

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

Number ST00040WI-D

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 : A28NM
Make : Airbus Industrie
Model : A320-111, A320-211, A320-212, A320-231, A320-232

Description of Type Design Change: Installation of Collins Traffic Alert and Collision Avoidance System (TCAS II) in accordance with: (1) Collins Drawing Index 992-1979-001, (2) Collins Airplane Flight Manual Supplement (AFMS), and (3) Collins Maintenance Manual Supplement (MMS) as listed on Sheets 2 and 3, or later FAA Approved Revisions to (1) or (2) or (3).

(See Continuation Sheet)

Limitations and Conditions: (1) Installation of a Collins TPR-720, TPR-900 or TPR-901 Mode S Transponder 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 : March 18, 1992

Date reissued : July 18, 1997

Date of issuance : February 24, 1993

Date amended : August 18, 1993, January 21, 1994,
August 15, 1995, February 20, 1996
August 30, 1998, September 30, 1999
August 31, 2004



By direction of the Administrator

John S. Bohn
(Signature)
John S. Bohn

Administrator, DAS-500864-CE

United States of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

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(Continued)

Airplane Flight Manual Supplement (AFMS)	<u>Applicable to:</u>	Airplane Flight Manual Supplement (AFMS) Revision Level	Maintenance Manual Supplement (MMS)
ACC-92-156	TCAS II with EAS TCAS/ATC Control (Drawing Index 992-1979-001, Revision A, dated July 24, 1993)	No Revision, dated February 24, 1993 to Revision A, dated June 25, 1993	ACC-98-013, No Revision, dated August 30, 1998
	TCAS II with EAS TCAS/ATC Control (Version 6.04A) (Drawing Index 992-1979-001, Revision B, dated November 20, 1993 to Revision H, dated February 15, 1999)	Revision B, dated January 21, 1994	ACC-98-013, No Revision, dated August 30, 1998
ACC-99-027	TCAS II with EAS TCAS/ATC Control (Version 7.0) (Drawing Index 992-1979-001, Revision H, dated February 15, 1999)	No Revision, dated September 30, 1999	ACC-98-013, No Revision, dated August 30, 1998
ACC-93-46	TCAS II with Gables Engineering G6992-24 TCAS/ATC Control (Drawing Index 992-1979-001, Revision A, dated July 24, 1993)	No Revision, dated August 18, 1993	ACC-98-013, No Revision, dated August 30, 1998
	TCAS II with Gables Engineering G6992-24 TCAS/ATC Control (Version 6.04A) (Drawing Index 992-1979-001, Revision B, dated November 20, 1993 to Revision H, dated February 15, 1999)	Revision A, dated January 21, 1994	ACC-98-013, No Revision, dated August 30, 1998
ACC-99-028	TCAS II with Gables Engineering G6992-24 TCAS/ATC Control (Version 7.0) (Drawing Index 992-1979-001, Revision H, dated February 15, 1999)	No Revision, dated September 30, 1999	ACC-98-013, No Revision, dated August 30, 1998

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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(Continued)

Airplane Flight Manual Supplement (AFMS)	<u>Applicable to:</u>	Airplane Flight Manual Supplement (AFMS) Revision Level	Maintenance Manual Supplement (MMS)
ACC-98-012	TCAS II with Gables Engineering G6990-40 TCAS/ATC Control (Version 6.04A) (Drawing Index 992-1979-001, Revision F, dated March 11, 1998 to Revision H, dated February 15, 1999)	No Revision, dated August 30, 1998	ACC-98-013, No Revision, dated August 30, 1998
ACC-99-029	TCAS II with Gables Engineering G6990-40 TCAS/ATC Control (Version 7.0) (Drawing Index 992-1979-001, Revision H, dated February 15, 1999)	No Revision, dated September 30, 1999	ACC-98-013, No Revision, dated August 30, 1998