

PA-44-180

THIS CHECKLIST IS THE STANDARD FOR PILOT TRAINING AT DEAN INTERNATIONAL, INC.

(This checklist is not intended to replace the POH)

V/R - Verbal Response Only

C/R - Challenge & Response

N/R - Non-Response

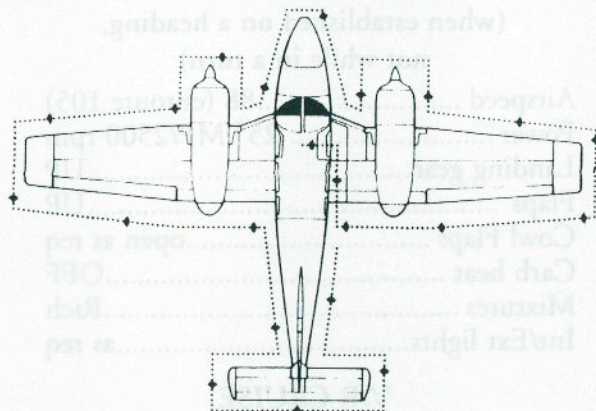
V/R AIRCRAFT ACCEPTANCE

- Maintenance statuschecked
- Emergency & Safety equip.....checked
- Hobbs meterrecorded
- Tachometer timerecorded
- A.R.R.O.W.....checked
- Checklistcomplete

"V" SPEEDS (KIAS)

VSO	55
VMCA	56
VS	57
VR	75
VX	82
VXSE	82
VSSE	82
VY	88
VYSE	88
VFE	111
VLO up	109
VLO down	140
VLE	140
VA	135
VNO	169
VNE	202
MAX CROSS WIND	17

PA-44-180, SEMINOLE



WALK-AROUND

NORMAL PROCEDURES CHECK LIST

PREPARATION

- Airplane status airworthy, papers on board
- Weathersuitable
- Baggageweighed, stowed, tied
- Weight and C.G.within limits
- Navigation.....planned
- Charts and navigation equipment on board
- Performance and range computed and safe

**N/R PREFLIGHT CHECK
INSIDE CABIN**

- Landing gear control.....DOWN position
- Avionics.....OFF
- Master switchON
- Landing gear lights3 GREEN
- Fuel quantity.....adequate plus reserve
- Cowl flaps.....OPEN
- Master switchOFF
- Ignition switchesOFF
- Mixture controlsidle cut-off
- Trim indicatorsneutral
- Flapscheck operation

- Controls.....free
- Pitot and static systems.....drain
- Empty seatsfasten belts
- Emergency exit.....closed and locked

OUTSIDE CABIN

- Fuel sump drains.....drain
- Right wing, aileron and flap..check, no ice
- Right main gearno leaks
- Strut.....proper inflation
- Tire.....check
- Right wing tipcheck
- Right leading edge.....check, no ice
- Fuel cap... open, check quantity and color,
..... secure
- Right engine nacellecheck oil
- Right propeller.....check
- Cowl flapsOPEN and secure
- Fuel drains.....drain
- Nose sectioncheck
- Nose gearno leaks
- Strut.....proper inflation
- Tire.....check
- Tow barremoved and stowed
- Landing light.....check
- Windshieldclean
- Left wing, engine nacelle and landing gear
.....check as on right side
- Stall warning vanescheck
- Pitot/static mastclear, checked
- Dorsal fin air scoopclear
- Empennagecheck, no ice
- Stabilatorfree
- Antennas.....check
- Navigation and landing lights.....check
- Baggage door.....secure and locked

C/R BEFORE STARTING ENGINE

- Preflight.....complete
- Passenger brief.....complete
- Seat/seat beltsadj/lock
- Parking brakesset
- Charts/Equip.....ready
- Avionics/Elect switches.....OFF
- Autopilot/fresh air fanOFF
- Circuit breakers.....check
- Fuel selectorsON
- Cowl flaps.....OPEN
- Carb heatOFF
- Mixturesrich, full fwd
- Props.....fwd
- ThrottlesClosed
- Alt static sourceOFF
- Master switchON
- Anti-collision lightsON
- Night ops/nav lgtsON
.....(dims gear lights)
- Fuel pumps/press.....ON
- Magnetos.....ON

