

**"PROPRIETARY"**

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**FAA APPROVED**

**PILOT'S OPERATING HANDBOOK AND**

**FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT**

**FOR**

**BEECHCRAFT MODELS 36, AND A36  
(s/n E-1 through E-2110 except E-1946 and E-2104)**

**NORMAL CATEGORY (Operation in excess of 3600 lb.)  
UTILITY CATEGORY (Operation at 3600 lb. Max. Gross Weight or less)**

REG. NO. N567EB

SER. NO. E-1543

This supplement must be attached to the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual when operated in accordance with STC SA493CH. The information contained herein supplements or supersedes the basic handbook only in those areas listed herein. For limitations, procedures, and performance information not contained in this supplement, consult the basic Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

Permission is hereby given for the following aircraft and only valid when the signature in the approval by is signed by Allan Peterson and the return of the registration slip is validated. Model Only A-36  
Aircraft Call Number N567EB  
Serial E-1543 Kit Ser GWJ020998-001  
Approved By A.P.

FAA APPROVED: Royace H. Prather  
Royace H. Prather, Manager  
Chicago Aircraft Certification Office  
Federal Aviation Administration  
2300 East Devon Avenue  
Des Plaines, IL 60018

Date: JUN 22 1997

LOG OF REVISIONS

Revision	Description	FAA Approved
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1	Correction - typographical error - Page 3 of 7	
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*Michael Anderson*  
AGC-117C  
JAN 22 1997

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**SECTION I GENERAL**

This supplement contains revised information for the basic airplane when operated in accordance with STC SA493CH. The information contained herein supplements or supersedes the basic handbook only in those areas listed herein. Consult the Pilot's Operating Handbook and FAA Approved Flight Manual for limitations, procedures, and performance information not contained herein.

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**DESCRIPTIVE DATA**

**MAXIMUM CERTIFIED WEIGHTS**

Maximum Ramp Weight.....	3713 lb.
Maximum Take-off Weight.....	3700 lb.
Maximum Landing Weight.....	3700 lb.
Maximum Zero Fuel Weight.....	No Structural Limitation
Maximum Weight in Baggage Compartment.....	400 lb.

**SPECIFIC LOADING**

Wing Loading at Maximum Take-off Weight (36).....	20.9 lb./sq. ft
Wing Loading at Maximum Take-off Weight (A36).....	20.5 lb./sq. ft
Power Loading at Maximum Take-off Weight.....	12.33 lb./hp

**SECTION II LIMITATIONS**

**GENERAL**

This airplane is eligible for operation in accordance with STC SA493CH and Flight Manual Supplement FMS-36GW196-3 only when equipped with a Continental IO-550-B engine, and D'Shannon Products Cooling Air Baffles in accordance with D'Shannon Products STC SA2200SW.

**AIRSPEED LIMITATIONS**

Maneuvering Speed (Va).....	131 Knots CAS
	132 Knots IAS
	151 MPH CAS
	152 MPH IAS

Date: 2 2 1997

J.V.E., Inc.

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Document No: FMS-36GW196-3

Revision 1

**WEIGHT LIMITS**

Maximum Ramp Weight.....	3713 lb.
Maximum Take-off Weight.....	3700 lb.
Maximum Landing Weight.....	3700 lb.
Maximum Zero Fuel Weight.....	No Structural Limitation
Maximum Weight in Baggage Compartment.....	400 lb.

**CENTER OF GRAVITY LIMITS(Landing Gear Extended)**

**FORWARD LIMITS**

74.0 inches aft datum to 3100 pounds with straight line variation to 82.5 inches at 3700 pounds.

**AFT LIMIT**

87.7 inches aft datum at all weights.

**MANEUVER LIMITS**

36, A36 through s/n E-1 through 2110 except E-1946 and E-2104. When operated in excess of 3600 lb., this is a NORMAL CATEGORY airplane. Spins and acrobatic maneuvers are prohibited.

**FLIGHT LOAD FACTORS (Operation in excess of 3600 lb.)**

**Positive Maneuvering Load Factors**

Flaps Up.....	3.8 G
Flaps Down.....	2.0 G

Date:

**PLACARDS**

On left side panel (Airspeed values are CAS)  
(36, A36 s/n E-1 through E-2110, except E-1946 and E-2104)

**NORMAL CATEGORY AIRPLANE**  
(WHEN OPERATED IN EXCESS OF 3600 LB. MAX. GROSS WEIGHT)

**AIRSPEED LIMITATION (NORMAL CAT. OPERATIONS)**

MAXIMUM DESIGN MANEUVERING SPEED 151 MPH (131 KNOTS)

OPERATE IN ACCORDANCE WITH FAA APPROVED FAA APPROVED FLIGHT  
MANUAL / PILOT'S OPERATING HANDBOOK. INTENTIONAL SPINS ARE  
PROHIBITED. NO ACROBATIC MANEUVERS APPROVED.

**SECTION III EMERGENCY PROCEDURES**

No change.

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**SECTION IV NORMAL PROCEDURES**

Maneuvering Speed (Va)..... 131 Knots CAS  
132 Knots IAS  
151 MPH CAS  
152 MPH IAS

**SECTION V PERFORMANCE**

The performance of this airplane operated according to STC SA493CH is equal to or better than the performance listed in the original Airplane Flight Manual except that the climb performance and take-off distance chart originally presented for this model do not apply to this STC modification. Increased ground roll/distance to 50 ft. altitude can be expected. Additionally, fuel consumption and range/endurance information originally presented for this model do not apply to this STC modification. Increased fuel consumption and reduced range/endurance can be expected.

**SECTION VI WEIGHT AND BALANCE**

Moment limits are based on the following weight and center of gravity limit data (landing gear down):

<u>Weight Condition</u>	<u>Forward CG Limit</u>	<u>Aft CG Limit</u>
3700 lb. (Max. take-off or landing)	82.5	87.7
3600 lb.	81.0	87.7
3100 lb. or less	74.0	87.7

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Following is a table of moment limits versus weight for gross weights between 3100 and 3700 lb.

<u>Weight(lb.)</u>	<u>Minimum Moment/100</u>	<u>Maximum Moment/100</u>
3100	2294	2719
3200	2413	2806
3300	2534	2894
3400	2659	2982
3500	2786	3070
3600	2916	3157
3610	2928	3166
3620	2943	3175
3630	2955	3184
3640	2968	3192
3650	2982	3201
3660	2994	3210
3670	3008	3219
3680	3021	3227
3690	3033	3236
3700	3048	3245

**SECTION VII SYSTEMS DESCRIPTION**

No change.

Date: JAN 27 1987

**SECTION VIII HANDLING, SERVICING AND MAINTENANCE**

No Change.

**SECTION IX SUPPLEMENTS**

No Change.

**SECTION X SAFETY INFORMATION**

No Change.

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