

EMERGENCY PROCEDURES

PIPER CHEROKEE ARROW

PA28R-200

This is not an FAA Approved Checklist and is to be used for General Purposes Only

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

1. Airspeed - MAINTAIN SAFE AIRSPEED
2. Fuel Selector Valve - OFF
3. Fuel Pump - OFF
4. Mixture - IDLE CUT-OFF
5. Emergency Gear Lever - AS REQUIRED

DURING FLIGHT

1. Airspeed - 105mph
2. Fuel Selector - SWITCH TO OTHER TANK
3. Mags - BOTH
4. Fuel Pump - ON
5. Alternate Air - ON
6. Engine Gauges - CHECK

FORCED LANDINGS EMERGENCY LANDINGS WITHOUT ENGINE POWER

1. Airspeed - 105mph
2. Mixture - IDLE CUT-OFF
3. Fuel Selector Valve - OFF
4. Mags - OFF
5. Landing Gear - DOWN (UP if terrain is rough or soft)
6. Flaps - AS REQUIRED
7. Doors - UNLATCH PRIOR TO TOUCHDOWN
8. Master Switch - OFF
9. Touchdown - SLIGHTLY TAIL LOW
10. Brakes - APPLY HEAVILY

PRECAUTIONARY LANDING WITH ENGINE POWER

1. Airspeed - 90mph
2. Flaps - 25°
3. Select Field - FLY OVER, noting terrain and obstructions.
4. Electrical Switches - OFF
5. Landing Gear - DOWN (UP if terrain is rough or soft).
6. Flaps - 40° (on final approach)
7. Airspeed - 90mph

EMERGENCY LANDING GEAR EXTENSION

1. Master Switch - CHECK ON
2. Circuit Breakers - CHECK
3. Panel Lights - OFF (daytime)
4. Gear Indicator Bulbs - CHECK

*If landing gear does not check down and locked:

5. Reduce airspeed below 100mph
 6. Landing Gear - DOWN
 7. Emergency Gear Lever - EMERGENCY DOWN
- *If failed to lock down, yaw aircraft from side to side.

BEFORE STARTING ENGINE

1. Preflight Inspection - COMPLETE
2. Seats, Belts, Shoulder Harnesses - ADJUST and LOCK
3. Fuel Selector Valve - ON FULLEST TANK
4. Avionics Power Switch - OFF
5. Autopilot - OFF
6. Electrical Equipment - OFF
7. Brakes - TEST and SET
8. Landing Gear Lever - DOWN
9. Flaps - RETRACTED
10. Circuit Breakers - ✓

STARTING ENGINE - NORMAL

1. Mixture - IDLE CUT-OFF
2. Propeller - Full Forward, HIGH RPM
3. Throttle - OPEN ½"
4. Master - ON
5. Rotating Beacon - ON
6. Fuel Pump - ON
7. Mixture - FULL RICH until indication of the fuel flow meter is noted.
(Engine is primed.) Then IDLE CUT-OFF.
8. Fuel Pump - OFF
9. Starter - ENGAGE
10. Mixture - FULL RICH
11. Throttle - 1000 RPM warm up
12. Engine Instruments - CHECK (green)

AFTER START

1. Lights - As Required
2. Radios - SET
3. Transponder - 88Y, 1200
4. DG - SET
5. Mixture - LEAN for Taxi
6. Parking Brake - Release
7. Brakes & Steering - ✓

WHILE TAXIING - (IFR ✓)

1. Attitude indicator - ERECT & STABLE, TURN TIP ≤5°?
2. Turn coordinator - SKIDDING TURNS

BEFORE TAKE OFF - (IFR ✓)

1. IFR Clearance? - AS NEEDED
2. Clock - SET
3. Magnetic compass - KNOWN HEADING
4. DG - ✓ SET
5. Marker beacon - TEST then LOW
6. VOR Ident - IF POSSIBLE
7. Airspeed - ZERO
8. Altimeter - SET ± 75 FEET
9. Vertical speed - ZERO

