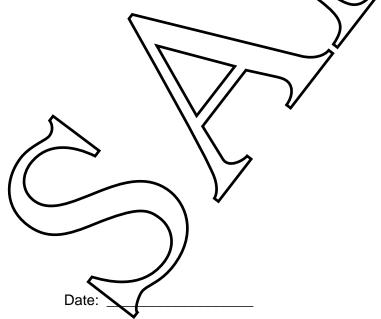
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This supplement must be attached to the Pild	t's Operating Han	ndbook and	d FAA Appro	ved	
Airplane Flight Manual when two 20 gallon au	xinaty wing to fuel	tanks are	installed in ac	cordance	
with STC(s) SA153EA SA05722CH. The info supersedes the basic handbook only in these	ormation containe	a nerein s	upplements (or	
and performance information not contained in	this supplement	consult th	nations, proc	's	
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FAA APPROVED:

Charles L. Smalley, Manager Chicago Aircraft Certification Office Federal Aviation Administration Department of Transportation Federal Aviation Administration Des Plaines, IL 60018

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Revision	Description	FAA Approved
IR	Original Issue	Mark Anderson May 26, 2009
A	Add STC SA153EA as an an Add Utility Category eligibility	oplicable STC
Date:		Page 2 of 8

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SECTION I GENERAL

This supplement contains revised information for the basic airplane when operated in accordance with STC(S) SA153EA or SA02722CH. The information contained herein supplements or supersedes the basic handbook only in those areas listed herein. Consult the Pilot's Operating Handbook and FAA Approved Flight Manual for limitations, procedures, and performance information not contained herein.

MAXIMUM CERTIFIED WEIGHT

Maximum Ramp Weight..... Maximum Take-off Weight Maximum Landing Weight

SECTION II LIMITATIONS

GENERAL

The Airplane Flight Manual for this airplane lists information for operation in the UTILITY category. Since the tip tank installation is approved contingent on operation of the airplane in the NORMAL category when operated in excess of 2725 lb. or with fuel in Tip Tanks, the following Limitations supersede those of the basic Airplane Flight Manual.

This airplane is eligible for operation in accordance with STC(S) SA157EA or SA02722CH and this airplane flight manual supplement only when equipped with the following modifications:

a) Wing Tip Fuel Tanks (STC(S) SA133EA or SA02722CH)

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AIRSPEED LIMITATIONS		
Maneuvering Speed	CAS 109 kno CAS 125 mp	
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Maximum Ramp Weight		
Maximum Take-Off Weight Maximum Landing Weight		
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Date:	Page 3 of	8

CENTER OF GRAVITY LIMITS (Landing Gear Extended)

FORWARD LIMITS

76.5 inches aft of datum to 2240 lbs. with straight line variation to 83.2 at 2925 pounds.

AFT LIMITS

84.3 inches aft of datum at all weights.

MANEUVER LIMITS

This is a NORMAL CATEGORY airplane when operated in excess of 2785 lb. or with fuel in Tip Tanks. Spins and acrobatic maneuvers are prohibited. Normal category airplanes are limited to Non-acrobatic operation.

Non-acrobatic operation includes:

- 1. Any maneuver incident to normal flying
- 2. Stalls (except whip stalls)
- 3. Lazy eights, chandelles, and steep turns, in which the angle of bank is not more than 60°.

Spins are prohibited. No inverted maneuvers are approved.

FLIGHT LOAD FACTORS

Positive Maneuvering Load Factors

FUEL

Date:

In addition to the basic airplane fuel system, two auxiliary wing tip fuel transfer tanks are installed with a capacity of 20 gallons each, all of which is usable.

Take-offs are prohibited with more than 1/4 difference in tip tank fuel quantity. During flight if tip tank fuel quantity gauges indicate more than 1/2 tank difference the landing should be made with flaps up.

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PLACARDS

In Full View of Pilot: FUEL CONSUMPTION MAY EXCEED TIP TANK TRANSFER RATE. INITATE TRANSFER WITH BOTH MAINS AT LEAST ½ FULL. MONITOR MAIN TANK GAUGES TO PREVENT OVERFLOW. TRANSFER TIP TANK FUEL IN LEVEL FLIGHT ONLY. In Full View of Pilot (Airspeed values are CAS) NORMAL CATEGORY AIRPLANE (WHEN OPERATED IN EXCESS OF 2725 LB. MAX. GROSS WEIGHT, OR WITH FOEL IN TP TANKS) AIRSPEED LIMITATION (NORMAL SAT. OPERATIONS) MAXIMUM DESIGN MANEUVERING SPEED 125 MPH (109 KNOTS) OPERATE IN ACCORDANCE WITH FAVAPPROVED FLIGHT MANUAL / PILOTS OPERATING HANDBOOK. INTENTIONAL SPINS ARE PROHIBITED. NG ACCORDING HANDBOOK. INTENTIONAL SPINS HANDAL / SPINS HANDAL / SPINS HANDBOOK. INTENTIONAL SPINS HANDAL / SPINS HANDAL / SPINS HANDBOOK. INTENTIONAL

If for any reason it is necessary to land with more than 1/2 tank difference in tip tank quantities, the landing should be made with wing laps in the "up" position.

