

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

Form Approved
OMB No. 2120-0020
For FAA Use Only
Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make <p style="text-align: center;">Stinson</p>	Model <p style="text-align: center;">HW75</p>
	Serial No. <p style="text-align: center;">7247</p>	Nationality and Registration Mark <p style="text-align: center;">N23792</p>
2. Owner	Name (As shown on registration certificate) <p style="text-align: center;">Twenty-One-O-Three-Mike Corp</p>	Address (As shown on registration certificate) <p style="text-align: center;">2601 Canterbury Dr Hutchinson Ks 67502-2541</p>

3. For FAA Use Only

The Data/Attachment identified herein complies with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR 43.7.

05-05-04
Date

Mark R. Renge
FAA Approving Inspector

**ACE-FSDO-07
Wichita, KS**

4. Unit Identification

Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Wells Aircraft, Inc. P. O. Box 858 Hutchinson, Kansas 67504	<input type="checkbox"/> U.S. Certificated Mechanic	CRS NT2R043L
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input checked="" type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date <p style="text-align: center;">6-24-04</p>	Signature of Authorized Individual <p style="text-align: center;">D. Dean Wedman <i>D. Dean Wedman</i></p>
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA Fit. Standards Inspector	<input type="checkbox"/>	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/>	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <p style="text-align: center;">6-24-04</p>		Certificate or Designation No. <p style="text-align: center;">CRS NT2R043L</p>		Signature of Authorized Individual <p style="text-align: center;">D. Dean Wedman <i>D. Dean Wedman</i></p>	

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.)

Installed a new Wag-Aero Cat. No. E-477-100 Cessna C-150 complete exhaust system on the Continental C85-12F engine with reference to Aero Fabricators Supplemental Type Certificate SA1143SW dated January 28, 1988. This STC replaces the Cessna 120/140 style exhaust system, as was removed. This STC SA1143SW exhaust system includes FAA/PMA approved parts. Aero Fabricators Repair Station #A14RZ44N.

This installation was accomplished in parallel conformity (as needed) to the various procedures and instructions contained in the Aero Fabricators STC SA1143SW, dated January 28, 1988. Checked the various clearances on new system in accordance with the procedures prescribed in the AC 43.13-1B per Chapter 8 Section 3 (Inspection) paragraph 8-49a.

Connected Aeroduct SCAT tubings for carburetor heat and cabin heat.

Modified the lower cowling exhaust pipe opening per the STC instructions and reinforced tail pipe openings with reinforcing rings.

Continued airworthiness: Inspect in accordance with the scope and detail of FAR 43 appendix D at each annual or 100 hr. inspection, or you may inspect per AC43.13-1B Chapter 8 Section 3 (Exhaust Systems) paragraph 8-49 (Inspection) a,b,c,d.

-----E N D-----

Additional Sheets Are Attached

AVIATION
MANUFACTURING
SPECIALISTS

AERO FABRICATORS

FAA CERTIFIED REPAIR STATION #A14R244N

EXPERTS IN ENGINE MOUNTS, EXHAUST SYSTEMS AND SEATBELTS

Date Issued 1-4-88

Date Revised 8-8-00

INSTALLATION INSTRUCTIONS AERO FABRICATORS MUFFLER ASSEMBLIES

Number #-477-001 and E-477-002

Cessna 150, 150A through H, 150J, 150K, and A150K

1. Remove aircraft cowling and disconnect tailpipe.
2. Remove exhaust stack nuts and disconnect aero duct hosing to muffler shroud.
3. Install Cessna muffler shroud on Aero Fab part number E-477-001 left hand assembly and on E-477-002 right hand muffler assembly. Muffler assembly can be identified by left hand unit identification plat on riser tube and by visual inspection. Left hand muffler E-477-001 has a curved elbow entering the muffler body. In addition when held up the exhaust outlet angles in towards the center of the engine. Right hand assembly E-477-002 also has an identification plate and can be further visually identified by having two stacks with flanges protruding from the upright angles in towards the center of the engine. After shroud attached on engine using new Continental exhaust gaskets. Tighten exhaust nuts evenly. Reconnect aero duct hosing to muffler shroud
4. Install bottom cowl temporarily and using existing tailpipe located through the bottom cowl so that the tailpipe exist is facing aft and adequate clearance through the cowling is obtained, hold in place using the existing tailpipe as template, mark the outlet of the Aero Fabricators muffler for tailpipe clamp bracket hole.
5. Remove lower cowl, locate tailpipe clamp hole mark on Aero Fabricators muffler outlet, center punch, and drill locating hole on outlet of Aero Fabricators muffler assembly.
6. Reinstall lower cowl, secure permanently, install tailpipe lining up tailpipe bracket hole with newly drilled muffler outlet pipe hole and install muffler retainer clamp.
7. Make entry into log specifying manufacture, model, installed in accordance to STC SA1143SW including the following note: Weight change is negligible.
8. Clear area, ground run engine, allow cool, checking installation and retorquing exhaust nuts.

CESSNA 140 & 120 SERIES

1. Remove lower cowling, remove and discard old exhaust system.
2. Identify Aero Fabricators part number E-477-001 left hand assembly, and refer to number 3 above for familiarity of left and right hand assembly. Once this is accomplished install new Continental exhaust gaskets and tighten exhaust nuts.
3. Reinstall bottom cowling, temporarily utilizing purchased tailpipe. Locate tailpipe through cowling onto the muffler noting proper angle of tailpipe outlet. Hold in place using tailpipe as template, mark installed Aero Fabricator muffler assembly for tailpipe clamp.
4. Remove temporarily installed cowling, locate mark on Aero Fabricators muffler outlet, center punch, and drill.
5. Utilizing purchased carburetor/cabin heat shroud, install and secure on muffler.
6. Install purchased tailpipe locating tailpipe bracket hole in line with muffler hole and install tailpipe clamp. For model 120 and earlier model 140 aircraft you must locate and cut holes in lower cowling for the tailpipes. For later model 140 you may have to modify opening in lower cowl for tailpipes.
7. Reinstall lower cowling and secure.
8. Clear area, ground run engine, allow to cool, inspect all attach points, and final torque exhaust nuts.
9. Make proper logbook entry refer to manufacture, model, installed in accordance to STC SA1143SW including the following note: Weight change is negligible.