

Silver Express

(305) 255-8753

PA 28-161 Cadet/Warrior



Normal Checklist For training purposes only

AIRCRAFT ACCEPTANCE

Maintenance Status.....CHECK
Hobbs/Tach.....CHECK
A.R..O.W.....CHECK
Weight and Balance.....Within Limits
Weather.....Suitable

PREFLIGHT INSPECTION

COCKPIT:

Control Wheel.....RELEASE
Circuit Breakers.....IN
Electricals/Avionics.....OFF
Magneto Switch.....OFF
BATT MAST Switch.....OFF
Mixture.....IDLE CUT OFF
Pitot/Static.....DRAIN, CLOSE
TRIM.....CHECK/ SET NEUTRAL
BATT MAST Switch.....ON
Fuel Gauges.....CHECK
Annunciator Panel.....CHECK
Lights.....CHECK
Pitot Heat.....CHECK
BATT MAST Switch.....OFF
Flaps.....EXTEND

RIGHT WING:

Static Wings.....CHECK
Flaps/Hinges.....CHECK
Aileron/Hinges.....CHECK
Wing tip/Lights.....CHECK
Leading edge.....CHECK
Fuel Quantity (Visual).....CHECK
Fuel Samp.....DRAIN, CHECK
Fuel Vent.....CLEAR
Main Gear Strut.....(4.50 in) PROPER
Tire.....CHECK

Brake Block and Disk.....CHECK
Fresh Air Inlet.....CLEAR

NOSE SECTION:

Oil Level (Min 4 qts).....CHECK
Cowling.....SECURE
Propeller/Spinner.....CHECK
Alternator Belt.....CHECK TENSION
Air Inlets.....CHECK
Landing Light.....CHECK
Nose Gear Strut.....(3.25 in) PROPER
Nose Wheel Tire.....CHECK
Break Fluid.....CHECK
Fuel Strainer.....DRAIN, CHECK

LEFT WING:

Reverse order of right wing
Pitot/Static Head.....HOLES CLEAR
Stall Horn.....CHECK

FUSELAGE:

Antennas.....CHECK
Fresh Air Inlet.....CLEAR
Stabilator and trim Tab.....CHECK
Rudder.....CHECK

BEFORE STARTING ENGINE

Flaps.....0'
Passenger Briefing.....COMPLETE
Seat Belts.....FASTEN
Brakes.....SET
Carburator Heat.....OFF
Fuel Selector.....ON LOWEST TANK
Avionics.....OFF

STARTING ENGINE (Cold & Hot)

(For engine flooded / ext power start, see
Abnormal Check List)

Throttle.....1/4 in OPEN (CLOSE if Hot)
BATT MAST Switch.....ON
Alternator.....ON
Lights.....AS REQUIRED
Fuel Pump.....ON
Mixture.....FULL RICH
Primer (cold start only).....PRIME
Prop Area....."CLEAR"

Starter (Max 10 sec).....ENGAGE
RPM : 1000.....SET
Oil Pressure.....CHECK
Fuel Pump.....OFF
Fuel Pressure.....CHECK
Alternator Output.....CHECK
Annunciator Panel.....CHECK
Mixture.....LEAN
Comm/Nav.....ON/SET
Transponder.....STANDBY
Circuit Breakers.....CHECK IN

TAXI CHECK

Taxi Area.....CLEAR
Parking Brake.....RELEASE
Brakes.....CHECK
Steering.....CHECK
Flight Instruments.....CHECK

GROUND CHECK

Parking Brake.....SET
Primer.....LOCK
Fuel selector.....ON FULLEST TANK
Mixture.....FULL RICH
Throttle.....2000 RPM
Engine Instruments.....IN GREEN
MagnetOS (Max drop 175/Max diff 50)...CHECK
Vacuum (4.8 to 5.1 in Hg).....CHECK
Oil Temp & Press.....CHECK
Fuel Pump.....OFF
Fuel Pressure.....CHECK
Annunciator Panel...PRESS-TO-TEST
Carburator Heat.....CHECK
Throttle.....IDLE/ CHECK
Mixture.....LEAN