C/R STARTING ENGINES

Cold engine/throttle2 strokes
Hot engine/throttle1 stroke
Primerslocked
Propeller areaclear
Starter switchto start
Throttle1000 rpm
Oil pressurewithin 30 sec
AlternatorON
Ammetercheck
Vac gaugecheck
Fuel pumpOFF
Mixturelean

Repeat for opposite engine

C/R BEFORE TAXI

Clocks/timersset and check
Avionics/masterON
GPSpauseOKENT
Annunciator paneltest
Atis/clearancesas required
Nav/Special EquipON/test
Freqs/coursesset
Transpondercode set/stby
GPSset
Altimeterset
Gyro/flight instrset
Def/Cabin heatcheck
Brakes(both sides)release/test

C/R DURING TAXI

Fuel sel'scheck x-feed, ON
Flight insts Alt Static Sourcecheck/OFF
Magnetic compassfluid full,
.....swings freely, $\pm 10^\circ$
Airspeed indicatoron zero
Attitude indicatorset,
.....max prec 5° in turns
Turn Coordinator shows turns, race full, ball free
Directional Gyroset to compass,
.....shows turns
VSIindicates zero

C/R BEFORE TAKEOFF/ RUN UP

Brakesset (nosewheel straight)
Throttles1000-1200 rpm
Fuel sel'sON
Primerscheck locked
Avionics/Chartsprepared
Flight inst'scheck/set

Run up

Mixturesrich
Throttles1500 rpm
Featheringcheck (max 500 rpm)
Throttles2000 rpm
Propscheck governor
Carb heatcheck OFF
Mag Dropcheck (max 175/ ± 50 L-R)
Eng/Vac gaugescheck
Alternatorscheck
Circuit breakerscheck
Mixturesfor density alt
Throttles800-1000 rpm
Controlsfree & correct
Cowl flapsOpen
Flapsset 0° / 25° check
Trimselec on/ set for t/o
Int/Ext lightsset
Pitot heatas req
Autopilot/fresh air fanOFF
Seats/beltssecured

Take off

Anti-Coll lightsON
Fuel PumpsON
TransponderON/ALT (Code set)
MixturesSet for t/o
Door / WindowLatched
Parking Brakereleased
T/O TimeNote as req
Flight controlsfor wind
Self briefpower loss
Trafficcheck
Contact towercheck

V/R CLIMB

(when established on a heading,
not while in a turn)

Airspeed88 (enroute 105)
Power25" MP/2500 rpm
Landing gearUP
FlapsUP
Cowl Flapsopen as req
Carb heatOFF
MixturesRich
Int/Ext lightsas req

V/R CRUISE

Power setsee visor guide
Cowl flapsclosed/as req
Fuel pumps (one at a time)OFF
.....(check pres)
MixturesLean
Flight inst'sset as req
Gauges/breakersscan

C/R APPROACH

ATIS/AWOSacquire
Flt & Nav instrumentsset/ident
Altimeterset
Headingset
Approach Briefingcomplete
Fuel selectorsON
MixturesEnrich as req
Fuel pumpsON
Landing lightON
Cowl flapsClosed
Parking BreakOFF
Airspeed110 knots

C/R GEAR DOWN BEFORE LANDING

Gear3 green
Fuel selectorsON
FlapsVFE-111 knots / set
MixturesFwd
PropsFwd
Fuel pumpsON
Seat/beltssecured
Int/Ext lightsset
Autopilot/fresh air fanOFF

OUT OF 1000' AGL

G = Gas
U = Undercarriage
M = Mixtures
P = Props forward
F = Flaps set
S = Speed/ blue line

AT 400' AGL CHECK

Gear down • Stabilized • Wind direction

V/R AFTER LANDING

FlapsUp
Cowl flapsOpen
Carb heatOFF
Fuel pumpsOFF
Pitot heatOFF
Transponderstby or OFF (set 1200)
MixturesLean for taxi
Trimsreset neutral
Landing lightsas req/OFF

V/R SHUTDOWN

Throttles1000-1200 rpm
UNICOMcall for fuel
Avionics (master)OFF
Elec SW's / fresh air fanOFF
Mixturesidle cutoff
MagnetosOFF
AlternatorsOFF
Master switchOFF

V/R SECURING

Logs/Squawksnote as req
Controls/windowsecure
Belongingsremove
Master switchverify OFF
Lock/chocks/tieas req

DEAN INTERNATIONAL INC.

305-259-5611

Web: <http://www.flymiami.com>

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