

BELLANCA AIRCRAFT CORPORATION

ALEXANDRIA, MINNESOTA

FAA APPROVED
AIRPLANE FLIGHT MANUAL
BELLANCA MODEL 3GCBC

REGISTRATION NUMBER N7672S
SERIAL NUMBER 222-76

THIS MANUAL IS PART OF THE REQUIRED EQUIPMENT AND
MUST REMAIN IN THE AIRPLANE AT ALL TIMES.

APPROVED: Keith D. Anderson

KEITH D. ANDERSON, CHIEF
ENGINEERING & MFG, BRANCH
FAA GREAT LAKES REGION

DATE: 30 April 1974

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

RECORD OF REVISIONS

REVISION NUMBER	PAGES AFFECTED	DESCRIPTION	DATE	APPROVED BY*
1	4 5 6 all 3	Section 1.2 Revised propeller limits, Minimum propeller dia. was 78 in. Added Caution note. Added yellow arc 1700-2100 RPM to Tachometer markings. Section 1.5 Added Placard: "Avoid 1700-2100 during descent" Revised page numbering system. Table of Contents page numbers changed in accordance with new numbering system.	Dec. 26, 1974	<i>Richard A. Paul</i>
2	6,7 all 3	Placards Added Cowl Flap Position Placard. Added 70 Gal. Fuel System placards. Added Front Seat, Rear Stick and Rear Seat Placards. Revised page numbering system. Table of Contents page numbers changed in accordance with revised numbering system.	Oct. 1, 1975	<i>Richard A. Paul</i>
3	7	Revised Alt. Static Air Placard from 'PUSH ON' to 'ON'.	June 2, 1976	<i>Richard A. Paul</i>

Revised material is indicated on the applicable page by a black vertical line

* For Chief, Engineering & Manufacturing Branch, Great Lakes Region, FAA.

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1.	Limitations	4
1.1	Airspeed Limitations	4
1.2	Powerplant Limitations	4
1.3	Weight and Balance	5
1.4	Flight Load Factors	5
1.5	Kinds of Operation	5
	Placards	6
2.	Normal Procedures	8
2.1	Preflight Check	8
2.2	Pre-Start Check	9
2.3	Engine Start	9
2.4	Cockpit Pre-Flight	9
2.5	Engine Run-up	9
2 2.6	Take-Off	9
2.7	Climb	9
2.8	Cruising	11
2.9	Landing Check-List	11
2.10	Balked Landing	11
2.11	After Landing	11
2.12	Shut Down & Securing Aircraft	11
3.	Emergency Procedures	12
3.1	Altimeter and Airspeed Malfunction	12
3.2	Engine Fire (Ground)	12
3.3	Engine Fire (Flight)	12
3.4	Electrical System Malfunction/Fire	13
3.5	Emergency Exits	13
3.6	Spin Recovery	13
3.7	Wire Cutter/Deflector Inst.	13
4.	Loss of Altitude in a Stall	14
4.1	Power off Stalls	14
4.2	Power on Stalls	14
5.	Performance Information	15
5.1	Climb Speed	15
5.2	Service Ceiling	15
5.3	Stall Speeds	15
5.4	Airspeed Corrections	15
6.	Loading Information	16
6.1	Moment and Loading	16
6.2	Weight and Balance	16
6.3	Equipment List	16
6.4	Weight and Balance Report	18
6.5	Equipment List	19

AIRPLANE FLIGHT MANUAL-BELLANCA MODEL 86CBC

1.0 LIMITATIONS: COMPLIANCE WITH THIS SECTION IS MANDATORY

1.1 AIRSPEED LIMITATIONS

SPEED DESIGNATION	CALIBRATED AIRSPEED		AIRSPEED INDICATOR MARKING
	MPH	KNOTS	
Maneuvering (V_A)	115	100	None
Normal operating range	57-130	50-113	Green Arc
Flap operating range	52-100	45-87	White Arc
Maximum structural cruising (V_{NO})	130	113	
Caution range	130-162	113-141	Yellow Arc
Never-exceed (V_{NE})	162	141	Red Radial Line

GREEN ARC extends from power-off stall speed flaps up (V_{S1}) to maximum structural cruising speed (V_{NO}).

YELLOW ARC extends from maximum structural cruising speed to never-exceed speed (V_{NE}). Operate in this range with caution, and only in smooth air.

WHITE ARC extends from full flap stall speed power off (V_{SF}) to maximum flap speed (V_{FE}).

RED RADIAL LINE marks the never-exceed speed, which is the maximum safe airspeed.

1.2 POWERPLANT LIMITATIONS

ENGINE: Lycoming O-360-C2A cr ~~DE~~ **A 76725**

ENGINE LIMITS: For all operations, 2700 rpm (180 hp)

FUEL: 91/96 minimum grade aviation gasoline (100/130 may be used 100% of time). *Av gas 6.6 lbs per gallon*

PROPELLER: McCauley fixed pitch Model 1A200HFA
 Diameter limits 80" to 79". Approved pitch range 41" thru 47".

