DEPARTMENT OF TRANSPORTATION . FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION

Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY

OFFICE IDENTIFICATION

(Airframe, Powerplant, Propeller, or Appliance)

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ALMSIL	AIR GUIL	155 INC	***		ERTIFICATED MECH		50	1-40	5	
North Shore of Lower Hood Anchorge, PK 99503				CERTIFICATED REPAIR STATION				12.		
	y that the repair and ents hereto have been to the information fur	for alteration n	nade to	d correct to	identified in ite rements of Part the best of my		described ederal Av	on the re iztion Re	everse of gulation	
and the	11/3/14		P P	SIGNATURE	OF AUTHORIZE	DINDIVIDUAL				
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the Admin	AA FLT. STANDARDS	MANUFACTURER			UTHORIZATION	OTHER (Specify)			. 3	
		REPAIR STATION		OF TRANSPOR	I INSPECTOR					
BY	AA DESIGNEE	CERTIFICATE O		OF AIRCRAFT	OF SUTHORI	TED INDIVIDUAL	Ľ			

AAL-GADO-01

DATE: 8-19-82

AIRORAFT MAKE & MODEL

N NO. 142932

AIRPLANE

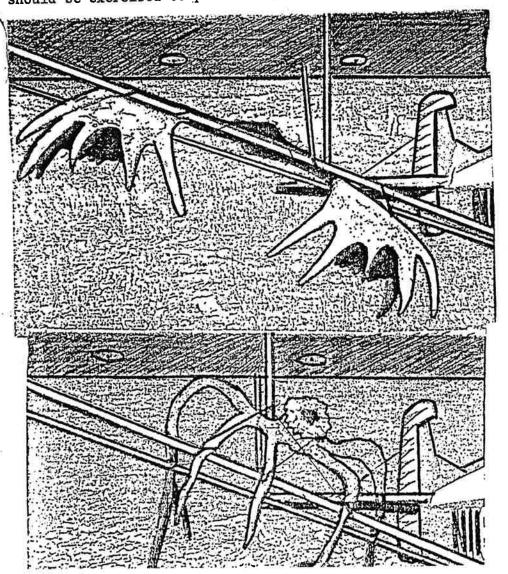
RESTRICTED CATEGORY

EXTERNAL LOAD

OPERATIONS LIMITATIONS

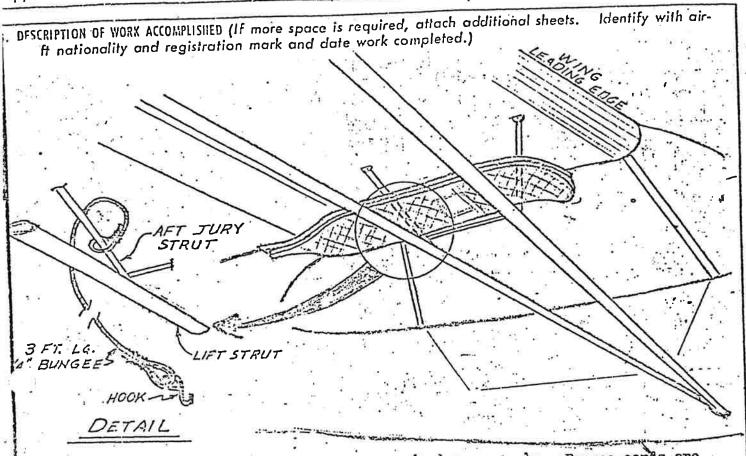
HORNS OR ANTLERS

All horns should be secured to the wing lift struts with one quarter $(\frac{1}{4})$ inch diameter nylon rope or equivalent with the minimum of three wraps at each point of lashing. As no two sets of horns are the same, care should be exercised to position the horns for least drag.



NOTICE .

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.



Installed 14" bungee cord on both left & right wing jury struts. Bungee cords are sercured to aft wing jury struts by a normal bungee splice using rib stitching cord.

