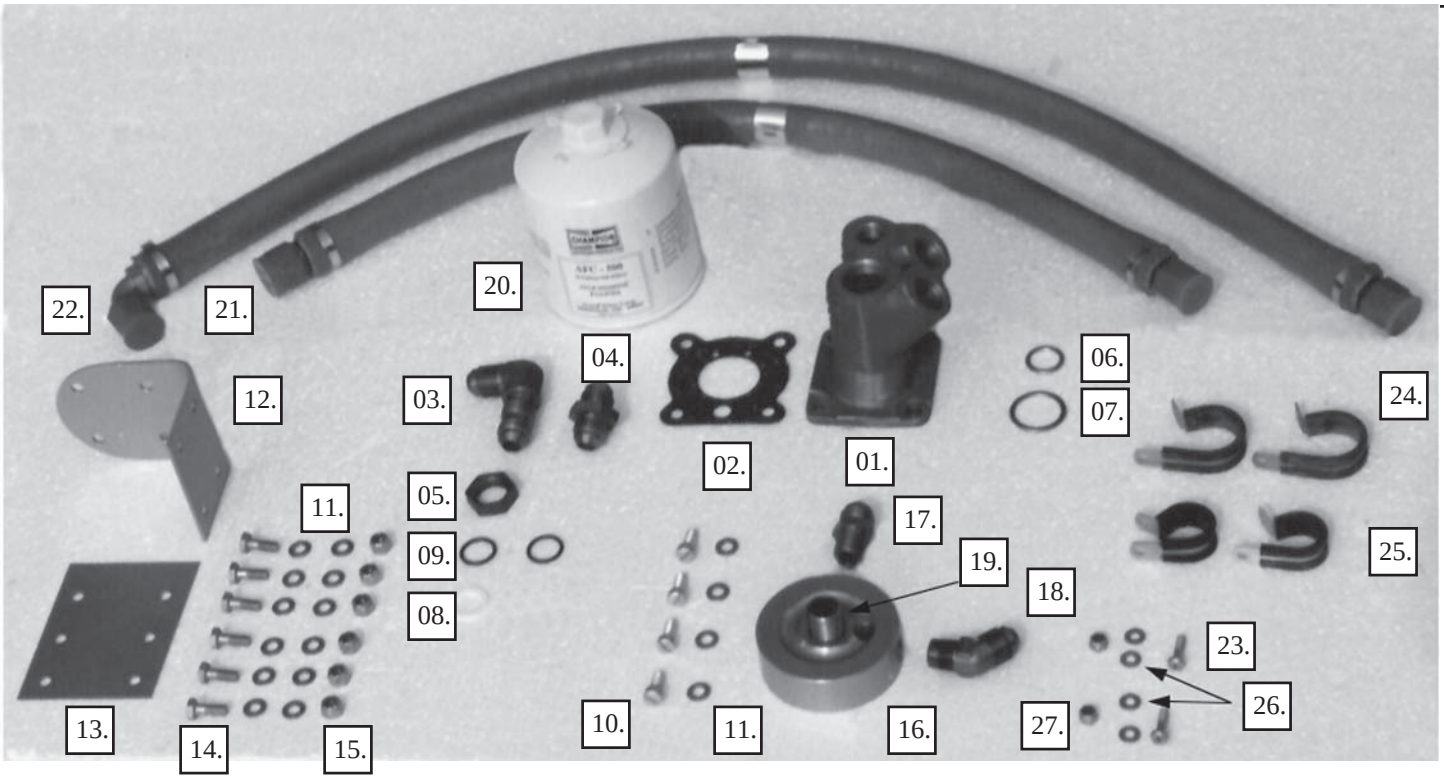


Oil Filter Kit AFC-K005

Applicability: **Aviat Husky Model A-1 with Lycoming Engines O360-C1G & O360-A1P**

