



Speeds for Normal Operation KIAS

V_r Rotation	50
V_x Best Angle of Climb (clean)	55
V_y Best Rate of Climb Speed	67
$V_{y/4}$ Best Glide (lift/drag), flaps up/down	65/60
V_a Maneuvering Speed (gross weight).....	93-104
V_{no} Maximum Structural Cruising Speed	111
V_{ne} Never Exceed Speed.....	149
V_{fo} Maximum Flap Extension Speed.....	85
V_s Stall Speed, normal configuration	40
V_{so} Stall Speed, landing configuration.....	35
Short Field T/O, Flaps 10°	54
Climb Out-Normal	65-75
Normal Landing Approach, Flaps 0°	60-70
Normal Landing Approach, Flaps 30°	55-65
Short Field Approach, Flaps 30°	54
Steep Turns/ Chandelles/ Lazy eights	95

Emergency Procedures

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EMERGENCY LANDING

Airspeed.....	(flaps 30°) 60+ KIAS
Wing Flaps.....	AS REQUIRED (30°)
Mixture.....	IDLE CUT-OFF
Throttle.....	IDLE
Carb Heat	OFF
Fuel Selector Valve	OFF
Ignition Switch.....	OFF
Master Switch	OFF
Primer	IN/LOCKED
Doors	UNLATCH PRIOR TO TOUCHDOWN
Touchdown.....	SLIGHTLY NOSE HIGH
Brakes.....	APPLY HEAVILY

PRECAUTIONARY LANDING

Airspeed.....	60+ KIAS
Wing Flaps.....	20°
Select field.....	SUITABLE
Radio/ Electrical Switches	OFF
Wing Flaps (on final approach)	30°
Airspeed	55 KIAS
Master Switch	OFF
Doors	UNLATCH PRIOR TO TOUCHDOWN
Touchdown.....	SLIGHTLY NOSE HIGH
Ignition Switch.....	OFF
Brakes.....	APPLY HEAVILY

Preflight Procedures

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NOSE

Engine Oil Level.....	CHECK
Wind screen.....	CLEAN
Fuel Strainer	SAMPLE
Propeller and Spinner	CHECK
Landing light.....	CLEAN
Carburetor Air Filter	CHECK
Nose Wheel Strut/ Tire/ linkage.....	CHECK
Static Source Opening	CHECK

LEFT WING

Tire/ Tread/ Inflation	Check
Brake pads/ leakage	CHECK
Fuel Quantity	CHECK
Fuel Filler Cap	SECURE
Pitot Tube Cover.....	REMOVE
Fuel Tank Vent Opening	CHECK
Stall Warning Opening.....	CHECK
Wing Tie-Down.....	DISCONNECT
Aileron/ Hinge points/ Control linkage.....	CHECK FREE
Flap/Tracks/ Control Linkage	CHECK
Fuel Tank Sump	SAMPLE

Normal Procedures

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BEFORE STARTING ENGINE

Preflight Inspection.....	COMPLETE
Doors.....	LATCHED
Seats, Belts, Shoulder Harness.....	ADJUST & LOCK
Flight Controls.....	FREE/ CORRECT
Avionics	OFF
Mixture	RICH
Throttle.....	OPEN ½ INCH
Carburetor Heat	COLD
Circuit Breakers	CHECK IN
Trim	CLIMB
Fuel Selector Valve.....	ON
Electrical Equipment	OFF
Beacon	ON
Nav. Lights	Night/ ON
Master Switch.....	ON
Prime.....	3 STROKES

STARTING ENGINE

Brakes	TEST & SET
Propeller Area.....	CLEAR
Ignition Switch.....	START
Throttle.....	1000 RPM
Oil Pressure.....	CHECK
Radios	ON
Transponder	ALTITUDE

Preflight Procedures

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CABIN

Control Wheel Lock	REMOVE
Aircraft Documents	AVAILABLE
Hobbs time	Recorded
Sectional/ AFD /pencil/ paper	AVAILABLE
Ignition/ key.....	OFF/ON THE DASH
Master Switch	ON
Fuel/Engine Gauges	CORRECT
Flaps	DOWN/ LISTEN/WATCH
Master Switch	OFF

