



PIPER SEMINOLE CHECKLIST



Revised 10 May, 2017

AIRSPEEDS FOR NORMAL OPERATIONS

<u>V-Speed</u>	<u>KIAS</u>
V _{SO}	55
V _{MC}	56
V _S	57
V _R	75
V _X	82
V _{XSE}	82
V _{SSE}	82
V _Y	88
V _{YSE}	88
V _{LO (UP)}	109
V _{FE}	111
V _{LO (DOWN)}	140
V _{LE}	140
V _{NO}	169
V _{NE}	202
V _A (3800 LBS).....	135
V _A (2700LBS).....	112
V _{APP} (Flaps 25°).....	100
Maximum Demonstrated Crosswind.....	17

AIRCRAFT DATA

Maximum Takeoff Weight.....	3800 lbs.
Maximum Baggage Weight.....	200 lbs.
Total Fuel.....	110 Gal.
Useable Fuel.....	108 Gal.
Oil Capacity.....	.6 Qts.
Oil Minimum (Skywarrior Policy).....	4.5 Qts.

POWER SETTINGS

	<u>MP/RPM</u>
Take Off.....	FULL
Climb.....	25/25
Cruise.....	21/24
Maneuvers.....	18/24
Steep Turns.....	21/24
Stalls.....	15/Full
Descent.....	20/24
Approach.....	17/Full

This information constitutes only partial information and should not be substituted for the manufacture's aircraft manual.

PREFLIGHT INSPECTION

PREFLIGHT ACTIONS

1. WEATHER CHECK
2. EQUIPMENT REQUIRED CHECK
3. FUEL AS REQUIRED
4. OIL 6-4 Qt. (SW 4.5 Qt. Min) CHECK
5. PITOT HEAT CHECK (if IFR)
6. WT & BAL COMPUTE
7. T/O DISTANCE COMPUTE
8. LANDING DISTANCE COMPUTE
9. SE RATE OF CLIMB COMPUTE
10. SE SERVICE CEILING COMPUTE

INTERIOR

1. A/C DOCUMENTS CHECK
2. FIRE EXT CHECK
3. PARKING BRAKE SET
4. FUEL SELECTOR ON
5. ELEVATOR TRIM SET
6. RUDDER TRIM SET
7. FLAPS DOWN (40°)
8. COWL FLAPS OPEN
9. PRIMERS LOCKED
10. CARB HEAT OFF
11. MIXTURES ICO
12. PROPS FORWARD
13. THROTTLES CLOSED
14. MAGNETOS & ALL SWITCHES OFF
15. LANDING GEAR LEVER DOWN
16. LANDING GEAR EMER EXT SECURE
17. EMER EXIT CLOSED & LOCKED
18. PITOT STATIC DRAIN/CHECK
19. BATTERY MASTER SWITCH ON
20. LDG GEAR LTS 3 GREEN/CHECK
21. LIGHTS CHECK
22. FUEL GAUGES QTY CHECK
23. ANNUNCIATOR PANEL CHECK
24. HEATER OVRHT LT CHECK
25. BATTERY MASTER SWITCH OFF
26. FLIGHT CONTROLS CHECK
27. AILERONS FULL DEFLECTION

PREFLIGHT INSPECTION

EXTERIOR

1. FUEL SUMP DRAIN
2. RT WING (REAR, TIP, FRONT) CHECK
(Do not touch aileron. Control position allows for visual inspection without manually moving aileron)
3. RT ENG, NACELLE, FUEL, OIL CHK
4. RT GEAR (TIRE 55 PSI; STRUT @ 2.6") CHECK
5. NOSE SECTION CHECK
6. NOSE GEAR (TIRE 55 PSI; STRUT @ 2.7") CHECK
7. CHOCKS REMOVE
8. LFT ENG, NACELLE, FUEL, OIL CHECK
9. LEFT GEAR (TIRE 55 PSI; STRUT @ 2.6") CHECK
10. LEFT WING (FRONT, TIP & REAR) CHECK
11. LEFT FUSELAGE CHECK
12. EMPENNAGE CHECK
13. VERT/HORZ STABILIZER CHECK
14. RT FUSELAGE & BAGGAGE DOOR CHECK
15. FLAPS UP