Caution: Avoid operation between 1700 and 2100 RPM during descending flight.

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

POWERPLANT INSTRUMENT MARKINGS

INSTRUMENT	MARKINGS
Cylinder Head Temperature	Green Arc 150 - 500 °F Red Radial 500 °F
Oil Temperature	Green Arc 100° - 245 °F Red Radial 245 °F
Oil Pressure	Green Arc 60 - 100 psi Yellow Arc 25 - 60 psi Red Radial 25 psi & 100 psi
Tachometer	Green Arc 500-1700 RPM Yellow Arc 1700-2100 RPM Green Arc 2100-2700 RPM Red Radial 2700 RPM

1.3 WEIGHT AND BALANCE

MAXIMUM GROSS WEIGHT: 2150 lb.

CENTER-OF- GRAVITY LIMITS: (+14.2 in.) to (+19.2 in.) at 2150 lb.
 (+10.5 in.) to (+19.2 in.) at 1450 lb. or less
 Straight line variation between points given.

DATUM: Wing leading edge

Each operator must assure that the airplane is properly loaded.

1.4 FLIGHT LOAD FACTORS

MANEUVERING LOAD FACTORS AT 2150 LB. GROSS WEIGHT:

Flaps Up: Positive 3.8 Negative 1.52
 Flaps Down: Positive 2.0

1.5 KINDS OF OPERATION

Only VFR, day or night, operation are approved. Flight into known icing conditions is not approved.

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

PLACARDS

IN FULL VIEW OF PILOT

"MANEUVERING SPEED 115 MPH (100 KNOTS) CAS
DEMONSTRATED CROSSWIND VELOCITY 17 MPH (15 KNOTS)"

"THIS AIRPLANE MUST BE OPERATED AS A NORMAL CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS STATED IN THE FORM OF PLACARDS, MARKINGS AND MANUALS, DAY OR NIGHT VFR. SOLO FRONT SEAT ONLY. ACROBATIC MANEUVERS, INCLUDING SPINS, ARE PROHIBITED. THIS AIRPLANE IS NOT APPROVED FOR FLIGHT IN ICING CONDITIONS."

"NO SMOKING" (WHEN ASHTRAYS NOT INSTALLED)

"SPINS PROHIBITED"

"AVOID 1700 - 2100 DURING DESCENT"

"THIS AIRPLANE IS EQUIPPED WITH GROUND ADJUSTABLE COWL FLAP. COWL FLAP POSITIONS: -FULL CLOSED (USE ONLY BELOW 70⁰ OAT) -INTERMEDIATE -FULL OPEN"

ADJACENT TO FUEL GAUGE (WITH 70 GALLON FUEL SYSTEM ONLY)

"TO ASSURE MAXIMUM USEABLE FUEL CAPACITY (70 GALLONS), FUEL TANKS MUST BE FILLED SLOWLY DURING LAST 10 GALLONS EACH SIDE"

ON FRONT SEAT REAR LEG (ADJUSTABLE FRONT SEAT ONLY)

"REAR SEAT P/N 7-1500 OR 7-1501 AND REAR CONTROL STICK P/N 4-1711 REQ'D WITH THIS SEAT INSTALLATION"

ON REAR CONTROL STICK (WITH ADJUSTABLE FRONT SEAT ONLY)

"REAR STICK P/N 4-1711"

ON REAR SEAT FRONT LEG (WITH ADJUSTABLE FRONT SEAT ONLY)

"REAR SEAT P/N 7-1500" OR "REAR SEAT P/N 7-1501"

IN BAGGAGE COMPARTMENT

"MAXIMUM BAGGAGE 100 LBS."

ON FORWARD LEFT SIDE WINDOW

"DO NOT OPEN ABOVE 130 MPH"

ABOVE FUEL SHUTOFF ROD

"FUEL 35 GAL USEABLE-DOWN ON" (WITH 35 GAL. FUEL SYSTEM)

"FUEL 70 GAL USEABLE-DOWN ON" (WITH 70 GAL. FUEL SYSTEM)

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

ON EMERGENCY DOOR RELEASE HANDLE

"EMERGENCY DOOR RELEASE-
PULL PIN, PULL HANDLE"

TOP HALF CABIN DOOR-FWD.

"DO NOT EXCEED 90 MPH WITH DOOR OPEN"

ADJACENT TO ALTERNATE STATIC AIR VALVE

"ALT. STATIC AIR-ON"

RIGHT WINDOW SILL (WHEN FOLDING REAR SEAT IS INSTALLED)

"SEAT BACK RESTRAINER CABLE MUST BE CONNECTED BEFORE FLIGHT UNLESS CONTROL
STICK IS REMOVED"

ADJACENT TO STROBE LIGHT SWITCH

"TURN OFF STROBE LIGHTS WHEN TAXIING IN VICINITY OF OTHER AIRCRAFT OR DURING
FLIGHT THROUGH CLOUD, FOG OR HAZE. STANDARD POSITION LIGHTS TO BE ON FOR ALL
NIGHT OPERATIONS."

