# GANDER AIRCRAFT CORPORATION MIAMI, FLORIDA

FAA APPROVED AIRPLANE FLIGHT MANUAL IN ACCORDANCE WITH STC NO. SA81SO

GRUMMAN G-44 & G-44A

SERIAL NUMBER 1377

REGISTRATION NO. N0133H

FOR THIS AIRCRAFT ONLY

FAA Approved:

MIA EMDO

Date Approved: January 17, 1964

### GANDER AIRCRAFT CORP.

### LOG OF REVISIONS

REV	PAGE	DATE	DESCRIPTION	APPROVED
1.	1 8	10/1/64	Added -2 to propeller P/N	Hy de Ma
2.	1 8	9/3/65	Added -M to engine P/N	Menry C. Failer; Supervisor SO-EMEO-43
3.	7	6/28/67	Delete "Day" Add -4 Prop Switch fuel pum and filter	by Coladian Min Min LM00
	8		Add -4 prop	

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#### OPERATING LIMITATIONS

#### Power Plant Limitations

Continental Engine (2) Model IO-470-E

10-470-M (STC SE152SO)

Sea Level

RPH HP ALT.

Hax. Continuous

for all operations 2625 260

Fuel - 100/130 minimum octane aviation gasoline (Usable capacity 94 gals.)

Propeller - Hartzell HC-82KF-2B/3433-2Low Pitch Stop set at or HC-82KF-2B/8433-4 12.50at 30 in. st

#### Airspeed Limitations

1. Level flight or climb 175 HPU (TIA:)

2. Glide or dive 210 MPH (TIAS)
3. Maximum Flap Lowering Speed 104 MPH (TIAS)

4. Minimum Control Speed - the minimum speed at which the airplane is controllable in flight, with sudden failure of engine, with maximum power on the other engine 80 MPH (TI/C)

### Gross Weight & Center of Gravity Limitations

Maximum Weight - 4840 lbs.

Center of Gravity Fange

17.8 to 20.8 at 4840 lbs.

14.8 to 20.8 at 4700 lbs. or less

#### Placards

(1) THIS AIRPLANE MUST BE OPERATED IN ACCORDANCE WITH THE AIRPLANE FLIGHT MANUAL. ACROBATICS AND INTENTIONAL STALL PROHIBITED, OPERATE VFR ONLY.

#### Flight Load Factor

The positive limit load factor is 4.3

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#### OPERATING PROCEDURES

#### Ground Check

- 1. Nake visual inspection of airplane.
- 2. Check oil level.
- 3. If the engines have been inoperative for several hours, pull the propellers thru three or four times, more in cold weather.

#### Before Starting Engines

- 1. Parking brakes ON
- 2. Landing gear control DOWN and LOCKED
- 3. Battery and generator switches ON
- 4. Fuel quantity CHECKED
- 5. Fuel valves BOTH TANK VALVES ON CROSS FLOW OFF
  6. Throttles 1/8 OPEN
  7. Propellers controls FORWARD
  8. Mixture IDLE CUT-OFF

- 9. Carburetor air COLD (IN)
- 10. Radio OFF

#### Starting Engines

- 1. Ignition switches ON
- 2. Fuel boost pumps ON
- 3. Engage starter, move mixture control to normal and actuate throttle until engine fires.
- 4. If engine fires and fails to run, momentarily move mixture control back to IDLE CUT-OFF and then back to NORMAL when it fires.
- 5. If oil pressure fails to show in thirty seconds, stop engine and investigate.
- 6. Fuel boost pumps OFF
- Warm p engines at 1000 RPM

#### Bef. re Take Off

- 1. Advance throttles to 1800 RPM and check magneto drop (125 RPM maximum), check oil temperature and pressure, fuel pressure and ammeter.
- Retard propeller pitch controls and note drop in RPM, advance propeller pitch controls full forward.
- 3. Controls UNLOCKED AND FREE
- 4. Mixtures FULL RICH
- 5. Fuel boost pumps ON
- 6. Trim tabs SET
- 7. Wing Flaps UP Land DOWN 120 Water
- 8. GEAR UP FOR WATER TAKE-OFF