BEFORE STARTING ENGINE

1. PASSENGER BRIEF

DOOR
EMERGENCY EXIT
SEATS & SEATBELTS
FIRE EXTINGUISHER
TALKING/TRAFFIC
PIC (POSITIVE EXCHANGE OF THE FLIGHT CONTROLS)

2. SEATS/SEAT BELTSFASTENED
3. AVIONICS MASTEROFF
4. LEFT SUB PANEL SWITCHESOFF
5. CIRCUIT BREAKERS CHECK
6. FUEL SELECTORS..... ON
7. COWL FLAPSOPEN
8. CARB HEATOFF
9. MIXTURES RICH/FULL FWD
10. PROPS FULL FWD
11. THROTTLES CLOSED
12. ANTICOLLISION/BCN ON
13. NAV/LIGHTS (NIGHT ONLY) AS REQ
14. ALTERNATORS ON
15. BATT MASTER SWITCH ON
16. FUEL PUMPS..... ON/CHECK
17. MAGNETOS ON

FIRST ENGINE START (LEFT)

1. PRIME (COLD ENGINE)4-6 STROKES
2. PRIMERIN/LOCKED
3. THROTTLE 2 FULL STROKES
4. THROTTLE CLOSED
5. BRAKES..... HOLD
6. PROP AREA CLEAR
7. STARTER (30 SEC MAX)ENGAGE
8. THROTTLE 1000 RPM
9. OIL PRESSURE.....CHECK
10. 1ST ENG FUEL PUMP OFF
11. 1ST ENG MIXTURE LEAN (RPM RISE)
12. THROTTLE 1000 RPM
13. AMMETERCHECK
14. VACUUM.....CHECK

SECOND ENGINE START

1. AMMETER (VERIFY BELOW 20 AMPS)CHECK
2. PRIME (COLD ENGINE) 4-6 STROKES
3. PRIMER IN/LOCKED
4. THROTTLE 2 FULL STROKES
5. THROTTLECLOSED
6. BRAKESHOLD
7. PROP AREACLEAR
8. STARTER (30 SEC MAX) ENGAGE
9. THROTTLE 1000 RPM
10. OIL PRESSURECHECK
11. 2ND ENG FUEL PUMP OFF
12. 2ND ENG MIXTURELEAN (RPM RISE)
13. THROTTLE 1000 RPM
14. AMMETERCHECK
15. VACUUM CHECK

AFTER START

1. AVIONICS MASTER ON
2. REC/BLOW FAN.....AS REQ
3. HEATERAS REQ
4. ANNUNCIATOR PANEL..... TEST
5. GPS..... SET
6. COMMS SET
7. ALTIMETER SET
8. NAV SET COURSE
9. FLIGHT INSTCHECK
10. TRANSPONDER SET CODE/ALT

TAXI

1. BRAKESTEST
2. FLIGHT INST (TC/HSI/VSII/ALT/AI/AS) CHECK

RUN UP

1. PARKING BRAKESET
2. FLT CNTRLSFREE/CORRECT
3. FUEL SELECTORS ON
4. MIXTURESRICH
5. PROPS FULL FWD
6. THROTTLES..... 1500 RPM
7. PROP FEATHER (500 RPM MAX DROP)CHECK
8. THROTTLES..... 2000 RPM
9. PROP EXERCISE x 3
10. PROP 1800 RPM
11. THROTTLES (+1/-1"MP)CHECK RPM
12. PROPS FULL FWD
13. CARB HEATCHECK
14. MAGNETOS (175 MAX/50 DIFF)CHECK
15. ALT LOAD SHIFTCHECK
16. ENGINE GAUGES.....CHECK
17. VACUUM (4.8"-5.2" Hg)CHECK
18. ANNUNCIATOR PANEL.....CHECK
19. THROTTLES..... 1000 RPM
20. MIXTURES LEAN

