

N9699G 1974 182P Checklists

(Develop your own. For N9699G and POH)

(Formatted for Sony e-reader)

Before Start

Seat Belts

Fuel Select: both

Trim for takeoff

Mag, Master, Radio Master off

Circuit Breakers ok

Brakes on

Engine Start (Carburated)

Mixture Rich

Carb Heat off

Master on

Prime if cold (2-6)

Throttle 1/8 “

Area Clear, Mag Start

Check: oil pressure

700 RPM

Align DG

Avionics master on

Lean for taxi

Cowl Flaps open

PreTakeoff (CIGAR)

Controls fullthrow

Instruments set

(Radios, Beacon)

Gas both

Attitude: Trim set for takeoff, flaps

Cowl Flaps open

Run-up 1700 rpm

Lean if high altitude

prop (check rpm,oil,mp)

mag 125 max drop,

carb heat

oil press, vacuum, Alt chk

Alternate vacuum, static

Seat belts, Door

PreTakeoff (Lights, camera, action)

Lights: on,

Camera: Transponder on

Action: Flaps 10-20 degrees

Lift nose 60mph

Climb at 80-90mph,

60mph until obstacle clear

PreLanding (LCGUMPS)

Landing light on

Carb Heat, Cowl Flaps

Gas selector, gas indicator check

Undercarriage: none

Mixture: enrichen for full power for go-around

Power RPM around 1800, Prop forward, MP, flaps

Seatbelts, safety check

After Landing

Flaps up

Transponder Standby, landing light off

Cowl Flaps open, Carb Heat off

Shutdown (SLIM)

Switches (all electrics, but master)

Lean

Ignition off

Master off

Control Lock, Fuel Left Side on 182

Cruise (LCGUMPS)

Landing light off
Cowl Flaps closed
Gas selector, indicator check
Undercarriage: none
Mixture: Lean appropriately
Prop, MP as desired, no flaps
Seatbelts/Safety check

Speeds (mph) 1974 182P

Vrot	63, 20°
Vx	70 2600rpm
Vy	90, 85 at 10,000
Land	70-80
Balked	63
Short TO	60 2600rpm, 20° flaps
Short Land	70
Glide	80

N9699G Stall Speeds w/ Stol kit

20° flaps:	55 Horn, 45 break
40° flaps:	50 Horn, 40 break

Leaning

EI UBG-16 Leaning Operation

Mode switch right until “Lean” indication

½ turn lean, wait 5 seconds

Repeat until “Peak”

Warning blinks

Peaked cylinder will blink

Step switch right

Mode switch left

½ turn rich, wait 5 seconds

Repeat until “Peak – 100”

Use 10 degrees C Carb temp

16” 2450 51%hp Any ROP or LOP

18” 2450 58%hp Any ROP or LOP

20” 2450 67%hp 100 ROP

22” 2450 72%hp 125 ROP

23” 2450 78%hp 180 ROP

19” 2300 58%hp Any ROP or LOP

(verify RPM gauge with optical Tach, many are off)

During Climb and Touch & Goes

Full Rich or (1300EGT or lower)

Taxi:

Lean aggressively

Red Box for Leaning

At about 65% power or so, 100°F ROP to Peak.

At about 70%, 125°F ROP to 25°F LOP.

At about 75%, 180°F ROP to 40°F LOP.

At about 80%, 200°F ROP to 60°F LOP.

(On most of these engines, with a properly set mixture at full rich, at sea level, full power, the EGT ends up at about 250°F ROP, with some as high as 300°F ROP.)

Autopilot

Stec 55 Operation

HDG+NAV, HDG+APR, HDG+REV

Intercept angle different than 45

Keep Heading bug on desired intercept

Until HDG symbol goes out

ALT One extra time to force intercept GS

After APR+ALT already active

GS symbol blinks

NAV One extra time while in APR mode

Stops glideslope intercept.

GS symbol will flash.

ALT symbol stays on.

Autopilot Stec 55 Vertical Preselect

MAN disable box

ALR altitude alert

ALT current Altitude,
press again for preselect value

DATA, DH, rotate, DATA,
Decision height warn

DATA, BAR, rotate, DATA
New altimeter setting

DATA, ALT, rotate, DATA
New preselect

VS+ALT on main Autopilot
to activate preslect

VS on main Autopilot, rotate on Preselect
To set vertical speed.

Emergency

Engine Failure (ALARMS)

Airspeed: 80mph

Location to land

Air restart

(Carburated)

Prop high

Carb Heat

Fuel select full tank or other tank

Mixture: rich

Throttle: ¼

Mag: Start if not windmilling

Try only one mag

Radio set 121.5 or local frequency, 7700 Transponder

Mayday

Secure

Mag off

Mixture cutoff

Fuel select off

Master off just before landing

Open Door

Engine Fire in Air

Mixture: off

Fuel: off

Master: off

100Mph

Heat, Fresh Air off

Speed to put out fire

Land

Engine Fire on Ground

Continue cranking

If start, run Engine at 1700 for a few minutes

If no start, crank for 2-3 minutes throttle open

2nd person get extinguisher

When ready,

stop starter, master, ignition, fuel selector.