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

2. NORMAL PROCEDURES

2.1 PREFLIGHT CHECK (SEE PAGE 10)

- 1)
 - a. Release controls.
 - b. Check ignition switches "OFF".
 - c. Check fuel quantity on fuel gauges.
 - d. Fuel valve "ON".
 - e. Inspect seat belt for condition.
 - f. Secure rear seat belt and shoulder harness if not in use.
 - g. Emergency locator transmitter - armed.
- 2)
 - a. Check right wing root cover for security.
 - b. Check flaps for freedom of movement and security.
 - c. Check aileron for freedom of movement and security.
 - d. Check wing & struts for general condition.
- 3)
 - a. Check right main wheel for proper inflation.
 - b. Visually check fuel quantity, then check filler cap security.
 - c. Check pitot-static tube for stoppage.
- 4)
 - a. Check oil level and secure dip stick. Inspect engine compartment for general condition, fuel leaks, oil leaks, etc.
 - b. On first flight each day, drain fuel from gascolator.
 - c. Check windshield for cleanness.
 - d. Check prop for nicks, and prop spinner for security.
 - e. Check air filter for cleanliness and security.
 - f. Check that the oil dip stick access door is properly latched.
- 5)
 - a. Check left main wheel for proper inflation.
 - b. Check left fuel tank quantity, then check filler cap security.
 - c. Inspect stall warning vane for freedom.
 - d. Inspect fuel vent for stoppage.
- 6)
 - a. Check wing root cover for security.
 - b. Check aileron for freedom of movement and security.
 - c. Check flap for freedom of movement and security.
 - d. Check wing & struts for general condition.
- 7)
 - a. On first flight each day, drain fuel from aft fuselage drain.
 - b. Inspect bottom of aircraft for general condition.
- 8)
 - a. Check tail surfaces & brace wires for general condition.
 - b. Check control surfaces for freedom of movement and security.
 - c. Check tail wheel security and proper inflation.

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCEC

2.2 PRE-START CHECK

1. Seat belts--Adjust and secure.
2. Fuel valve handle--"ON".
3. Brakes--Test and set.
4. Radios and electrical equipment--"OFF".

2.3 ENGINE START

1. Mixture--"rich".
2. Carburetor Air--cold.
3. Throttle cracked open.
4. Prime--as required.
5. Propeller area--clear.
6. Master switch--"ON".
7. Ignition switches--"ON".
8. Starter button--"start". (release when engine starts)
9. Oil pressure--check.

2.4 COCKPIT PRE-FLIGHT

1. Cabin door--latched.
2. Flight controls--Check for freedom and operation.
3. Trim tab--take-off setting.
4. Flight instruments and radios--set.

2.5 ENGINE RUN-UP

1. Throttle setting--1800 rpm.
2. Magnetos--check (200 RPM maximum drop - 50 RPM max. differential between mags.)
3. Carburetor heat--Check operation.
4. Engine instruments--within green arc.

