

# AMS FLIGHT SCHOOL



## CHEROKEE WARRIOR 151/161 CHECKLIST

### V SPEEDS

Vr	55 KIAS
Vx	65
Vy	75
Vfe	100
Va	108 @ 2325 lbs
Va	88 @ 1531 lbs
Vne	157
Vso	50
Vs1	56

### AIRCRAFT ACCEPTANCE

- 1) MAINTENANCE STATUS.....CURRENT
- 2) SQUAWK SHEET.....CHECK & CLEAR
- 2) A.R.O.W.....LOCATE & CHECK
- 3) HOBBS/ TACH TIME.....RECORD

### PREFLIGHT INSPECTION CABIN

- 1) CONTROL WHEEL LOCK .....REMOVE
- 2) MASTER SWITCH .....ON
- 3) FUEL QUANTITY INDICATORS .....CHECK
- 4) MASTER SWITCH .....OFF
- 5) IGNITION SWITCH.....OFF
- 6) FLAPS.....LOWER
- 7) BAGGAGE.....SECURE
- 8) LIGHTS.....CHECK
- 9) FLAPS.....LOWER
- 10) PARKING BRAKE.....AS REQUIRED
- 11) FUEL SAMPLE BOTTLE.....OBTAIN

### EXTERNAL INSPECTION

#### RIGHT WING

- 1) EXTERIOR.....CHECK FOR DAMAGE
- 2) FLAPS.....CHECK
- 3) CONTROL SURFACES.....FREEDOM OF MOVEMENT  
FREE OF SNOW, ICE, FROST
- 4) HINGES.....CHECK FOR INTERFERENCE
- 5) NAVIGATION LIGHT.....CHECK
- 6) WING.....FREE OF ICE, SNOW, FROST
- 7) FUEL TANK.....CHECK VISUALLY-SECURE CAPS
- 8) FUEL TANK SUMP.....DRAIN
- 9) FUEL VENT.....OPEN
- 10) TIE DOWN.....REMOVE
- 11) MAIN GEAR STRUT.....PROPER INFLATION (4.50)
- 12) TIRE.....CHECK
- 13) BRAKE BLOCK.....CHECK

#### ENGINE COMPARTMENT

- 1) WINDOW.....CLEAN
- 2) RIGHT COWLING.....OPEN-VISUALLY INSPECT
- 3) OIL.....CHECK LEVEL (+6qts)
- 4) DIP STICK.....PROPERLY SEATED
- 5) COWLING.....PROPERLY SEATED
- 6) PROPELLER.....CHECK
- 7) SPINNER.....CHECK
- 8) NOSE WHEEL TIRE.....CHECK
- 9) NOSE GEAR STRUT.....PROPER INFLATION (3.25)
- 10) AIR INLETS.....CLEAR
- 11) ALTERNATOR BELT.....CHECK TENSION
- 12) LEFT COWLING.....OPEN-VISUALLY INSPECT
- 13) BRAKE FLUID.....CHECK
- 14) COWLING.....PROPERLY SEATED
- 15) FUEL FILTER.....DRAIN

#### LEFT WING

- 1) BRAKE BLOCK.....CHECK
- 2) WHEEL AND TIRE.....CHECK
- 3) MAIN GEAR STRUT.....PROPER INFLATION (4.50)
- 4) FUEL TANK SUMP.....DRAIN
- 5) FUEL TANK VENT.....OPEN
- 6) FUEL TANK.....CHECK VISUALLY-SECURE CAP
- 7) TIE DOWN.....REMOVE
- 8) STALL WARNING.....CHECK

- 9) PITOT MAST.....REMOVE COVER-HOLES CLEAR
- 10) WING.....FREE OF ICE, SNOW, FROST
- 11) NAVIGATION LIGHT.....CHECK
- 12) CONTROL SURFACES...CHECK FOR INTERFERENCE  
FREE OF ICE, SNOW, FROST
- 13) HINGES.....CHECK FOR INTERFERENCE
- 14) FLAPS.....CHECK

#### FUSELAGE

- 1) STABILATOR.....FREEDOM OF MOVEMENT
- 2) RUDDER.....CHECK
- 3) TAIL TIE DOWN.....REMOVE
- 4) ANTENNAS.....CHECK

### BEFORE STARTING ENGINE

- 1) TOW BAR.....STOW
- 2) CONTROL LOCKS.....STOW
- 3) BAGGAGE.....SECURE
- 4) FLAPS.....UP
- 5) SEATS.....ADJUSTED
- 6) SEAT BELTS/HARNESSES.....FASTENED
- 7) AVIONICS MASTER.....OFF if applicable
- 8) CIRCUIT BREAKERS .....CHECK IN
- 9) PRIMARY FLIGHT CONTROLS.....FREE & CORRECT
- 10) BRAKES.....SET
- 11) CARBURETOR HEAT.....FULL COLD
- 12) FUEL SELECTOR.....DESIRED TANK
- 13) ANTI-COLLISION.....ON

### STARTING ENGINE COLD

- 1) THROTTLE.....1/4" OPEN
  - 2) MASTER SWITCH.....ON
  - 3) ELECTRIC FUEL PUMP.....ON
  - 4) MIXTURE.....FULL RICH
  - 5) PROPELLER AREA.....CLEAR
  - 6) STARTER.....ENGAGE
  - 7) THROTTLE.....800-1000 RPM
  - 8) OIL PRESSURE.....CHECK
- If engine does not start within 10 sec. prime and repeat starting procedure.