The bungees are three (3) feet long and have a hook formed on one end to facilitate. securing items listed below. These bungees are to be used in lashing or decuring snow shoes, rifles, rifle scabbards and/or skis (not aircraft-skis).....

When attaching snowshoes the bungees will pass through the webbing at least once and will extend around complete snowshoe and strut enough times to securely hold in place.

When attaching rifles to struts without the scabbard, bungee will pass through the trigger guard and will continue to wrap around barrel and stock sling ring if applicable, until securely attached.

When attaching scabbard (gun) to struts, bungees will pass through loops stitched to scabbard and proceed around scabbard and pass through trigger guard or stock sling ring until securely attached.

When not in use bungee tie-down cords will be secured around the fore & aft jury struts, The end hook will be secured in such a manner as not to interfere with aileron cables become loose during flight. When attaching skis (not aircraft), to the struts, the oungee will pass through the bindings around the entire ski so as to secure the skis from any fore and aft or vertical movement. ...

eas on the lift struts used for above purposes will have proper chafing material stalled. Maximum weight limitation on lift struts is not to exceed 15 pounds per ADDITIONAL SHEETS ARE ATTACHED side.

FLOATS

ATTACHMENT NO. 2

AAL-CADO-01

DATE: 8-19-82

FIRE PA-18-150 KIRGRAFT MAKE & MODEL

N NO. N 4293Z

AIRPLANE

RESTRICTED CATEGORY

EXTERNAL LOAD

OPERATIONS LIMITATIONS

DIMENSIONAL LUMBER

Dimensional lumber on top of floats or spreader bars, the total maximum dimensions of which shall be not more than g feet long, g square foot frontal area and g pounds weight.

When transporting dimensional lumber on this aircraft, the lumber may be stacked on the float spreader bars in close proximity to the floats. The lumber may also be stacked directly on the floats and secured to the float struts.

When lumber is stacked directly on floats and secured to float struts, care should be exercised that there is no interference of controllability of the water rudders by binding of the control cables to the water rudders.

In either position all lashings should be made with one quarter $(\frac{1}{4})$ inch nylon line or equivalent with a minimum of four (4) wraps at each point of lashing.

Attention shall be paid to the frontal area of the stack of lumber, as to the chance of it spreading in flight. If the lumber is ahead of the last lashing more than two (2) feet it should either be nailed together or the end lashing securely fastened.

FLOATS

ATTACHMENT NO. _____3

AAL-GADO-01

Date: 8-19-82

Airgraft Make & Model

N No. N42932

AIRPLANE

RESTRICTED CATEGORY

EXTERNAL LOAD

OPERATING LIMITATIONS

HORNS OR ANTLERS

Moose, caribou or deer horns on right float and spreader bar or on right float only. As no two (2) sets of horns are the same, care should be exercised to position the horns for least drag.

When transporting horns on the floats, moose horns may be placed on right float in line with the floats in such a manner that the palms or top of the horns can be lashed to the aircraft fuselage float struts.

Moose horns may also be attached with the skull facing forward and upside down, with one-half $(\frac{1}{2})$ of the horns laying on front spreader bar and the opposite side lay on the right float. This places the center of the horns in position to be lashed to the front fuselage float strut. Then the palm of the horns are lashed to the front spreader bar and the other palm lashed to the fuselage float strut and brace. Caribou and deer horns may be attached in the same manner as moose horns.

All horns should be secured to the struts with one quarter $(\frac{1}{4})$ inch diameter nylon rope or equivalent with the minimum of three wraps at each point of lashing.