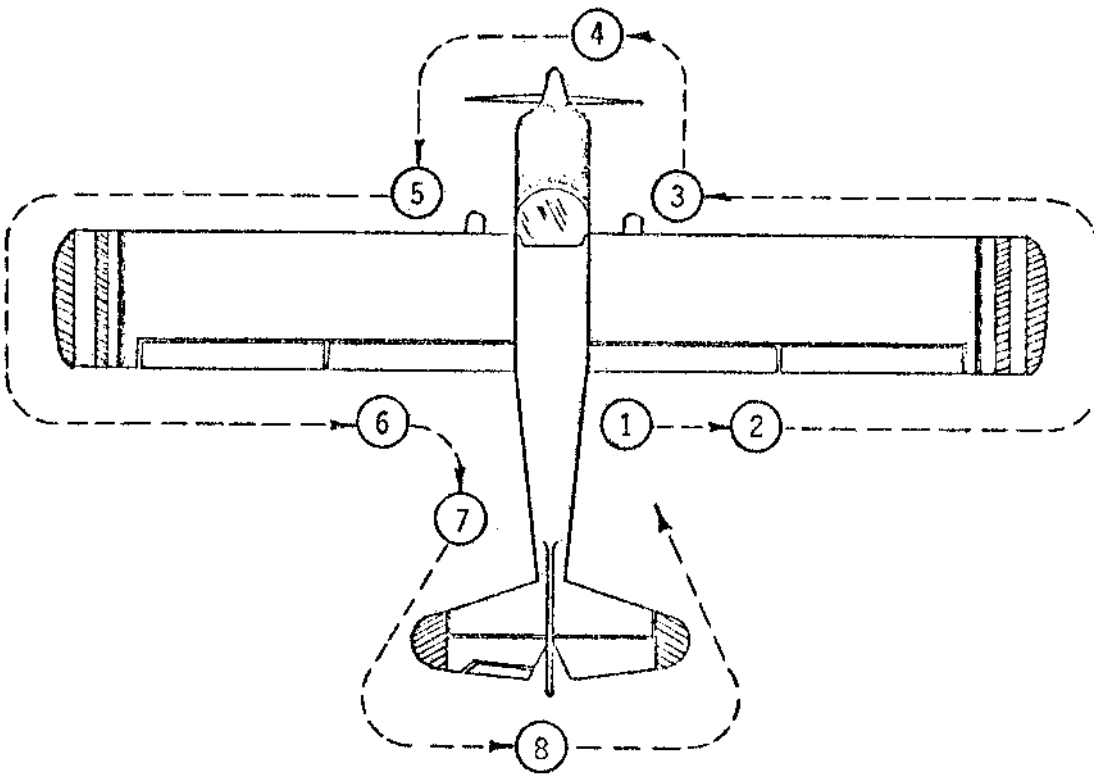
2.6 TAKE-OFF

1. Flaps up.
2. Carburetor heat--cold.
3. Throttle--full open.
4. Mixture full rich. (or as required by field elevation)
5. Engine instruments within green arc.

2.7 CLIMB - (NORMAL)

1. Throttle - full open.
2. Mixture - rich or leaned as required.
3. Engine instruments--within green arc
4. Climb speed - as recommended by the manufacturer.

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC



PREFLIGHT INSPECTION

(See page 8)

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

2.8 CRUISING

1. Power--as desired. (2700 RPM max.)
2. Elevator Trim--adjust.
3. Mixture--Lean to best power with 75% power or less.
4. Engine instruments--within green arc.
5. Carburetor heat--as required.

2.9 LANDING CHECK-LIST

1. Mixture--rich.
2. Carburetor heat--check operation and return to cold. (Unless icing conditions exist)
3. Airspeed--75-80 mph.
4. Flaps--as desired. (below 100 mph)

2.10 BALKED LANDING (GO AROUND)

1. Throttle--full open.
2. Carburetor heat--cold.
3. Airspeed 75 mph.
4. Flaps "UP".
5. Trim--Re-set.

2.11 AFTER LANDING

1. Carburetor heat--cold.
2. Flaps--"UP".

2.12 SHUT DOWN & SECURING AIRCRAFT

1. Parking--into the wind if possible.
2. Park brake--set.
3. Radios and electrical equipment--"OFF".
4. Mixture--idle cut-off (pulled full out).
5. Ignition and master switches--"OFF".
6. Control lock--secure seat belt around front control stick.
7. Flaps--full down.

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCB

3. EMERGENCY PROCEDURES

3.1 ALTIMETER AND AIRSPEED MALFUNCTION

If the static air system is blocked by ice or other contamination, select alternate static air. The corrections for altimeter and airspeed are as follows (windows & vents closed).

When Alternate Static Air is ON

Altimeter Correction: Subtract 80 ft. from instrument indication
Airspeed Correction: Subtract 8 mph from instrument indication

3.2 ENGINE FIRE (GROUND)

1. Mixture--idle cut-off.
2. Fuel valve off.
3. Master & magneto switches - OFF.
4. Cabin heater off.
5. Extinguish with fire extinguisher.

3.3 ENGINE FIRE (FLIGHT)

1. Fuel valve-off.
2. Master switch - OFF.
3. Cabin heaters - OFF.
4. Accomplish emergency landing and evacuate aircraft.

3.4 ELECTRICAL SYSTEM MALFUNCTION/FIRE

The ammeter indicates current to or from the battery.

A steady discharge on the ammeter indicates an inoperative alternator system. Turn off unnecessary electrical equipment to reduce battery drain. Master switch may be turned off to conserve battery power if necessary.

Indication of electrical fire(s) may be wisps of smoke or the smell of hot or burning insulation. Should an electrical fire develop, the following procedures are recommended:

- a. Master switch "OFF".
- b. All electrical switches "OFF".
- c. Open air vents or windows ONLY if absolutely necessary for ventilation.
- d. Proceed to nearest suitable airport for landing.

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

3.4 ELECTRICAL SYSTEM MALFUNCTION/FIRE (CONT)

If electrical power is necessary for safety of flight under the above conditions, the following procedures are recommended:

- a. Disengage and isolate each power circuit.
- b. Engage each circuit separately. Allow sufficient time to analyze for faulty operation.
- c. When faulty circuit is identified, disengage faulty circuit.
- d. Properly functioning circuits may be re-engaged.
- e. Land as soon as practicable for repairs.

3.5 EMERGENCY EXITS

The right lower door can be removed by releasing the upper window latches and pulling the safety pin and then pulling up on the red emergency door release handle and pushing door away from aircraft. If necessary, exit may be made from left side of aircraft by opening left window.

