	Image: Constraint of the second se					
Applica	with Frankl	opter Model UH12A, 12B, 12C, 12D, 12E, &12L4 in Engines 6V4-200, 6V-335, 6VS-335 & Engines VO435-A1C, VO540-B1A, VO540-C2A, TVIO540-A2A	First Release 11/01/95 Ammended 01/08/2000			
		Parts List No. AFC-K012-PL				
Index	Part Number	Description	<u>Quantity</u>			
01. 02.	OFB-11 OFS-10	Oil Filter Base, -10 Port Oil Filter Stud	(1) (1)			
03.	AFC-600	Oil Filter, Long, or Equivalent [Champion CH48109]	(1)			
04a.	MS20823-10D	Elbow, 45°	(1)			
04b.	MS20822-10D	Elbow, 90°	(1)			
05.	DBL-12	Bracket, Support	(1)			
06.	OFM-15	Oil Filter Mount, 105°	(1)			
07.	AN4H-4A	Bolt, Drilled Head	(4)			
08. 09.	AN960-416 AN4-5A	Flat Washer Bolt	(12)			
10.	MS20365-428A	Locknut	(4) (4)			
11.	OFM-17	Oil Filter Mount Plate, Hiller	(4) (1)			
12.	AN3-4A	Bolt	(4)			
13.	AN960-10	Flat Washer	(8)			
14.	MS20365-1032A	Locknut	(4)			
15.	AN3-15A	Bolt, Standoff	(4)			
16.	TUB-0100	Standoff, 1"	(4)			
17.	MS21919WDG-14	Adel Clamp	(4)			
18.	MS21919WDG-18	Adel Clamp	(2)			
19.	MS21919WDG-20	Adel Clamp	(2)			
20a.	13000210-0240	Teflon Hose Assy S/90°, 24" Long, UH12D&E	(1)			
20b.	13000210-0440	Teflon Hose Assy S/90°, 44" Long, UH12E	(1)			
20c.	13000210-0600	Teflon Hose Assy S/90°, 60" Long, UH12D	(1)			
21.		Loctite® 567 Teflon Thread Sealant	(1)			
22.	AFC-K012-II	Installation Instructions	(1)			
23. 24.	AFC-K012-MI AFC-K012-PL	Instructions for Continued Airworthiness	(1)			
1 /4	AFU-NUIZ-PL	Parts List	(1)			

Applical		First Release 11/01/95
		Ammended 01/08/2000
	VO-435-A1C, VO-540-B1A, VO-540-C2A, TVIO-540-A2A	
Vote A:	Some hoses or wires may have to be rerouted so the oil filter assembly will fit into posit Reference and material per AC 43.13-1B & 2A.	tion.
Vote B:	The internal oil screen, P/N 71589, 72785, or any superseeding part number. is not ren	noved for this installation.
1.	Remove -10 oil return line from bottom of engine to oil cooler.	
2.	Attach 105° oil filter mount plate (06) and support bracket (05) to oil filter base (01) usin secure with .032 MS20995-C safety wire.	ng 4ea. bolts (07) &washers (08) an
)3.	Install above assembly onto oil filter mount plate (11) using 4ea. bolts (09), washers (08 mounting plate facing forward and toward the engine.	 and locknuts (10). with angles of
04.	Attach complete assembly to engine mount frame on engine side of frame (inside) using bolts (12), washers (13), and locknuts (14). When properly installed, the bottom of oil firmately 11" above lower mount attach bolt.	
05.	Reposition engine electrical harness on mount leg as necessary to assure proper clears	ance.
	***** SEE WARNING (A) BELOW *****	
06.	Install 45° fitting (04a) into inlet Port "B" of the oil filter base (01) so that it faces approvand aft.	ximately 45 degree angle downwar
07.	Install 90° fitting (04b) into outlet Port "A" of the oil filter base and position fitting down	towards engine deck
	***** SEE WARNING (B) BELOW *****	
08.	Install oil line (20a) connecting the 90° end of oil line (20a) to the outlet fitting on botton loops upwards towards the 45° fitting (04a) previously installed into Port "B" of the oil f ends while adjusting position so that hose does not contact airframe.	
09.	Install oil line (20b) or (20c) connecting the 90° end of oil line to the oil cooler and route oil filter base (01). Secure oil line to engine deck with 4ea. clamps (17) as shown in ins bolts (15), 1" standoffs (16), & washers (13) as necessary to provide proper engagement will be used to prevent tail rotor cables from rubbing against installed oil line. Install cla locations:	tallation drawing AFC-D00?? using nt of threads into nutplates. Stando
	(a) one clamp (17) at left side of fuel tank access plate, fourth bolt from aft end.(b) one clamp (17) at right side of fuel tank access plate, fourth bolt from the engine.	
	 (c) one clamp (17) at right tail rotor cable pulley bracket outboard side. (d) one clamp (17) at electrical junction box inboard aft attach bracket. 	
0.	Install oil filter (03) torque per instructions on oil filter, and secure with .032 MS20995-C	safety wire.
1.	Run engine and check for leaks.	
2.	Determine weight and balance, initiate a 337 form, and update the equipment list.	
	** WARNING (A) **	
	USE LOCTITE® 567 PST TEFLON THREAD SEALANT BEFORE INSTALLATION OF FITTINGS INTO OIL FILTER BASE WITHOUT SEALANT OTHERWISE GALLING OF	
	** WARNING (B) **	
	NO ROUTING OF FLAMMABLE FLUID LINES ABOVE EXHAUST SYSTEM, UNLES RESPONSIBLE FOR INTER-RELATIONSHIP BETWEEN THIS AND OTHER ENGINE	

Installation Instructions No. AFC-K012-B-II

Applicability:

Hiller Helicopter Model UH12A, 12B & 12C with Franklin Engines 6V4-200, 6V-335,& 6VS-335 First Release 11/01/95

Ammended 01/08/2000

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 43.13-1B & 2A.			
Note B:	The internal oil screen, P/N 71589, 72785, or any superseeding part number. is not removed for this installation.			