BEFORE TAKEOFF

Flight Controls.....FREE/ CHECK
Flaps.....AS REQUIRED
TRIM.....SET
Flight Instruments.....CHECK/SET
Comm/Nav.....SET/IDENT
Takeoff Briefing.....COMPLETE
Door & Window.....SECURE

AFTER CLEARED ONTO RUNWAY

Time Off.....NOTE
Approach.....CLEAR
Parking Break.....RELEASE
Mixture.....RICH
Transponder.....ALT
Fuel Pump.....ON
Landing Light (Strob at night).....ON
Pitot Heat.....AS REQUIRED

AFTER TAKEOFF

VSI and Positive R of C.....CHECK
Flaps (passing 63 kts).....10'
Flaps (passing 79 kts).....0'
Climb Speed (Above 1000ft AGL).....87 kts
Fuel Pump.....OFF ABOVE 1000'
Fuel Pressure.....CHECK

CRUISE

Power.....SET
Mixture.....ADJUST
Landing Light.....OFF
At least every 30 mn :
Fuel Pump.....ON
Fuel Tank.....OPPOSITE
Fuel Pump.....OFF
Engine Instruments.....CHECK
Flight Instruments.....CHECK
Comm/Nav.....SET/CHECK

DESCENT

Fuel Selector.....ON FULLEST TANK
Engine Instruments.....CHECK
Flight Instruments.....CHECK
Comm(ATIS)/Nav.....SET/CHECK
Seat belts.....FASTENED
Approach Briefing.....COMPLETE
Carburator Heat.....AS REQUIRED

Mixture.....AS REQUIRED
Landing Light.....ON
Fuel Pump.....ON

POWER OFF DESCENT

AIRSPPEED.....73 kts
Carb Heat.....AS REQUIRED
Mixture.....AS REQUIRED
Power (every 1000 ft).....VERIFY

BEFORE LANDING

Fuel Selector.....ON FULLEST TANK
Fuel Pump.....ON
Mixture.....RICH
Seat belts.....FASTENED
Flaps (Max 103 kts).....SET
Final Approach Speed.....MAINTAIN

AFTER LANDING

Flaps.....0'
Carburator Heat.....OFF
Mixture.....LEAN
Transponder.....OFF
Fuel Pump.....OFF
Landing Light (and Strob at night)...OFF
Pitot Heat.....OFF

PARKING

Parking Brake.....SET
Avionics.....OFF
Throttle.....FULL AFT
Mixture.....IDLE CUT OFF
Magnetos.....OFF
Lights.....OFF
Alternator.....OFF
BATT MAST Switch.....OFF
Trim.....NEUTRAL
Parking Brake.....RELEASE
Hobbs/Tach.....RECORD
Squawks (if any).....RECORD
Flight Controls.....SECURE
Door/Window.....SECURE
Tie-Downs.....SECURE
Flight Plan (if applicable).....CLOSE

PRE-MANEUVERING

Landing Light.....ON
Engine Instruments.....CHECK
Flight Instruments.....CHECK
Fuel Pump.....ON
Mixture.....RICH
Minimum Safe Altitude.....VERIFY
Area.....CLEAR

POST-MANEUVERING

Landing Light.....OFF
Fuel Selector.....ON FULLEST TANK
Fuel Pump.....OFF
Mixture.....SET
Engine Instruments.....CHECK
Flight Instruments.....CHECK

V SPEEDS (KIAS)

V_{so}.....44
V_{s1}.....50
V_r (25' flaps).....50
V_r (0' flaps).....55
V_x.....63
Best Glide.....73
V_y.....79
Cruise Climb.....87
V_a.....111-88
V_{fe}.....103
V_{no}.....126
V_{ne}.....160
Max Demo Xwind.....17

For reference only. The pilot is at all times responsible for operating the aircraft in accordance with the manufacturer's limitations as published in the Pilot's Operating Handbook.