

Federal Aviation Agency
Supplemental Type Certificate

Number SA216AL

This certificate, issued to Airglas Engineering Co. Inc.
Box 1254
Anchorage, Alaska

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 4a of the Federal Aviation Regulations.

Original Product — Type Certificate Number: 759
Make: Champion
Model: 7GC, KC, GCB, GCA, GCAA, GCBC

Description of Type Design Change: Installation of Airglas Engineering Model L2500A skis in accordance with Airglas Engineering Drawing L2500-7 dated 4/28/66.

Limitations and Conditions: This approval should not be extended to other specific aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those previously approved modifications will introduce no adverse effect upon the airworthiness of that 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 Federal Aviation Agency.

Date of application: April 30, 1966

Date issued:

Date of issuance: November 17, 1966

Date amended:



By direction of the Administrator

Robert W. Stephens
(Signature)

Chief, Engineering and Manufacturing Branch
Alaskan Region

(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.

SUPPLEMENT TO FAA APPROVED
AIRPLANE FLIGHT MANUAL

FAA Identification

Champion Models 7GC, 7GCA, 7GCB,
7KC, 7GCAA, 7GCBC

Serial No. _____

This Supplement must be attached to the Approved Airplane Flight Manual when Landes-Airglas Model L-2500 Main Skis are installed.

PERFORMANCE INFORMATION SECTION.

Take-off: Under the most favorable conditions of smooth packed snow at temperatures approximating 32° F the ski-plane take-off distance is approximately 10 percent greater than that shown for the landplane.

Landing: Under the most favorable conditions of smooth packed snow at temperatures approximating 32°F. the ski-plane landing distance is approximately 10 percent greater than that shown for the landplane.

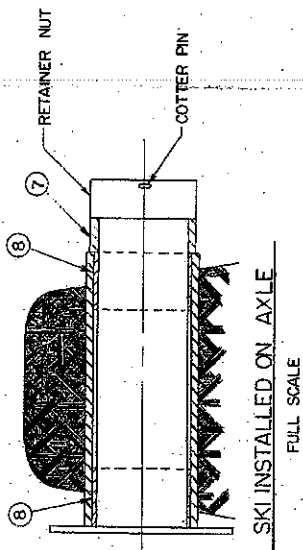
NOTE: In estimating distances for other conditions, caution should be exercised in that other temperatures or other snow conditions may either decrease or increase these distances.