First Release: 03/30/93

Amended: 01/08/2000

Parts List No. AFC-K005-PL

Index	Part Number	Description	Quantity
01.	LYC-10	Adapter - Engine, Full Flow	(1)
02.	61173	Adapter Base Gasket	(1)
03.	AN833-8D	Bulkhead Fitting, 90°	(1)
04.	AN815-8D	Union, Flared Tube	(1)
05.	AN6289-8D	Bulkhead Nut	(1)
06.	MS35769-11	Gasket, Oil Temperature Sensor	(1)
07.	MS35769-21	Gasket, Thermostatic Valve	(1)
08.	MS28773-08	Boss Gasket	(1)
09.	MS9387-08	Viton “O” Ring	(2)
10.	AN4H-4A	Bolt, Drilled Head	(4)
11.	AN960-416	Flat Washers	(16)
12.	OFM-11	Oil Filter Mount Plate - 90°	(1)
13.	DBL-10	Doubler Plate	(1)
14.	AN4-5A	Bolt	(6)
15.	MS20365-428A	Locknut	(6)
16.	OFB-10	Oil Filter Base	(1)
17.	AN816-8D	Fitting	(1)
18.	MS20823-8D	Fitting, 45°	(1)
19.	OFS-10	Oil Filter Stud	(1)
20a.	AFC-500	Oil Filter, or Equivalent [Champion CH48108]	(1)
20b.	AFC-600	Oil Filter, or Equivalent [Champion CH48109]	(1)
21.	F13000008-0236	Firesleeved Hose Assy, TSO’D, 23-3/4" Length	(1)
22.	F13000208-0344	Firesleeved Hose Assy, TSO’D, 34-1/2" Length	(1)
23.	MS20365-1032A	Locknut	(2)
24.	MS21919WDG-14	Adel Clamp	(2)
25.	MS21919DG-12	Adel Clamp	(2)
26.	AN3-4A	Bolt	(2)
27.	AN960-10	Flat Washer	(4)
28.	56707	Loctitie 567® Teflon Thread Sealant	(1)
29.	AFC-K005-II	Installation Instructions	(1)
30.	AFC-K005-MI	Instructions for Continued Airworthiness	(1)
31.	AFC-K005-PL	Parts List	(1)

Installation Instructions No. AFC-K005-II

Applicability: **Aviat Husky Model A-1 with Lycoming Engines O360-C1G & O360-A1P**

First Release: 03/30/93

Amended: 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.*

01. Open and remove top cowl.

02. Remove upper oil cooler hose from engine fitting to access oil screen housing from left side of aircraft.

03. Loosen and remove nut holding oil temp bulb onto oil screen. Be sure to hold the adapter screwed into the oil screen housing to prevent it from turning while loosening nut.

04. Remove bulb from oil screen. Do not bend capillary tube sharply or excessively. Grommet in firewall may be removed and bulb pushed through into cabin for easier oil screen housing access.

05. Remove four bolts securing Lycoming P/N 69510 oil screen housing and remove oil screen housing from accessory case.

06. Per assembly drawing AFC-D-0014, remove P/N 75944 Lycoming thermostatic valve from oil screen housing. Install a new gasket (07) under the head of the P/N 75944 Lycoming thermostatic valve, reinstall in the new adapter - engine (01), torque to 300 in/lbs. and secure with .032 MS20995-C safety wire.

07. Remove oil temp adapter from oil screen housing. Do not install into new adapter - engine (01) at this time.

08. Per assembly drawing AFC-D-0014, install “O” Ring (09) onto union, flared tube (04),. Install completed assembly into **“A” side** of the adapter - engine (01). Onto 90° bulkhead fitting (03), install **(in order)** 1 ea. bulkhead nut (05), boss gasket (08), and “O” Ring (09). **BE CAREFUL:** O-ring and boss gasket must seal in the smooth area between the threaded areas of the bulkhead fitting. Install completed assembly into **“B” side** of the adapter - engine (01). Elbow must be located so it will clear the installed position of the upper oil cooler hose. Locate elbow and torque.

