PIPER PA-28-180 ARCHER I
CHECKLIST

PREFLIGHT
(Interior)

1. ACFT DOCS / INSPECTIONS----CHECK
2. TACH TIME----------RECORD
3. CONTROL LOCK----------REMOVE
4. FLAPS----------EXTEND
5. TRIM----------CHECK

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6. IGNITION SWITCH----------OFF
7. ALL ELECTRICAL SWITCHES------OFF
8. MASTER SWITCH (Prop Area Clear)--ON
9. FUEL QUANTITY----------CHECK
10. LIGHTS-------CHECK (Day or Night Ops)
11. PITOT HEAT----------CHECK
12. MASTER SWITCH & IGNITION------OFF

(Exterior)

1. RIGHT / LEFT WING----------INSPECT
   a. FLAP / AILERON
   b. TIP/ LIGHT
   c. LEADING EDGE / TOP / BOTTOM
   d. FUEL QTY / SUMP / VENT
   e. MAIN GEAR / STRUT / BRAKES
   f. PITOT STATIC (LEFT)
   g. STALL WARNING (LEFT)

2. NOSE----------INSPECT
   a. WINDSHIELD
   b. OIL LEVEL—-------6-8quarts
   c. FUEL / OIL LEAKS
   d. CONDITION / SECURITY
   e. PROP / SPINNER
   f. ENG AIR INLET / ALT BELT
   g. CARBURETOR AIR INLET
   h. COWLING
   i. BRAKE FLUID
   j. NOSE GEAR
   k. FUEL STRAINER

3. FUSELAGE / EMPENNAGE----INSPECT
   a. TOP / SIDE / BOTTOM
   b. ANTENNAS
   c. STABILATOR
   d. ANTI-SERVO TAB
   e. RUDDER

Mike Bjerga

ENGINE START

1. PARKING BRAKE----------SET
2. SEATS / BELTS--LOCKED / FASTENED
3. FLAPS----------UP
4. CIRCUIT BREAKERS---------CHECK-IN
5. ELECTRICAL EQUIP ----------OFF

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1. FUEL TANK----------SELECT
2. MASTER SWITCH----------ON
3. FUEL PUMP----------ON
4. BEACON LIGHT----------ON
5. CARB HEAT----------OFF
6. MIXTURE----------RICH
7. THROTTLE----------OPEN ¼ inch

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8. PRIME----------AS REQ---IN & LOCKED
9. IGNITION----------BOTH
10. PROP AREA----------CLEAR
11. ENGINE----------START

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12. THROTTLE----------800 to 1000 rpm
13. OIL PRESSURE (w/in 30 Sec)----CHECK
14. FUEL PUMP-------OFF & Verify Pressure

TAXI

1. MIXTURE----------LEAN AS REQ
2. RADIOS / AVIONICS----------AS REQ
3. ATIS-ASOS-WXBRIEF----------REVIEW
4. FLIGHT INST---------- SET & MONITOR
5. BRAKES & STEERING----------TEST

GROUND RUN-UP

1. BRAKES----------SET
2. FLIGHT INST----------CHECK & SET
3. CIRCUIT BREAKERS---------CHECK-IN
4. RADIOS / AVIONICS----------AS REQ
   a. IFR CHECKLIST----- ---------AS REQ

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5. FUEL SELECTOR------FULLEST TANK
6. MIXTURE----------RICH
7. THROTTLE----------2000 rpm
8. MAGNETOS---CHECK(175max drop<50diff)
   ----------SMOOTH OPERATION
9. CARB HEAT----TEST, Note RPM Drop
10. ENGINE INSTRUMENTS--------CHECK
11. WARNING LIGHTS----------TEST
12. VACUUM & ALTERNATOR-----CHECK
13. THROTTLE----------IDLE CHECK
    a. ---AND W / CARB HEAT
    b. -RETURN TO 800-1000

BEFORE TAKEOFF

If it doesn't LOOK, SOUND or FEEL right-----GET IT CHECKED OUT BEFORE YOU GO!

