Oil Filter Kit AFC-K001 Applicability: Homebuilt Aircraft using Lycoming Q-235, 290, 320, 340, 360 & 540 Engines using the Lycoming P/N 69510, 68974, or 62815 4-bolt oil screen housings. First Release 06/08/84 NEW Index Part Number Parts List No. AFC-K001-PL Mew 01. LYC-10 Adapter Engine, Full Flow (1) 02. 61173 Adapter Base Gasket (1) 03. AN837-8D Bulkhead Fitting, 45° (2) 04. AN8289-8D Bulkhead Fitting, 45° (2) 05. MS35769-11 Gasket, Oil Temperature Sensor (1) 06. MS28773-08 Boss Gasket (2) 07. MS28773-08 Boss Gasket (2) 08. MS2877-08 Boss Gasket (2) 09. AN4H-4A Bolt, Drilled Head (4) 10a. OFM-10 Oil Filter Mount, Vertical (1) 11. OFB-10 Oil Filter, or Equivalent (Champion CH48108] (1) 12. MS20822-8D Fitting, 90° (1) 13. MS20823-8D						
Applicability: Homebuilt Aircraft using Lycoming O-235, 290, 320, 340, 360 & 540 Engines using the Lycoming P/N 69510, 68974, or 62815 4-bolt First Release 06/08/84 NEW Index Part Number Parts List No. AEC-K001-PL New 01. LYC-10 Adapter- Engine, Full Flow (1) 02. 61173 Adapter- Engine, Full Flow (2) 04. AN827-8D Bulkhead Fitting, 45° (2) 05. MS35769-11 Gasket, Oil Temperature Sensor (1) 06. MS28773-08 Boss Gasket (2) 07. MS28773-08 Boss Gasket (2) 08. MS387-08 "O' Flings (2) 09. AN4H-4A Bolt, Drilled Head (4) 10a. OFM-10 Oil Filter Mount, Horizontal (1) 11. OFB-10 Oil Filter Mount, Vertical (1) 12. MS20822-8D Fitting, 90° (1) 13. MS20823-8D Fitting, 45° (1) 14. OFS-10 Oil Filter, or Equivalent [Champion CH48109] (1) 15b.			Oil Filter Kit AFC-K001			
Parts List No. AFC-K001-PL Index Part Number Description Quantity 01. LYC-10 Adapter- Engine, Full Flow (1) 02. 61173 Adapter Base Gasket (1) 03. AN837-8D Bulkhead Fitting, 45° (2) 04. AN6289-8D Bulkhead Nut (2) 05. MS35769-11 Gasket, Oil Temperature Sensor (1) 06. MS35769-13 Gasket, Thermostatic Valve (2) 07. MS28773-08 Boss Gasket (2) 08. MS9387-08 "O" Fings (2) 09. AN4H-4A Bolt, Drilled Head (4) 10a. OFM-10 Oil Filter Mount, Vertical (1) 11. OFB-10 Oil Filter Mount, Vertical (1) 12. MS20822-8D Fitting, 45° (1) 13. MS20823-8D Fitting, 45° (1) 14. OFS-10 Oil Filter, or Equivalent [Champion CH48108] (1) 15a. AFC-500 Oil Filter, Tef Ion Hose	Applica	Applicability:Homebuilt Aircraft using Lycoming O-235, 290, 320, 340, 360 & 540First Release 06/08/84Engines using the Lycoming P/N 69510, 68974, or62815 4-boltNEWoil screen housings.000				
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02. 011/3 Adapter Dase Gaster (1) 03. AN837-8D Bulkhead Fitting, 45° (2) 04. AN6289-8D Bulkhead Fitting, 45° (2) 05. MS35769-11 Gasket, Oli Temperature Sensor (1) 06. MS35769-21 Gasket, Thermostatic Valve (1) 07. MS28773-08 Boss Gasket (2) 08. MS9387-08 "O" Rings (2) 09. AN4H-4A Bolt, Drilled Head (4) 10a. OFM-10 Oli Filter Mount, Horizontal (1) 10b. OFM-11 Oil Filter Mount, Vertical (1) 11. OFB-10 Oil Filter Stud (1) 12. MS20822-8D Fitting, 90° (1) 13. MS20823-8D Fitting, 45° (1) 14. OFS-10 Oil Filter, or Equivalent [Champion CH48108] (1) 15b. AFC-500 Oil Filter, or Equivalent [Champion CH48109] (1) 16. F1300008-0zzy Titeflex Teflon Hose, -8 [Insert Length in inches at end of P/N] (OPT) 17. Note: Hoses ends will be swaged ont	01.	LYC-10 61172	Adapter- Engine, Full Flow	(1)		