- After Take-Off

  1. Gear UP

  2. Airspeed 100 MPH
  - 3. Flaps UP
  - 4. Manifold Pressure 24 in. & RPM
  - 5. Fuel boost pumps AS REQUIRED
  - Determine the desired power for cruise from power chart
  - 7. Leave mixture in NORMAL position

#### Before Landing

- 1. Check brakes OFF
- Fuel boost pumps AS REQUIRED
- 3. Landing gear DOWN FOR LAND, UP FOR WATER
- 4. Flaps AS DESIRED BELOW 104 MPH (TIAS)
- 5. Propellers FULLFORWARD WHEN APPROACHING FIELD BOUNDARY
- 6. Fuel Valves BOTH TANK VALVES ON CROSS FLOW OFF

#### After Landing

- 1. Flaps UP
- Fuel boost pumps OFF
   Brakes SET FOR PARKING
- 4. Idle engines at 1000 RPM. Place mixture controls in IDLE CUT-OFF
- 5. After engines stop
  - a. Radio OFF

- c. Fuel valves OFF
- All switches OFF
- d. Master switch OFF

#### EMERGENCY PROCEDURES

Balked Landing

If it is necessary to go around just prior to landing

(1) Apply full power

(2) Retract landing gear - provided no ground contact is assured

(3) Retract flaps slowly

(4) Follow normal take off procedures

Engine Failure

1. If an engine fails during the take-off run, close the throttles and stop

If engine failure occurs after the airplane is airborne, and single engine climb speed attained use the following procedure:

OPERATING ENGINE

a. Full throttle and 2625 RPM

b. Gear up

c. Flaps UP - if from water take-off

INOPERATIVE ENGINE

- a. Throttle closed
- b: Propeller to feather (control aft)
- c. Mixture IDLE CUT-OFF
- d. Ignition switch OFF

e. Gas supply - OFF

3. Airspeed - 94 MPH to 97 See performance graph for best single engine airspeed

4. Airspeed trim - AS REQUIRED

5. Single Engine Operation - Fuel Management

If engine was stopped for reason other than fuel line, component failure or fire, it will be permissible to use cross flow system with stopped engine valve on. USE CAUTION - check for fuel leakage from stopped engine or other malfunction. See Page 7 for fuel system schematic.

Complete Hydraulic Failure

An emergency hand hydraulic pump is provided on the left side of the pilots seat to furnish pressure to the system in case of failure of the engine driven hydraulic pump. The landing gear and flaps can be operated by placing the appropriate control to the desired position and actuation the emergency pump.

Generator Failure

If a generator fails, turn generator switch off and monitor electrical equipment power usage as mecessary.

Performance

For best two engine angle of climb 77 MPH For best two engine rate of climb 86 MPH

(lengine - 96 MPH)