DATE: 8-19-82

PIDER PA-18-150

AIRCRAFT MAKE & MODEL

s/N/8-8603

N NO. N 42 93 Z

AIRPLANE

RESTRICTED CATEGORY

EXTERNAL LOAD

OPERATIONS LIMITATIONS

- This aircraft is certified in the restricted category for the carriage of the following external loads:
 - (a) Description of loads and methods of attachment (see Attachment(s) #_______.)
- 2. The restricted airworthiness certificate associated with these operation limitations is valid only when the airplane is operated within the State of Alaska and the airplane is in the configuration of above stated attachments (wheels or floats).
- a. This airplane shall not be operated in the restricted category for other than the special purpose for which it is certificated.
 - b. Operations carrying persons or property for compensation or hire are prohibited.
 - c. No person may be carried in this airplane in the restricted category unless:
 - (1) He is a flight crew member.
 - (2) He is a flight crew member trainee.
 - (3) He performs an essential function in connection with the carriage of the external load for which the aircraft is certificated.
 - d. Takeoffs and landings will be made to provide the least possible exposure to people and property on the ground. Takeoff, landing and enroute flight paths will be planned so that any inadvertent or accidental release of the external load will not present a hazard to persons or property on the surface.
 - e. No flights will be made over densely populated areas or on a congested airway.
 - f. Except for takeoffs and landings, operations shall not be conducted near a busy airport where passenger transport operations are conducted.

- g. For operation to and from the Lake Hood Scadrome, all takeoffs will be made either to the north or west. All landings will be made to the south, southeast or east. The operator will ensure that the aircraft flight path will remain clear of any transport passenger operation and/or any populated area.
- It shall be the responsibility of the pilot to ensure that the load is properly secured to the airplane to prevent it h. from shifting or coming loose during flight. All lashings and/or attachments shall be made with a minimum of $\frac{1}{4}$ inch nylon rope or 3/8 inch manila rope; however, caution should be exercised in the use of large ropes which become increasingly difficult to tighten with size. It will also be the responsibility of the pilot to ensure that the airplane is safely controllable and has no adverse flight characteristics while carrying an external load. This shall be accomplished by conducting a flight check of the airplane with each class external load. Prior to such flight, all flight and water steering controls shall be checked for freedom of movement. Upon completion of each satisfactory flight check and prior to further operation, the following entry shall be made in the airplane records: (Flist manual

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Name Pilot Certificate No.

and found to be safely controllable and to operate satisfactorily."

- i. Operations shall not be conducted at speeds exceeding that for which safe controllability has previously been demonstrated.
- j. The gross weight or c.g. of the airplane shall not be exceeded.
- k. The flight check and the actual flight with an external load must be conducted by a pilot who holds at least a private pilot certificate and meets the hour requirements for a commercial pilot. He must also have at least 50 hours of pilotin-command time in this make and model of airplane.
- 1. The word "RESTRICTED" must be displayed on the airplane near each entrance to the cabin or cockpit in letters not less than two inches nor more than six inches in height.
- m. The restricted airworthiness certificate associated with these operations limitations is valid only when the airplane is being operated within the State of Alaska.
- n. VFR day operation only.
- o. Operations shall not be conducted in turbulent air.

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Appr Budget But	oved ean No. 04-R060.1
FOR	FAA USE ONLY
OFFICE IDS	NTIFICATION

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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

No modification of the airplane has been made; therefore, item 6 need not be completed.

- 1. Operations Limitations Restricted Category External Load dated 6-19-82 are provided.
- 2. Loads shall be secured as specified in the operation limitations.

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		rrying an external load,	only the following	
pilo	ot/pilots is/are autho	orized to fly it:	N	
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Ce	ertificate No.	Certificate No.	Certificate No.	
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		of this certificate may		(*)
furt	ther operation is auti	horized by an FAA Genera	l Aviation Maintenance	
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			care will become invalid	
r.	The attached restrict	ed airworthiness certifi	cate will become invalid	
	upon transfer of owne	rship of the aircraft or	ion for this restricted	
	State of Alaska. The	owner who made applicat	noving the airplane from	
	airworthiness certifi	cate shall, prior to rem	drnlane, surrender the	
	Alaska or transfer of	the ownership of this	tations to the issuing FAA	
	certificate with the	on, or one of the other	FAA General Aviation	
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Endorsei	ment by FAA inspector	for continuation of the	se operations limitations	
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