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07. MS28773-08 Boss Gasket (2) 08. MS9387-08 "O" Rings (2) 09. AN4H-4A Bolt, Drilled Head (4) 10a. OFM-10 Oil Filter Mount, Verizontal (1) 10b. OFM-11 Oil Filter Mount, Verizontal (1) 11. OFB-10 Oil Filter Base (1) 12. MS20822-8D Fitting, 90° (1) 13. MS20823-8D Fitting, 45° (1) 14. OFS-10 Oil Filter, or Equivalent [Champion CH48108] (1) 15b. AFC-500 Oil Filter, or Equivalent [Champion CH48108] (1) 16. F13000008-0zzy Titeflex Teflon Hose, -8 [Insert Length in inches at end of P/N] (OPT) 17. Note: Hoes ends will be swaged onto end of hose at the factory. (6) (1) 18. AN4-5A Bolts (6) 19. AN960-416 Flat Washers (16) 20. MS20365-428A Locknuts (6) 21. DBL-10 Doubler Plate	06.	MS35769-21	Gasket, Thermostatic Valve	(1)		
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17.Note: Hoes ends will be swaged onto end of hose at the factory.(6)18.AN4-5ABolts(6)19.AN960-416Flat Washers(16)20.MS20365-428ALocknuts(6)21.DBL-10Doubler Plate(1)22.OTA-527Oil Temp Adapter (Optional)(1)23.CAP-1350Bypass Valve Cap (Optional)(1)24.56707Loctite 271® Thread Sealant(1)25.AFC-K001-IIInstallation Instructions, Homebuilt(1)26.AFC-K001-MIInstructions for Continued Airworthiness(1)	16	F1300008-077V	Titefley Teflon Hose -8 [Insert ength in inches at en	d of P/N1 (OPT)		
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27 AFC-K001-PI Parte List (1)	I ∠0.	ALC-KOOI-MI	instructions for Continued Airworthiness	(1)		

Installation Instructions No. AFC-K001-II			
Applicab	ility: Homebuilt Aircraft using Lycoming O-235, 290, 320, 340, 360 & 540 First Release 06/08/84 Engines using the Lycoming P/N 69510, 68974, or 62815 4-bolt NEW oil screen housings.		
Note A:	Some hoses or wires may have to be rerouted so the oil filter assembly will fit into position. Reference and material per AC 43.13-1A & 2A.		
01.	Remove the Lycoming P/N 69510, 68974 or 62815 engine oil screen housing from the accessory case. ** WARNING - DO NOT REUSE OIL SCREEN IN LYC-10 ADAPTER **		
02.	Remove oil temperature sensor and thermostatic valve from old oil screen housing.		
03.	Install a new gasket (05) under the head of the oil temperature sensor, reinstall in the adapter-engine (01). Turn the oil temp sensor until the sealing surfaces are in contact and then tighten an additional 135 degrees. Install a new gasket (06) under the head of the P/N 75944 Lycoming thermostatic valve, reinstall in the adapter-engine (01), torque to 300 in/lbs and safety wire.		
Note B:	If you are using an older Lycoming engine and want to use the new type P/N 75944 thermostatic valve and wonder if your accessory case can accept it, your engine must have three holes under the oil screen housing for it to work. In any event contact your local Lycoming dealer or distributor for technical information concerning whether or not their P/N 75944 thermostatic valve will work on your particular engine. You must purchase the optional Bypass Valve Cap (23) when not using the newer type Lycoming P/N 75944 thermostatic bypass valve.		
Note C:	If removing the 68974 or 62815 oil screen housing from your engine which uses the older type capillary tube oil temperature probe and intend to reuse this probe in our LYC-10 Adapter, you must purchase the optional Oil Temp Adapter (22) .		
04.	Onto each bulkhead fitting (03), install in order 1 ea. bulkhead nut (04), Teflon boss gasket (07), and "O" Ring (08). Install each completed assembly into the adapter-engine (01). BE CAREFUL: O-ring and boss gasket must seal in the smooth area between the threaded areas of the bulkhead fitting.		