- 01. Remove -10 oil return line from bottom of engine to oil cooler.
- 02. Attach 105° oil filter mount plate (06) and support bracket (05) to oil filter base (01) using 4ea. bolts (07) &washers (08) and secure with .032 MS20995-C safety wire.
- 03. Install above assembly onto oil filter mount plate (11) using 4ea. bolts (09), washers (08) and locknuts (10). with angles of mounting plate facing forward and toward the engine.
- 04. Attach complete assembly to engine mount frame on engine side of frame (inside) using 2ea. clamps (18) & (19) and 4ea. bolts (12), washers (13), and locknuts (14). When properly installed, the bottom of oil filter mount plate (11) will be approximately 11" above lower mount attach bolt.
- 05. Reposition engine electrical harness on mount leg as necessary to assure proper clearance.

***** SEE WARNING (A) BELOW *****

- 06. Install 45° fitting (04a) into inlet **Port "B"** of the oil filter base (01) so that it faces approximately 45 degree angle downward and aft.
- 07. Install 90° fitting (04b) into outlet **Port "A"** of the oil filter base and position fitting down towards engine deck

***** SEE WARNING (B) BELOW *****

- 08. Install oil line (20a) connecting the 90° end of oil line (20a) to the outlet fitting on bottom of engine so hose points aft and loops upwards towards the 45° fitting (04a) previously installed into **Port "B"** of the oil filter base (01). Tighten line at both ends while adjusting position so that hose does not contact airframe.
- 09. Install oil line (20b) or (20c) connecting the 90° end of oil line to the oil cooler and route line under engine to **Port "A"** of the oil filter base (01). Secure oil line to engine deck with 4ea. clamps (17) as shown in installation drawing AFC-D00?? using bolts (15), 1" standoffs (16), & washers (13) as necessary to provide proper engagement of threads into nutplates. Standoffs will be used to prevent tail rotor cables from rubbing against installed oil line. Install clamps and standoffs at the following locations:
 - (a) one clamp (17) at left side of fuel tank access plate, fourth bolt from aft end.
 - (b) one clamp (17) at right side of fuel tank access plate, fourth bolt from the engine.
 - (c) one clamp (17) at right tail rotor cable pulley bracket outboard side.
 - (d) one clamp (17) at electrical junction box inboard aft attach bracket.
- 10. Install oil filter (03) torque per instructions on oil filter, and secure with .032 MS20995-C safety wire.
- 11. Run engine and check for leaks.
- 12. Determine weight and balance, initiate a 337 form, and update the equipment list.

** WARNING (A) **

USE LOCTITE® 567 PST TEFLON THREAD SEALANT BEFORE INSTALLATION OF FITTINGS. DO NOT ASSEMBLE FITTINGS INTO OIL FILTER BASE WITHOUT SEALANT OTHERWISE GALLING OF MATERIAL WILL RESULT.

** WARNING (B) **

NO ROUTING OF FLAMMABLE FLUID LINES ABOVE EXHAUST SYSTEM, UNLESS FIRESLEEVED. INSTALLER IS RESPONSIBLE FOR INTER-RELATIONSHIP BETWEEN THIS AND OTHER ENGINE CHANGES (INCL. ACCESSORIES)

	INSTRUCTIONS FOR CONTINUED AIRWORTHINESS Form AFC-K012-ICA Revised 10/01/00						
A/C	Make : Hiller Model: UH12 Series S/N:						
Revi	Revision: Date: 01/08/2000						
	This sixteen item checklist are Instructions for Continued Airworthiness (ICA), to comply with FAA Handbook Bulletin for Airworthiness (HBAW-98-18 Dated October 7, 1998), are applicable to the aircraft above when the following equipment is installed: Airwolf Filter Corp						
SYS	TEM: Airwolf Remote Mount Oil Filter System.						
ITEM	CHECKLIST INFORMATION						
1.	Introduction: This section briefly describes the aircraft, engine, propeller, or component that has been altered. Include and other information on the content, scope, purpose, arrangement, applicability, definitions, abbreviations, precautions, units of measurement, reverenced publications, and distribution of the ICA as applicable.						
	Comment: Hiller UH12 Helicopter with Lycoming VO435/540 & TVO540 and Franklin 6V, 6V4, & 6VS Series engines. Aircraft Model Engine Model						
2.	Description: Of the major alteration, it's function including an explanation of it's interface with other systems, if any.						
	Comment: Installation of Airwolf Remote Mounted Oil Filter Kit P/N AFC-K012						
3.	Control: Operation information: Or special procedures if 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 temperature is 30°F or below.						
4.	Servicing information: Such as types of fluids used, servicing points, and location of access panels, as appropriate.						
	Comment: Oil System to be serviced in accordance with Lycoming Service Bulletin 480C or higher & Franklin Service Bulletin. 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.						
5.	Maintenance Instructions : Such as recommended inspection/maintenance periods in which each of the major alteration components 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 appropriate e.g. functional checks, repairs, inspections.) It should also include any special notes, cautions, or warnings as applicable.						
	Comment: Inspect for security at each annual or 100 hr . inspection. After any oil change, always ground run the engine and check for leaks before flight.						
6.	Trouble shooting information: Information describing probably malfunctions, how to recognize those malfunctions, and the remedial actions to be taken. Comment:N/A						
7.	Removal and replacement information: This section describes the order and method of removing and replacing products, parts, and any necessary precautions. This section should also describe or refer to the manufacture's instructions to make required tests trim checks, alignment, calibrations, center of gravity changes, lifting or shoring, etc., if any.						
	Comments:N/A						
8.	Diagrams: Of access plates and information, if needed, to gain access for inspection.						
	Comment:N/A						
9.	Special inspection requirements: Such as X-ray, ultrasonic testing, or magnetic particle inspection, if required.						
	Comment:N/A						
10.	Application of protective treatments: To the affected area after inspection and/or maintenance, if any.						
	Comment:N/A						

