

OCT 07 2002

US Department of Transportation Federal Aviation Administration	FAA FWFSDO	Form Approved OMB No. 2120-0020
	MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)	
	For FAA Use Only	
Office Identification FWFSDO		

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 Luscombe	Model 8A
	Serial No. 2816	Nationality and Registration Mark NC71389
2. Owner	NAME (As shown on registration certificate) Franklin, Robert L.	Address (As shown on registration certificate) 11 Wisteria St. Waco, Texas 76708

For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in item 1 above)				
POWERPLANT	Continental	A65-8	4063268		X
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Robert L. Franklin 11 Wisteria St. Waco, Texas 76708	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	A & P 450924129
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input 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	Signature of Authorized Individual
10-4-2002	Robert Franklin <i>Robert L. Franklin</i>

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 checked="" type="checkbox"/>	Manufacturer <input checked="" type="checkbox"/>	Inspection Authorization <input type="checkbox"/>	OTHER (Specify)
	FAA Designee <input type="checkbox"/>	Repair Station <input type="checkbox"/>	Person Approved by Transport Canada Airworthiness Group <input type="checkbox"/>	
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual	
10-4-202		450924129	Robert Franklin <i>Robert L. Franklin</i>	

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.)

Luscombe 8A S/N 2816 NC71389
10-4-2002 Airframe Total Time 1407.0

Engine crankcase modified and installed cylinders P/N 641917 I/AW Franklin Dwg. No. 808 dated 6/29/2001.

Instructions for Continued Airworthiness found in Continental Overhaul Parts Catalogs are applicable and must be followed as follows:

- a. Engine assembly except cylinders P/N 641917; Overhaul Manual parts Catalog No. X-30008.
- b. Cylinder assemblies P/N 641917; Overhaul manual Parts Catalog No. X-30010F.

See attached Dwg. 808 and Form 8110-3 for approval of data.

Negligible weight and balance change.

—End—

Additional Sheets Are Attached

Revision	Date	Change Description
-		Original Submittal

Drawing Effectivity:

