| Preflight | |
|-------------------------------------|--------------|
| Weather | BRIEF |
| Flight Plan | FILE as rqd. |
| Weight & Balance | . VERIFY OK |
| INTERIOR | |
| Documents | ON BOARD |
| Airworthiness, Registration, POH, W | &B |
| Battery Master 2 | ON |
| Avionics Cooling Fan | AUDIBLE |
| PFD Voltmeter | 23-25 V |
| Flap Position Light | OUT |
| Battery Master 1 | ON |
| Exterior Lights | CHECK |
| Fuel Quantity | CHECK |
| Flaps 100%, CHEC | K 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 | Ξ |
| CAPS Pin REMOVE | |

Starting Engine

| BrakesHOLD | |
|---|--|
| Ignition Key INSERTED | |
| Battery Masters 2 & 1 ON, CHECK 24 V | |
| Strobe LightsON | |
| Propeller Area | |
| PRIMING (COLD START) | |
| MixtureFULL RICH | |
| Power Lever FULL FORWARD | |
| Fuel PumpPRIME | |
| Prime for 5 secs until fuel flow reaches 15 gph | |
| NORMAL START | |
| Mixture LEAN | |
| Power Lever OPEN ¼ INCH | |
| Fuel PumpBOOST | |
| Ignition SwitchSTART | |
| Mixture ADVANCE TO RICH | |
| FLOODED START | |
| Fuel PumpOFF | |
| Mixture LEAN | |
| Power LeverFULL FORWARD | |
| Ignition SwitchSTART | |
| Power LeverRETARD | |

Before Taxiing

| Weather Information OBTAIN | ı |
|----------------------------|---|
| Altimeter SET | |
| Flaps UP | , |
| DURING TAXIING | |
| Brakes CHECK | |
| HSI Orientation CHECK | Ċ |
| Attitude Indicator CHECK | Ċ |
| Turn Coordinator CHECK | Ċ |
| | |

CAPS Pin REMOVED

Before Takeoff

| Flight Instruments | CHECK |
|-------------------------|------------------------|
| Flight Controls | FREE & CORRECT |
| | TEST |
| Trim | SET TAKEOFF |
| Fuel Quantity | CONFIRM |
| Fuel Selector | SWITCH TANK |
| | BOOST |
| | CLOSE & LATCH |
| ENGINE RUN-UP | |
| Mixture | . FULL RICH or as rqd. |
| Brakes | HOLD |
| Power Lever | 1700 RPM |
| Annunciators | CHECK CLEAR |
| Pitot Heat & Lights . | ON |
| Alternator Load | CHECK |
| Alternator Voltage | CHECK 28 V |
| | As rqd. |
| | CHECK L & R |
| Check RPM drop < 150, F | |
| J | CHECK GREEN |
| AFTER ENGINE RUN | |
| | 1000 RPM |
| | GROUND LEAN |
| | 50% |
| | SET |
| | SET |
| | SET |
| • | SET |
| • | OPEN |
| Takeoff & Abort Plar | 1 BRIEF |
| | |

Takeoff

| riaps | VERIFY 50% |
|---------------------------|------------------------|
| Mixture | . FULL RICH or as rqd. |
| Fuel Pump | BOOST |
| STARTING TAKEOFF | F |
| 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 |
| Best Angle $V_X \ldots $ | 78 (SL) 82 (10,000') |
| | |

Lights ON TransponderSET

Climb

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

Cruise

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

| Approach & Descent | |
|----------------------------|--|
| Weather Information OBTAIN | |
| Altimeter SET | |
| Approach ProcedureBRIEF | |
| Lights ON | |
| Fuel Pump BOOST | |
| Fuel SelectorFULLEST TANK | |
| Mixture As rqd. | |
| | |

Before Landing

| Fuel PumpB00ST | |
|----------------------------------|--|
| Mixture FULL RICH or as rqd. | |
| Seat Belts SECURE | |
| FlapsDEPLOY | |
| Approach (Flaps UP)100-110 KIAS | |
| Approach (Flaps 50%) 90-100 KIAS | |
| Approach (Flaps 100%) 80-85 KIAS | |
| Short Field (Flaps 100%) 77 KIAS | |

Go-Around

| Autopilot | DISENGAGE |
|--------------------------------|---------------------|
| Power Lever | |
| MixtureFU | |
| Flaps | 50%, UP |
| Retract all flans when airsnee | ed is above 80 KIAS |

After Landing

| Power Lever | 1000 RPM |
|-------------|-------------|
| Mixture | GROUND LEAN |
| Flaps | |
| Transponder | VFR |

Shutdown

| Fuel QuantityRECORD |) |
|---------------------|---|
| Avionics Master OFF | F |
| Power Lever IDLE | E |
| Fuel PumpOFF | F |
| Mixture CUTOFF | F |
| All Switches OFF | F |
| Ignition Switch OFF | F |

Airspeeds & Limits (All Speeds in KIAS)

Mixture ADVANCE TO RICH

Power Lever1000 RPM Mixture GROUND LEAN Alternator Masters 1 & 2 ON

Avionics Master ON

Engine Parameters CHECK GREEN

AFTER ENGINE START

Never Exceed V_{NE} 201 Max Cruise V_{NO} 178 Maneuvering V_O 133 (3400 lb) 123 (2900 lb) CAPS Deployment V_{PD} 133

Flap Extension V_{FE} 119 (50%) 104 (100%) | Best Glide V_G 88 | Stall V_S 70 (clean) 59 (flaps)

Oil 15W-50/20W-50/20W-60, 6-8 qt | Fuel Capacity 47 gal (tabs) 81 gal (total)

MTOW 3400 lb BEW 2340 lb