

AIRPLANE FLIGHT MANUAL
MODEL 250

FAA APPROVED
Issue date June 30, 1983
Latest rev. July 11, 1988

2.0 NORMAL OPERATING PROCEDURES

2.1 AIRSPEEDS

The following speeds are based on a maximum weight of 3140 pounds, and may be used for any lesser weight.

Best rate of climb speeds, Vy	KIAS
Gear up, flaps down (takeoff climb)	62
Gear and flaps up (enroute climb)	76
Gear and flaps down (balked landing)	62
Best angle of climb speeds, Vx	
Gear up, flaps down (takeoff climb)	58
Gear and flaps up (enroute climb)	66
Gear and flaps down (balked landing)	56
Landing approach	
Normal approach, flaps down	66
Transition to balked landing, flaps down	62

712 65
85 60
85 Down
75 Base
65 Final

NOTE: Flaps are used for all takeoffs and landings.

2.2 MAXIMUM DEMONSTRATED CROSSWIND VELOCITIES

Takeoff or landing (land or water)	15 knots
Step turns on water	15 knots

2.3 WATER OPERATION

The maximum demonstrated wave height is 18" (trough to crest). This figure does not necessarily represent the limiting value for the airplane, which depends on the judgement of the pilot concerning airplane loading, wind conditions, wave height and form, and his own level of proficiency.

(15 215)

2.4 FUEL QUANTITY

Main tank: 40 U.S. gallons, usable
Auxiliary tanks: 14 U.S. gallons (7 gallons each, usable)
Total fuel 54 gallons, usable

2.5 NOISE CHARACTERISTICS

The flyover noise level established in compliance with FAR 36 is 76.7 dBA. No determination has been made by the FAA that the noise levels of this airplane are or should be acceptable or unacceptable for operations at, into, or out of, any airport.

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BEFORE STARTING ENGINE

1. Preflight Inspection - COMPLETE
2. Passenger briefing - COMPLETE
3. Seats, seat belts and shoulder harness - ADJUST AND LOCK
4. Brakes - TEST AND SET PARKING BRAKE
5. Circuit breakers - IN
6. Landing gear handle - DOWN (LAND) OR UP (WATER)
7. Fuel shutoff - ON
8. Electrical equipment - OFF

STARTING ENGINE

1. Master switch - ON
 2. Throttle - OPEN 1/8 TRAVEL
 3. Propeller governor - MAXIMUM RPM
 4. Mixture - MOVE TO FULL RICH
 5. Fuel pump - ON FOR 3 TO 5 SECONDS, THEN OFF. VERIFY PRESSURE IN GREEN ARC.
 6. Mixture - IDLE CUTOFF
 7. Propeller area- CLEAR
 8. Starter switch - ENGAGE: WHEN ENGINE FIRES, TURN MAGNETO SWITCH TO "BOTH",
AND MIXTURE TO FULL RICH.
 9. Throttle - 1000 to 1200 RPM
 10. Oil pressure gauge - CHECK FOR MINIMUM OIL PRESSURE WITHIN 30 SECONDS
AFTER START
 11. Hydraulic pump - ON: PRESSURE IN GREEN ARC
 12. Lights - AS REQUIRED FOR TAXI
- NOTE: Flooded start - CLEAR BY OPERATING STARTER FOR 5 SECONDS WITH
MIXTURE AT IDLE CUTOFF, THROTTLE OPEN, THEN
USE NORMAL STARTING PROCEDURE.
- NOTE: Hot start - SAME PROCEDURE AS NORMAL START EXCEPT LEAVE BOOST
PUMP ON, and MIXTURE AT IDLE CUTOFF

BEFORE TAKEOFF

1. Parking brake - SET
2. Flight controls - FREE
3. Flight instruments - CHECK AND SET
4. Mixture - RICH
5. Magnetos - CHECK AT 2200 RPM: 175 RPM MAXIMUM DROP, AND 50 RPM DROP
BETWEEN L/R MAGNETOS
6. Throttle - SET FOR 1700 RPM
7. Propeller governor - MOVE THROUGH FULL RANGE ALLOWING A MAXIMUM DROP
OF 500 RPM, THEN FULL FORWARD.
8. Low voltage light - CHECK, OFF
9. Suction gauge - CHECK
10. Engine instruments - CHECK, THEN SET THROTTLE AT IDLE
11. Elevator and rudder trim - SET FOR TAKEOFF, ELEVATOR TRIM IN GREEN ARC
12. Strobe lights - AS DESIRED
13. Cabin doors - CLOSED AND LATCHED
14. Wing flaps - DOWN
15. Fuel pump - ON
16. Hydraulic pressure - 900 TO 1250 PSI
17. Parking brake - OFF
18. Water rudder - UP

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TAKEOFF

1. Propeller - MAXIMUM RPM (2575)
2. Power - FULL THROTTLE: CHECK MANIFOLD PRESSURE
3. Elevator - LIFT NOSE (57 KIAS NORMAL)
4. Gear - UP
5. Establish desired climb speed.

ENROUTE CLIMB

1. Flaps - UP
2. Establish desired climb speed.

CRUISE

1. Fuel pump - OFF (~~OVER~~ 1000 FT. AGL). * *to cruise alt.*
2. Power - SET AS DESIRED
3. Elevator and rudder trim - SET AS REQUIRED
4. Mixture - SET AS DESIRED, IN ACCORDANCE WITH ENGINE OPERATING MANUAL.
5. Auxiliary fuel - TRANSFER

Fuel must be transferred from the auxiliary tanks to the main tank before it can be used. This must be done in cruise flight, and is accomplished by switching on the fuel transfer pumps. In order not to overfill the main tank, transfer should not be started until the main tank is approximately one-half empty. Fuel transfer completion takes approximately 25 minutes. Pumps should be shut off after transfer is completed.

* If fuel pressure is irregular or below red line, turn fuel pump ON.

DESCENT

1. Power - AS DESIRED
2. Mixture - ENRICH AS REQUIRED
3. Flaps and Gear - MAY BE LOWERED AT SPEEDS BELOW 107 KIAS TO INCREASE RATE OF DESCENT

BEFORE LANDING

1. Seats, seat belts and shoulder harness - SECURE
2. Fuel pump - ON (UNDER 1000 FT. AGL)
3. Landing gear - DOWN FOR LAND (BELOW 107 KIAS)/UP FOR WATER
MAKE VISUAL CHECK
4. Flaps - DOWN (BELOW 107 KIAS)
5. Hydraulic pressure - CHECK 900 - 1250 PSI
6. Mixture - FULL RICH
7. Propeller - MAXIMUM RPM *Below 18 inches*
8. Parking brake - OFF
9. Water rudder - CHECK, UP
10. Lights - AS DESIRED
11. Engine instruments - CHECK