05.	Install a new gasket (02) on base of adapter-engine (01) and reinstall onto the engine accessory case. Torque to specifica- tions 96 in/lbs.		
06.	Using the horizontal filter mount (10a.) or vertical filter mount (10b.) as a drilling template, locate and drill mounting holes us- ing a letter "F" drill.		
07a.	***** SEE WARNING (A) BELOW ***** Secure vertical oil filter mount plate (10b) to Fwd side of firewall and doubler plate (21) to rear side (long side up) using bolts (18), nuts (20), and washers (19).		
07b.	Secure oil filter base(11) to Fwd side of firewall and horizontal oil filter mount plate (10a) to rear side using bolts (09) and washers (19).		
08.	***** SEE WARNING (B) BELOW ***** Install 1 ea. fitting (12) and (13) into oil filter base (11). Mount to oil filter mount plate (10a.) or (10b.) using bolts (09), washers (19), and secure with .032 MS20995-C safety wire.		
09.	***** SEE WARNING (C) BELOW ***** Assemble 2 ea. hose assy's (16) and (17) using supplied material per installation instructions provided and pressure test to 2,500 lbs./sq. inch.		
10.	***** SEE WARNING (D) BELOW ***** Install assembled hose assy's (16) and (17) connecting the "A" port on the filter adapter to the "A" port on the filter base and the "B" port on the filter adapter to the "B" port on the filter base and torque to 270-350 in/ lbs.		
11.	Install oil filter (15) torque per instructions on oil filter secure with .032 MS20995-C Safety wire.		
12.	Run engine and check for leaks.		

	Oil Filter Kit AFC-K002	
Applicability:	Homebuilt Aircraft using Lycoming O-235, 290, 320, 340, 360 & 540 Engines using the Lycoming P/N 69510, 68974, or 62815 4-bolt oil screen housings.	First Release 06/08/84 NEW
LOCAL STIFF VENT FIREW/	*****WARNING (A) ***** ENING OF THE FIREWALL MAY BE NECESSARY TO SUPPORT WEIGHT C ALL CRACKING.	OF OIL FILTER AND PRE-
USE LOCTITE	***** WARNING (B) ***** E® BRAND 567 TEFLON THREAD SEALANT BEFORE INSTALLATION OF F	ITTINGS.
<u>NO ROUTING</u> RESPONSIBL SORIES)	***** WARNING (C) ***** <u>i OF FLAMMABLE FLUID LINES ABOVE EXHAUST SYSTEM, UNLESS SHR</u> LE FOR INTER-RELATIONSHIP BETWEEN THIS AND OTHER ENGINE CHA	OUDED. INSTALLER IS NGES (INCLUDING ACCES-
IF YOU ARE L ALWAYS REM OF THE FILTE RETURNS TO	***** WARNING (D) ***** JSING YOUR OWN OIL FILTER AND OIL FILTER BASE IN CONJUNCTION V MEMBER THAT THE DIRTY OIL FROM THE ENGINE ENTERS THE OIL FILT ER. THE CLEAN OIL EXITS THROUGH THE LARGE HOLE IN THE CENTE D THE ENGINE.	VITH OUR LYC-10 ADAPTER, ER FROM THE OUTSIDE R OF THE OIL FILTER AND
DO NOT, UND FILTER KIT. (TERED ALL C A CH48108 OI FILTER MEDI/	***** WARNING (E) ***** DER ANY CIRCUMSTANCES, CONNECT AN OIL COOLER IN SERIES WITH OUR FILTER KIT IS A "FULL FLOW" OIL FILTERING SYSTEM WHICH MEAN DF THE TIME. DURING STARTUP ON A COLD DAY, THE COLD THICK OIL R CH48109 OIL FILTER UNTIL THE VISCOSITY DROPS AND THE THIN OIL A THEREBY ALLOWING OIL TO CIRCULATE IN THE ENGINE.	OUR REMOTE MOUNT OIL NS ALL OF THE OIL IS FIL- WILL PARTIALLY BYPASS CAN FLOW THROUGH THE
AN OIL COOL GOES INTO P OIL COOLER.	<u>ER HAS NO THERMOSTATIC BYPASS BUILT INTO THE UNIT, THEREFOR</u> PARTIAL BYPASS, THIS THICK SLUG OF OIL WILL BE STOPPED, OR SEVE . ONE OF THREE THING WILL HAPPEN,:	E WHEN THE OIL FILTER ERELY RESTRICTED AT THE
1. THE OIL C 2 THE OIL FI 3. THE OIL H	OOLER WILL SEPARATE IN HALF. ILTER GASKET WILL FAIL AND/OR THE OIL FILTER WILL EXPLODE. IOSE WILL FAIL.	
