

Airworthiness Directive

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

Amendment 39-3069; **AD 77-22-05**

Airworthiness Directives; Bellanca (Champion) Models 7ECA, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBC, 7HC and 7KCAB Airplanes

PDF Copy (If Available):

▼ Preamble Information

AGENCY: Federal Aviation Administration, DOT

DATES: Effective November 7, 1977.

▼ Regulatory Information

77-22-05 BELLANCA (CHAMPION): Amendment 39-3069. Applies to models

7ECA	S/Nos. 1 thru 722, 725, 723-70 thru 1238-78
7GC	S/Nos. All
7GCA	S/Nos. All

7GCAA	S/Nos. 1 thru 198, 200 thru 204, 276, 205-70 thru 355- 78
7GCB	S/Nos. All
7GCBC	S/Nos. 1 thru 201, 205, 207, 202-70 thru 1024-78
7HC	S/Nos. All
7KCAB	S/Nos. 1 thru 208, 210 thru 226, 270, 271, 209-70 thru 617-77

Certificated in all categories.

Compliance is required as indicated unless already accomplished.

Part I Airspeed Restriction/Front Strut Replacement

a. Effective immediately, unless already accomplished, attach the following operating limitation placard near the airspeed indicator in full view of the pilot:

"DO NOT EXCEED 153 MPH CAS MAXIMUM OPERATING SPEED"

The letters on this placard must be at least 1/8 inch in height and on suitable material which can be expected to remain affixed in position and resist deterioration. This placard may be installed by the pilot.

b. Within three (3) months after the effective date of this airworthiness directive, accomplish either:

1. Remove red radial marking on airspeed indicator at 162 MPH (141 KTS). Remark indicator with red radial line at 153 MPH (133 KTS). Change Operations Limitations Card as follows: Replace Airspeed Limitations "GLIDE or DIVE-----162 MPH CAS" with "MAXIMUM OPERATING SPEED----153 MPH CAS". Bellanca Service Kit 256 may be used to accomplish this. (Bellanca Service Letter C-127 pertains to this subject.) After marking indicator, the placard required per paragraph (a) above may be removed, or

2. Remove wing front lift struts Bellanca P/N 5-144 and install replacement wing front lift struts Bellanca P/N 5-392 (Bellanca Service Letter C-127 and Service Kit 257 pertain to this subject). After the struts are replaced, the placard per paragraph (a) above may be removed and the airspeed markings and Operations Limitations Card per paragraph (b.1) above may be returned to their original 162 MPH CAS markings.

NOTE: The Bellanca P/N 5-392 strut may be identified by a square tube fitting at the wing end.

Part II Acrobatic Maneuvers Placard/Accelerometer Markings/Operating Limitations Card Change. Applies to All Bellanca (Champion) Acrobatic Models As Indicated. (Bellanca Service Letter C-128 pertains to this subject.)

a. Effective immediately, flight operations shall be conducted in accordance with the limitations specified below.

b. Within three (3) months after the effective date of this airworthiness directive unless already accomplished, replace the acrobatic maneuvers placard and remark the

accelerometer if applicable as indicated below.

1.	For Model	7ECA -	S/Nos. 1 thru 722, 725, 723-70 thru 1238-78
		7GCAA -	S/Nos. 1 thru 198, 200 thru 204, 276, 205-70 thru 355-78

Install Bellanca placard (Bellanca Service Kit 258) or facsimile on suitable material which can be expected to remain affixed in position and resist deterioration as shown below.

LANDPLANE APPROVED FOR ONLY FOLLOWING ACROBATIC MANEUVERS

MANEUVER	ENTRY SPEED IAS	
	MPH	KNOTS
CHANDELLE, LAZY EIGHT	120	104
BARREL OR SLOW ROLL	120	104
IMMELMANN	145	126
LOOP OR CLOVER LEAF	140	122
SPLITS	80	70
SNAP ROLL	85	74
HAMMERHEAD TURN	140	122
CUBAN EIGHT	145	126
SPIN	SLOW DECELERATION	

DO NOT EXCEED +5.0 OR -2.0 G LOAD FACTOR. DO NOT EXCEED 135 MPH IAS DURING NEGATIVE G CONDITIONS. DO NOT PERFORM ACROBATICS IN TURBULENT AIR. CAUTION: NEGATIVE G FLIGHT WILL CAUSE LOSS OF OIL AND OIL PRESSURE. TO RECOVER FROM SPIN USE FULL OPPOSITE RUDDER AND NEUTRALIZE ELEVATOR.

2.	For Model	7GCBC -	S/NOS. 1 THRU 201, 205, 207, 202-70 thru 1024- 78
		7GCB -	Aircraft approved in acrobatic category only

Install Bellanca placard (Bellanca Service Kit 259) or facsimile on suitable material which can be expected to remain affixed in position and resist deterioration as shown below.