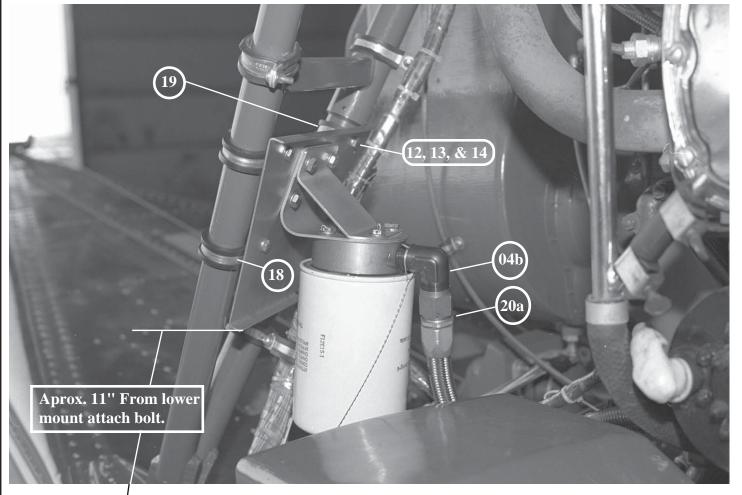
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

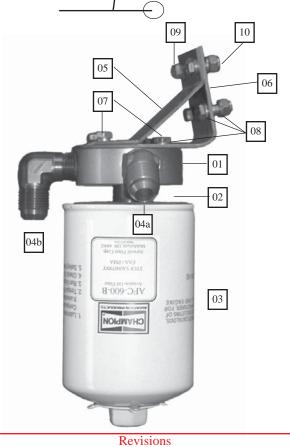
11.	Data: Relative to structural fasteners such as type, torque, and installation requirements if any.
	Comment:N/A
12.	List of special tools: Special tools that are required, if any.
	Comment:N/A
13.	For commuter category aircraft: The following additional information must be furnished, as applicable: 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 manufacturer 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."
	Comment:N/A
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 337.
	Comment:A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 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 337.
pro wit 5/2	Implementation and Record Keeping: For major alterations performed in accordance with FAA Field Approval policy, the owner erator operating under part 91 is responsible for ensuring that the ICA is made part of the applicable section 92.409 inspection ogram for their aircraft. This is accomplished when a maintenance entry is made in the aircraft's maintenance record in accordance h section 43.9. This entry recorded the major alteration and identifies the original ICA location (e.g., Block 8 of FAA Form 337, dated 28/98) along with a statement that the ICA is now part of the aircraft's inspection/maintenance requirements.
inc	suring that the ICA is made part of the applicable inspection/maintenance program for their aircraft. If a procedure is not currently cluded in the operator's manual to incorporate ICA, this process will need to be appropriately addressed (i.e. the operator submits a vision to its maintenance program to the applicable certificate-holding district office (CHDO).
ac	For aircraft inspected under an Approved Aircraft Inspection Program (AAIP), the operator will submit a change to the CHDO in cordance 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

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 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.

WEIGHT AND BALANCE REPORT HILLER UH12 ALL MODELS

SURPLUS EQUIPMENT	WEIGHT	ARM-INCHES		MOMENT - IN/L	
EQUIPMENT - ITEM	LBS.	LONG	LATR	LONG	LATR
REMOTE OIL FILTER	6.0	101.0		606.0	





Material List					
Ind.	Part Number	Description	Quantity		
01.	OFB-11	Oil Filter Base, -10 Port	(1)		
02.	OFS-10	Oil Filter Stud	(1)		
03.	AFC-600	Oil Filter, Long	(1)		
04a.	MS20823-10D	Elbow, 45°	(1)		
04b.	MS20822-10D	Elbow, 90°	(1)		
05.	DBL-12	Bracket, Support	(1)		
06.	OFM-15	Oil Filter Mount, 105°	(1)		
07.	AN4H-4A	Bolt, Drilled Head	(4)		
08.	AN960-416	Flat Washer	(12)		
09.	AN4-5A	Bolt	(4)		
10.	MS20365-428A	Locknut	(4)		
11.	OFM-17	Oil Filter Mount Plate, Hiller	(1)		
12.	AN3-4A	Bolt	(4)		
13.	AN960-10	Flat Washer	(8)		
14.	MS20365-1032A	Locknut	(4)		
18.	MS21919WDG-18	Adel Clamp	(2)		
19.	MS21919WDG-20	Adel Clamp	(2)		
20a.	13000210-0240	Teflon Hose Assy S/90°, 24" Long	(1)		

