

Airglas Engineering Company, Inc.
P. O. Box 190107
Anchorage, Alaska 99519-0107

DOCUMENT AE97-13FM

**FAA APPROVED SUPPLEMENTAL AIRPLANE FLIGHT MANUAL AND
AIRPLANE FLIGHT MANUAL SUPPLEMENT
FOR**

**CESSNA AIRPLANE MODELS 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G,
180H, 180J, AND 180K, AND CESSNA AIRPLANE MODELS 185, 185A, 185B,
185C, 185D, 185E, A185E, AND A185F
EQUIPPED WITH AIRGLAS MODEL LW3600-180 OR MODEL LW3600-180A SKIS**

Registration Number _____

Serial Number _____

This Supplemental Airplane Flight Manual and Airplane Flight Manual Supplement for Cessna airplane Models 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, and 180K and Cessna airplane Models 185, 185A, 185B, 185C, 185D, 185E, A185E, and A185F must be carried in the airplane at all times, and must be attached to the FAA approved Airplane Flight Manual if the airplane is furnished with such a manual, when Airglas Engineering Company, Inc., Model LW3600-180 single position or Model LW3600-180A two position fixed penetration wheel skis are installed in accordance with Supplemental Type Certificate (STC) Number SA213AL. The information contained in this document supplements or supersedes the information made available to the operator by the airplane manufacturer in the form of clearly stated placards, markings, or manuals as required by CAR 3.777(b), or in the form of an FAA approved Airplane Flight Manual as required by FAR 21.5, only in those areas listed herein. For limitations, procedures, and performance information not contained in this Supplemental Airplane Flight Manual and Airplane Flight Manual Supplement, consult the basic placards, markings, or manuals, or the basic FAA approved Airplane Flight Manual.

FAA Approved: _____



Manager, Anchorage Aircraft Certification Office
Federal Aviation Administration
Anchorage, Alaska

Date: October 10, 1997

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Supplemental AFM and AFM
Supplement for Cessna 180
Series and Cessna 185 Series
Reg. No. _____
Ser. No. _____

LOG OF REVISIONS

Revision No.	Pages Affected	Description	FAA Approved	Date
Initial Release	1	Original	--	10-28-66
1	1-5	Added airspeed restriction, placards, rate of climb reduction, weight and balance/ equipment list section	<i>W. J. Hill</i>	10-10-97

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SECTION 2. OPERATING LIMITATIONS: Unchanged, except as noted below:

AIRSPEED LIMITATIONS: Maximum Structural
Cruising Speed (V_{no}) = 139 KIAS
(upper end of green arc on airspeed indicator)

Never Exceed
Speed (V_{ne}) = 160 KIAS
(red radial line on airspeed indicator)

The range of speed in which operations should be conducted with caution and only in smooth air extends from 139 knots to 160 knots IAS (yellow arc on airspeed indicator) with Airglas Model LW3600-180 or Model LW3600-180A skis installed.

CENTER OF GRAVITY LIMITS: Unchanged from existing landplane or landplane-skiplane limits.

WEIGHT LIMITS: Unchanged from existing landplane or landplane-skiplane limits.

PLACARDS: The following placard must be displayed adjacent to the airspeed indicator in full view of the pilot when Airglas Model LW3600-180 single position fixed penetration wheel skis are installed:

**DO NOT EXCEED 160 KT IAS
WITH AIRGLAS LW3600-180
SKIS INSTALLED**

The following placard must be displayed adjacent to the airspeed indicator in full view of the pilot when Airglas Model LW3600-180A two position fixed penetration wheel skis are installed:

**DO NOT EXCEED 160 KT IAS
WITH AIRGLAS LW3600-180A
SKIS INSTALLED**

SECTION 2. OPERATING LIMITATIONS (continued):

PLACARDS (continued):

If the airplane is approved for night flight, the displayed placard must be suitably lighted.

SECTION 3. EMERGENCY PROCEDURES: See Section 5. Except for those changes related to performance, emergency operating procedures are unchanged.

SECTION 4. NORMAL PROCEDURES: See Section 5. Except for those changes related to performance, normal operating procedures are unchanged.

SECTION 5. PERFORMANCE:

A. TAKEOFF: Under the most favorable conditions of smooth packed snow at temperatures approximating 32° F., the takeoff distance with Airglas Model LW3600-180 or Model LW3600-180A skis installed is approximately 20 percent greater than that shown for the landplane.

NOTE: In estimating takeoff distances for other conditions, caution should be exercised as other temperatures or other snow conditions will usually increase these distances.

B. LANDING: Under the most favorable conditions of smooth packed snow at temperatures approximating 32° F., the landing distance with Airglas Model LW3600-180 or Model LW3600-180A skis installed is approximately 10 percent greater than that shown for the landplane.

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

C. CLIMB PERFORMANCE: Climb performance with Airglas Model LW3600-180 or Model LW3600-180A skis installed is approximately 50 feet per minute less than that shown for the landplane.

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SECTION 6. WEIGHT AND BALANCE/EQUIPMENT LIST:

The installed weight of a complete Airglas Model LW3600-180 single position or Model LW3600-180A two position fixed-penetration wheel ski kit is 120 pounds. The installed weight includes all rigging, but does not include the weight of the 8.50 - 6 tires and tubes that must be installed in combination with the skis. The longitudinal position of the ski kit C.G. is identical to that of the main axle centerline. Its arm for the purpose of weight and balance calculations is therefore +21.6 inches.