

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA2656CE

This certificate, issued to Rockwell Collins, Inc.
400 Collins Road NE, MS 164-100
Cedar Rapids, IA 52498

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product - Type Certificate Number : A20WE
Make : Boeing
Model : 747-100,-100B,-100B SUD,-200B,-200C,-200F,-300, and SR

Description of Type Design Change: Installation of Collins Traffic Alert and Collision Avoidance System TTR-920 (TCAS II) in accordance with: (1) Collins Drawing Index 992-1944-001, as listed on Sheet 2, and (2) Collins Airplane Flight Manual Supplement (AFMS) listed on Sheet 2 or later FAA Approved revisions to (1) or (2).

Limitations and Conditions: (1) Installation of Mode S Transponder, in accordance with STC SA2636CE is a prerequisite to this modification. (2) This approval should not be extended to other specific airplanes of these models on which other previously approved modifications are incorporated, unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that airplane. (3) If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration

Date of application : August 9, 1990

Date reissued : October 10, 1997

Date of issuance : October 3, 1990

Date amended : December 23, 1991; January 21, 1994
September 30, 1999



By direction of the Administrator

Dale R. Koonts
(Signature)

Dale R. Koonts

Manager, DAS-3CE

(Title)

Supplemental Type Certificate

(Continuation Sheet)

Number SA2656CE
(Continued)

Airplane Flight Manual Supplement (AFMS)	Applicable to:	Airplane Flight Manual Supplement (AFMS) Revision Level
ACC-90-113	TCAS II with Kollsman RA/VSI Indicator and Collins TA Indicator (B747-100/200/SR) (Drawing Index 992-1944-001, no revision, dated August 29, 1990 to Revision E, dated March 5, 1993)	No revision dated October 3, 1990, to Revision D, dated April 5, 1993
	TCAS II with Kollsman RA/VSI Indicator and Collins TA Indicator (B747-100/200/SR) (Drawing Index 992-1944-001, Revision F to Revision G, dated February 15, 1999)	Revision E, dated January 21, 1994
ACC-99-040	TCAS II with Kollsman RA/VSI Indicator and Collins TA Indicator (B747-100/200/SR) (Drawing Index 992-1944-001, Revision G, dated February 15, 1999)	No revision, dated September 30, 1999
ACC-91-119	TCAS II with Kollsman RA/VSI Indicator and Collins TA Indicator (B747-300) (Drawing Index 992-1944-001, no revision, dated August 29, 1990 to Revision E, dated March 5, 1993)	No revision dated November 16, 1991, to Revision B, dated April 5, 1993
	TCAS II with Kollsman RA/VSI Indicator and Collins TA Indicator (B747-300) (Drawing Index 992-1944-001, Revision F to Revision G, dated February 15, 1999)	Revision C, dated January 21, 1994
ACC-99-041	TCAS II with Kollsman RA/VSI Indicator and Collins TA Indicator (B747-300) Drawing Index 992-1944-001, Revision G, dated February 15, 1999)	No revision dated September 30, 1999