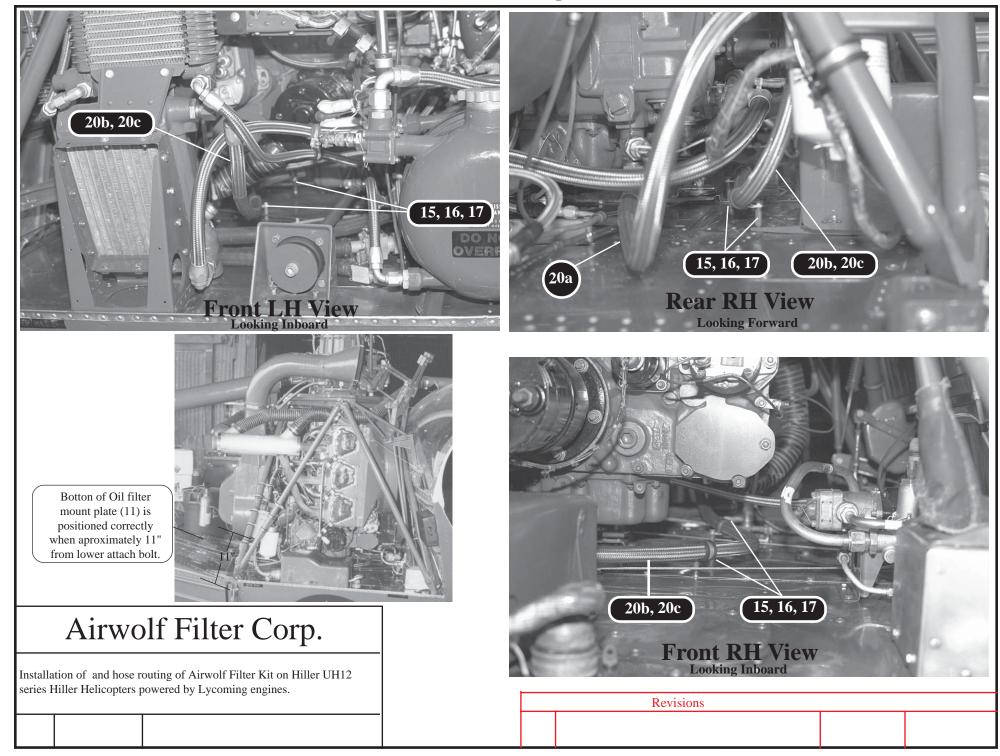
Airwolf Filter Corp.

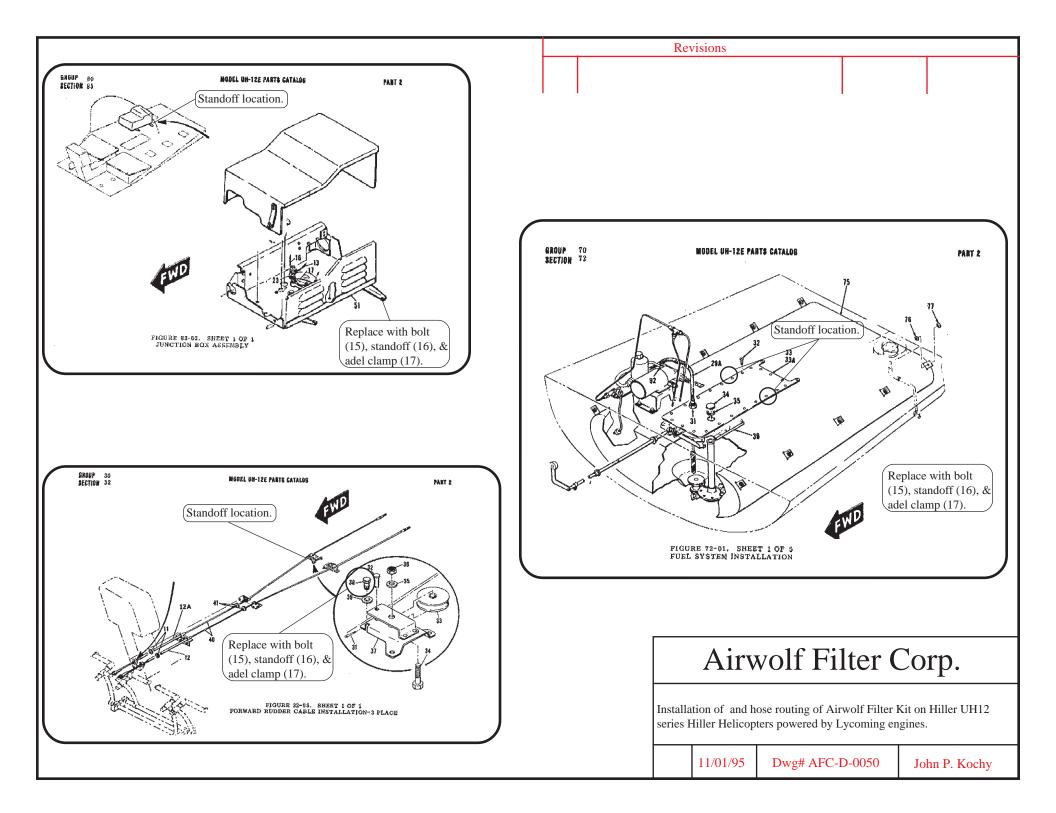
Assembly Drawing. OFB-11Oil Filter Base OFM-15 Oil Filter Mount 105°, OFM-17 Oil Filter Mount Plate Hiller DBL-12Doubler Plate