PRE-TAKEOFF BRIEF

Engine failure or abnormality prior to rotation:

- Abort takeoff - Throttles immediately closed
- Brake as required - Stop straight ahead

If not enough runway to stop:

- Mixture to cutoff
- Fuel selectors, Magnetos, & Battery Master Off
- Maintain directional control, avoid obstacles

Engine failure after rotation with gear down & sufficient runway remains for a complete stop:

- Maintain directional control
- Throttles immediately closed
- Land straight ahead, brake as required

Engine failure after rotation with gear up and decision made to continue:

- Maintain directional control/Pitch Attitude/Airspeed
- Mixtures, Props, Throttles Full Forward
- Flaps and Gear Up
- Identify with dead foot, Verify by closing the throttle
- Feather Prop
- Mixture to cutoff
- Climb at 88 KIAS/Blueline
- Declare an Emergency and Land

BEFORE TAKEOFF

1. FLT INSTCHECK
2. FUEL GAUGES/QTYCHECK
3. FUEL SELECTORS ON
4. TRIM SET
5. FLAPS.....AS DESIRED
6. COWL FLAPS..... OPEN
7. CARB HEAT OFF
8. COMM/NAV SET
9. PROPS FULL FWD
10. ENG INSTCHECK
11. SEATS, BELTS & HARNESS FASTENED
12. DEPARTURE BRIEFCOMPLETE

LINE UP

1. DOOR/WINDOWS.....SECURE
2. LNDG LIGHT ON
3. FUEL PUMPS..... ON
4. MIXTURES RICH
5. TRANSPONDER VERIFY ALT

TAKEOFF (ON RUNWAY)

1. HEADING CHECK
2. BRAKES HOLD
3. THROTTLES2000 RPM
4. ENG INSTR CHECK
5. BRAKES RELEASE
6. THROTTLES FULL POWER
7. ROTATE 75 KTS (NORMAL TO)

AFTER TAKEOFF

1. GEAR UP
2. FLAPS UP
3. COWL FLAPSAS REQ

CLIMB (ABOVE 1000' AGL)

1. POWER (MP DECREASES 1"/1K ALT)...25" MP/25RPM
2. AIRSPEED..... 105 KTS
3. LDG LTOFF
4. FUEL PUMPS.....OFF

CRUISE

1. POWER (21" MP/2400 RPM)..... SET
2. MIXTURE LEAN AS REQ
3. COWL FLAPSAS REQ
4. ENG INSTCHECK

APPROACH

1. ATIS/AWOSCHECK
2. ALTIMETER SET
3. HSI CHECK/SET
4. FUEL SELECTORSON
5. FUEL PUMPSON
6. LDG LTON
7. APPROACH BRIEF COMPLETE
8. FLT/NAV INST (GPS/VLOC)..... SET
9. AIRSPEED100 KTS
10. COWL FLAPSAS REQ

BEFORE LANDING

1. GAS/FUEL PUMPS..... ON
2. UNDER CARRIAGE..... DOWN
3. MIXTURE..... RICH
4. PROPS..... FULL FWD
5. SEATS/BELTS/HARNES..... SECURE

AFTER LANDING

1. FLAPS UP
2. COWL FLAPS OPEN
3. MIXTURE LEAN
4. HEATER SWITCH (IF USED)..... FAN
5. LDG LT OFF
6. FUEL PUMPS OFF

SECURING

1. THROTTLES 1000 RPM
2. AVIONICS.....OFF
3. HEATER SWITCH.....OFF
4. REC/BLOW FANOFF
5. MAGNETOSGROUNDING CHECK
6. MIXTURES ICO
7. LEFT SUBPANEL SWITCHES.....OFF
8. TRANSPONDER LEAVE IN ALT
9. WINDOW CLOSE
10. FLIGHT CONTROLS SECURE
11. SUNSCREENS..... INSTALL
12. TIE DOWNS/CHOCKS..... INSTALL
13. WALKAROUND COMPLETE