EMPENNAGE

Fuel sump.....	CHECK
Screws/ Rivets	IN PLACE
Elevator/ 3 Hinge Points	CHECK
Rudder/ 3 Hinge points	CHECK
Tail Tie-Down	DISCONNECT
Trim Tab/ Hinge/ Control Linkage	CHECK

RIGHT WING

Flap/Tracks/ Control Linkage	CHECK
Ailerons/ Hingepoints/ Control linkage.....	CHECK
Wing Tie-Down.....	DISCONNECT
Tire/Tread/Infation	Check
Brake pads/ leakage	CHECK
Fuel Tank Sump.....	SAMPLE
Fuel Quantity	CHECK
Fuel Filler Cap	SECURE

Emergency Procedures

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ENGINE FAILURE DURING TAKEOFF

Throttle	IDLE
Brakes.....	APPLY
Wing Flaps	RETRACT
Mixture.....	IDLE CUT-OFF
Ignition Switch.....	OFF
Master Switch	OFF

ENGINE FAILURE AFTER TAKEOFF

Airspeed.....	(flaps UP) 65 KIAS
Airspeed	(flaps DOWN) 60 KIAS
Mixture.....	IDLE CUT-OFF
Fuel Selector Valve	OFF
Ignition Switch.....	OFF
Wing Flaps	AS REQUIRED
Master Switch	OFF

ENGINE FAILURE DURING FLIGHT

Airspeed	60 KIAS
Flaps	UP
Mixture.....	IN
Throttle	FULL
Carb Heat.....	ON
Fuel Valve	ON
Magneton.....	CYCLE/START/BOTH
primer.....	IN/LOCKED
Fuel Gauges	CHECK
No start	PERFORM EMERGENCY LANDING

Normal Procedures

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BEFORE TAXI

Wing Flaps UP
 Area CLEAR
 Brakes TEST

BEFORE TAKEOFF

Doors & Windows& Seat belts SECURED
 Flight Controls FREE & CORRECT
 Ammeter CHECK
 Tach CORRECT
 Radios SET
 Transponder ON-ALT-CODE
 Environmental Controls SET
 Flaps 0°-10°
 Mixture (Below 3000' PA) RICH
 Throttle 1700 RPM
 Carburetor Heat OFF
 Circuit Breakers IN
 Elevator Trim CLIMB OUT
 Fuel Selector Valve ON
 Electrical Switches AS REQUIRED
 Magnetos R/Both/L/Both Check drop 125max/ 50 diff
 Alternator OFF/ CHECK LIGHT/ CHARGE/ ON
 Primer IN/ LOCKED
 Fuel Gauges CHECK
 Engine Instruments CHECK
 Flight Instruments SET
 Suction Guage CHECK
 Carburetor Heat ON/ CHECK RPM DROP
 Throttle Check Idle
 Carburetor Heat OFF/ CHECK RPM INCREASE
 Throttle 1000 RPM

Normal Procedures

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CRUISE

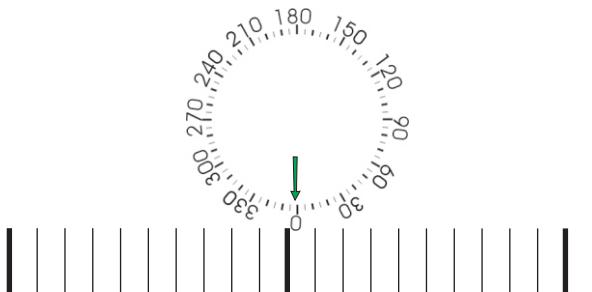
Power 2450RPM (75%) or LESS
 Elevator Trim ADJUST
 Mixture LEAN

DESCENT

Mixture ADJUST
 Power AS DESIRED
 Carburetor Heat AS REQUIRED

BEFORE LANDING/ DESCENT

Landing light TOUCH
 Carb Heat ON/ BELOW GREEN ARC
 Throttle APPROACH (1500-1700)
 Mixture RICH
 Flaps AS REQUIRED
 Trim AS REQUIRED
 Seats, Belts, Shoulder Harnesses SECURE



Specifications

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Maximum Gross Weight.....	1670 lbs
Basic Empty Weight	1186 lbs
Payload w/ Full Fuel.....	336 lbs
Fuel Flow @ 75% Power	6.1 gph
Endurance(1 hr. reserve)	3hrs
Range (1 hr reserve).....	285 nm

