

BEFORE START

SET PARKING BRAKE PASSENGER BRIEFING COMPLETE SEATS ADJUST & LOCK SEATBELTS & HARNESSES **FASTEN** HEATER SWITCH OFF CIRCUIT BREAKERS CHECK IN **ELECTRICAL SWITCHES** OFF FRICTION HANDLE AS DESIRED **MIXTURES IDLE CUT-OFF PROPELLERS** FULL FORWARD **THROTTLES IDLE** GEAR SELECTOR **DOWN** CARBURETOR HEAT CONTROLS OFF **OPEN** COWL FLAPS FLAPS RETRACTED TRIMS (2) SET **FUEL SELECTORS** ON OFF AVIONICS MASTER SWITCH **EMERGENCY BATT** ARM EBATT VOLTS (23.3 or more) CHECK

ENGINE START

(For "Hot" & "Flooded" starts, ref; POH Section 4) BATTERY MASTER SWITCH ON **ALTERNATORS** ON GEAR LIGHTS 3 GREEN THROTTLES 1/4 INCH OPEN **PROPELLERS FULL FORWARD MIXTURES FULL RICH** AS REQUIRED **NAV LIGHTS** FIN STROBE ON

PROPELLER AREA CLEAR

* ELECTRIC FUEL PUMP	ON
* MAGNETOS	ON
* PRIMER	AS REQUIRED
* STARTER	ENGAGE
* THROTTLE	1000 RPM
* MIXTURE	ADJUST
* OIL PRESSURE	CHECK
* VOLTS	(28) CHECK
* AMPS	(Positive) CHECK

*REPEAT FOR OTHER ENGINE

AFTER START

EXTERNAL POWER SOURCE

BATTERY MASTER

FUEL SELECTORS

AVIONICS MASTER SWITCH

VERIFY REMOVED

VERIFY REMOVED

VERIFY REMOVED

(>30 sec) BOTH X-FEED

ON

Piper Seminole Normal Checklist

MFD DATABASE ACKNOWI FDGF FUEL TOTALIZER SYNC/SET (Left Engine) VERIFY TACH TIME **ANNUNCIATOR** (AUX - System Status page) TEST FLIGHT PLAN **BUILD & ACTIVATE** RADIOS, NAVS, & TRANSPONDER SET ATIS/ALTIMETERS COPY/SET ALTITUDE SELECTORS (2) SET CAS, PFD, & SYSTEM Annunc. & MSGs. **CONSIDER** STANDBY FLIGHT INSTRUMENT **CHECK FUEL SELECTORS** ON **ELECTRIC FUEL PUMPS** OFF

TAXI

PARKING BRAKE RELEASE
LANDING LIGHT ON
BRAKES & NOSE WHEEL STEERING CHECK
PRIMARY FLIGHT INSTRUMENTS CHECK
STANDBY FLIGHT INSTRUMENT CHECK

ENGINE RUNUP

PARKING BRAKE SET LANDING LIGHT OFF **MIXTURES FULL RICH** PROPELLER CONTROLS **FULL FORWARD** 1500 RPM **THROTTLES** PROPELLER CONTROLS CHECK FEATHER (MP-Increase, RPM-Decrease, Oil Pressure-Decrease) **THROTTLES** 2000 RPM **GOVERNOR** CHECK (Props-1900, MP-Increase 1-2", RPM-Maintained, MP-Decrease, Props-Full Forward)

CARBURETOR HEAT CONTROLS (2) CHECK MAGNETOS (Max drop 175, Max diff. 50) CHECK ALTERNATORS CHECK THROTTLES IDLE then 1000 MIXTURES ADJUST

BEFORE TAKEOFF

DEL OILE TITLE OIL	
FLIGHT CONTROLS	FREE & CORRECT
FLIGHT INSTRUMENTS	CHECK
ENGINE INSTRUMENTS	CHECK
FUEL QUANTITY	SUFFICIENT
PROPELLERS	FULL FORWARD
CARBURETOR HEAT CONTROLS	OFF
COWL FLAPS	OPEN
FLAPS	SET
TRIMS	(2) SET
FUEL SELECTORS	ON
CAS, PFD, & SYSTEM Annunc. & MSGs.	CONSIDER
TAKEOFF BRIEFING	COMPLETE

