

Airglas, Inc.
3500 O'Malley Rd
Anchorage, AK 99519

AFM Supplement for Sky International, Inc.
(Aviat) Models: A-1, A-1A, A-1B, A-1C-180, A-1C-200

DOCUMENT AI-LW2500-12FM-Aviat

FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT
For
Sky International, Inc.
(Aviat) Models: A-1, A-1A, A-1B, A-1C-180, A-1C-200

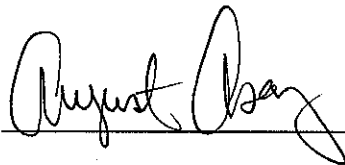
EQUIPPED WITH
Airglas, Inc. LW2500 FIXED WHEEL PENETRATION SKI

Registration Number: _____

Serial Number: _____

This supplement must be attached to the appropriate FAA Approved Airplane Flight Manual and must be carried in the airplane when the **Airglas, Inc.** LW2500 fixed wheel penetration ski is installed in accordance with STC SA02091AK. The information contained in this document supplements or supersedes the basic manual and applicable appendices only in those areas listed. For limitations, procedures, and performance information not contained in this supplement, consult the basic Airplane Flight Manual.

FAA Approved: _____



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

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FAA Approved
Date: NOV 17 2011

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LOG OF REVISIONS

Revision No.	Pages Affected	Description	FAA Approved	Date

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Airglas, Inc.
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SECTION I. General

AFM Supplement for Sky International, Inc.
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This airplane is equipped with **Airglas, Inc.**, LW2500 fixed wheel penetration ski. This ski permits operations from hard surfaces and gravel runways as well as snow.

SECTION II. Limitations

- A.) Airspeeds: V_{ne} for all models is 138 MPH TIAS.
- B.) Powerplant limits : NO CHANGE
- C.) Weights: A-1B, A-1C-180 and A-1C-200 limited to 2000 lbs. gross weight. All others: NO CHANGE
- D.) Flight Load Factors: NO CHANGE
- E.) Flight Limitations: NO CHANGE
- F.) Usable Fuel: NO CHANGE
- G.) Markings and Placards :

DO NOT EXCEED 138 MPH TIAS WITH
AIRGLAS LW2500 SKIS INSTALLED

Place Airspeed Restriction Placard on instrument panel immediately adjacent to Airspeed Indicator and **in full view of pilot.** (All Models)

MAXIMUM WEIGHT LIMITED TO 2000 LBS.
WITH AIRGLAS LW2500 SKIS INSTALLED

Place Placard on instrument **in full view of pilot.** (A-1B, A-1C-180 and A-1C-200)

CAUTION- IT IS POSSIBLE TO EXCEED THE FORWARD CG LIMITAION WITH AIRGLAS SKIS INSTALLED AND MINIMUM FUEL. OPERATIONS OUTSIDE THE CG LIMITATIONS ARE PROHIBITED.

Place Placard on instrument **in full view of pilot.** (All Models)

I.) Kinds of Operating Equipment List (KOEL)

	VFR DAY	VFR NIGHT	IFR DAY	IFR NIGHT
Skis	0	0	0	0

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SECTION II. Limitations-Continued

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Note: The (0) used in the above list mean that the equipment and/or system was not required for type certification for that kind of operation.

SECTION III. Emergency Procedures

1. NO CHANGE

SECTION IV. Normal Procedures

1. A.) Pre-flight : Inspect cables and bungees for wear and or missing bolts, cotter keys etc.. Ensure ski bottoms are free from frost and are not frozen down.
B.) Starting engine :



Warning

Hand propping of engine is **not recommended.**

- C.) Before landing:



Warning

Ensure planned landing area is free of logs, rocks, snowdrifts or other obstacles.

- D.) Balked landing : NO CHANGE
- E.) After landing : NO CHANGE
- F.) Securing Aircraft : NO CHANGE

SECTION V. Performance Information

1. TAKEOFF: Under the most favorable conditions of smooth packed snow at temperatures approximating 32°F, the ski-plane takeoff distance is approximately 30 percent greater than that shown for the land plane.

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SECTION V. Performance Information-Continued



Warning

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

2. CLIMB: Rate of climb performance is decreased approximately 26% below climb performance with eight inch (8") tires.
3. CRUISE: Cruise speed may be decreased as much as 3%. Maximum range will also be reduced.
4. LANDING: Under the most favorable conditions of smooth packed snow at temperatures approximating 32°F, the ski-plane landing distance is approximately 20 percent greater than that shown for the land plane on a hard surface.



Warning

In estimating distances for other conditions, caution should be exercised in that other temperatures or other snow conditions may **significantly** increase these distances.

SECTION VI. Weight and Balance/Equipment List

The equipment added to this airplane by this modification consists of the LW2500 Fixed Penetration Wheel ski kit. The weight of the wheel ski kit is 90 lbs at an arm of 59.06 inches (aft of the datum). See the airplane's current weight and balance report for exact weight and balance information.

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SECTION VII. Systems Descriptions

This airplane is equipped with ***Airglas, Inc.*** LW2500 Fixed Wheel Penetration Skis, with associated attachment rigging.

SECTION VIII. Handling, Servicing and Maintenance

All handling procedures for this modification are standard. The LW2500 fixed wheel penetration ski must be serviced and maintained in accordance with Part 43 of the Federal Aviation Regulations (14 CFR 43). Servicing, maintenance, removal, installation and Instructions for Continued Airworthiness (ICA's) of the LW2500 fixed wheel penetration ski can be found in Airglas Manual No LW2500-105 Rev. A, dated 29 July 2011, or later FAA approved revision.

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