NORMAL PROCEDURE

Piper Archer II · PA28-181

COCKPIT CHECKLIST

Maintenance & Discrepancy Records	CHECK
Required Documents	ARROW
Hobbs/Tach Time	RECORD
Pitot/Static Drains	DRAIN
Fuel Selector	LOWEST TANK
Auto Pilot	OFF
Magneto/Starter Switch	OFF/KEY REMOVED
Mixture	IDLE/CUT-OFF
Electrical Equipment/Circuit Breakers	OFF/IN
Battery Master Switch	ON
Fuel Guages	CHECK QUANTITY
Annunciator Panel	ILLUMINATED
Lights/Stall Warning Vane/Pitot Heat	CHECK OPERATION
Battery Master Switch	OFF
Flaps	EXTEND

NORMAL PROCEDURE

Piper Archer II · PA28-181

EXTERIOR CHECKLIST

RIGHT SIDE	
Wing Surfaces/Flap/Aileron	CHECK CONDITION
Wing Tip/Leading Edge	CHECK CONDITION
Fuel Vent	CHECK CLEAR
Fuel Sump	DRAIN
Fuel Quantity/Cap	CHECK/SECURE
Main Gear/Strut/Tire/Brake	CHECK CONDITION
NOSE	
Windshield	CHECK CONDITION
Engine Oil Level	5QT LCL/6QT XC/7QT MAX
Cowling (Right Side)	CLOSED/SECURE
Propeller/Spinner/Alternator Belt	CHECK CONDITION
NOSE (CONTINUED)	
Induction Air Intake/Air Filter	CLEAR
Nose Gear Assembly	CHECK CONDITION
Fuel Sump (Left Side)	DRAIN
Cowling (Left Side)	CLOSED/SECURE
Windshield	CHECK CONDITION
LEFT SIDE	
Main Gear/Strut/Tire/Brake	CHECK CONDITION
Fuel Sump	DRAIN
Fuel Vent	CHECK CLEAR
Fuel Quantity/Cap	CHECK/SECURE
Pitot/Static Mast	CHECK CLEAR
Wing Tip/Leading Edge	CHECK CONDITION
Wing Surfaces/Flap/Aileron	CHECK CONDITION
LEFT FUSELAGE	
Fuselage/Antennas	CHECK CONDITION
EMPENNAGE	
Horizontal Stabilator/Trim Table	CHECK CONDITION
Vertical Stabilizer/Rudder	CHECK CONDITION
RIGHT FUSELAGE	
Fuselage	CHECK CONDITION
Baggage/Baggage Door	CHECK/SECURE

NORMAL PROCEDURE

Piper Archer II · PA28-181

BEFORE START CHECKLIST

Passenger Briefing	COMPLETE
Seats/Seat Belts/Harnesses	SET/SECURE
Brakes	SET
Avionics Master Switch	OFF
Circuit Breakers/Electrical Equipment	IN/OFF
Flaps	RETRACT

NORMAL PROCEDURE

Piper Archer II · PA28-181

START CHECKLIST

Fuel Selector	LOWEST TANK
Throttle	1/4 INCH OPEN
Mixture	RICH
Carburetor Heat	OFF
Battery Master Switch	ON
Alternator Switch	ON
Fuel Boost Pump	ON (verify pressure)
Beacon	VERIFY ON
Prime Engine	AS REQUIRED
Propeller Area	CLEAR
Starter Switch	ENGAGE
Throttle	1000 RPM
Oil Pressure	60-90 PSI (< 30 seconds)
Loadmeter	REGISTERING LOAD

NORMAL PROCEDURE

Piper Archer II · PA28-181

BEFORE TAXI CHECKLIST

Mixture	LEAN (as required)
Avionics Master Switch	ON
Instruments & Radios	SET
ATIS/AWOS/ASOS Information	OBTAIN
Transponder	ALT/CODE
Beacon	VERIFY ON
Position Lights/Landing Lights	AS REQUIRED
Altimeter (GI275 & Analog)	SET (twice)
Heading Indicator	VERIFY
Fuel Selector	SWITCH TANKS
Fuel Boost Pump	OFF (verify pressure)
Brakes	TEST
Flight Instruments	CHECK (during taxi)

