United States of America

Department of Transportation -- Hederal Abiation Administration

Supplemental Type Certificate

Number SA01386NY

This certificate issued to

Maple Leaf Aviation Limited Group 520, Box 16, RR5 Brandon, MB R7A 5Y5 Canada

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 * of the * Regulations.

Original Boduct -- Type Certificate Number : *

* See attached FAA Approved Model List (AML) No. for list of approved airplane models and applicable airworthiness regulations

Model:

Description of Type Design Change:

Installation of Fibre Glass Reinforced Plastic Nacelle Fairing, Trade Name: "Exhaust Fairing", in accordance with DOT approved Maple Leaf Installation Drawing Numbers, EP5003 (Cessna 172, 177 and 177RG aircraft) and EP 5004 (Cessna 180, 182 and 185 aircraft), dated August 8, 2001.

Bimitations and Conditions:

- If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.
- Compatibility of this design change with previously approved modifications must be determined by the installer.

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 Administration.

Date of application: February 20, 2001

Dute of issuance:

September 5, 2001

Date reissued :

Date amended:

By direction of the Administrator

Vito A. Pulera Manager

New York Aircrast Certification Office

(Title)

Installation Instructions and Drawings for: EP5002-002 Exhaust Fairing

Applicable models:

Cessna 182	Models C thru R	Weight 0.7 lbs	-19.5 inches
Cessna 180	Models C thru K	Weight 0.7 lbs	-19.5 inches
Cessna185	All models	Weight 0.7 lbs	-19.5 inches

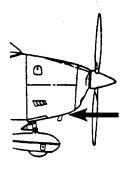
Revision Block				
Rev Level	Dute			

- 1. The fairing is shipped as it is pulled from the mold. Trimming of the bottom and top is necessary before initial installation takes place.
- 2. The bottom side of the fairing has a small radius built into it so that it can be used for fitting to the engine cowling contour. Sanding of the bottom side of the radius will provide a good fit to the cowling. See *Example 1*.
- 3. Tape the fairing to the engine cowling allowing ½ inch clearance between the front edge of the fairing and the exhaust pipe. Allow 1/8" to 3/16" extra clearance between the exhaust pipe fairing on the passengers side of the aircraft, as engine torque causes the pipe to move when the engine is running. (Make sure motor mounts are in good condition). Align the fairing with the airflow.
- 4. Now drill holes as per sheet 2 of this drawing and install with AN hardware. Use flush crews as per *Example 2*. Shims may be required depending upon fit. Shims at the stallers discretion.
- 5. Trimming of the top of the fairing may be necessary. Use 1/4 inch masking tape to establish cutting line. Align the trim line to the level flight attitude. See Example 3.
- 6. Remove fairing and prep for painting. Wet sand with 280 grit Wet & Dry paper.

 Amend Weight and Balance for aircraft.

Reinstall after painting with AN hardware.

The fairing is made of a special heat resistant resin and repairs with any other resin will not provide the same protection.



Fairing attaches to cowl around exhaust pipe at this location. 180 & 185 installation similar to 182.

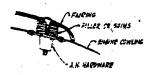


Example 1:





Example 2:

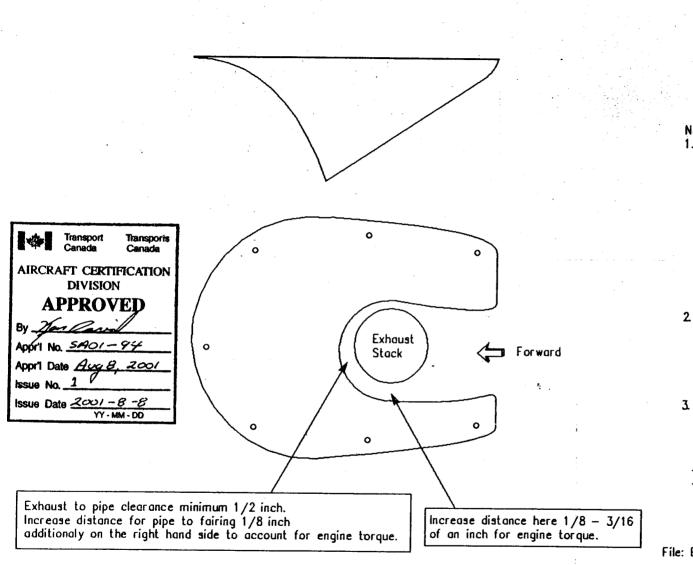


Example 3:



EP5004P1,WPD

Maple Leaf Aviation Limited					
Installation Drawing					
Cruming Humber: EP7004	Date:546 14, 2001				
Crown by: Date Wall	Page LoE2				
Aircraft Types	Registration				
Steden House	Revision: Original				



Revision (Nach Description

Notes:

1. Fasteners:

AN526-832 R8 Screws NAS 686-A08 Nuts

MS20426-AD3 or 4 Rivits (as required)

Minimum number 7 Typical spacing 5 inches starting 1/2 inch from rear and 1/2 inch edge spacing.