ELECTRIC FUEL PUMPS

DOOR & WINDOW

MIXTURES

PITOT HEAT

RECOG., LANDING, & STROBE LIGHTS

CLOSED & LATCH

FULL RICH

AS REQUIRED

ON

NORMAL TAKEOFF

BRAKES HOLD **THROTTLES** 2000 RPM **ENGINE INSTRUMENTS CHECK BRAKES RELEASE THROTTLES FULL POWER** ROTATE 75 KIAS **GEAR** (After Positive Rate) UP 88 KIAS CLIMB

SHORT FIELD TAKEOFF (Flaps 0°)

FLAPS SET **BRAKES** HOLD **THROTTLES** 2000 RPM **ENGINE INSTRUMENTS CHECK** THROTTLES **FULL POWER** BRAKES **RELEASE** ROTATE (MTOW) 70 KIAS CLIMB (MTOW) 82 KIAS **GEAR** (After Positive Rate) UP CLEAR OBSTACLE 88 KIAS

CLIMB (Above 800 AGL)

GEAR (Below 109) UP
AIRSPEED 105 KIAS
POWER (25" MP & 2500 RPM) SET
ENGINE INSTRUMENTS CHECK

CRUISE

ELECTRIC FUEL PUMPS (1 at a time) OFF **FUEL FLOW CHECK POWER** SET **PROPELLERS** SYNC **MIXTURES** LEAN **CHECK ENGINE INSTRUMENTS** LIGHTS AS REQUIRED COWL FLAPS AS REQUIRED

DESCENT

RECOG. LIGHTS ON POWER AS REQUIRED MIXTURES ADJUST WITH DESCENT



ALTITUDE SELECTORS (2) SET COWL FLAPS CLOSE

BEFORE LANDING

SEAT BACKS MOST UPRIGHT SEATBELTS & HARNESSES **FASTEN & SECURE** FUEL SELECTORS ON COWL FLAPS AS REQUIRED CARBURETOR HEAT CONTROLS AS REQUIRED **HEATER** AS DESIRED LANDING & RECOG. LIGHTS ON MIXTURES **FULL RICH PROPELLERS FULL FORWARD** (Below 140 KIAS) DOWN, 3 GREEN GEAR **ELECTRIC FUEL PUMPS** FLAPS AS REQUIRED (105 Downwind, 95 Base, 85 Final (75 short field @MLW)

* GUMPS VERIFY ON BASE AND FINAL *

AFTER LANDING (Clear of Runway)

RADIO SET **TRIMS** (2) SET **FLAPS** RETRACTED **COWL FLAPS OPEN** CARBURETOR HEAT CONTROLS OFF **MIXTURES ADJUST** FIN STROBE/STROBES & RECOG. ON/OFF PITOT HEAT OFF ELECTRIC FUEL PUMPS OFF

SHUTDOWN

PARKING BRAKE SET HEATER (If On) FAN 2 Min. then OFF LANDING LIGHT OFF FIT **MONITOR 121.5** TACH TIME (Left Engine) RECORD **AVOINICS MASTER** OFF **EMERGENCY BATTERY** OFF FANS (2) OFF **THROTTLES IDLE MAGNETOS CHECK MIXTURES IDLE CUT-OFF MAGNETOS** OFF LIGHTS OFF OFF ALTERNATORS & BATTERY MASTER STANDBY INSTRUMENT **VERIFY OFF** HOBBS TIME RECORD CONTROL LOCK **INSTALL** CHOCKS & PITOT-STATIC COVER **INSTALL** PARKING BRAKE RELEASE



Seminole Emergency & Abnormal Checklist



ENGINE FAILURE (BEFORE ROTATION)

THROTTLES CLOSE
DIRECTIONAL CONTROL MAINTAIN
BRAKES AS REQUIRED

INSUFFICENT RUNWAY REMAINING

MIXTURES IDLE CUTOFF
MAGNETOS OFF
BATTERY MASTER SWITCH OFF
FUEL SELECTORS OFF
STOP STRAIGHT AHEAD, AVOID OBSTACLES

ENGINE FAILURE (AFTER ROTATION)