### WARM-UP

- 1) MIXTURE.....LEAN FOR TAXI
- 2) THROTTLE.....800-1000 RPM
- 3) ANTI-COLLISION.....ON
- 4) TRANSPONDER.....STANDBY
- 5) AVIONICS MASTER.....ON if applicable

### TAXI

- 1) TAXI AREA.....CLEAR
- 2) THROTTLE.....APPLY SLOWLY
- 3) BRAKES.....CHECK
- 4) STEERING.....CHECK

### ENGINE RUN-UP

- 1) MIXTURE.....FULL RICH
- 2) FUEL SELECTOR.....PROPER TANK
- 3) OIL TEMP.....GREEN ARC
- 4) THROTTLE.....2000 RPM
- 5) AMMETER.....CHECK
- 6) VACUUM.....5.0" Hg  $\pm$  .1
- 7) CARBURETOR HEAT.....CHECK
- 8) OIL PRESSURE.....CHECK
- 9) MAGNETOS.....MAX DROP 175 RPM  
MAX DIFF. 50 RPM
- 10) ELECTRIC FUEL PUMP.....OFF
- 11) FUEL PRESSURE.....CHECK
- 12) ANNUNCIATOR PANEL.....CHECK if applicable
- 13) THROTTLE.....RETARD

### BEFORE TAKE-OFF

- 1) MASTER SWITCH ..... ON
- 2) FLIGHT INSTRUMENTS.....CHECK
- 3) FUEL SELECTOR.....PROPER TANK
- 4) PRIMER..... IN & LOCKED
- 5) CARBUETOR HEAT.....OFF
- 6) MAGNETOS.....BOTH
- 7) BELTS/HARNESSES.....FASTENED
- 8) EMPTY SEATS.....SEAT BELTS SNUGLY FASTENED
- 9) TRIM TAB.....SET

**\*Continued on next page\***

- 10) FLAPS.....SET
- 11) DOORS/WINDOWS ..... LATCHED
- 12) CONTROLS.....FREE
- 13) COLLISION LIGHT.....ON
- 14) ELECTRIC FUEL PUMP.....ON
- 15) MIXTURE.....FULL RICH
- 16) TRANSPONDER.....SET ALT

### ROTATION SPEED 55 KIAS

#### SHORT FIELD TAKEOFF

- 1) FLAPS .....25 DEGREES
- 2) BRAKES.....APPLY
- 3) THROTTLE .....FULL
- 4) BRAKES.....RELEASE
- 5) ROTATE.....45 KIAS
- 6) CLIMBOUT.....57 KIAS
- 7) OBSTACLE CLEAR.....75 KIAS
- 8) RETRACT FLAPS.....SLOWLY

#### SOFT FIELD TAKEOFF

- 1) FLAPS.....25 DEGREES
- 2) CONTROLS.....pull nose gear off ground asap.
- 3) LIFTOFF.....lowest possible airspeed
- 4) ACCELERATE.....75 KIAS in ground effect
- 5) CLIMB.....75 KIAS
- 6) FLAPS.....retract slowly while climbing out

#### CLIMB

- 1) BEST RATE.....75 KIAS
- 2) BEST ANGLE.....65 KIAS
- 3) EN ROUTE.....87 KIAS
- 4) ELECTRIC FUEL PUMP.....OFF at desired altitude

#### CRUISE

- 1) Reference performance charts and Avco-Lycoming Operator's Manual
- 2) NORMAL MAX POWER.....75%
- 3) POWER.....SET PER POWER TABLE
- 4) MIXTURE.....ADJUST

### DESCENT

- 1) POWER.....SET
- 2) MIXTURE.....ENRICH AS YOU DESCEND

### APPROACH AND LANDING

- 1) FUEL SELECTOR.....PROPER TANK
- 2) SEAT BACKS.....ERECT
- 3) SEAT BELTS/HARNESSES.....FASTEN
- 4) ELECTRIC FUEL PUMP.....ON
- 5) MIXTURE.....FULL RICH
- 6) FLAPS.....SET 100 KIAS MAX
- 7) TRIM.....65-70 KIAS

### CLEAR OF ACTIVE

- 1) TRANSPONDER.....STANDBY
- 2) ELECTRIC FUEL PUMP.....OFF
- 3) MIXTURE.....LEAN FOR TAXI
- 4) FLAPS.....RETRACT

### ENGINE SHUTDOWN

- 1) AVIONICSMASER.....OFF if applicable
- 2) ANTI-COLLISION.....ON
- 2) THROTTLE.....1200 RPM
- 3) MIXTURE.....IDLE CUT-OFF
- 4) MAGNETOS.....OFF
- 5) MASTERSWITCH.....OFF
- 6) ELECTRIC SWITCHES.....OFF
- 7) HOBBS TIME ..... RECORD
- 8) TACH TIME ..... RECORD

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