LANDPLANE APPROVED FOR ONLY FOLLOWING ACROBATIC MANEUVERS

MANEUVER	ENTRY SPEED IAS	
	MPH	KNOTS
CHANDELLE, LAZY EIGHT	120	104
BARREL OR SLOW ROLL	120	104
IMMELMANN	145	126
LOOP OR CLOVER LEAF	140	122
SPLITS	80	70

SNAP ROLL	85	74
HAMMERHEAD TURN	140	122
CUBAN EIGHT	145	126
SPIN	SLOW DECELERATION	

DO NOT EXCEED +5.0 OR -2.0 G LOAD FACTOR. DO NOT EXCEED 135 MPH IAS DURING NEGATIVE G CONDITION. DO NOT PERFORM ACROBATICS IN TURBULENT AIR. CAUTION: NEGATIVE G FLIGHT WILL CAUSE LOSS OF OIL AND OIL PRESSURE. USE OF FLAPS DURING ACROBATICS PROHIBITED. TO RECOVER FROM SPIN USE FULL OPPOSITE RUDDER AND NEUTRALIZE ELEVATOR.

3.	For Model	7KCAB -	S/Nos. 1 thru 208, 210 thru 226, 270, 271, 209-70 thru 404-73, 405-74
			thru 458-74, 460-74 thru 508-75

Install Bellanca placard (Bellanca Service Kit 260) or facsimile on suitable material which can be expected to remain affixed in position and resist deterioration as shown below:

LANDPLANE APPROVED FOR ONLY FOLLOWING ACROBATIC MANEUVERS

MANEUVER	ENTRY SPEED IAS	
	MPH	KNOTS
CHANDELLE, LAZY EIGHT	120	104
BARREL OR SLOW ROLL	120	104
IMMELMANN	145	126
LOOP OR CLOVER LEAF	140	122
SPLITS	80	70
SNAP ROLL	85	74
HAMMERHEAD TURN	140	122
CUBAN EIGHT	145	126
SPIN	SLOW DECELERATION	
LEVEL INVERTED FLIGHT	120	104
135 MPH (117 KTS) IAS		

MAX DO NOT EXCEED +5.0 or -2.0 G LOAD FACTOR. DO NOT EXCEED 135 MPH IAS DURING NEGATIVE G CONDITION. DO NOT PERFORM ACROBATICS IN TURBULENT AIR. INVERTED FLIGHT LIMITED TO 2 MIN - MONITOR OIL PRESS WHILE INVERTED TO INSURE MINIMUM OF 60 PSI. TO RECOVER FROM SPIN USE FULL OPPOSITE RUDDER AND NEUTRALIZE ELEVATOR.

4.	For Model	7KCAB -	S/Nos. 459-74, 509-75 thru 617-77
	Install Bellanca placard (Bellanca Service Kit 261) or facsimile on suitable material which can be expected to remain affixed in position and resist deterioration as shown below		

LANDPLANE APPROVED FOR ONLY FOLLOWING ACROBATIC MANEUVERS

MANEUVER	ENTRY SPEED IAS	
	MPH	KNOTS
CHANDELLE, LAZY EIGHT	120	104
BARREL OR SLOW ROLL	120	104
IMMELMANN	145	126
LOOP OR CLOVER LEAF	140	122
SPLITS	80	70
SNAP ROLL	85	74
HAMMERHEAD TURN	140	122
CUBAN EIGHT	145	126
SPIN	SLOW DECELERATION	
LEVEL INVERTED FLIGHT	120	104
135 MPH (117 KTS) IAS MAX		

DO NOT EXCEED +5.0 OR -2.0 G FACTOR. DO NOT EXCEED 135 MPH IAS DURING NEGATIVE G CONDITION. DO NOT PERFORM ACROBATICS IN TURBULENT AIR. 2 MIN OF INVERTED FUEL NORMALLY AVAILABLE. MOMENTARY OIL PRESSURE INTERRUPTIONS ARE NORMAL. TO RECOVER FROM SPIN USE FULL OPPOSITE RUDDER AND NEUTRALIZE ELEVATOR.

5. If aircraft is equipped with accelerometer, verify that the red radial marks are installed at +5.0 G and -2.0 G. If markings are incorrect, remark indicator.

c. Within the next 30 days after the effective date of this airworthiness directive, unless already accomplished, attach the following placard near the airspeed indicator in full view of the pilot. The placard will be a facsimile of the following on suitable material which can be expected to remain affixed in position and resist deterioration as shown below:

"DO NOT EXCEED 135 MPH IAS DURING NEGATIVE G CONDITION"

This placard is available as a part of the Service Kits described in parts (1) through (4) above.

d. For Model 7KCAB, within three (3) months after the effective date of this airworthiness directive, verify that the Operating Limitations Card presents the following information. If markings are incorrect, remark Operating Limitations Card. Replacement Operating Limitations Cards are available in Bellanca Service Kit 262.

Maneuvering Flight Limit Load Factors

Positive ----- 5.0 g

Negative ----- 2.0 g

DO NOT EXCEED 135 MPH IAS DURING NEGATIVE G CONDITION.

This amendment becomes effective November 7, 1977.

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