Extinguish and smother flames

Inspect for damage

Electrical Fire

Master off, vents off

Other switches off (except ignition)

Check circuit breakers

Master Switches on

Select switches on successively slowly

Open vents only after fire fully out

Excessive Rate of Charge

Turn off both sides of Master

Turn on both sides of Master

If not ok, turn off Alternator side of master

Reduce avionics that is on

Preflight

Some numbers

Oil Check: 182: 9-12 qts

Tire Pressure:

Main: 42psi

Front: 49psi

Strut: 55-60psi

N9699G Weight & Balance

1847 Empty

2950 Gross

474 Max fuel

628 Max load with full fuel

Ste 55 Autopilot preflight

HDG+VS

CWS

VS rotate cw, yoke out

VS rotate ccw, yoke in

AP disconnect

HDG

Bug left, then right

Alt

Push yoke, watch trim

Pull yoke, watch trim

Miscellaneous

Flight Plan

IFR, VFR

*Aircraft ID

*Plane Type/transponder: C182/G

Airspeed: 120knots

Departure point

Departure time

Altitude

Route of flight

*Destination

Time en-route

Remarks

Fuel on Board

Alternate Airport

Pilot Name, Phone number, home base

People on Board

Color of plane

Pirep

Nearest Airport/VOR

Time if not now

Altitude/ direction of flight

Aircraft Type

Clouds

Visibility

Temperature

Wind dir/speed

Turbulence

Icing

Wind Sheer (knots loss/gain)

Destination

Weather

Tailwind: better weather to right

Headwind: better weather to left

Standard Lapse 2C 3.5F

High Pressure- clockwise and out in North Hemisphere

Cold or Low look out below

VFR

Class C,D,E below 10,000:

3 Mile Vis, 1000 above, 500 below, 2000 beside

Class E above 10,000:

5 Mile Vis, 1000 above, 1000 blw, 1 mile beside

0-179 Odd Thousands+500

180-359 Even Thousands+500

MST +7 hr, MDT +6 hr

Light Signals

Steady G:	Takeoff	Land
Flashing G:	Taxi	Return to Land
Steady R:	Stop	Give way/circle
Flashing R:	Taxi off	Do not land
Flashing W:	Return	-
Alternating RG:	Caution	Caution

Intercept Procedures

Interceptor	Meaning	You	Meaning
Rocks wings, slow turn to desired direction	Turn this direction	Rock wings	Understand
Abrupt climbing 90° turn away	You may proceed	Rock wings	Understand
Circles airport, lowers gear, overflies runway	Land at this airport	Lower gear, land	Understand

You	Meaning	Interceptor	Meaning
Raise gear while overflying runway 1000' AGL, flash lights	Airport not ok	Goes to other airport	Understand
Flash lights regular intervals	Cannot comply	Abrupt climbing 90° turn away	Understand
Flash lights irregular intervals	In distress	Abrupt climbing 90° turn away	Understand

Altimeter/Compass Errors

ANDS- accelerate- north, decelerate- south

Heading North – Compass lags turns by latitude

Heading South – Compass leads turns by latitude

SPOT

ON: push on button, wait 2 seconds

OFF: push on button for 3 seconds

911: push 911 button for 2 seconds

911 off: push 911 button for 3 seconds

Help: push Help button for 2 seconds

Help off: push Help button for 3 seconds

OK: press Ok button briefly

Tracking: press Ok button for 5 seconds

Tracking off: press ok for 3 seconds

Do OK once before and after Tracking

Wait for OK light to stop blinking before track

Frequencies/Transponder

- 122.0 Enroute Flight Advisory: weather (xxx FlightWatch)
 - 122.2 FSS- weather, flight plans (xxx Radio)
 - 121.5 Emergency
 - 122.8 Multicom for airports without Unicom/CTAF
 - 122.1 Receive Only for FSS
 - 122.75 Plane to plane
 - 122.85 Plane to plane
 - 121.7,.8,.9 Ground
 - 122.7 BDR
 - 122.75 FNL
 - 122.975 LMO (AWOS 120.0)
-
- 1200 VFR
 - 7500 Hijack
 - 7600 Radio Failure
 - 7700 Emergency
 - 0000, 7777 Do not use

Mnemonics

WRIMTIM

weather, radio comms and navs, instruments, missed approach point, time, inbound course, minimum altitude

UNOS

undershoot north, overshoot south (by latitude for standard rate turn)

ANDS

accelerate north, decelerate south

ALARMS

airspeed, landing site, air restart, radios, mayday, secure plane

ARROW

air worthiness, registration, radio certificate (only outside US now), owners manual, weight/balance

TTTTT

turn, time, twist, throttle, talk

CRAFT

cleared to, route, altitude, frequency, transponder

CIGAR

controls, instruments, gas, attitude (trim and flaps), runup

LCGUMPS

Landing light, carb heat/cowl flaps, gas, undercarriage, mixture, prop/power, safety

SLIM

switches, lean, ignition off, master off

PARE

power, aileron, rudder, elevator

TOMATOFLAMES

tach, oil press, manifold press, altimeter, temp, oil pressure, fuel gauge, landing gear position, air speed, magnetic compass, elt, seat belts

FLAPS night time equipment

fuses, landing light (if for hire), anticollision lights, position lights, source of electricity

GRABCARD ifr equipment

generator, radios, attitude indicator, ball, clock, adjustable altimeter, rate of turn indicator, directional gyro

IMSAFE

illness, medication, stress, alcohol, fatigue, eating

RAWFAT (preflight requirements)

runway lengths, alternates, weather, fuel requirement, atc delays, takeoff/landing distance data

CCCC (Missed approach start)

cram it, clean it, cool it, call it

AVEF (IFR route for lost comms)

assigned, vectored, expected, filed

MEA (IFR altitude for lost comms)

minimum, expected, assigned