11/01/95 Dwg# AFC-D-0048

John P. Kochy

Installation Drawings AFC-D0049







Reference Data for AFC-K012-A&B-II for STC SR00420NY Oil Filter Kit AFC-K012

Dated: 4/2/2021

Airwolf Filter, Corp 12801 Hwy. 75 N. OKMULGEE, OK 74447 (918) 561-8696 Ph (918) 561-8695 Fx

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READ THIS BEFORE INSTALLING OIL FILTER KITS, DATA PERTINENT TO ALL INSTALLATIONS

TO THE MECHANIC:

This P/N AFC-K012 remote mount oil filter kit incorporates our STC approved for Hiller Helicopters, Powered by Lycoming, or Franklin Series Engines. The STC paperwork provided with this kit utilizes the approved model list (AML) system instituted by the FAA.

Upon installing this filter kit, you will need to fill out and file a 337 form for this installation referencing the P/N AFC- K012 kit and the STC# SR00420NY. If your aircraft is not listed on the AML, you will also need a field approval by your local FSDO. for this installation. This is necessary until your aircraft is listed, a field approval is required. If you are unsure whether you need a field approval, please call us directly.

If you have any questions or concerns on this STC, please call Airwolf Filter Corp, which we will clarify the details. Personnel are very familiar with our filter kits and can address any concerns you may have on your installation.

Airwolf Filter Corp 12801 Hwy 75 N. Okmulgee, OK 74447 Phone: (918) 561-8696 Fax: (918) 561-8695

After completion of the installation of this kit, place a copy of the instructions along with the ICA in the Aircraft records for maintenance and replacement parts identification.

DATA PERTINENT TO ALL INSTALLATIONS

Prior to installing the filter kit on the aircraft, weigh the filter kit, add the weight of the hoses, and subtract the oil screen or oil filter adapter removed from the engine, and determine the net weight being added to the aircraft for determining the weight and balance of the aircraft later. Once the filter kit is installed on the aircraft, if you choose to purchase the hoses from Airwolf, we will supply you with the Hoses specified in this STC. At the time of the order, we will need the flare-to-flare length of the hoses, and hose ends needed on each hose i.e.: Straight to Straight, Straight to 90°, Straight to 45°, etc. allowing for engine torque and vibration per AC43.13.

If our instructions do not specifically say you can do something, assume that means you are not allowed to do it without our written approval

- 1. Review all installation data and written material before beginning
- 2. Please inspect contents of kit and inventory components before beginning.
- 3. <u>**Do not**</u> over tighten the fittings on Adapters or housings. This can distort or crack housings, causing oil to leak.
- 4. It is <u>*EXTREMELY*</u> important that oil lines be routed properly in accordance with AC 43.13-1A & 2A Acceptable Methods and Practices. (see Tip below)
- 5. See Warnings and Notes contained in the instructions concerning routing of lines and the use of sealant on NPT fittings.

DO NOT USE TEFLON TAPE ON FITTINGS.

- 6. The use of sealant on AN/Flared type fittings is not required, it is only required on NPT fittings.
- 7. When mounting Adapters use the supplied doublers for reinforcing mounting locations.
- 8. <u>**BE PATIENT!!!**</u> Take your time and you will see the results of your effort.

TIP

How to get correct length of hose

Hose length is measured from flare to flare. Do not use a string or a tape measure but take a section of old garden hose. Touch one end of the garden hose to the tip of one fitting and touch the other end of the hose to the other fitting, that is the correct length of hose needed. The garden hose is trying to bend to its natural set, which is normally the extra length needed for engine torque and vibration per AC43.13, Also, if you kink a garden hose, you are obviously going to kink an aircraft hose. Doing it this way allows you to snake a hose across the back of an engine and around obstacles and this will replicate exactly how the aircraft hose will fit.

Thank you for taking the time to read this.

WARNINGS & NOTES

*****WARNING (A) ***** USE LOCTITE® BRAND 567 TEFLON THREAD SEALANT BEFORE INSTALLATION OF FITTINGS. DO NOT ASSEMBLE FITTINGS INTO OIL FILTER BASE WITHOUT SEALANT OTHERWISE GALLING OF MATERIAL WILL RESULT.

***** WARNING (B) *****

NO ROUTING OF FLAMMABLE FLUID LINES ABOVE EXHAUST SYSTEM, UNLESS FIRESLEEVED. INSTALLER IS RESPONSIBLE FOR INTER-RELATIONSHIP BETWEEN THIS AND OTHER ENGINE CHANGES (INCLUDING ACCESSORIES)

***** WARNING (C) *****

THE USE OF PARTS AND COMPONENTS NOT INCLUDED IN THE KIT, IS NOT COVERED BY THE STC APPROVAL. ALWAYS REMEMBER THAT THE DIRTY OIL FROM THE ENGINE ENTERS THE OIL FILTER FROM THE OUTSIDE OF THE FILTER. THE CLEAN OIL EXITS THROUGH THE LARGE HOLE IN THE CENTER OF THE OIL FILTER AND RETURNS TO THE ENGINE.