3.6 SPIN RECOVERY

Spins are not approved. If a spin is inadvertantly entered, immediate recovery should be initiated. The recovery procedure is as follows:

- 1) Throttle to idle
- 2) Apply full opposite rudder and simultaneously apply nose down elevator to break the stall.
- 3) Neutralize ailerons.
- 4) When rotation stops neutralize rudder & elevator and bring nose up smoothly.

3.7 WIRE CUTTER/DEFLECTOR INSTALLATION

The operation and function of the wire cutter/deflector installation (optional equipment) has not been demonstrated.

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

4. LOSS OF ALTITUDE IN A STALL

4.1 POWER OFF STALLS

The loss of altitude during the recovery from a throttle closed stall may be as much as 200 feet.

4.2 POWER ON STALLS

The loss of altitude during the recovery from a power on stall may be as much as 150 feet.

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

The following performance data for the Model 8GCBC is not part of the FAA approved section.

5. PERFORMANCE INFORMATION

5.1 CLIMB SPEED 2150 LBS. GROSS WEIGHT FLAPS UP

BEST RATE-OF-CLIMB SPEED AT SEA LEVEL: 80 MPH (70 knots) CAS
 BEST RATE-OF-CLIMB SPEED DECREASES APPROX. 1/2 MPH PER 1000 FT.

5.2 SERVICE CEILING (R/C = 100 FPM) 2150 LBS GROSS WEIGHT FLAPS UP

Service Ceiling: 14,500 (8041 Propeller)

5.3 STALL SPEEDS

Stall Speeds at 2150 lb. gross weight, throttle closed, wings level

<u>FLAPS</u>	<u>STALL SPEED (CAS)</u>
0	57 mph (50 knots)
27	52 mph (45 knots)

5.4 AIRSPEED CORRECTION

<u>FLAPS UP</u>		<u>FLAPS DOWN (27)</u>	
<u>MPH IAS</u>	<u>CAS</u>	<u>MPH IAS</u>	<u>CAS</u>
50	58	50	57
60	66	60	66
70	74	70	73
80	81	80	81
90	90	90	90
100	98	102	100
110	109		
120	119		
130	128		
140	139		
150	150		
162	162		

AIRPLANE FLIGHT MANUAL - BELLANCA MODEL 8GCBC

6. LOADING INFORMATION

Weight and balance data is prepared individually for each airplane.

Page 17 shows the moment diagram and loading envelope applicable to The Model 8GCBC. A weight and balance report containing the airplane empty weight and moment and the approved equipment list is attached to this manual. These items are explained below.

6.1 MOMENT AND LOADING

The airplane loading envelope shows the allowable limits of total airplane moment from minimum weight to maximum gross weight. The moment diagram gives the moment contribution of the pilot, passenger, fuel, oil and baggage. To find the moment contribution of a 200-lb. passenger, for instance, move up vertically along the weight scale to 200 lb., and proceed as shown by the dotted line on page 17 to obtain the moment of 8600 in. lbs.

To determine if a particular weight configuration is acceptable, find the total weight and the total moment by summing the contribution of each component including the empty airplane (the oil moment is negative and must be subtracted). On the loading diagram, locate the intersection of a horizontal line at the total weight and a vertical line at the total moment. If this intersection lies within the indicated envelope the configuration is acceptable.