ANY OF THE	THREE SCENARIOS ABOVE WILL CAUSE COMPLETE LOSS OF OIL IN A	SHORT PERIOD OF TIME.
	FAA/PMA	
	Manufactured By: Airwolf Filter Corp. 15369 Madison Rd. Middlefeld OH 44062 8404 - U.S.A	
	(440) 632-5136 / (440) 632-1685 Fax	

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS					
Revi	Make :		O/N	ney#	
TU		<u> </u>			
I his ness	sixteen item checklist are instruct (HBAW-98 Dated October 7. 19	ctions for Continued Airwort 198), are applicable to the ai	hiness (ICA), to comply v ircraft above when the fo	with FAA Handbook Bulletin for Airworthi- Ilowing equipment is installed:	
SYS	TEM:Airwolf Remote Moun	t Oil Filter System.			
ITEM		CHECKLIST	INFORMATION		
1.	Introduction: This section brid information on the content, sco ment, reverenced publications,	efly describes the aircraft, e pe, purpose, arrangement, and distribution of the ICA	ngine, propeller, or comp applicability, definitions, a as applicable.	ponent that has been altered. Include and ot abbreviations, precautions, units of measure	her -
	Comment:		with Lyo	coming engine.	
		Aircraft Model		Engine Model	
2.	Description: Of the major	alteration, it's function inclu	iding an explanation of it?	's interface with other systems, if any.	
	Comment: Installation of Air	wolf Remote Mounted Oil	Filter Kit P/N AFC-K001	l	
3.	Control: Operation information	n: Or special procedures if a	any.		
	Comment: Pre-heating of both the engine and engine oil is recommended prior to starting the engine during periods of cold weather where the temperatire is 30°F or below.			f	
4.	Servicing information: Such a	as types of fluids used, serv	vicing points, and location	n of access panels, as appropriate.	
	Comment: Oil System to be serviced in accordance withLycoming Service Bulletin 480C or higher. Oil should be changed at least once each 12 months. Cut the old filter open with Airwolf AFC-470 oil filter cutter at each oil change and inspect for metal contamination or any evidence that may indicate impending engine problems.			and	
5.	Maintenance Instructions: Such as recommended inspection/maintenance periods in which each of the major alteration compo- nents are inspected, cleaned, lubricated, adjusted, tested, including applicable wear tolerances and work recommended at each scheduled maintenance period. This section can refer to the manufactures instructions for the equipment installed where appropri- ate e.g. functional checks, repairs, inspections.) It should also include any special notes, cautions, or warnings as applicable.			יס- ז pri-	
	Comment: Inspect for secur and check for leaks before fl	ity at each annual or 100 l ight.	nr . inspection. After an	ny oil change, always ground run the engi	ne
6.	Trouble shooting information dial actions to be taken. Comment:N/A	1: Information describing pro	obably malfunctions, how	v to recognize those malfunctions, and the re	me-
7.	Removal and replacement in and any necessary precautions trim checks, alignment, calibrat	formation: This section de 5. This section should also tions, center of gravity chan	scribes the order and me describe or refer to the m ges, lifting or shoring, etc	ethod of removing and replacing products, pa nanufacture's instructions to make required to c., if any.	ırts, ∍sts
	Comments:N/A				
8.	Diagrams: Of access plates a	nd information, if needed, to	o gain access for inspect	tion.	
	Comment:N/A				
9.	Special inspection requireme	ents: Such as X-ray, ultraso	onic testing, or magnetic	particle inspection, if required.	
	Comment:N/A				
10.	Application of protective trea	atments: To the affected ar	ea after inspection and/o	or maintenance, if any.	
	Comment:N/A				

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

11.	Data: Relative to sctuctural fasteneers such as type, torque, and installation requirements if any.
	Comment:N/A
12.	List of special tools: Special tools that are required, if any.
	Comment:N/A
13.	For commuter category aircraft: The following additional information must be furnished, as applicable: A. Electrical Loads B. Methods of balancing flight controls. C. Identification of primary and secondary structures> D. Special repair methods applicable to the airplane.