***** WARNING (D) *****

DO NOT, UNDER ANY CIRCUMSTANCES, CONNECT AN OIL COOLER THAT DOES NOT HAVE A THERMOSATIC CONTROL VALVE, IN SERIES WITH OUR REMOTE MOUNT OIL FILTER KIT. OUR FILTER KIT IS A "FULL FLOW" OIL FILTERING SYSTEM WHICH MEANS ALL OF THE OIL IS FILTERED ALL OF THE TIME. DURING STARTUP ON A COLD DAY, THE COLD THICK OIL WILL PARTIALLY BYPASS A CH48108 OR CH48109 OIL FILTER UNTIL THE VISCOSITY DROPS AND THE THIN OIL CAN FLOW THROUGH THE FILTER MEDIA THEREBY ALLOWING OIL TO CIRCULATE IN THE ENGINE. IF AN OIL COOLER HAS NO THERMOSTATIC BYPASS BUILT INTO THE UNIT, WHEN THE OIL FILTER GOES INTO PARTIAL BYPASS, THIS THICK SLUG OF OIL WILL BE STOPPED, OR SEVERELY RESTRICTED AT THE OIL COOLER. ONE OF THREE THINGS WILL HAPPEN:

1. <u>THE OIL COOLER WILL SEPARATE IN HALF.</u>

- 2. <u>THE OIL FILTER GASKET WILL FAIL AND/OR THE OIL FILTER WILL EXPLODE.</u>
- 3. <u>THE OIL HOSE WILL FAIL</u>

ANY OF THE THREE SCENARIOS ABOVE WILL CAUSE COMPLETE LOSS OF OIL IN A SHORT PERIOD OF TIME.

NOTE.

<u>COMMON TO ALL INSTALLATIONS</u> <u>SOME HOSES OR WIRES MAY HAVE TO BE REROUTED SO THE OIL FILTER ASSEMBLY WILL</u> <u>FIT INTO POSITION. REFERENCE AND MATERIAL PER AC 43.13-1B & 2A.</u> Applicability:

Illustrated Parts List No. AFC-K012-PL Hiller Helicopter Models: UH12A, 12B,12C, 12D, 12E, & 12L4 With Franklin Engine 6V4-200, 6v-335, 6VS-335 & Lycoming Engines: VO435-A1C, VO540-B1A, VO540-C2A, TVIO540-A2A,



Parts Illustration K012 Kit Series

Parts List No. AFC-K012-PL (see Illustration)

Index	Part Number	Description	Quantity
1	TBD-0240	Hose Assy S/90°, 24" Long, UH12D & E	1
2	TBD-0440	Hose Assy S/90°, 44" Long, UH12E	1
3	TBD-0600	Hose Assy S/90°, 60" Long, UH12D	1
4	OFM-17	Horizontal Oil Filter Mount Plate	1
5	OFM-15	Vertical Oil Filter Mount Plate	1
6	OFB-11	Oil Filter Base, -10 Ports, (with OFS-10 Installed)	1
7	AFC-500 or AFC-600	Oil Filter, or Equivalent [Champion CH48108/CH48109]	1
8	MS21919WDG-14	Adel Clamp	4
9	MS21919WDG-18	Adel Clamp	2
10	MS21919WDG-20	Adel Clamp	2
11	MS20823-10D	Fitting, NPT to Flare - 45°,	1
12	MS20822-10D	Fitting, NPT to Flare - 90°,	1
13	567	Loctite Thread Sealant	1
14	DBL-12	Plate, Doubler	1
15	AN3-15A	Bolt (Stand-Off)	4
16	TUB-0100	Stand-Off, 1"	4
17	AN4-5A	Bolt	4
18	AN4H-4A	Bolt, Drilled Head	4
19	AN3-4A	Bolt	4
20	MS20365-428A	Locknut	4
21	MS20365-1032A	Locknut	4
22	AN960-416	Flat Washer	12
23	AN960-10	Flat Washer	8

Installation Instructions No. AFC-K012-A-II Applicability: Hiller Helicopter Models: UH12D & 12E With Lycoming Engines: VO435-A1C, VO540-B1A, VO540-C2A, TVIO540-A2A,

Note B: The internal oil screen, P/N 71589, 72785, or any superseding part number. is not removed for this installation.

- 1. Remove -10 oil return line from bottom of engine to oil cooler.
- 2. Per Assembly Drawing AFC-D-0048, attach 105° oil filter mount plate (6) and support bracket (5) to oil filter base (1) using 4ea. bolts (7) & washers (8) and secure with .032 MS20995-C safety wire.
- 3. Per Assembly Drawing AFC-D-0048, install above assembly onto oil filter mount plate (11) using 4ea. bolts (9), washers (8) and locknuts (10). with angles of mounting plate facing forward and toward the engine.
- 4. Per Assembly Drawing AFC-D-0048, attach complete assembly to engine mount frame on engine side of frame (inside) using 2ea. clamps (15) & (16) and 4ea. bolts (12), washers (13), and locknuts (14). When properly installed, the bottom of oil filter mount plate (11) will be approximately 11" above lower mount attach bolt.
- 5. Reposition engine electrical harness on mount leg as necessary to assure proper clearance.

***** SEE WARNING (A) *****

- 6. Per Assembly Drawing AFC-D-0048, install 45° fitting (4a) into inlet **Port "B"** of the oil filter base (1) so that it faces approximately 45-degree angle downward and aft.
- 7. Per Assembly Drawing AFC-D-0048, install 90° fitting (4b) into outlet **Port "A"** of the oil filter base and position fitting down towards engine deck.