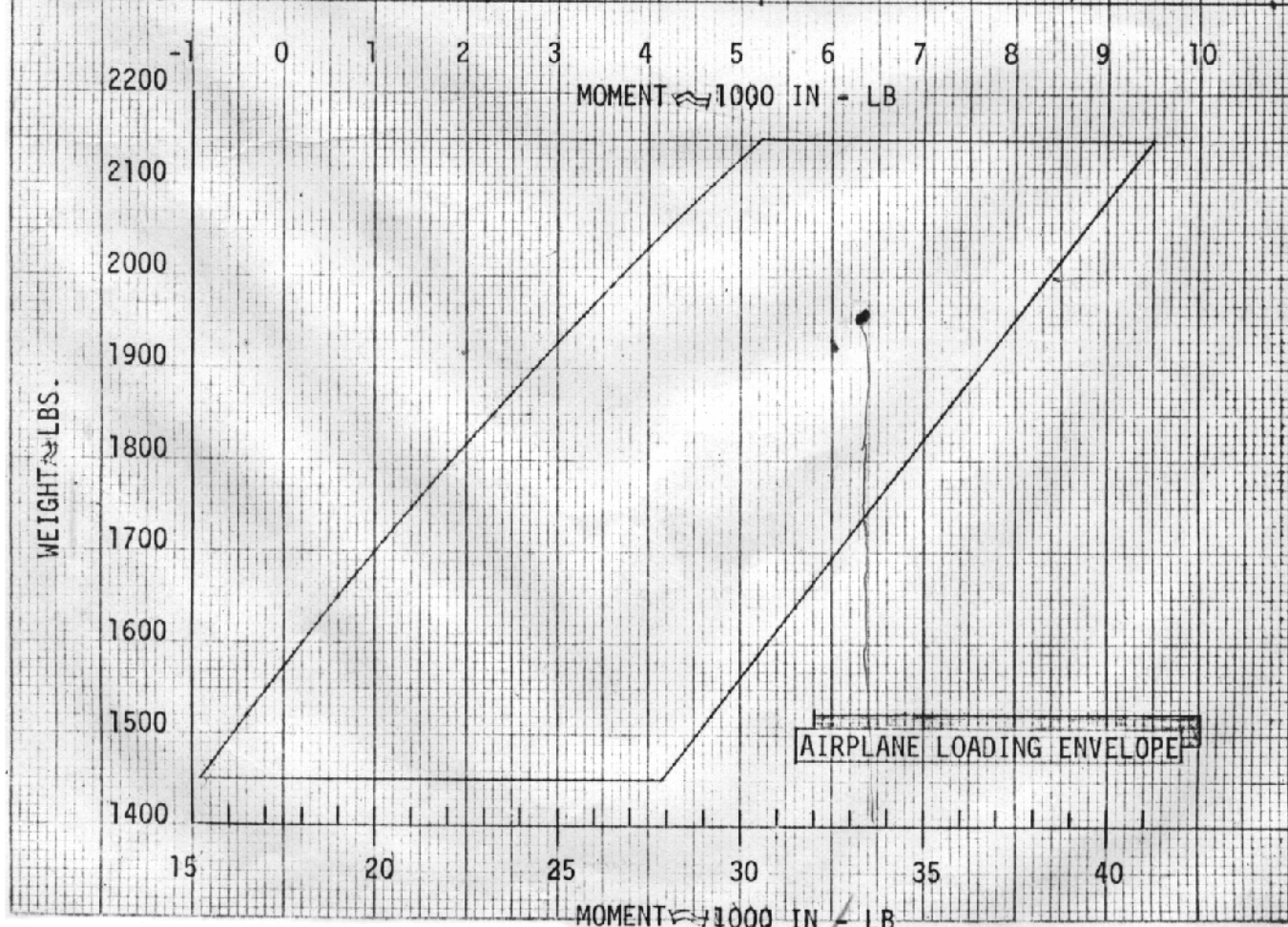
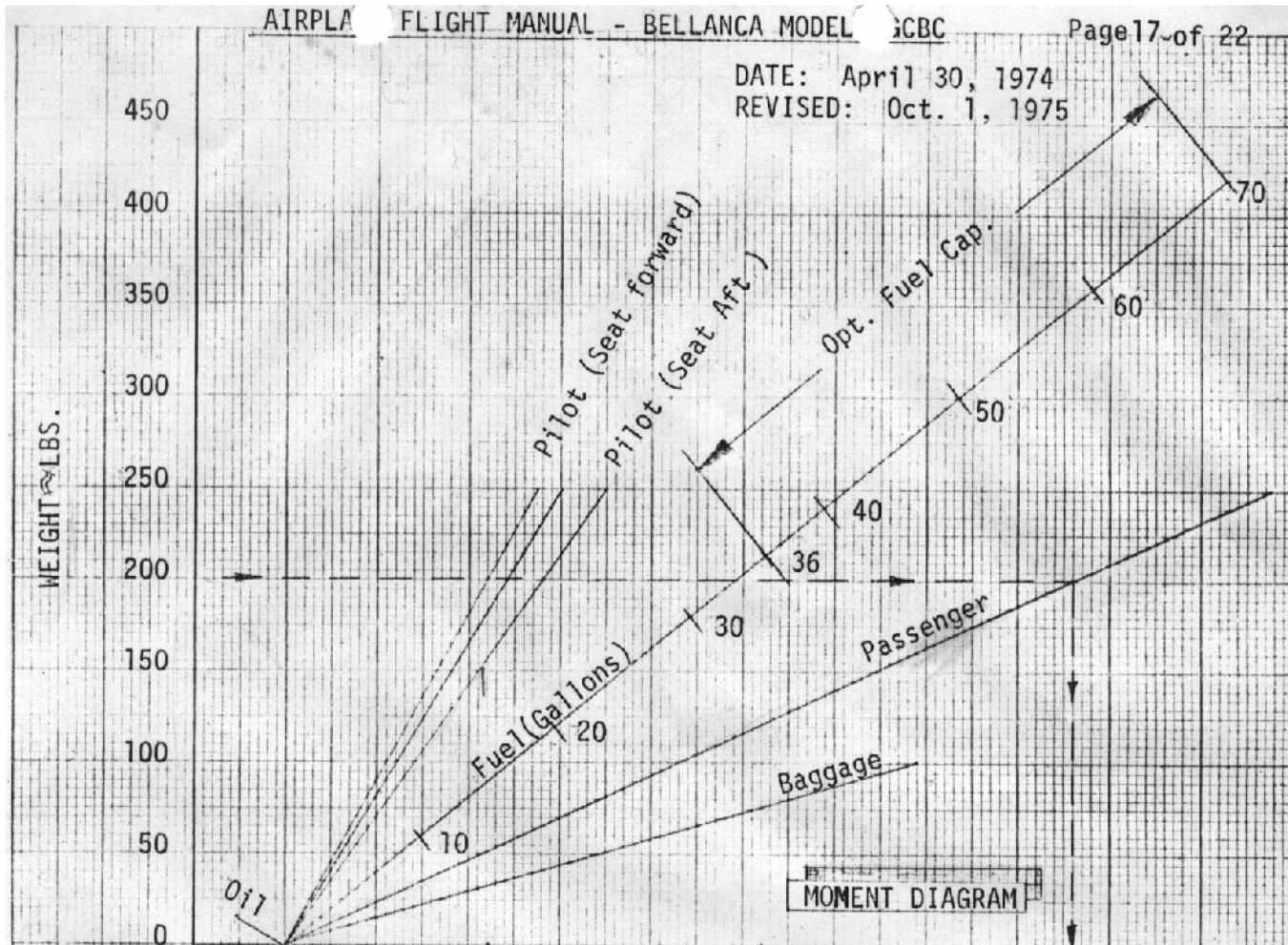
6.2 WEIGHT AND BALANCE