GEAR DOWN

THROTTLES CLOSE
DIRECTIONAL CONTROL MAINTAIN
LAND STRAIGHT AHEAD, AVOID OBSTACLES
BRAKES AS REQUIRED

GEAR UP/IN TRANSIT

MIXTURES FULL RICH PROPELLERS FULL FORWARD THROTTLES FULL FORWARD GEAR **VERIFY UP FLAPS VERIFY UP INOPERATIVE ENGINE IDENTIFY** THROTTLE (INOP ENGINE) CLOSE PROPELLER (INOP ENGINE) **FEATHER** MIXTURE **IDLE CUTOFF** 2-3° TOWARD OPERATIVE ENGINE BANK (88 KIAS) VYSE AIRSPEED TRIM **ADJUST FUEL SELECTOR (INOP ENGINE)** OFF COWL FLAP (INOP ENGINE) CLOSE **ELECTRIC FUEL PUMP (INOP ENGINE)** OFF OFF MAGNETOS (INOP ENGINE) ALTERNATOR (INOP ENGINE) OFF AS SOON AS PRACTICAL LAND

ENGINE FAILURE (Flight Below V_{MC})

THROTTLES IDLE
RUDDER APPLY AGAINST YAW
PITCH LOWER, ACCELERATE to V_{MC}
POWER (OPERATIVE ENGINE) INCREASE

IF ALTITUDE ALLOWS

ENG. FAIL. (FLIGHT ABOVE V_{MC}) CHECKLIST COMPLETE

IF ALTITUDE DOES NOT PERMIT

INOPERATIVE ENGINE SECURE

ENGINE FAILURE (Flight Above V_{MC})

MIXTURES, PROPS, THROTTLES **INCREASE POWER INOPERATIVE ENGINE IDENTIFY OPERATIVE ENGINE POWER AS REQUIRED AIRSPEED** (88 KIAS) VYSE **FUEL SELECTORS** ON CARBURETOR HEAT CONTROLS ON **ELECTRIC FUEL PUMPS** ON **MAGNETOS** ON **FUEL QUANTITY CHECK** OIL TEMPERATURE & PRESSURE **CHECK** (If engine fails to start, complete "Engine Securing" checklist)

ENGINE SECURING

RETARD TO VERIFY THROTTLE **PROPELLER** (Above 950 RPM) FEATHER MIXTURE **IDLE CUTOFF FUEL SELECTOR (INOP ENGINE)** OFF CARBURETOR HEAT CONTROLS OFF **ELECTRIC FUEL PUMPS** OFF **MAGNETOS (INOP ENGINE) OFF** COWL FLAP (INOP ENGINE) CLOSED **COWL FLAP (OPERATIVE ENGINE)** AS REQUIRED ALTERNATOR (INOP ENGINE) OFF **ELECTRICAL LOAD** REDUCE POWER (OPERATIVE ENGINE) AS REQUIRED FUEL QUANTITY (OPERATIVE ENGINE) **CHECK** CROSSFEED (OPERATIVE ENGINE) AS REQUIRED LAND AS SOON AS PRACTICAL

AIR START

THROTTLE (INOP ENGINE) 1/4 INCH OPEN MIXTURE (INOP ENGINE) **FULL RICH FUEL SELECTOR (INOP ENGINE)** ON **CARBURETOR HEAT** AS REQUIRED **ELECTRIC FUEL PUMP (INOP ENGINE)** ON **MAGNETOS (INOP ENGINE)** ON PRIME AS REQUIRED PROPELLER (INOP ENGINE) (110 KIAS) FULL FORWARD (If propeller does not windmill w/in 5-7 seconds, engage starter) THROTTLE 15" UNTIL ENGINE IS WARM OFF FLETRIC FUEL PUMP ALTERNATOR ON

ENGINE FIRE (During Start)