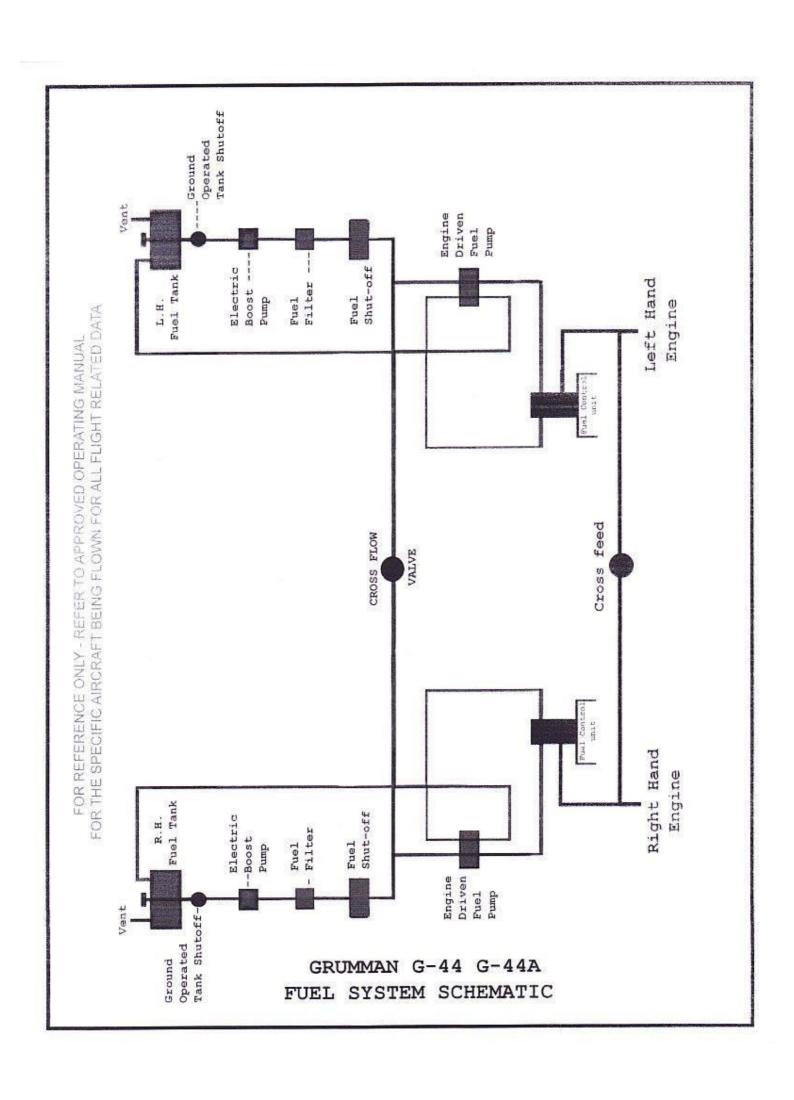
Chart on Page 8 gives single engine rate of climb at 4840 lbs. gross weight us altitude. Also best airspeed to maintain for given rate of climb.

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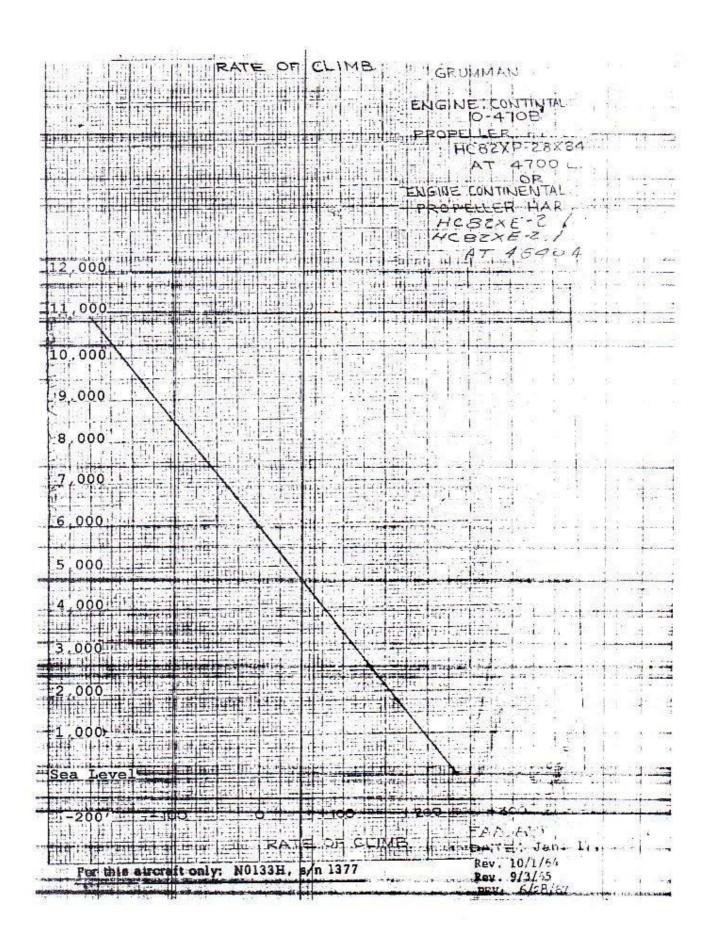


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