Preflight	
Weather	BRIEF
Flight Plan	. FILE as rqd.
Weight & Balance	VERIFY OK
INTERIOR	
Documents	ON BOARD
Airworthiness, Registration, POH, V	<b>V</b> &B
Battery Master 2	ON
Avionics Cooling Fan	AUDIBLE
PFD Voltmeter	23-25 V
Flap Position Light	
Battery Master 1	ON
Exterior Lights	CHECK
Fuel Quantity	CHECK
Flaps 100%, CHE	CK LIGHT ON
Oil Annunciator	ON
Battery Masters 1 & 2	OFF
Alternate Static Source	NORMAL
Circuit Breakers	IN
Fire Extinguisher & Hammer	ON BOARD

# **Before Starting Engine**

Preflight InspectionCOMPLETED
Tiedowns & Wheel Chocks REMOVED
Passengers BRIEF
Seat Belts, A/C, Fire, Exit, Traffic/Talking, CAPS
Seat Belts ADJUST & SECURE
CAPS Pin

# **Starting Engine**

Brakes	HOLD
Ignition Key	INSERTED
Battery Masters 2 & 1	ON, CHECK 24 V
Strobe Lights	ON
Propeller Area	CLEAR
PRIMING (COLD STA	RT)
Mixture	FULL RICH
Power Lever	FULL FORWARD
Fuel Pump	PRIME
Prime for 5 secs until fuel	flow reaches 15 gph
NORMAL START	
Mixture	LEAN
Power Lever	OPEN ¼ INCH
Fuel Pump	BOOST
Ignition Switch	START
Mixture	. ADVANCE TO RICH
FLOODED START	
Fuel Pump	OFF
Mixture	LEAN
Power Lever	FULL FORWARD
Ignition Switch	START
Power Lever	RETARD
Mixture	. ADVANCE TO RICH

#### Before Taxiing

Weather InformationOBTA	AIN
Altimeter S	ET
Flaps	UP
DURING TAXIING	
Brakes CHE	CK
HSI OrientationCHE	CK
Attitude IndicatorCHE	CK
Turn Coordinator CHE	CK

CAPS Pin ..... REMOVED Flight Instruments ..... CHECK

## **Before Takeoff**

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Flight Controls	
Autopilot	TEST
Trim	SET TAKEOFF
Fuel Quantity	CONFIRM
Fuel Selector	SWITCH TANK
Fuel Pump	
Doors	CLOSE & LATCH
ENGINE RUN-UP	
MixtureF	ULL RICH or as rqd.
Brakes	HOLD
Power Lever	1700 RPM
Annunciators	CHECK CLEAR
Pitot Heat & Lights	ON
Alternator Load	CHECK
Alternator Voltage	
Pitot Heat & Lights	
Magnetos	
Check RPM drop < 150, RPM	
Engine Parameters	
AFTER ENGINE RUN-U	•
Power Lever	
Mixture	
Flaps	
Altimeter	
Navigation & GPS	
COM Radios	
Transponder	SET

### Takeoff

Flaps	VERIFY 50%
Mixture	. FULL RICH or as rqd.
Fuel Pump	BOOST
STARTING TAKEOFF	
Power Lever	FULL FORWARD
Propeller	CHECK 2600 RPM
Engine Parameters	CHECK GREEN
At 70 kts, Elevator	ROTATE
At 90 kts, Flaps	UP
At 500' AGL, CAPS .	CALLOUT

Flight Plan ......OPEN Takeoff & Abort Plan ..... BRIEF

Lights ..... ON Transponder ......SET

#### Climb

Power
Mixture As rqd.
Lean to maximum power flow when above 4000'
Engine Parameters CHECK GREEN
Fuel PumpBOOST
FlapsVERIFY UP
Enroute Climb110-120 KIAS

# Cruise

Lights	As rqd.
Fuel Pump	OFF
Power	SET
Mixture	LEAN as rqd.
Engine Parameters	CHECK GREEN
Fuel Selector	. SWITCH as rqd.

# **Approach & Descent**

Weather Information	OBTAIN
Altimeter	SET
Approach Procedure	BRIEF
Lights	ON
Fuel Pump	BOOST
Fuel Selector	. FULLEST TANK
Mixture	As rqd.

# Refore Landing

before Landing	
Fuel Pump	BOOST
Mixture	FULL RICH or as rqd.
Seat Belts	SECURE
Flaps	DEPLOY
Approach (Flaps UP)	100-110 KIAS
Approach (Flaps 50%	s) 90-100 KIAS
Approach (Flaps 100	%) 80-85 KIAS
Short Field (Flaps 10	0%)

#### Go-Around

Autopilot DISENGAGE
Power LeverFULL FORWARD
MixtureFULL RICH or as rqd.
Flaps50%, UP
Petract all flans when aircneed is above 80 KIAS

## **After Landing**

Power Lever	1000 RPM
Mixture G	ROUND LEAN
Flaps	
Transponder	VFR

## Shutdown

Fuel QuantityRECORD
Avionics Master OFF
Power Lever IDLE
Fuel PumpOFF
Mixture CUTOFF
All Switches OFF
Ignition Cuitob

## Airspeeds & Limits (All Speeds in KIAS)

Power Lever .......1000 RPM Mixture ..... GROUND LEAN Alternator Masters 1 & 2 ..... ON

Avionics Master ..... ON

Engine Parameters ...... CHECK GREEN

AFTER ENGINE START

Never Exceed V<sub>NE</sub> 201 Max Cruise V<sub>NO</sub> 178 Maneuvering V<sub>O</sub> 133 (3400 lb) 123 (2900 lb) Stall V<sub>S</sub> 70 (clean) 59 (flaps)

Flap Extension V<sub>FE</sub> 119 (50%) 104 (100%)

Best Glide V<sub>G</sub> 88 CAPS Deployment V<sub>PD</sub> 133

MTOW 3400 lb BEW 2340 lb