MIXTURE IDLE CUTOFF
THROTTLE FULL OPEN
STARTER CONTINUE CRANKING

IF FIRE PERSISTS

FUEL SELECTORS OFF
ELECTRIC FUEL PUMPS OFF
MASTER SWITCH OFF
AIRPLANE EVACUATE
EXTERNAL FIRE EXTINGUISHER USE

ENGINE FIRE (Inflight)

ON AFFECTED ENGINE

THROTTLE CLOSE
PROPELLER FEATHER
MIXTURE IDLE CUTOFF
COWL FLAP OPEN
FUEL SELECTOR OFF
AIRSPEED (If fire persists) INCREASE TO EXTINGUISH
ENGINE SECURE

ELECTRICAL FIRE

EMERGENCY BATTERY
BATTERY MASTER
OFF
ALTERNATORS
OFF
VENTS
CLOSED
CABIN HEAT
OFF
IF FIRE PERSISTS
(If practical) LOCATE, EXTINGUISH

LANDING GEAR MALFUNCTION

CIRCUIT BREAKERS CHECK
BATTERY MASTER SWITCH ON
ALTERNATORS CHECK

MANUAL GEAR EXTENSION

AIRSPEED (Below 100 KIAS) REDUCE GEAR DOWN EMERG. GEAR EXTEND KNOB PULL GEAR POSITION LIGHTS 3 GREEN

SINGLE ALTERNATOR FAILURE

VERIFY FAILURE CHECK AMPS
ELECTRICAL LOAD (Less than 75 amps in air) REDUCE
FAILED ALTERNATOR OFF
FAILED ALTERNATOR CB RESET
FAILED ALTERNATOR SWITCH ON

IF ALTERNATOR STILL FAILED

FAILED ALTERNATOR SWITCH OFF ALTERNATOR AMPS INDICIATION (<75 Amps) MONITOR

DUAL ALTERNATOR FAILURE

VERIFY FAILURE CHECK AMPS

ATTEMPT TO RESET ALTERNATORS

FAILED ALTERNATOR SWITCHES OFF FAILED ALTERNATOR CBs ON

IF ONLY ONE ALTERNATOR RESETS

OPERATING ALTERNATOR SWITCH ON FAILED ALTERNATOR SWITCH OFF ELETRICAL LOAD (<75 Amps in air) MONITOR

IF NEITHER ALTERNATOR RESETS

BOTH ALTERNATOR SWITCHES OFF ELECTRICAL LOAD SHED w/in 3 MINUTES NON ESS BUS CB PULL LIGHTING BUS CB **PULL** AVIONICS BUS CB **PULL** AVIONICS MASTER SWITCH OFF **EMERGENCY BATTERY** VFRIFY ARM **BATTERY AMPS** (Less than-20 AMPS) MONITOR PITOT HEAT 15 MINUTES MAX COM RADIO 3 MINUTES MAX

COMPLETE ELECT. FAILURE

EMERGENCY BATTERY SWITCH VERIFY ARM STANDY FLIGHT INSTRUMENTS VERIFY OPERATIONAL AIRCRAFT CONTROL USE PFD AND STBY BATTERY MASTER SWITCH ALTERNATOR SWITCHES OFF

PRIOR TO LANDING

LANDING LIGHT INOPERATIVE GEAR USE MANUAL EXTENSION

APPROX. 30 MINUTES OF POWER LAND AS SOON AS PRACTICAL

V_{MC} DEMONSTRATION

AIRSPEED 88 KIAS
COWL FLAPS OPEN
GEAR UP
PROPELLERS FULL FORWARD
THROTTLE (SIMULATED INOP ENGINE) IDLE
THROTTLE (OTHER ENGINE) FULL POWER
AIRSPEED REDUCE 1 KIAS/SECOND

RECOVER AT FIRST INDICIATION

RUDDER MAINTAIN DIRECTIONAL CONTROL BANK (MAX) 5° TOWARD OPERATING ENGINE

RECOVERY

THROTTLE (OPERATING ENGINE)

ANGLE OF ATTACK

AIRSPEED

THROTTLE (OPERATING ENGINE)

CLIMB

IDLE

REDUCE

(Vsse) 82 KIAS

FULL POWER

(Vsse/Vyse) 82/88 KIAS

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** To be used in conjunction with the POH**