ENGINE FAILURE DURING TAKEOFF

BEFORE ROTATION SPEED

1. THROTTLES..... CLOSED
2. BRAKES.....APPLY

INSUFFICIENT RUNWAY FOR COMPLETE STOP

1. MIXTURES..... ICO
2. FUEL SELECTORS OFF
3. MAGNETOS OFF

AFTER ROTATION SPEED & SUFFICIENT RUNWAY REMAINS FOR COMPLETE STOP

1. THROTTLES..... CLOSE

LAND & STOP STRAIGHT AHEAD

*IF GEAR IS IN TRANSIT OR UP & DECISION MADE TO CONTINUE
PERFORM IN-FLIGHT ENGINE FAILURE CHECKLIST*

ALTERNATOR LIGHT ILLUMINATED

1. AMMETERS.....CHECK
2. REDUCE ELECTRICAL LOAD.....AS REQ
3. BOTH ALTERNATORS OFF
4. CIRCUIT BREAKERS.....CHECK
5. EACH ALTERNATOR..... ON 1 AT A TIME
6. AMMETERS.....CHECK
7. ELECTRICAL LOADAS REQ

IN-FLIGHT ENGINE FAILURE

(AFTER TAKEOFF)

MAINTAIN DIRECTIONAL CONTROL / PITCH
ATTITUDE / AIRSPEED

1. MIXTURES..... FULL FWD
2. PROPS..... FULLFWD
3. THROTTLES..... FULL FWD
4. FLAPS..... UP
5. LANDING GEAR..... UP
6. IDENTIFY..... DEAD FOOT
7. VERIFY/THROTTLE..... CLOSED
8. PROP INOP ENG..... FEATHER
9. MIXTURE INOP ENG..... ICO
10. CLIMB..... 88 KTS/BLUELINE
11. COMM..... DECLARE
12. LAND..... ASAP

ENGINE FIRE IN-FLIGHT

1. FUEL SELECTOR (AFFECTED ENG)..... OFF
2. THROTTLE (AFFECTED ENG)..... CLOSE
3. PROP (AFFECTED ENG)..... FEATHER
4. MIXTURE (AFFECTED ENG)..... ICO
5. COWL FLAP (AFFECTED ENG)..... OPEN
6. ENG FAIL SECURE CHKLST..... COMPLETE

IF FIRE PERSISTS

7. AIRSPEED..... INCREASE (UP to V_{ne} 202 kts)
8. LAND..... ASAP

ELECTRICAL FIRE

9. MASTER SWITCH..... OFF
10. ALTERNATORS..... OFF
11. ALL ELEC SWITCHES..... OFF
12. AVIONICS MASTER..... OFF
13. VENTS..... CLOSED
14. CABIN HEAT..... OFF
15. LAND..... ASAP

EMERGENCY DESCENT

1. THROTTLES..... CLOSED
2. PROPS..... FULL FWD
3. LANDING GEAR..... DOWN
4. MAINTAIN (120 KTS FOR SW TRAINING)..... 140 KTS
5. ATC..... NOTIFY

IN-FLIGHT ENGINE FAILURE

MAINTAIN DIRECTIONAL CONTROL / PITCH
ATTITUDE / AIRSPEED

1. MIXTURES..... FULL FWD
2. PROPS..... FULLFWD
3. THROTTLES..... FULL FWD
4. FLAPS..... UP
5. LANDING GEAR..... UP
6. IDENTIFY..... DEAD FOOT
7. VERIFY/THROTTLE..... CLOSED

IF ABOVE 3,000 FEET AGL, TROUBLESHOOT

8. THROTTLE..... 1"
9. FUEL PUMPS..... ON
10. MAGNETOS..... ON/CHECK
11. FUEL SELECTORS..... ON
12. CARB HEAT..... ON/CHECK/OFF
13. FUEL QTY/PRESSURE..... CHECK
14. OIL PRESSURE/TEMP..... CHECK