BEFORE TAKEOFF - RUN UP

1. Cabin Doors and windows - CLOSED and LOCKED
2. Parking Brake - SET
3. Flight Controls - FREE and CORRECT
4. Flight Instruments - SET
5. Fuel Selector Valve - ON FULLEST TANK
6. Elevator Trim - TAKEOFF
7. Mixture - RICH
8. Throttle - 2000 RPM
 - a. Magnets - ✓
 - b. Propeller - CYCLE
 - c. Alternate Air - ✓
 - d. Engine Instruments and Ammeter - ✓
 - e. Suction Gauge - ✓
9. Throttle - ✓ IDLE, then 1000 RPM
10. Annunciator Panel - TEST
11. Radios - SET
12. Transponder - SET then ALT
13. Autopilot - OFF
14. Throttle Friction Lock - ADJUST
15. Fuel Pump - ON
16. Lights - As Required
17. Parking Brake - RELEASE

TAKEOFF - NORMAL

1. Flaps - 0-10°
2. Propeller - HIGH RPM
3. Power - FULL THROTTLE
4. Elevator Control - LIFT NOSE WHEEL at 60-70mph
5. Climb Speed - 95mph
6. Landing Gear - RETRACT, then 100mph
7. Flaps - RETRACT

SHORT FIELD TAKEOFF

1. Flaps - 25°
2. Power - FULL THROTTLE
3. Propeller - HIGH RPM
4. Elevator Control - LIFT NOSE WHEEL at 60-65mph
5. Climb Speed - Vx 85mph
6. Landing Gear - RETRACT
7. Climb Speed - Vy 100mph
8. Flaps - RETRACT

EN ROUTE CLIMB

1. Airspeed - 110mph
2. Power - 26" Hg and 2600 RPM
3. Mixture - FULL RICH (below 3000 feet)
4. Fuel Pump - OFF

CRUISE

1. Power - SET
2. Elevator and Rudder Trim - ADJUST
3. Mixture - LEAN
4. Engine Instruments - ✓
5. Landing Light - OFF

DESCENT

1. Power - AS DESIRED
2. Mixture - ENRICH as required
3. Landing Light - As Required

BEFORE LANDING - GUMPP ✓

1. Seats, Belts, Shoulder Harnesses - ADJUST and LOCK
2. Fuel Selector Valve - PROPER TANK
3. Landing Gear - DOWN (below 150mph), 3 GREEN
4. Mixture - RICH
5. Propeller - HIGH RPM
6. Fuel Pump - ON
7. Landing Light - ON
8. Autopilot - OFF

LANDING - NORMAL

1. Airspeed - 100mph
2. Flaps - AS DESIRED (below 125mph)
3. Airspeed - 90mph

SHORT FIELD LANDING

1. Airspeed - 100mph
2. Flaps - 40° (below 125mph)
3. Airspeed - 77mph
4. Trim - ADJUST
5. Power - REDUCE to idle as obstacle is cleared.
6. Touchdown - MAIN WHEELS FIRST
7. Brakes - APPLY HEAVILY
8. Wing Flaps - RETRACT for maximum braking

BALKED LANDING

1. Power - FULL THROTTLE and 2700 RPM
2. Flaps - RETRACT to 25°
3. Climb Speed - 95mph
4. Landing Gear - UP
5. Wing Flaps - RETRACT slowly after reaching 95mph

AFTER LANDING

1. Flaps - RETRACT
2. Electric Fuel Pump - OFF
3. Transponder - SBY
4. Lights - As Required
5. Mixture - LEAN for taxi

SECURING AIRPLANE

1. Parking Brake - SET
2. Throttle - IDLE
3. Avionics Power Switch - OFF
4. Electrical Equipment - OFF, except Beacon
5. Mixture - IDLE CUT-OFF
6. Beacon - OFF
7. Ignition Switch - OFF
8. Master Switch - OFF
9. Control Lock - INSTALL