Fuel Capacity	26 gal
Useable Fuel.....	24.5 gal
Fuel Octane Rating	(Blue)100LL
Oil Sump Capacity	6 qts
Minimum Oil Quantity.....	5 qts
Oil Type.....	Aeroshell red label w100 SAE 50

Engine	4cyl 110 hp Lycoming O-235
Electrical	24 V
Positive Limit Load Factor	4.4g
Negative Limit Load Factor.....	-1.76g

Jonesboro FSS	1800-992-7433	122.2
LIT Atis	324-2618	125.65
CWS;BDQ;1M1;BVX		122.8
MPJ		122.9
HBZ;RUE,SRC		122.7
Don Parker A&P	328-3628	

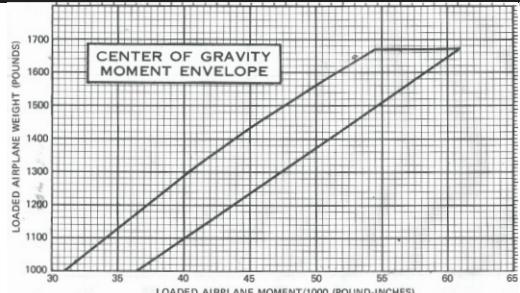
POWER SETTINGS

2450.....	Level flight 100 kts
2300.....	Level flight 95 kts
2000	Level Flight 80 kts
1700 ...	Normal apch flaps 30°
1200	steep apch idle+1/4"

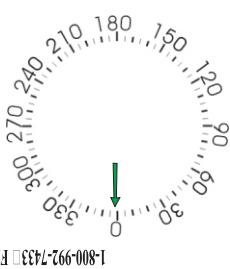
ber Home Base SOB Color Weather Briefing Adverse conditions Briefer' Judgement (VFR not recommended) Synopsis Current conditions: Metars, Preps, Raps Enroute forecast Destination forecast Winds& Temp aloft Uppublished Notams A

152 II Weights & Balance(N714WP)

	Gallons	weight	c.g arm	Moment/1000
aircraft		1186	34	40.3
Gal usable fuel	17	102.4	40	4.1
pilot (33 to 41)		180	39	7.0
copilot		200	35	7.0
baggage 64,84,94		0	84	0.0
Total		1668	35.03	58.4



PLANNING
Course
Distance
Altitude
ETE
FAA Briefing-1800-992-7433
•Winds Aloft
•Altimeter Setting
•Temperature
•Delays weather or TFR's
PA=(29.92-alt set)x 1000+ Field Elev
Fuel Burn+5gal=fuel required
T/O& Landing Distance
TC+WCA+VAR=MH



FII

1-800-992-7433

TC Delays/TFRs

Normal Procedures

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BALKED LANDING

Throttle FULL OPEN
Carburetor Heat COLD
Wing Flaps (immediately) 20°
attitude nose to horizon
Wing Flaps (55 KIAS) RETRACT
Climb Speed BEST ANGLE

AFTER LANDING

Wing Flaps UP
Carburetor Heat COLD
Transponder STANDBY

SECURING AIRPLANE

Parking Brake SET
Avionics Power Switch OFF
Electrical Equipment OFF
Mixture IDLE CUT-OFF
Ignition Switch OFF
Master Switch OFF
Control Lock INSTALL



Normal Procedures

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NORMAL TAKEOFF

Wing Flaps 0 - 10°
Carburetor Heat COLD
Throttle FULL OPEN
Elevator Control LIFT NOSE AT 50 KIAS
Climb Speed 65-75

SHORT FIELD TAKEOFF

Wing Flaps 10°
Carburetor Heat COLD
Brakes APPLY
Throttle FULL OPEN
Mixture LEAN above 3000', RICH below 3000'
Brakes RELEASE
Elevator Control SLIGHTLY NOSE HIGH
Climb Speed (over Obstacles) 54

ENROUTE CLIMB

Airspeed BEST RATE or HIGHER
Throttle FULL OPEN
Mixture LEAN above 3000', RICH below 3000'

3 Miles 2000 1000/ 500 Except
Class B 3 miles COC
>10K 5 miles 1Mile 1000/1000
G Day >1200 <10K 1Mile 2000 1000/ 500
G Day < 1200 1 mile COC