	Comment:N/A
14.	Recommended overhaul periods: Are required to be noted on the ICA when an overhaul period has been set by the manufac- turer of a component, or equipment. If there is no overhaul period, the ICA should state for item 14: "No additional overhaul time limitations."
	Comment:N/A
15.	Airworthiness Limitation Section: Include any "approved" airworthiness limitations identified by the manufacturer of FAA type Certificate Holding Office (e.g., An STC incorporated in a larger field approved major alteration may have an airworthiness limitation.) The FAA inspector should not establish, alter, or cancel airworthiness limitations without coordinating with the appropriate FAA type Certificate Holding Office. If there are no changes to the airworthiness limitations, the ICA should state for item 15: "No additional airworthiness limitations" or " Not Applicable."
16.	Revision: This section should include information on how to revise the ICA. For example, a letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. The FAA inspection accepts the change by signing Block 3 and including the following statement: "The attached revised/new Instructions for Continued Airworthiness (date) for the above aircraft or component major alteration have been accepted by the FAA, superseding the Instructions for Continued Airworthiness (date)." Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location, date of the Form 377.
	Comment:A letter will be submitted to the local FSDO with a copy of the revised FAA Form 377 and revised ICA. The FAA inspector accepts the change by signing Block 3 and including the following statement: "The attached revised/new Instructions for Continued Airworthiness (date) for the above aircraft or component major alteration have been accepted by the FAA, superseding the Instructions for Continued Airworthiness (date) for the above aircraft or component major alteration have been accepted by the FAA, superseding the Instructions for Continued Airworthiness (date)." Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location, date of the Form 377.
NOT	E: Implementation and Record Keeping: For major alterations performed in accordance with FAA Field Approval policy, the owner/ operator operating under part 92 is responsible for ensuring that the ICA is made part of the applicable section 92.409 inspection program for their aircraft. This is accomplished when a maintenance entry is made in the aircraft's maintenance entry is made in the aircraft's maintenance record in accordance with section 43.9. This entry recorded the major alteration and identifies the original ICA location (e.g., Block 8 of FAA Form 337, dated 5/28/98) along with a statement that the ICA is now part of the aircraft's inspection/maintenance requirements.
	For major alterations performed in accordance with field approval on air carrier aircraft, the air carrier operator is respon- sible for ensuring that the CIA is made part of the applicable inspection/maintenance program for their aircraft. If a procedure is no currently included in the operator's manual to incorporate ICA, this process will need to be appropriately addressed (i.e. the opera- tor submits a revision to its maintenance program to the applicable certificate-holding district office (CHDO).
	For aircraft inspected under an Approved Aircraft Inspection Program (AAIP), the operator will submit a change to the CHDO in accordance with section 135.419b).
	For air carrier aircraft inspected using an annual/100 hour inspection program, a reference to the new ICA will be made in the aircraft's maintenance record in accordance with section 43.9. This entry records the major alteration and identifies the original ICA location (e.g., ICA are located/attached to Block 8 of EAA Form 337, dated 5/28/98). In addition, the operator will request a

the aircraft's maintenance record in accordance with section 43.9. This entry records the major alteration and identifies the origina ICA location (e.g., ICA are located/attached to Block 8 of FAA Form 337, dated 5/28/98). In addition, the operator will request a revision to the operator's Operations Specifications, additional maintenance requirements, which incorporates the ICA into the inspection program.

ASSEMBLY DRAWING# AFC-D-0025

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MATERIAL LIST			
<u>Index</u>	<u>Part Number</u>	Description	Qty
01.	LYC-10	Adapter, Engine - Full Flow	(1)
02.	61173	Adapter Base Gasket	(1)
03a.	AN837-8D	Bulkhead Fitting, 45°	(2)
03b.	AN833-8D	Bulkhead Fitting, 90°	(Opt)
03c.	AN815-8D	Union	(Opt)
04.	AN6289-8D	Bulkhead Nut	(2)
05.	MS35769-11	Gasket, Oil Temperature Sensor	(1)
06.	MS35769-21	Gasket, Thermostatic Valve	(1)
07.	MS28773-08	Boss Gasket, Teflon	(2)
08.	MS9387-08	"O" Rings, Viton	(2)