2. Eligible for Install on the Following Cessna Models 180 C thru K 182 C thru R

185 All models 3. Wet sand with 220 grit wet & dry sand paper. Prime and paint good quality paint system

Typical Weight: 0.7 LBS Typical Arm: -19.5 Inches

File: Exhaust\EP5004r1.kcf

MAPLE LEAF AWATION LTD				
Installati	on Drawing			
BRANNE NO EP5004	DATE Feb 14 200			
GRASH BY D. WALL	PAGE 2 of 2			
AIRCRAFT TYPE	RECENTATION			
SCALE NONE	ORIGINAL			

Part Number EP5002-002

1. Country -Pays 2. Transport Tra Canada Ca		port Trans la Canad	ports Form Formule 24-0078		3. Certificate Ref. No N de reference du bon				
CANAD	. 1		EASE CERTIFICATE - BON DE SORTIE AUTORISE FPD2002-0288						88
4. Organization - Organisme Maple Leaf Aviation Limited Group 520, Box 16, RR5 Brandon, MB R7A 5Y5				AND TO TORIGE	5. Work Order/Contract/Invoice - Bon de travail/contrat/fract/INVOICE - INVOICE - Bon de travail/contrat/fract/Invoice - Bon de travail/contrat/fract/fract/fract/fract/fract/fract/fract/fract/fract/fract/fract/fract/fract/fract/fract/fract/fract/fract/			de travail/contrat/fracture	
6. Item 7. Description 8. Part No.			8. Part No N de piece	Part No N de piece 9. Eligibility - Admissibilite *		10. Qty - Qte	11.Serial/Batch No N de serie/lot 12. Status/Work - Etat/trava		
1	182 Exhaust Fairing		EP5002-002	SAC	SA01386NY	1	EF182-00180F	7	Manufactured
13. Remarks	- Remarques								
182 Exhaust Fairing STC# SA01386NY									
14. New Parts - Pieces neuves: Certifies that the part(s) identified above except as otherwise specified in block 13 was (were) manufactured/sinspected in accordance with the applicable design data and with the airworthiness regulations of the stated country. Ceci certifie que la (les) piece(s) indentifiee(s) ci-haut, sauf si autrement specifie a la case 13, a (ont) ete construite(s)/inspectee(s) conformement aux donnees de conception pertinentes et aux reglements de navigabilite du pays indique.			19. Used Parts - Pieces usagees: AWM 571-10 - Maintenance Release M de N 571.10 - Certification apres maintenance Certifies that the work specified above except as otherwise specified in block 13 was carried out in accordance with Chapter 571 of the Airworthiness Manual, and in respect of that work, the part(s) is (are) considered ready for release to service. Ceci certifie que le travail specifie ci-haut, sauf si autrement specifie a la case 13, a ete effectue conformement aux exigences du chapitre 571 du Manuel de navigabilite, et que, ayant rapport a ce travial, la (les) piece(s) est (sont) consideree(s) prete(s) pour la remise en service.						
15. Signature 16. Approval Ref. No Ref. d'autorisation M156196 AMO 168-91				20. Signature		21. Approval Ref. No Ref. d'autorisation			
17. Name (typed or printed) - Nom (dactylographie ou imprime) 18. Date			22. Name (typed or printed) - Nom (dactylographie ou imprime) 23. Date						
David J. Wall April 8, 2002									
*Installer must cross-check eligibility with applicable technical data - Le monteur doit verifier l'admissibilite avec les donnees techinques pertinentes. USER/INSTALLER RESPONSIBILITIES TRESPONSABILITES DE L'USAGER/MONTEUR Il est important to understand that the existence of this document alone does not automatically constitute authority to Il est important de bien compreder que de par son existence ce document ne constitue pas forcement L'autorisation d'installer la piece/composant/ensemble									

Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1 it is essential that the user/instller ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified

Statements 14 and 19 do not constitute installation certification. In all cases the aircraft technical maintenance record must contain a maintenance installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown. 24-0078A (96-07)

Lorsque l'usager/monteur(euse) travaille conformement aux reglements nationaux d'une autorite de navigabilite, autre que l'autorite de navigabilite inscrite a la case 1, il est essentiel quel'usager/monteur(uesue). s'assure que son autorite de navigabilite accepte les pieces/composants/ensembles de l'autorite de navigabilite inscrite a la case 1.

Les declarations apparaissant aux cases 14 et 19 ne constituent pas une certification de montage. En tout temps le dossier technique de l'aeronef doit contenir une certification apres maintenance emise selon les reglements nationaux, par l'usager/monteur(euse), avant que l'aeronef puisse decoller.



WAIVER OF LIABILITY

MAPLE LEAF AVIATION LIMITED, or any partners therein are not liable for any defects in product manufacture related to any ground or in flight hazard which may occur to persons associated with the use of the "Fancy Pants" modification.

Owners are responsible for the care and control of the modification and any drawings and instructions for installation and certification are purely intended for the proper and suggested installation technique for the kit.

It must be understood that each kit comes in an un-finished state and therefore we cannot control installation or maintenance of the fairing, therefore we must relinquish all responsibility upon shipment of said product.

MAPLE LEAF AVIATION LIMITED

DATE April 8, 2002

Purchaser:

Mr. Paul Mennen

1452 Owensound Drive

Sunnyvale, CA

94087

ITEM

PART NO.

SERIAL NO.

Exhaust Fairing

EP5002-002

EF182-00180F