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SECTION IV NORMAL PROCEDURES

AIRSPEEDS FOR SAFE OPERATION

Maximum Turbulent Air Penetration

PREFLIGHT INSPECTION

Fuel drains are located on the lower surface of each tip tank. Drain these points daily before the first flight to purge any water from the system.

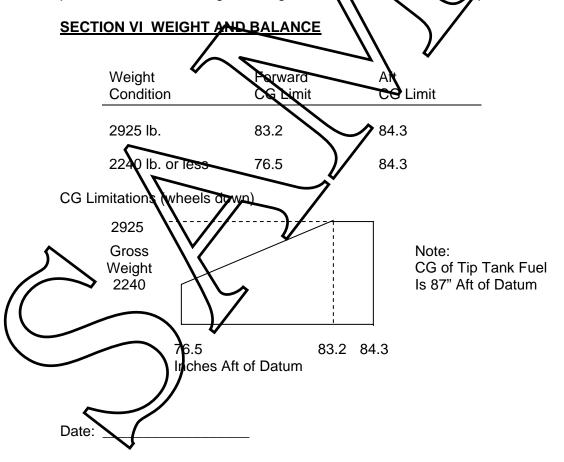
Check security of flush mounted tip tank filler caps during preflightinspection.

Before flight, check the tip tanks for unsymmetrical fuel loading. If fuel tank capacities differ more than 1/4 tank, relocate fuel prior to take-off,

See Section 7, Systems for additional information.

SECTION V PERFORMANCE

The performance listed in the basic Airplane Flight Manual is applicable to this airplane with the tip tank installation at the gross weight listed in the basic Airplane Flight Manual. Since the certification basis of the tip tank installation does not include a requirement that performance be made available in the AIM, and since the modifier did not choose to supply this information, no performance is listed at gross weights above that of the basic airplane.



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IAS 126 MPN

Date:

Weight and Balan	ce Loading Form
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Model	Date: _		-	
Serial No: D	Reg. No.: _			\sim
Item		Weight	Mom./100	\searrow
1. Basic Empty Weight			1	
2. Front Seat Occupants			\langle	
3. 3 rd and 4 th Seat Occupa	nts			
4. 5 th and 6 th Seat Occupa	nts		$\overline{)}$	
5. Baggage		$\langle \frown \rangle$		
6. Cargo	/			
7. Sub Total Zero Fuel Co	ndition	\bigtriangledown		
8. Basic Fuel Loading				
9. Tip Tank Fuel Loading			\mathcal{A}	
10. Sub Total Ramp Cond	ition	\mathbf{N}	\rangle	
11. Less Fuel for Start, Ta	xi, and Take-off	\searrow	7	
12. Sub Total Take-off Co	ndition			
13. Less Fuel to Destination	R			
14. Landing Condition	// >	\square		
* Fuel for start, taxi, and take	off is ported 19	k.	L	1
\sim			6 I I	
Usable tip tank fuel is locate	d at an average arn	n of 87 inches a	itt datum.	
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SECTION VII SYSTEMS DESCRIPTION

FUEL

In addition to the basic airplane fuel system, two auxiliary wing tip fuel transfer tanks are installed with a capacity of 20 gallons each, all of which is usable. Take-offs are prohibited with more than 1/4 difference in tip tank fuel quantity. During flight if tip tank fuel quantity gauges indicate more than 1/2 tank difference the landing should be made with flaps up.

Tip tank fuel is transferred into its respective main tank by an electric pump at a rate of approximately 15 gallons per hour. The transfer pump and a solehoid value are mounted inside the wheel well of each wing on the rib at wing station 66. At higher power settings, fuel consumption may exceed the fuel transfer rate to the main tank solected.

Tip tank transfer pump switches are located either on the face of the instrument panel or between the front seats on the partition assembly forward of the main spar truss. The pump and solenoid valve circuit breaker is installed adjacent to the pump switches.

A fuel drain is provided on the lower surface of each tip tank

Fuel quantity is measured by observing the fuel level on a sight gauge located on the inboard side of each tip tank.

Normal tip tank fuel transfer should be accomplished simultaneously to maintain symmetrical wing tip tank fuel loading. Initiate transfer with the left main at 1/2 full and feeding the engine. During the transfer, monitor fuel gauges for both main tanks and stop transfer if gauge indicates full to prevent overflow of fuel through the main tank vent tubes.

SECTION VIII HANDLING, SERVICING AND MAINTENANCE

No Change.	
SECTION IX SUPPLEMENTS	
No Change.	\mathcal{I}
SECTION X SAFETY INFORMATION	
No Change.	
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Date:	