



## PIPER SEMINOLE CHECKLIST



Revised 06 May, 2021

### AIRSPEEDS FOR NORMAL OPERATIONS

<u>V-Speed</u>	<u>KIAS</u>
V <sub>SO</sub> .....	55
V <sub>MC</sub> .....	56
V <sub>S</sub> .....	57
V <sub>R</sub> .....	75
V <sub>X</sub> .....	82
V <sub>XSE</sub> .....	82
V <sub>SSE</sub> .....	82
V <sub>Y</sub> .....	88
V <sub>YSE</sub> .....	88
V <sub>LO (UP)</sub> .....	109
V <sub>FE</sub> .....	111
V <sub>LO (DOWN)</sub> .....	140
V <sub>LE</sub> .....	140
V <sub>NO</sub> .....	169
V <sub>NE</sub> .....	202
V <sub>A (3800 LBS)</sub> .....	135
V <sub>A (2700LBS)</sub> .....	112
V <sub>APP (Flaps 25°)</sub> .....	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 BELTS .....FASTENED
3. AVIONICS MASTER ..... OFF
4. LEFT SUB PANEL SWITCHES ..... OFF
5. CIRCUIT BREAKERS..... CHECK
6. FUEL SELECTORS..... ON
7. COWL FLAPS..... OPEN
8. CARB HEAT ..... OFF
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. PRIMER..... IN/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. 1<sup>ST</sup> ENG FUEL PUMP..... OFF
11. 1<sup>ST</sup> ENG MIXTURE..... LEAN (RPM RISE)
12. THROTTLE..... 1000 RPM
13. AMMETER.....CHECK
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. THROTTLE.....CLOSED
6. BRAKES ..... HOLD
7. PROP AREA..... CLEAR
8. STARTER (30 SEC MAX)..... ENGAGE
9. THROTTLE..... 1000 RPM
10. OIL PRESSURE ..... CHECK
11. 2<sup>ND</sup> ENG FUEL PUMP ..... OFF
12. 2<sup>ND</sup> ENG MIXTURE ..... LEAN (RPM RISE)
13. THROTTLE..... 1000 RPM
14. AMMETER..... CHECK
15. VACUUM ..... CHECK

## AFTER START

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

## TAXI

1. BRAKES..... TEST
2. FLIGHT INST (TC/HSI/VSI/ALT/AI/AS) ..... CHECK

## RUN UP

1. PARKING BRAKE.....SET
2. FLT CNTRLs ..... FREE/CORRECT
3. FUEL SELECTORS..... ON
4. MIXTURES ..... RICH
5. PROPS..... FULL FWD
6. THROTTLES..... 1500 RPM
7. PROP FEATHER (500 RPM MAX DROP) ..... CHECK
8. THROTTLES..... 2000 RPM
9. PROP (rpm DOWN, mp UP, Oil down).....EXERCISE x 3
10. PROP ..... 1800 RPM
11. THROTTLES (+1/-1"MP) ..... CHECK RPM
12. PROPS..... FULL FWD
13. CARB HEAT ..... CHECK
14. MAGNETOS (175 MAX/50 DIFF) ..... CHECK
15. ALT LOAD SHIFT ..... CHECK
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 INST ..... CHECK
2. FUEL GAUGES/QTY ..... CHECK
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 INST ..... CHECK
11. SEATS, BELTS & HARNESS ..... FASTENED
12. DEPARTURE BRIEF ..... COMPLETE

## 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. THROTTLES ..... 2000 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 FLAPS ..... AS REQ

## CLIMB (ABOVE 1000' AGL)

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

## CRUISE

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

## APPROACH

1. ATIS/AWOS ..... CHECK
2. ALTIMETER ..... SET
3. HSI ..... CHECK/SET
4. FUEL SELECTORS ..... ON
5. FUEL PUMPS ..... ON
6. LDG LT ..... ON
7. APPROACH BRIEF ..... COMPLETE
8. FLT/NAV INST (GPS/VLOC) ..... SET
9. AIRSPEED ..... 100 KTS
10. COWL FLAPS ..... AS REQ

## BEFORE LANDING

1. GAS/FUEL PUMPS ..... ON
2. UNDER CARRIAGE ..... DOWN
3. MIXTURES ..... RICH
4. PROPS ..... FULL FWD
5. SEATS/BELTS/HARNESS ..... 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 FAN ..... OFF
5. MAGNETOS ..... GROUNDING 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 LOAD ..... AS 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<sub>ne</sub> 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. THROTTLE ..... CLOSED
16. PROP (INOP ENG) ..... FEATHER (ABOVE 950 RPM)
17. 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
8. DECLARE AN EMERGENCY ..... LAND

## MANUAL GEAR EXTENSION

1. NAV LIGHTS ..... OFF
2. CIRCUIT BREAKERS ..... CHECK
3. MASTER SWITC ..... 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. SWAP COMMS BEFORE SHUTTING off G430
2. GARMIN 430 ..... OFF
3. FUEL SELECTOR (INOP ENG) ..... ON
4. FUEL PUMP (INOP ENG) ..... ON
5. PROP (INOP ENG) ..... FULL FWD
6. MIXTURE (INOP ENG) ..... FULL FWD
7. THROTTLE (INOP ENG) ..... CYCLE x 2
8. MAGNETOS (INOP ENG) ..... ON
9. CARB HEAT (INOP ENG) ..... OFF
10. AIRSPEED ..... 100 KTS/120 KTS (IF NECESSARY)
11. STARTER ..... ENGAGE

### WHEN ENGINE BEGINS TO RUN

12. THROTTLE ..... REDUCE TO 15" MP

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

CHECKLIST

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

## 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

## 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

## 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. MAGNETOS ..... CHECK

## 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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