The weight and balance report gives the official aircraft empty weight, empty moment, empty C.G., and useful load. The empty weight and center of gravity includes the unuseable fuel for the particular fuel system installed.

6.3 EQUIPMENT LIST

Each item installed on the airplane at the time of weighing is marked with an "X" on the equipment list. The weight and moment arm of each item are also shown.

DATE: April 30, 1974
 REVISED: Oct. 1, 1975



CG Limits WT > 1450# ⇒ 14.2 TO 19.2

N7672S
Aug-18 -2002

	Weight	Arm	Moment
Old CG	1394.2	14.34	20001.21
Removed Battery box and Battery	-28.4	86	- 2442.4
Install baggage Compartment	10.2	98	999.6
Install battery & box	16.5	-23.5	387.75
totals	1392.5	13.05	18170.66
New useful load	= 757 lbs		

6.5 EQUIPMENT LIST

Suffix letters on item numbers:

R: Required for FAA certification

S: Standard equipment

A: Optional equipment not required

O: Optional equipment replacing standard or required item

ITEM NO.	X	DESCRIPTION	DWG.	WT, LB	ARM, IN
1R	x	Engine, Lycoming O-360-C2A	7-1481	292.44	-41.22
2R	x	Propeller, McCauley 1A200HFA8041	3-1556	48.00	-58.58
3S	x	Spinner Installation	3-1556	3.82	-60.61
4R	x	Oil Cooler	7-1481	2.95	-29.16
5R	x	Filter - Carburetor Air	7-1475	.50	-45.00
6R	x	Tachometer - Recording	7-1422	.66	-5.40
7R	x	Gage, Oil Temperature	7-1422	.57	-15.00
8R	x	Gage, Oil Pressure	7-1422	.35	-5.80
9R	x	Gage, Ammeter	7-1422	.26	-5.80
10A		Engine Hour Meter	3-1354	.80	-5.00
11A	x	Cylinder Head Temp.	7-1422	1.29	-6.11
12A		Manifold Pressure	7-1422	1.19	-8.69
13R	x	Altimeter - Sensitive	7-1422	1.40	-5.30
14R	x	Airspeed Indicator	7-1422	.58	-5.00
15A		Rate of Climb	7-1422	1.00	-5.00
16A		Turn & Bank - Electric	7-1422	2.00	-5.00
17A	x	Turn Coordinator	7-1422	2.00	-5.00
18A	x	Artificial Horizon Gyro	7-1422	2.19	-5.00
19A	x	Directional Gyro	7-1422	2.63	-5.00
20A	x	Suction Gage	7-1422	.22	-4.00

EQUIPMENT LIST

ITEM NO.	X	DESCRIPTION	DWG.	WT, LB	ARM, IN
21A	X	Vacuum Pump Installation	7-1125	2.81	-28.31
22A		Accelerometer	7-1422	1.00	-5.00
23A		8 Day Clock	7-1422	.22	-4.00
24A		Gage, O.A.T.	7-1474	.17	6.00
25R	X	Compass	7-1422	.77	-6.00
26A		Remote Indicating Compass	4-1448	7.60	.55
27R	X	Stall Warning, Safe Flite	4-1401	.85	-1.74
28A		Cigar Lighter	7-1422	.20	-1.50
29A		Larago Emerg. Locator Trans.	3-1590	3.00	68.38
30A		Cabin Light	7-1422	.57	24.00
31R	X	Battery 35 AMP Gill PSC-11 w/Box	4-1599	36.00	86.00
32R	X	Relay, Battery	4-1645	.70	86.00
33R	X	Relay - Overvolt	4-1645	.50	-24.47
34R	X	Position Light and Wing Tip Strobe	3-1512	4.25	-4.00
35R	X	Tail Light	7-1487	.41	200.80
36R	X	Starter - Prestolite	7-1481	17.00	-46.44
37R	X	Alternator - Prestolite	7-1481	10.63	-50.36
38R	X	Voltage Regulator - Prestolite	7-1481	.65	-24.40
39S	X	Landing Lite	7-1475	.47	-54.32
400		Brake Cylinder Gerdes A-110-10 (Heel)	4-1557	1.00	-12.63
41R	X	Brake Cylinder Gerdes A-110-10 (Toe)	4-1624	1.00	-21.38
42R	X	Wheel and Brake, Cleveland 40-47 30-32 (Both Sides)	7-1464	25.78	-.93
43R	X	Tire and Tube 8.50 x 6, Type III 6, or 4 Ply (Both Sides)	7-1464	37.50	.25
44R	X	Tailwheel, Scott 3200	4-1636	8.25	195.50
45A	X	Glider Tow	7-1143-2	4.00	111.00