09. Install gasket (02) on base of adapter - engine (01) and reinstall onto the engine accessory case. Torque to specifications 96 in/lbs.

10. Per installation drawing AFC-D-0017, attach 90° end of hose assy (22) to union, flared tube (04) in port “A” of the adapter - engine (01). Hose must be angled to clear lower oil cooler hose and routed between right magneto P-Lead and firewall. (P-Lead may need loosened and turned slightly. and retightened). Hose must extend below two engine mount tubes on RH. side at firewall. Tighten hose fitting to 270-350 in/ lbs.

11. Per installation drawing AFC-D-0016, attach hose assy. (21) to 90° bulkhead fitting (03) at port “B” of adapter - engine (01). Hose must extend between two engine mount tubes on LH. side at firewall. Tighten hose fitting to 270-350 in/ lbs.

12. Reattach upper oil cooler hose and torque to 270-350 in/ lbs.

13. Install oil temp adapter into adapter - engine (01) using new gasket (06) and tighten.

14. Install oil temp bulb and nut into oil temp adapter and tighten. Reinstall grommet if removed.

15. Safety wire P/N 75944 Lycoming thermostatic valve to oil temp adapter with .032 MS20995-C safety wire.

16. Per installation drawing AFC-D-0018, place doubler plate (13) on firewall (long side up) 1/4" inboard from voltage regulator and 1/4" down from top edge of firewall and use to locate six mounting holes in firewall.

17. Using the doubler plate (13) as a drilling template, locate and drill mounting holes using a letter “F” drill.

18. Secure oil filter mount plate (12) to Fwd side of firewall and doubler plate to rear side (again long side up) using bolts (14), nuts (15), and washers (11).

Applicability: **Aviat Husky Model A-1 with Lycoming Engines O360-C1G & O360-A1P**

First Release: 03/30/93

Amended: 01/08/2000

19. Per installation drawing, install fitting (17) into the **"A"** side of the oil filter base (16). Install fitting (18) into the **"B"** side of the oil filter base (16) facing outboard and slightly downward.
and tighten. Mount to 90° oil filter mount plate (12) per assembly drawings using bolts (10), washers (11), and secure with .032 MS20995-C safety wire.

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

20. Install hose assy (22) connecting the **"A" port** on the adapter - engine to the **"A" port** on the filter base. routing over mounting tubes and oil cooler scat hose and torque to 270-350 in/ lbs..

21. Install hose assy (21) from the **"B" port** on the adapter - engine to the **"B" port** on the filter base per installation drawing routing Fwd of breather tube and up between breather tube and vacuum hose (under vacuum hose, over breather) and torque to 270-350 in/ lbs.

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

22. Install oil filter (20), torque per instructions on oil filter and secure with .032 MS20995-C safety wire.

23. Secure hose assy's (21) & (22) to engine mount tubes using adel clamps (24) & (25), screws (26), washers (27), and locknuts (23).

24. Run engine and check for leaks.

25. Reinstall and close upper cowl.

26. Determine weight and balance, initiate a 337 form, and update the equipment list.

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

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 (B) *******

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.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Form AFC-K005-ICA Revised 10/01/00

A/C Make : Aviat **Model:** Husky **S/N:** _____ **Reg#:** _____

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:

SYSTEM: Airwolf Remote Mount Oil Filter System.

Airwolf Filter Corp
12801 Hwy 75 N
Okmulgee, OK 74447

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: Aviat Husky with Lycoming O360 Series engine.** *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-K005**
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 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.**
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_____)." Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location, date of the Form 337.**

NOTE:

Implementation and Record Keeping: For major alterations performed in accordance with FAA Field Approval policy, the owner operator operating under part 91 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 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 responsible for ensuring that the ICA is made part of the applicable inspection/maintenance program for their aircraft. If a procedure is not currently included in the operator's manual to incorporate ICA, this process will need to be appropriately addressed (i.e. the operator submits a revision to its maintenance program to the applicable certificate-holding district office (CHDO).