IF ENGINE INOP CONTINUE CHECKLIST & ACCOMPLISH ENGINE FAILURE SECURE CHECKLIST

15. PROP (INOP ENG)..... FEATHER (ABOVE 950 RPM)
16. MIXTURE (INOP ENG)..... ICO

ENGINE FAILURE SECURE

1. MAGNETOS (INOP ENG) OFF
2. FUEL PUMP (INOP ENG) OFF
3. ALTERNATOR (INOP ENG) OFF
4. FUEL SELECTOR (INOP ENG) OFF
5. COWL FLAP (INOP ENG) CLOSED
6. FAN OFF
7. CRUISE CHECKLIST COMPLETE

MANUAL GEAR EXTENSION

1. NAV LIGHTS OFF
2. CIRCUIT BREAKERS CHECK
3. MASTER SWITCH CHECK ON
4. AMMETERS CHECK
5. AIRSPEED 100 KTS MAX
6. GEAR DOWN
7. EMER EXT KNOB PULL
8. INDICATOR LTS 3 GREEN

LEAVE EMERGENCY KNOB OUT AND CHECK

AIRSTART

1. GARMIN 430 OFF
2. FUEL SELECTOR (INOP ENG) ON
3. FUEL PUMP (INOP ENG) ON
4. PROP (INOP ENG) FULL FWD
5. MIXTURE (INOP ENG) FULL FWD
6. THROTTLE (INOP ENG) CYCLE X 2
7. MAGNETOS (INOP ENG) ON
8. CARB HEAT (INOP ENG) OFF
9. AIRSPEED 100 KTS/120 KTS (IF NECESSARY)
10. STARTER ENGAGE

WHEN ENGINE BEGINS TO RUN

11. THROTTLE REDUCE TO 15" MP

MAINTAIN 15" MP UNTIL CHT IS IN THE GREEN AND PERFORM

CRUISE CHECKLIST

12. ALTERNATOR (INOP ENG) ON
13. GARMIN 430 ON

EMERGENCY EGRESS

1. MIXTURES ICO
2. FUEL SELECTORS OFF
3. FUEL PUMPS OFF
4. MASTER SWITCH OFF
5. PARKING BRAKE SET

*CONSIDERING CONDITIONS, EXIT THROUGH MAIN ENTRY DOOR
OR EMERGENCY EXIT*

EMERGENCY EXIT

6. PLASTIC COVER REMOVE
7. EMER EXIT HANDLE PULL FWD
8. WINDOW PUSH OUT

PROP OVERSPEED

1. THROTTLE RETARD
2. OIL PRESSURE CHECK
3. PROP DECREASE

(DO NOT FEATHER. SET RPM IF ANY CONTROL)

4. AIRSPEED REDUCE
5. THROTTLE (BELOW 2700 RPM) AS REQ
6. ENG SHUTDOWN IF NECESSARY

SPIN RECOVERY

1. THROTTLES CLOSE
2. RUDDER OPPOSITE DIR OF SPIN
3. CONTROLS RELEASE BACK PRESS
4. CONTROLS FULL FWD
5. AILERONS NEUTRAL
6. RUDDER NEUTRAL
7. RECOVERY INPUT SMOOTH

ENGINE OVERHEAT

1. COWL FLAPS.....OPEN
2. MIXTURE..... RICH
3. POWER..... REDUCE
4. AIRSPEED..... INCREASE

ENGINE ROUGHNESS

1. CARB HEAT ON
2. MIXTURE ADJ FOR SMOOTHNESS
3. FUEL PUMP ON
4. ENGINE GAUGES.....CHECK
5. MAGNETOSCHECK

FUEL CROSSFEED

1. FUEL PUMP (OPERATING ENG) ON
2. FUEL SELECTOR (OPERATING ENG)...X-FEED
3. FUEL PRESSURE (OPERATING ENG) .. CHECK
4. FUEL PUMP (OPERATING ENG)OFF
5. FUEL PRESSURE (OPERATING ENG) .. CHECK

NOTE

When one engine is inoperative and the fuel selector for the operating engine is in X FEED the selector for the inoperative engine must be in the OFF POSITION. Do not operate with both selectors in X FEED. Do not take off with a selector in X FEED.

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