Continental A-65-8, A-65-12 series engines. TC # E-205

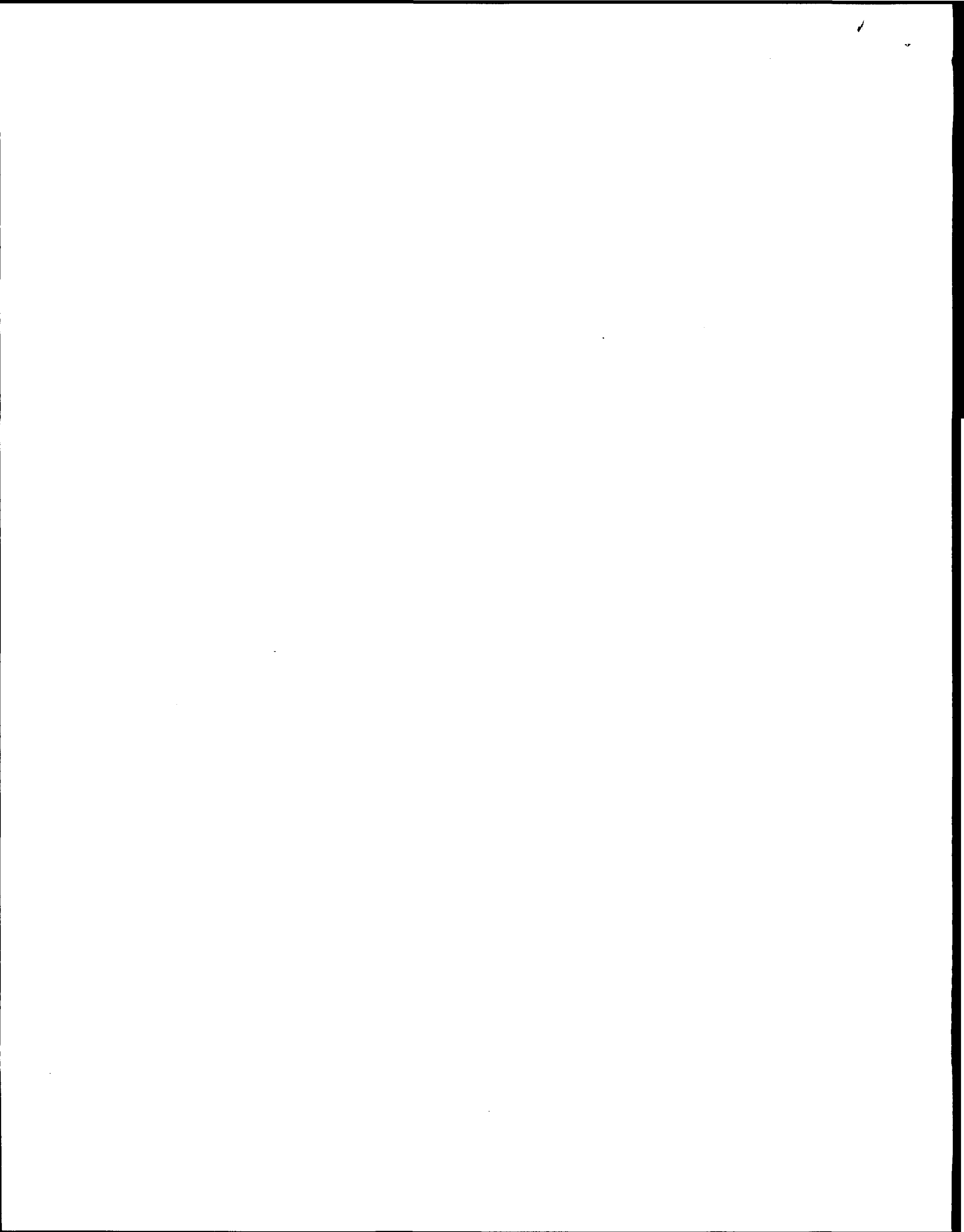
Installation Instructions

1. Remove A65 cylinders P/N B-3762, pistons P/N 40731 and piston pins P/N 530856.
 - a. Note: A65 cylinders have standard bore of 3.875 inch, outside barrel diameter of 4.062 inch.
2. Confirm crankshaft P/N 530196 (tapered) or optional P/N 530199 (flange) installed with connecting rods P/N A35160A2.
 - a. Note: Crankshafts (p/n 530196 and 530199) and connecting rods (p/n A35160A2) are shown eligible for A-65 and C-85 engines in Continental Overhaul Manual and Parts Catalogs # X-30008 and #X-30010F.
3. Disassemble engine crankcase per Continental Overhaul Manual and Parts Catalog # X-30008.
4. Bore crankcase cylinder mounts to accept C75/C85 cylinders P/N 641917.
 - a. Note: Cylinder P/N 641917 have standard bore of 4.062 inches, outside barrel diameter of 4.272 inch.
 - b. Bore cylinder mount holes to 4.280 inch, \pm .003 inch, 1.250 inch deep. Center axis of bore shall be unchanged from the original bore.
 - c. Confirm crankcase to cylinder barrel clearance is .003L minimum to .012L maximum per Continental Overhaul Manual X-30010F.
 - d. Machine chamfer on crankcase mount holes for cylinders base packing; 45°, 0.156 inch deep to match C75/C85 cylinders base seal seat.
 - e. Metal stamp each crankcase half 'MODIFIED' below crankshaft nose seal with 1/8 inch letters.
5. Re-assemble crankcase per Continental Overhaul Manual and Parts Catalog # X-30008.
6. Install serviceable cylinders P/N 641917, pistons, P/N 40327, piston pin P/N 530830, and packing P/N 21477. Fit piston rings, valves, springs and hardware per Continental Overhaul Manual and Parts Catalog No. X-30010F.
7. Metal stamp Engine Data Tags as follows, 1/8 inch letters: 'MODIFIED' after A-65-8.
8. Re-install existing baffling, induction, exhaust, accessories and propeller per Luscombe Maintenance Manual instructions.
9. Instructions for Continued Airworthiness found in Continental Overhaul Manual and Parts Catalogs # X-30008 and # X-30010F must be followed as applicable.

---End---

Franklin Aviation

Title: Continental A-65 – Install C-85 Cylinder Assemblies		Drawing No. 808	Revision -
By: Robert Franklin	Scale: None	Date: June 29, 2001	Page 1 of 1



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION			DATE
STATEMENT OF COMPLIANCE WITH THE FEDERAL AVIATION REGULATIONS			June 29, 2001
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION			
MAKE	MODEL NO.	TYPE	NAME OF APPLICANT
Continental Motors	A-6-8	ENGINE	Robert Franklin 11 Wisteria St. Waco, TX 76708
LIST OF DATA			
IDENTIFICATION	TITLE		
Franklin Aviation Dwg No. 808, rev. -, dated June 29, 2001	Continental A-65 - Install C-85 Cylinder Assemblies		
PURPOSE OF DATA			
Provide approved engineering data for modification of engine, s/n 4063268.			
APPLICABLE REQUIREMENTS (LIST SPECIFIC SECTIONS)			
14CFR Part 33 Section §33.3 General {admt 33-19}			
CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered <u>N/A</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations.			
I (We) therefore <input type="checkbox"/> Recommend approval of these data.			
<input checked="" type="checkbox"/> Approve these data.			
SIGNATURE OF DESIGNATED ENGINEERING REPRESENTATIVE	DESIGNATION NUMBER(S)	CLASSIFICATIONS	
<i>A. R. Barnes</i>	DERT-710016-SW	Flight Test Pilot, Flight Analyst, Powerplant, Engines	
Gregory R. Barnes			

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