

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

Number SA5106NM

This certificate, issued to **Honeywell International Inc.
15001 NE. 36th Street
Redmond, WA 98073-9701**

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; 747SR; 747SP;
747-200B, -200C, -200F, -300 series

Description of the Type Design Change: Installation of the Mark VII Ground Proximity and Windshear Warning System per Master Drawing List 960-2166, Rev. AW, dated February 19, 1999, or later FAA approved revisions.

Limitations and Conditions: Approval of this change in type design applies to Boeing 747-100, -200, -300, SP, and SR airplanes equipped with the engines as shown on pages 3 and 4. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate must be maintained as part of the permanent records for the modified aircraft.

The STC holder will provide a written permission statement to each person it authorizes to use this certificate to alter the product.

(See Page 3 and 4 for Continuation Sheet)

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: October 12, 1990

Date reissued: November 24, 1993

Date of issuance: January 3, 1991

Date amended: 8/10/1993; 11/24/1993; 3/4/1994;
5/17/1994; 6/24/1997; 4/1/1999;
1/17/2001



By direction of the Administrator

(Signature)
Acting Manager, Seattle Aircraft
Certification Office

(Title)

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

This certificate may be transferred in accordance with FAR 21.47.

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Number SA5106NM

Honeywell International Inc.

Amended: 4/1/1999; 1/17/2001

Limitations and Conditions continued:

The following certification maintenance requirement (CMR) shall apply to the installation and subsequent operation of the MK VII Warning Computers, Part Number, 965-0876-001-A01-A01:

MK VII Warning Computers, Part Number, 965-0876-001-A01-A01 shall be maintained as specified in the Line Maintenance Manual for the MK VII Warning System, 060-3775, Revision C, dated 2/14/94, paragraph 5.2.

Installation of the MK VII Warning System is limited to aircraft equipped with engines which **do not** incorporate hush kits unless specific approval for a particular hush kit is given below.

The MK VII Warning System has been demonstrated acceptable for use in the following Boeing 747 airplane/engine combinations:

TABLE I:

Aircraft Model	Engine Model	Hushkit Compatibility	Last Date Revised
Boeing 747-100	4 Pratt & Whitney JT9D-3A, -7, -7H, -7A, -7F, -7J, -7AH	N/A	-
747-100B	4 Pratt & Whitney JT9D-7A, -7F, -7AH	N/A	-
747-100B	4 Rolls Royce RB211-524C2-19, -524D4-19	N/A	-
747-100B SUD	4 Pratt & Whitney JT9D-7A, -7AH	N/A	-
747SR	4 Pratt & Whitney JT9D-7, -7A, -7H, -7AH	N/A	-
747SR	4 General Electric CF6-45A, -45A2, -50E2	N/A	3/4/94
747SP	4 Pratt & Whitney JT9D-7, -7A, 7F, -7J	N/A	8/10/93
747SP	4 Rolls Royce RB211-524C2-19, -524D4-19	N/A	8/10/93

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Number SA5106NM

Honeywell International Inc.

Amended: 4/1/1999; 1/17/2001

Limitations and Conditions continued:

Aircraft Model	Engine Model	Hushkit Compatibility	Last Dated Revised
747-200B/C/F	4 Pratt & Whitney JT9D-3A, -7, -7A, -7F, -7J, -7H, -7AH, -7OA, -7Q, -7Q3, -7R4G2	N/A	-
747-200B/C/F	4 Rolls Royce RB211-524C2-19, -524D4-19	N/A	-
747-200B/C/F	4 General Electric CF6-50E, -50E1, -50E2 CF6-80C2	N/A	6/24/97
747-300	4 Pratt & Whitney JT9D-7R4G2	N/A	-
747-300	4 Rolls Royce RB211-524C2-19, -524D4-19	N/A	-
747-300	4 General Electric CF6-80C2, -50E2	N/A	4/1/99

Note: MK VII systems with Ground Proximity Warning only, i.e. without Windshear Warning are approved for all engine types.

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