NORMAL PROCEDURE

Piper Archer II · PA28-181

RUN-UP CHECKLIST

Brakes	**Hold**
Mixture	**RICH**
Throttle	**1800 RPM**
Magnetos	**CHECK (175 max/50 diff)**
Carburetor Heat	**ON/OFF (note rpm drop)**
Alternate Static	**CHECK**
Engine Gauges	**CHECK (verify in green)**
Alternator (Pitot HT/LND LT)	**OFF/ON (note increase load)**
Throttle	**IDLE CHECK/1000 RPM**
Annunciator Panel	**PUSH TO TEST**
Heading Indicator	**VERIFY**
Engine Primer	**IN/LOCKED**
Pitot Heat	**AS REQUIRED**
Electric Trim	**CHECK/SET FOR TAKEOFF**
Circuit Breakers	**IN**
Instruments & Radios	**SET**
Cabin Doors/Windows	**SECURE**
Flight Controls	**FREE/CORRECT**
Parking Brake	**RELEASE**

NORMAL PROCEDURE

Piper Archer II · PA28-181

TAKEOFF CHECKLIST

Fuel Quantity/Fuel Selector	**CHECK (note switch time)**
Auto Pilot	**OFF**
Engine Gauges	**CHECK (verify in green)**
Mixture	**RICH**
Fuel Boost Pump	**ON**
Landing/Recog/Anti-Collision Lights	**ON**
Transponder	**ALT/CODE**
Flaps	**SET (for takeoff)**
Trim (Stabilator/Rudder)	**SET (for takeoff)**
Seat Belts/Harnesses	**SECURE**
Takeoff/Commit Point Brief	**COMPLETE**

NORMAL PROCEDURE

Piper Archer II · PA28-181

CLIMB CHECKLIST

Flaps	**RETRACT**
Landing/Recognition Lights	**OFF**
Fuel Boost Pump	**OFF**
Engine Gauges	**CHECK (verify in green)**

NORMAL PROCEDURE

Piper Archer II · PA28-181

CRUISE CHECKLIST

Cruise Power	**SET**
Mixture	**LEAN (as required)**
Heading Indicator	**CHECK**
Fuel Quantity	**CHECK**
Fuel Selector	**DESIRED TANK**
Engine Gauges	**CHECK (verify in green)**

NORMAL PROCEDURE

Piper Archer II · PA28-181

DESCENT CHECKLIST

Passenger Briefing	COMPLETE
Seat Belts/Harnesses	SECURE
Fuel Quantity/Fuel Selector	DESIRED TANK
Mixture	RICH
Instruments & Radios	SET
Altimeter	SET
Landing/Recognition Lights	ON
Approach Briefing	COMPLETE
Carburetor Heat	AS REQUIRED
Descent Power	AS REQUIRED

NORMAL PROCEDURE

Piper Archer II · PA28-181

BEFORE LANDING CHECKLIST

Auto Pilot	**OFF**
Fuel Quantity/Fuel Selector	**CHECK/FULLEST TANK**
Landing/Recognition Lights	**VERIFY ON**
Fuel Boost Pump	**ON**
Carburetor Heat	**AS REQUIRED**
Mixture	**VERIFY FULL RICH**
Flaps	**EXTEND (as required)**

NORMAL PROCEDURE

Piper Archer II · PA28-181

AFTER LANDING CHECKLIST

Transponder	ALT
Anti-Collision Lights	OFF
Landing/Recognition Lights	AS REQUIRED
Fuel Boost Pump	OFF
Carburetor Heat	OFF
Mixture	LEAN (as required)
Flaps	RETRACT

NORMAL PROCEDURE

Piper Archer II · PA28-181

SHUTDOWN CHECKLIST

Parking Brake	**SET**
Avionics Master Switch	**OFF**
Electrical Equipment	**OFF (except beacon)**
Throttle	**1000 RPM**
Mixture	**IDLE/CUTOFF**
Magneto/Starter Switch	**OFF (after propeller stops)**
Battery Switch/Alternator Switch	**OFF**
Tachometer/Hobbs Time	**RECORD**
Chocks/Parking Brake	**INSTALL/RELEASE**

NORMAL PROCEDURE

Piper Archer II · PA28-181

Auto Pilot - Heading Bug

Bottom 275 set heading to current	**Quick press control knob**
Auto Pilot	**ON**
Heading Bug	**Desired Heading (slowly)**