TAKEOFF

1. PASSENGER & EMERGENCY BRIEFING
2. SEATS / BELTS--LOCKED / FASTENED

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3. CONTROLS----------FREE & CORRECT
4. FLAPS----------SET
   (Norm: 0 deg, Short/Soft 25 deg)
5. TRIM TAB----------SET

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6. MIXTURE------RICH (T/O Below 3000 ft)
7. CARB HEAT----------OFF
8. WINDOW VENT----------CLOSED
9. DOOR ----------CLOSED / LATCHED

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(Vr: 63 mph, Vx 74 mph, Vy 85 mph)

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10. FUEL PUMP----------ON
11. LANDING LIGHT----------ON
12. TRANSPONDER----------ON ALT
13. TIME OFF----------RECORD

AFTER TAKEOFF / CRUISE CLIMB
(1000' AGL / Cruise Climb: 100 mph)

1. FLAPS----------UP (Verify)
2. FUEL PUMP----------OFF (Verify PSI)
3. LANDING LIGHT----------OFF
4. ENGINE INSTRUMENTS---------CHECK
5. MIXTURE----------LEAN AS REQ

CRUISE / DESCENT

1. THROTTLE----------AS REQ
2. MIXTURE----------LEAN AS REQ
3. **FUEL TANK----------SELECT AS REQ**
4. ENGINE INSTRUMENTS--------CHECK
5. FLIGHT INSTRUMENTS---------CHECK

V-SPEEDS
Vs0------54 mph
Vs1------63 mph
Vfe-----115 mph
Va------129 mph
Vno----140 mph
Vne----171 mph
Cruise Climb—-------100 mph
Traffic Pattern-------100 mph
Final (no Flaps)-------85 mph
Final (Full Flaps)-----76 mph
Vr: 63 mph, Vx 74 mph, Vy 85 mph
(Approach-No Flaps 85 mph / Full Flaps 76 mph)

For those "Oh Crap" Moments

T--Trim
P--Pick

F--Fuel
A--Air
S--Spark
T--Transmit

Best Glide 80 mph (Max Gross)

LANDING

(Mid-Field Traffic Pattern---------100 mph)
1. SEATS / BELTS-LOCKED / FASTENED
2. FUEL PUMP----------ON
3. **FUEL TANK----------SELECT FULLEST**
4. MIXTURE----------RICH
5. LANDING LIGHT----------ON

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(Approach-No Flaps 85 mph / Full Flaps 76 mph)
GoAROUND--Full Power Climb 74-85 mph
-- Flaps to 25 deg as req
--Obstacles Clear- Retract Flaps

AFTER LANDING

1. FLAPS----------UP
2. MIXTURE----------LEAN AS REQ
3. FUEL PUMP----------OFF
4. LANDING LIGHT----------OFF
5. TRANSPONDER----------STANDBY

SHUT DOWN

1. AVIONICS / ELECTRICAL EQUIP--OFF
2. MAGNETOS------CHECK GROUNDING
3. THROTTLE----------800 to 1000 rpm
4. MIXTURE----------CUT-OFF
5. IGNITION----------OFF
6. MASTER SWITCH----------OFF

ENGINE FAILURE DURING FLIGHT
1. AIRSPEED----------80 mph
2. LANDING SITE----------CHOOSE

RESTART / TROUBLESHOOTING PROCEDURES
1. **FUEL TANK----------SELECT FULLEST**
2. PRIMER----------IN & LOCKED
3. FUEL PUMP----------ON
4. CARB HEAT----------ON
5. THROTTLE----------OPEN
6. MIXTURE ----------FULL RICH
7. IGNITION----------BOTH(START)

NO RESTART?--*EMERGENCY LANDING*

EMERGENCY LANDING
1. SEATS/BELTS------UPRIGHT/SECURE
2. AIRSPEED----------**80 mph**(Flaps *up*)
   ----------**76 mph**(Flaps *down*)
3. MIXTURE----------IDLE CUT OFF
4. FUEL----------OFF
5. IGNITION----------OFF

*SQUAWK **7700***
MAYDAY- LAST CALLING OR **121.5**
6. MASTER----OFF / DOORS---UNLATCH