Date: November 3, 1966

FAA APPROVED

Robert W. Stephens
Chief, Engineering and Manu-
facturing Branch Alaskan Region

| NO. | DATE | DESCRIPTION | APPROVED |
|-----|------|-------------|----------|
| | | | |

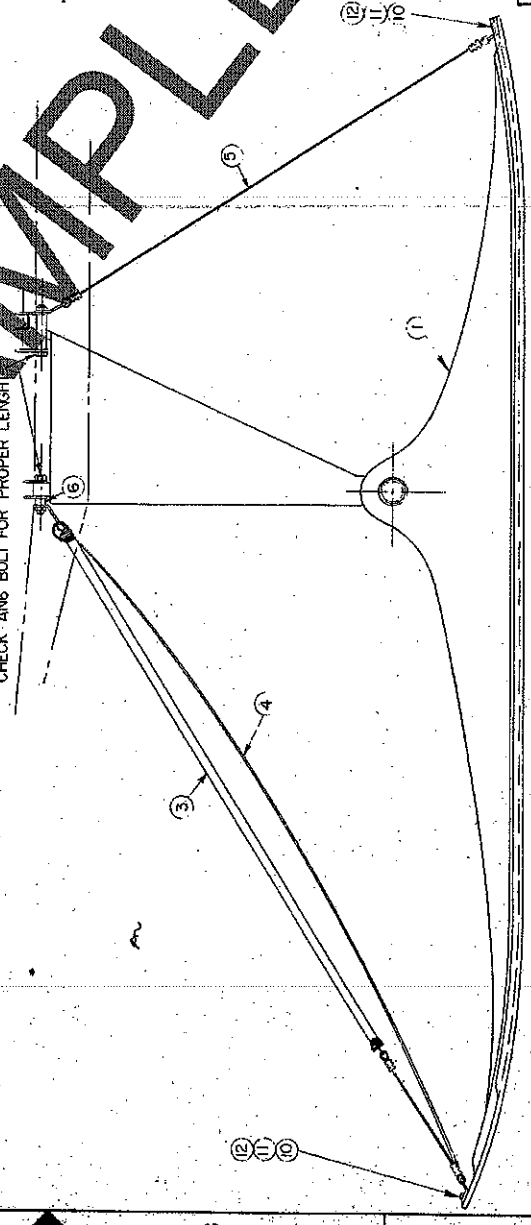


SKI INSTALLED ON AXLE
FULL SCALE

NOTE:
1. UNIVERSAL CABLE ASSY. 105-6 MAY BE USED IN PLACE OF PARTS L2500-7-1, 8, -2. THIS ASSY. USES SHOCK RING 8020.

NOTE: CHECK AXIS BOLT FOR PROPER LENGTH

SAMPLE



THIS DRAWING INCLUDES INFORMATION PROPRIETARY TO AIRGLAS ENGINEERING CO., INC. AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF AIRGLAS ENGINEERING CO., INC.

LEFT SKI

INSTALLATION PER STC SA216AL

| NO. | QTY. | PART NO. | DESCRIPTION | STOCK SIZE | MAT'L | MAT'L SPEC. EOOD | FINISH | SCALE |
|-----|------|---------------|----------------------|-----------------------------|-------|-------------------------|--------|-------|
| 12 | 8 | AN960-416 | WASHER | | | | | |
| 11 | 8 | AN365-428 | NUT | | | | | |
| 10 | 8 | AN4-6A | BOLT | | | | | |
| 9 | | | | | | | | |
| 8 | 4 | L2500-7-1-3 | BRZ BEARING | | | | | |
| 7 | 2 | L2500-7-11-3 | SPACER | | | | | |
| 6 | 2 | L2500-PA-1B-4 | SPACER | | | | | |
| 5 | 2 | | -3 CHECK CABLE ASSY | 38 1/4 THIMBLE TO THIMBLE | | | | |
| 4 | 2 | | -2 SAFETY CABLE ASSY | 57 1/4 THIMBLE TO THIMBLE | | | | |
| 3 | 2 | | -1 BUNGEE ASSY | 34 SPRING END TO SPRING END | | | | |
| 2 | 1 | L2500A-2 | RIGHT SKI | NOT SHOWN | | | | |
| 1 | 1 | L2500A-1 | LEFT SKI | | | | | |
| 1 | 1 | L2500-7 | SKI KIT | | | | | |
| WT | | | | WT 66 LBS | CG 6" | AHEAD OF MAIN GEAR AXLE | | |

LIST OF MATERIALS

| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | CONTRACT NO. | AIRGLAS ENGINEERING CO., INC. |
|---|-------------------|-------------------------------|
| TOLERANCES ON DECIMALS ANGLES | SPEC. CONTROL NO. | ANCHORAGE-ALASKA |
| ±.005 .0005 .0010 | DWG NO. | L2500 SKI INSTALLATION |
| ±.5° .1° .2° | CHK | FOR CHAMPION MODELS |
| HEAT TREAT | STRUT | 7GC, KC, GCB, GCA, GCAN, GCBC |
| 7GC, KC, GCB, GCA, GCAN, GCBC | MFG. PART NO. | 7GC, KC, GCB, GCA, GCAN, GCBC |
| MIL-H-8875 | APPLY | |
| MIL-H-6088 | | |
| MIL-H-6887 | | |

SCALE 1/4" = 1"

SHEET 1 OF 1