United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number ST00345LA

This certificate, issued to

CALIFORNIA PRECISION HYDRAULICS INCORPORATED 5330 Derry Avenue, Suite B

Agoura Hills, CA 91301

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:

Make: A20WE

Model: Boeing

747-400 series

Description of Type Design Change:

Installation of California Precision Hydraulics Piston and Shoe Assembly, Part No. 700017 as a replacement part for Sundstrand Part Nos. 733754G, 733754AG, SD1385G, and SD1385AG as used in Sundstrand Part Nos. 739515, 745329, and 747194 Integrated Drive Generators (IDG). For further description see Page 3.

Limitations and Conditions: The approval of this change in type design applies to the above noted IDG's installed on the Boeing 747-400 series. This approval should not be extended to aircraft of this model that incorporate any other previously approved modifications unless it is determined that the interrelationship between this change and any other modification will introduce no adverse effect on the airworthiness of these aircraft.

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 Tederal Aviation Administration.

Date of application:

October 8, 1996

Sale reissued :

Date of issuance:

February 12, 1997

Sale amended:



By direction of the Administrator

Manager, Propulsion Branch

Los Angeles 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.

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Supplemental Type Certificate

(Continuation Sheet)

Number ST00345LA

Description of Type Design Change:

Part No. 700017 is to be in accordance with California Precision Hydraulics Drawing 700017-A, -B, -F, -D, -E, -G, -H, -J, -L, -M, -N, -P,-T, -U, -V, -W, -SDG, and -SDH, Revision "C" dated October 4, 1996, or later FAA approved revisions.

The above drawing consists of:

700017-63 Shoe, Revision "A" dated July 6, 1994, or later FAA approved revisions 700017-62A, -62B, -62D, -62E, -62F, -62G, -62H, -62J, -62L, -62M, -62N, -62P, -62T, -62U, -62V, -62W, and -62SDH Piston, Revision "NC" dated May 13, 1994, or later FAA approved revisions

The piston consists of:

700017-62()

700017-62-1 Sleeve, Revision "N/C" dated July 14, 1994, or later FAA approved revisions 700017-62-2 Core, Revision "N/C" dated July 14, 1994, or later FAA approved revisions

NOTE: Letter codes for 700017-62 and 700017 denote piston diameter variations which are used on installation to obtain acceptable piston to cylinder bore clearances.

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