

BEFORE STARTING ENGINES

Parking Brake	SET
Emerg. Gear Ext. Handle	IN
Alternate static source	OFF
Electrical Switches	OFF
Circuit breakers	Check IN
Propeller Levers	MAX RPM
Landing Gear Handle	DOWN
Trim Selectors	SET for Takeoff
Carburetor heat	OFF
Cowl Flaps	Open
Fuel selectors	Checked & ON
Master Switch	ON
Electric fuel pumps	ON, Check Pressure, then OFF

NORMAL START [*Left Engine First*]

Throttle	1/4in. open
Mixture	Full Rich
Left Magneto	ON
Prime	As Required
Starter	Engage

AFTER START

Right Magneto	ON
Throttle	1000 RPM
Alternator	ON
Oil pressure	Check

Repeat from "NORMAL START" for Rt. Engine

BEFORE TAXI

Avionics Master	ON
Aspen if equipped	ON
Electric Trim Switch	ON & Checked
Flight Instruments	SET and Checked
Lights	As Required

GROUND CHECK

Parking brake	SET
Mixture	RICH
Propellers 2200 RPM	Exercise (150-250 RPM Each)
Throttles	1800 RPM
Magnetos	Check (Max drop 175 Max. diff. 50 RPM)
Alternators	Check
Carburetor Heat	Check
Engine Instruments	Checked
Vacuum	Check (4.3 to 6.1 in)
Throttles	1500 RPM
Propellers	Check Feathering (500 RPM Drop)
Throttles	800-1200 RPM

BEFORE TAKEOFF

Flight instruments	SET and Checked
Electric fuel pumps	ON
Fuel Selectors	On
Mixture	RICH
Seat Belts/Harnesses	Fastened
Flaps	Checked and UP
Trim Selectors	SET & Checked
Flight Controls	Free and Correct
Cabin Door	Closed and Latched
FINAL ITEMS:	Lights, Camera, Action
Pitot Heat	As Required
Transponder	ALT
Lights	As Required
Aspen	Verify Runway Heading

CLIMB/@ 1000' AGL

Landing Gear	UP, NO LIGHTS
Climb Power	SET
Cowl Flaps	As Required
Fuel Pumps	OFF
Lights	As Required

CRUISE

Power	SET
Cowl Flaps	As Required
Mixtures	As Required

DESCENT/LANDING/GUMPS

Gas	SELECTORS & PUMP
Under Carriage	As Required
Mixtures	Rich
Propellers	As Required
Lights	As Required
Seat Belts/Harnesses	Fastened

AFTER LANDING

Flaps	UP
Transponder	Standby
Pitot Heat	OFF
Lights	As Required
Cowl Flaps	OPEN
Fuel Pumps	OFF

SHUT DOWN & SECURING

Avionics Master/Aspen	OFF
Electric Trim Switch	OFF
Throttles	1000 RPM
Mixtures	Idle Cut-Off
Lights	OFF
Magneto Switches	OFF
Alternator Switches	OFF
Master Switch	OFF

ENGINE FAILURE PRIOR TO GEAR

RETRACTION

Throttles **IDLE**
Braking **MAXIMUM**
Mixtures **IDLE CUTOFF**
Fuel Selectors **OFF**
Magnetos **OFF**

*ADVISE ATC AND ACCOMPLISH GROUND
EVACUATION IF NECESSARY*

**ENGINE FAILURE, FIRE OR SEVERE
DAMAGE IN FLIGHT**

**ENGINE OUT PROCEDURE
ACCOMPLISHED**

Maximum Power **SET**
Throttle (affected engine) **IDLE**
Propeller (affected engine) **FEATHER**
Airspeed **≥V_{yse}**

Securing inoperative engine:

Mixture (affected engine) **IDLE**
 CUTOFF
Magnetos (affected engine) **OFF**
Fuel Pump (affected engine) **OFF**
Alternator (affected engine) **OFF**
Cowl Flap (affected engine) **CLOSED**
Cowl Flap (operating Engine) **OPEN**
Fuel Selector (affected engine) **OFF**
Electrical Load **REDUCE**

EMERGENCY DESCENT

Throttles **IDLE, CARB HEAT**
 ON
Propellers **MAX RPM**
Airspeed <145 KIAS **LANDING GEAR**
 DOWN
Level-Off Altitude **CHECK**
ATC **ADVISE**

ENGINE FIRE ON GROUND

Mixtures **IDLE CUTOFF**
Throttle **FULL OPEN**
Starter **ENGAGE**
Fuel Pumps **OFF**
Fuel Selectors **OFF**

*CONTINUE CRANKING UNTIL FIRE
DISSIPATES, MAX 30 SECONDS*

Accomplish "Ground Evacuation" Checklist

GROUND EVACUATION

ATC **ADVISE**
Mixtures **IDLE CUTOFF**
Fuel Selectors **OFF**
Magnetos **OFF**
Maste Switch **OFF**
Evacuation **COMMAND**

Assemble passengers away from aircraft

LANDING GEAR MANUAL EXTENSION

Airspeed-----Below 100 KIAS
Landing GEAR MOTOR
Circuit Breaker-----PULL (OFF)
LDG Gear Handle-----DOWN
Emergency Extension
Handle-----Pull
Landing Gear Position
Lights and Warning Horn---CHECK

WARNING:

*Do not move landing gear handle or reset any
circuit breakers; consider securing aircraft on
runway and having aircraft towed to
maintenance*

INFLIGHT ENGINE START

Airspeed **> 100 KNOTS**
Throttle **IDLE**
Fuel Selector **ON**
Fuel Pump **ON**
Magnetos **ON**
Alternator **ON**
Propeller **MAX RPM**
Mixture **RICH**

*If Unfeathering Accumulator Not Effective,
Actuate Starter Momentarily to Cause Engine
Rotation*

*Allow engine to idle for two minutes prior to
advancing throttle.*

Engine Instruments **CHECK**
Load Meters **CHECK**

NOTE: Items in **Boldface** are recall
items. Refer to manufacturer's Pilot's
Operating Handbook for additional non-
normal and supplementary procedures.