***** SEE WARNING (B) *****

- 8. Per Assembly Drawing AFC-D-0048, install oil line (17a) connecting the 90° end of oil line to the outlet fitting on bottom of engine so hose points aft and loops upwards towards the 45° fitting (4a) previously installed into **Port "B"** of the oil filter base (1). Tighten line at both ends while adjusting position so that hose does not contact airframe.
- 9. Per Assembly Drawing AFC-D-0048, install oil line (17b) or (17c) connecting the 90° end of oil line to the oil cooler and route line under engine to **Port "A"** of the oil filter base (1).
- Per Installation Drawing AFC-D-0049, Secure oil line to engine deck with 4ea. clamps (3) as shown, using bolts (1), 1" standoffs (2), & washers as necessary to provide proper engagement of threads into nutplates. Standoffs will be used to prevent tail rotor cables from rubbing against installed oil line. Install clamps and standoffs at the following locations:
 - (a) one clamp (3) at left side of fuel tank access plate, fourth bolt from aft end.
 - (b) one clamp (3) at right side of fuel tank access plate, fourth bolt from the engine.
 - (c) one clamp (3) at right tail rotor cable pulley bracket outboard side.
 - (d) one clamp (3) at electrical junction box inboard aft attach bracket.
- 11. Install oil filter (3) torque per instructions on oil filter, and secure with .032 MS20995-C safety wire.
- 11. Run engine and check for leaks.
- 12. Determine weight and balance, initiate a 337 form, and update the equipment list.

Installation Instructions No. AFC-K012-B-IIApplicability:Hiller Helicopter Models: UH12A, 12B, & 12C,
With Franklin Engine 6V4-200, 6v-335, 6VS-335

Note B: The internal oil screen, P/N71589, 72785, or any superseding part number. is not removed for this installation.

- 1. Remove -10 oil return line from bottom of engine to oil cooler.
- 2. Per Assembly Drawing AFC-D-0048, attach 105° oil filter mount plate (6) and support bracket (5) to oil filter base (1) using 4ea. bolts (7) & washers (8) and secure with .032 MS20995-C safety wire.
- 3. Per Assembly Drawing AFC-D-0048, install above assembly onto oil filter mount plate (11) using 4ea. bolts (9), washers (8) and locknuts (10). with angles of mounting plate facing forward and toward the engine.
- 4. Per Assembly Drawing AFC-D-0048, attach complete assembly to engine mount frame on engine side of frame (inside) using 2ea. clamps (15) & (16) and 4ea. bolts (12), washers (13), and locknuts (14). When properly installed, the bottom of oil filter mount plate (11) will be approximately 11" above lower mount attach bolt.
- 5. Reposition engine electrical harness on mount leg as necessary to assure proper clearance.

***** SEE WARNING (A) *****

- 6. Per Assembly Drawing AFC-D-0048, install 45° fitting (4a) into inlet **Port "B"** of the oil filter base (1) so that it faces approximately 45° angle downward and aft.
- 7. Per Assembly Drawing AFC-D-0048, install 90° fitting (4b) into outlet **Port "A"** of the oil filter base and position fitting down towards engine deck.

***** SEE WARNING (B) *****

- 8. Per Assembly Drawing AFC-D-0048, install oil line (17a) connecting the 90° end of oil line (5a) to the outlet fitting on bottom of engine so hose points aft and loops upwards towards the 45° fitting (4a) previously installed into **Port "B"** of the oil filter base (1). Tighten line at both ends while adjusting position so that hose does not contact airframe.
- 9. Per Assembly Drawing AFC-D-0048, install oil line (17b) or (17c) connecting the 90° end of oil line to the oil cooler and route line under engine to **Port "A"** of the oil filter base (1).
- Per Installation Drawing AFC-D-0049, Secure oil line to engine deck with 4ea. clamps (3) as shown, using bolts (1), 1" standoffs (2), & washers as necessary to provide proper engagement of threads into nutplates. Standoffs will be used to prevent tail rotor cables from rubbing against installed oil line. Install clamps and standoffs at the following locations:
 - (a) one clamp (3) at left side of fuel tank access plate, fourth bolt from aft end.
 - (b) one clamp (3) at right side of fuel tank access plate, fourth bolt from the engine.
 - (c) one clamp (3) at right tail rotor cable pulley bracket outboard side.
 - (d) one clamp (3) at electrical junction box inboard aft attach bracket.
- 11. Install oil filter (3) torque per instructions on oil filter, and secure with .032 MS20995-C safety wire.
- 11. Run engine and check for leaks.
- 12. Determine weight and balance, initiate a 337 form, and update the equipment list.

Part Number: AFC-K012-A&B-II

WEIGHT AND BALANCE REPORT HILLER HELICOPTER ALL MODELS

SURPLUS EQUIPMENT	PLUS EQUIPMENT WEIGHT ARM-INCHES		MOMENT - IN/LBS.		
EQUIPMENT - ITEM	LBS.	LONG	LATR	LONG	LATR
REMOTE OIL FILTER	6.0	101.0		606.0	

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3 MATERIAL SIZE DWG. NO. REV NEXT ASSY USED ON FINISH COMMENTS: AFC-D-0048 A APPLICATION APPLICATION SCALE: WEIGHT: SHEET 1 OF 1								OFM-1	7 OIL FILTER N	AOUNT F	PLATE HI	LLER
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	5	4	3				2	<u> </u>		1		

