72 GD / 78 GU
V_Y BEST RATE - 78 GD / 90 GU
ENROUTE CLIMB - 104 KIAS
V_A - 118 KIAS @ 2750 LBS GROSS
96 KIAS @ 1865 LBS GROSS
MAXIMUM CROSSWIND - 17 KTS

BEST GLIDE - 79 KIAS
EMERGENCY GEAR DOWN -87 KIAS
CLOSE DOOR - 87 KIAS OR BELOW
V_{LR} - 107 KIAS
V_{LE} - 129 KIAS
V_{LO} - 129 KIAS
APPROACH @ 40° FLAPS -75 KIAS