EQUIPMENT LIST

ITEM NO.	X	DESCRIPTION	DWG.	WT, LB	ARM, IN
46A	X	Wire Cutter and Deflector Kit	7-1488	2.46	18.00
47A	X	Wire Cutter - Gear	7-1464	2.38	-1.00
48A	x	Landing Gear Step L/R	3-1559	1.50	1.00
49R	x	Seat Inst. Front - Adjustable	7-1499	15.63	16.00
50R	x	Seat Inst. Rear	4-1708	13.63	47.00
510		Seat Inst. Rear Wide	4-1709	18.44	47.00
52A		Fire Extinguisher	7-1474	5.38	-5.30
53A		Rear Seat Heater	7-1478	2225	-9.00
54A		Ash Tray (2) Front & Rear	7-1269	.75	24.25
55R	x	Shoulder Harness Front	3-1599	2.13	20.00
56R	x	Seat Belt Rear 500668-5	4-1642	1.00	45.63
570		Shoulder Harness Rear	3-1354	2.13	60.00
58S	x	Shoulder Strap Rear	3-1557-1	1.00	60.00
590		Shoulder Strap (Inertia) Rear	3-1557	1.50	60.00
60R	x	Cargo Net	3-1475	1.00	60.00
61A	x	Greenhouse Roof	7-1468	3.00	24.00
62A	x	Aileron Gap Kit	4-1477	1.00	48.00
63A	x	Seaplane Corr. Proofing Per CFP-2	CFP-2	5.00	47.38
64A		Genave Alpha 200B	4-1511	5.58	-6.00
65A		Genave Beta 5000 Transponder	4-1549	3.25	-5.84
66A		Narco Escort 110G	4-1632	4.58	-6.00
67A		Narco Comm. 10A, Nav. 10	4-1634	6.00	-5.00
68A		Narco Comm. 11AH, Nav. 11	4-1633	6.00	-5.00
69A		Narco AT-50A Transponder	4-1616	3.25	-5.84
70A		Intercomm Inst. (Less Mikes & Headsets)	4-1635	.25	14.00
71A		Trans. Antenna Broad Band Spike	4-1631	.50	92.00
72A		Nav. Antenna - Fork	3-1542	1.19	101.00

10/1/75

EQUIPMENT LIST

ITEM NO.	X	DESCRIPTION	DWG.	WT, LB	ARM IN
73A	x	Cabin Speaker	7-1474	1.36	33.00
74A		Microphone Telex TEL-66 Front	2-2078	.38	9.00
75A		Microphone Telex TEL-66 Rear	2-2078	.38	43.00
76A		Microphone Narco M-700A Front	2-2078	.50	9.00
77A		Microphone Narco M-700A Rear	2-2078	.50	43.00
78A		Headset Telex A610-1 Front	2-2078	.50	9.00
79A		Headset Telex A610-1 Rear	2-2078	.50	43.00
80A		70 Gallon Fuel System - Tank Inst. only (Both sides)	7-1495	39.50	22.50
	x	Battery Gill Aerogell 781622		36.00	86.00
	x	External Batt. Relay/ Socket		1.20	88.00
	x	Sigtronics Intercom		.25	14.00
	x	Inst. Panel Lights, Map light Micro switches L.H. Lower Panel		Negligible	
	x	Banner Tow Hitch #1		4.00	111.00
	x	Banner Tow Hitch #2		4.00	111.00
	x	Rudder Horn Guard		1.75	177.00

N7672S

04/01/94

PARTS LISTING

PART	P/N	MFG.
Alternator	ALY 8420	Prestolite
Alt. Belt		
Oil Cooler	8526251 Model AP07AU - 06-03	Harrison
Overvolt	X17621	Wico
Starter	MZ4218R	Prestolite
Spark Plug	REM 38 E	Champion
Tires (main)	8:50 X 6	
Tires (tail)	280 / 250	
Vacuum Pump	21CC	Airborne
Landing Light	4509	GE