Auto Pilot - GPS Steering

Bottom 275 set heading to current	**Quick press control knob**
Auto Pilot	**ON**
Heading Bug	**Within 30° intercept**
Bottom 275	**Long Press to options**
Options	**CLICK**
HDG Options	**CLICK**
AP Ref	**CLICK to GPSS**

NORMAL PROCEDURE

Piper Archer II · PA28-181

HSI to CDI (Green Needles)

Top 275	**Long press control knob**
Options	**CLICK**
Nav Options	**CLICK**
CDI	**CLICK to VOR**

NORMAL REFERENCE

Piper Archer II · PA28-181

AIRSPEEDS & LIMITATIONS

Vso	49 KIAS
Vs	55 KIAS
VR	52-65 KIAS
Vx	64 KIAS
Vy	76 KIAS
VFE	102 KIAS
VA	89-113 KIAS
VNO	125 KIAS
VNE	154 KIAS
Max X-Wind	17 KIAS
Best Glide	76 KIAS
Approach Full Flaps	66 KIAS

EMERGENCY PROCEDURE CRITICAL MEMORY Piper Archer II · PA28-181

ENGINE FAILURE (DURING GROUND ROLL)

Throttle	CLOSED
Braking	MAXIMUM
if departing paved surface	
Mixture	IDLE/CUT-OFF
Magnetos	OFF
Battery Master/Alternator Switch	OFF

EMERGENCY PROCEDURE CRITICAL MEMORY

Piper Archer II · PA28-181

ENGINE FAILURE (IN FLIGHT)

Maintain Best Glide	76 KIAS
Landing Location	SELECT
Carburetor Heat	On
Fuel Boost Pump	On
Mixture	RICH
Primer	IN/LOCKED
Magnetos	LEFT/RIGHT/BOTH
Fuel Selector	SWITCH TANKS

- *if power not restored, proceed with Power Off Landing*

EMERGENCY PROCEDURE CRITICAL

Piper Archer II · PA28-181

POWER OFF LANDING

Fuel Selector	OFF
Magnetos	OFF
Mixture	IDLE/CUT-OFF
Fuel Boost Pump	OFF
Transponder	7700
Radio Call	121.5 or ATC
ELT	ON
Cabin Door	UNLATCH
Seat Belts/Shoulder Harnesses	SECURE
Flaps (When Landing Assured)	EXTEND
Battery Master/Alternator Switch	OFF

- *land with full flaps at slowest airspeed possible*

EMERGENCY PROCEDURE CRITICAL MEMORY

Piper Archer II · PA28-181

ELECTRICAL FIRE (IN FLIGHT)

- Battery Master/Alternator Switch — **OFF**
- Cabin Vents — **OPEN**
- Cabin Heat — **OFF**
- *land as soon as possible*

EMERGENCY PROCEDURE CRITICAL MEMORY

Piper Archer II · PA28-181

ENGINE FIRE (IN FLIGHT)

- Fuel Selector — **OFF**
- Throttle — **Closed**
- Mixture — **IDLE/CUT-OFF**
- Fuel Boost Pump — **OFF**
- Heater/Defroster — **OFF**
- *proceed with Emergency Descent to Power Off Landing*

EMERGENCY PROCEDURE CRITICAL

Piper Archer II · PA28-181

ELECTRICAL FAILURE (ALT ANNUNCIATOR ON

Loadmeter (if showing zero)	**VERIFY ALT INOPERATIVE**
Alternator Switch	**OFF**
Electrical Load	**REDUCE**
Alternator Circuit Breaker	**RESET (as required)**
Alternator Switch	**ON**
if power is not restored:	
Alternator Switch	**OFF**
Nonessential Electrical Equipment	**OFF**
maintain VFR land as soon as practical	

EMERGENCY PROCEDURE CRITICAL MEMORY

Piper Archer II · PA28-181

ENGINE FIRE (GROUND)

Starter Switch	**ENGAGE & HOLD**
Mixture	**IDLE/CUT-OFF**
Throttle	**FULL OPEN**
Fuel Boost Pump	**OFF**
Fuel Selector	**OFF**
abandon if fire continues	