Part Number: AFC-K012-A&B-II

Page 11 of 13

Date: 4-2-2021

AIRWOLF FILTER CORP PROPRIETARY

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REVISIONS					
REV.	DESCRIPTION	BY	DATE		
A	REDRAWN IN SOLIDWORKS	GM	12-8-2020		

SCALE:

2

WEIGHT:

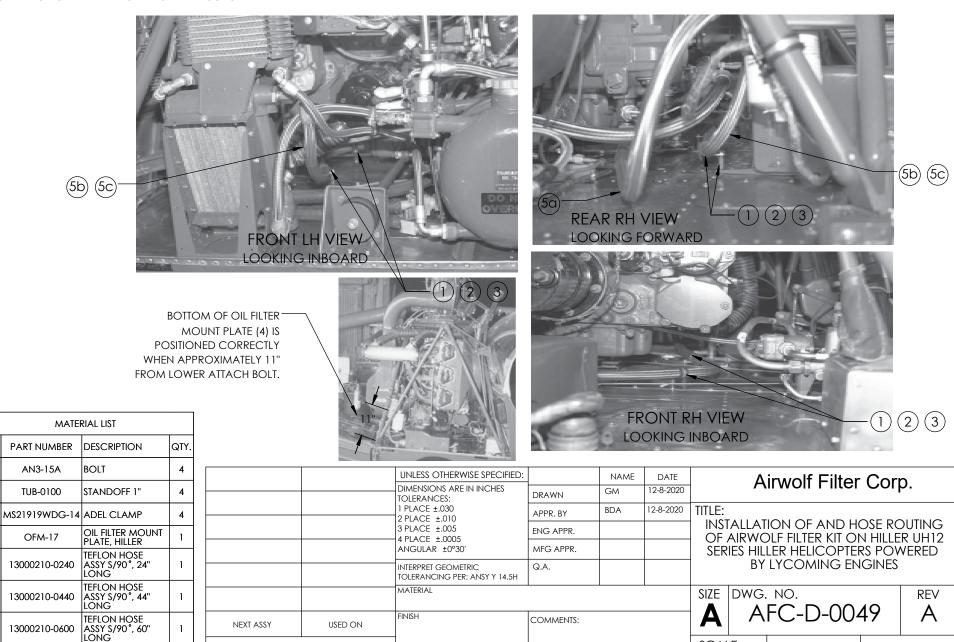
Part Number:

AFC-K012-A&B-II

Date:

4-2-202

SHEET 1 OF 1



3

ITEM

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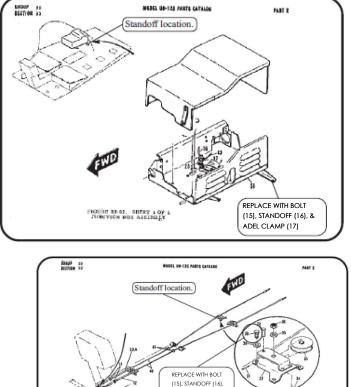
5

APPLICATION

4

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REVISIONS					
REV.	DESCRIPTION	BY	DATE		
А	REDRAWN IN SOLIDWORKS	GM	12-8-2020		



& ADEL CLAMP (17)

NEXT ASSY

790000 22-99. ENGET 1 OF 1 GEWARD RUDDER CABLE INSTALLATION-3 PLACE

MATERIAL

3

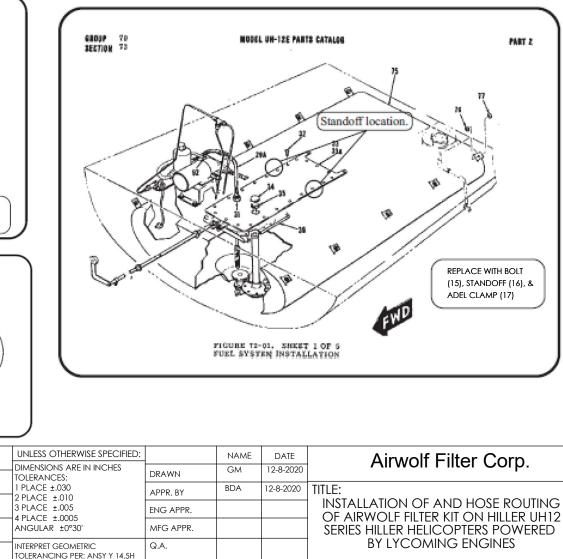
COMMENTS:

FINISH

USED ON

APPLICATION

4



SIZE

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2

SCALE:

DWG. NO.

AFC-D-0050

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WEIGHT:

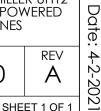
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ITEM

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17



REV

А

Part Number:

AFC-K012-A&B-II

5

BOLT

DESCRIPTION

STANDOFF 1"

4

4

4

MATERIAL LIST

MS21919WDG-14 ADEL CLAMP

PART NUMBER

AN3-15A

TUB-0100

Approved Model List - STC SR00420NY For Installation of Airwolf Filter Corp. Remote Mount Engine Oil Filter

 TC 6H1
 TC 6H2
 TC 4H10
 TC 4H11
 TC H1WE

 UH-12B
 UH-12D
 UH-12E
 UH-12L

 UH-12A
 UH-12C
 UH-12D
 UH-12-E-L
 UH-12L4

Note: Corresponding Military Models listed in the respective FAA TC Data Sheet, are also eligible for this installation.

FAA Approved Athor

der

Anthony Socias Manager, Airframe and Propulsion Branch

Date Issued: April 12, 1996