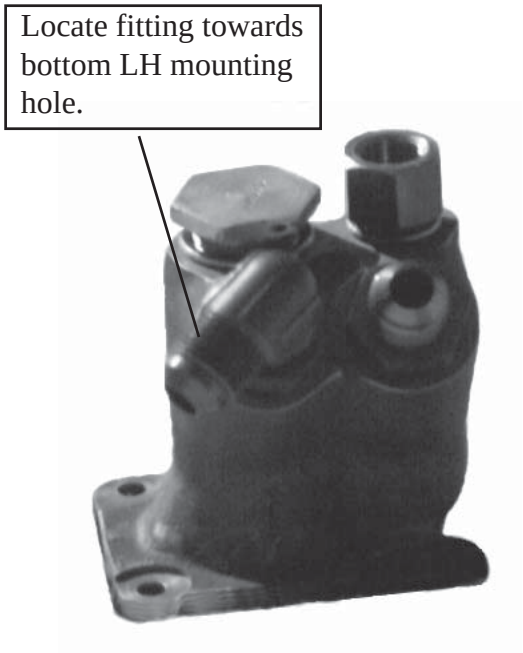
For aircraft inspected under an Approved Aircraft Inspection Program (AAIP), the operator will submit a change to the CHDO in accordance with section 135.419b).

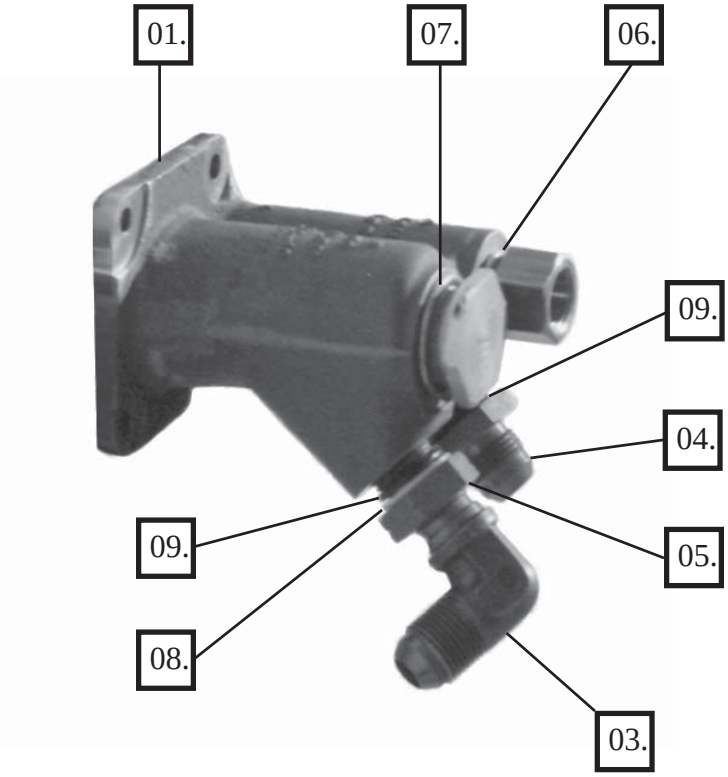
For air carrier aircraft inspected using an annual/100 hour inspection program, a reference to the new ICA will be made in the aircraft's maintenance record in accordance with section 43.9. This entry records the major alteration and identifies the original ICA location (e.g., ICA are located/attached to Block 8 of 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
AVIAT HUSKY A-1

SURPLUS EQUIPMENT	WEIGHT	ARM-INCHES		MOMENT - IN/LBS.	
EQUIPMENT - ITEM	LBS.	LONG		LONG	
REMOTE OIL FILTER	4.75	36.0		171.0	

ASSEMBLY DRAWING# AFC-D-0014



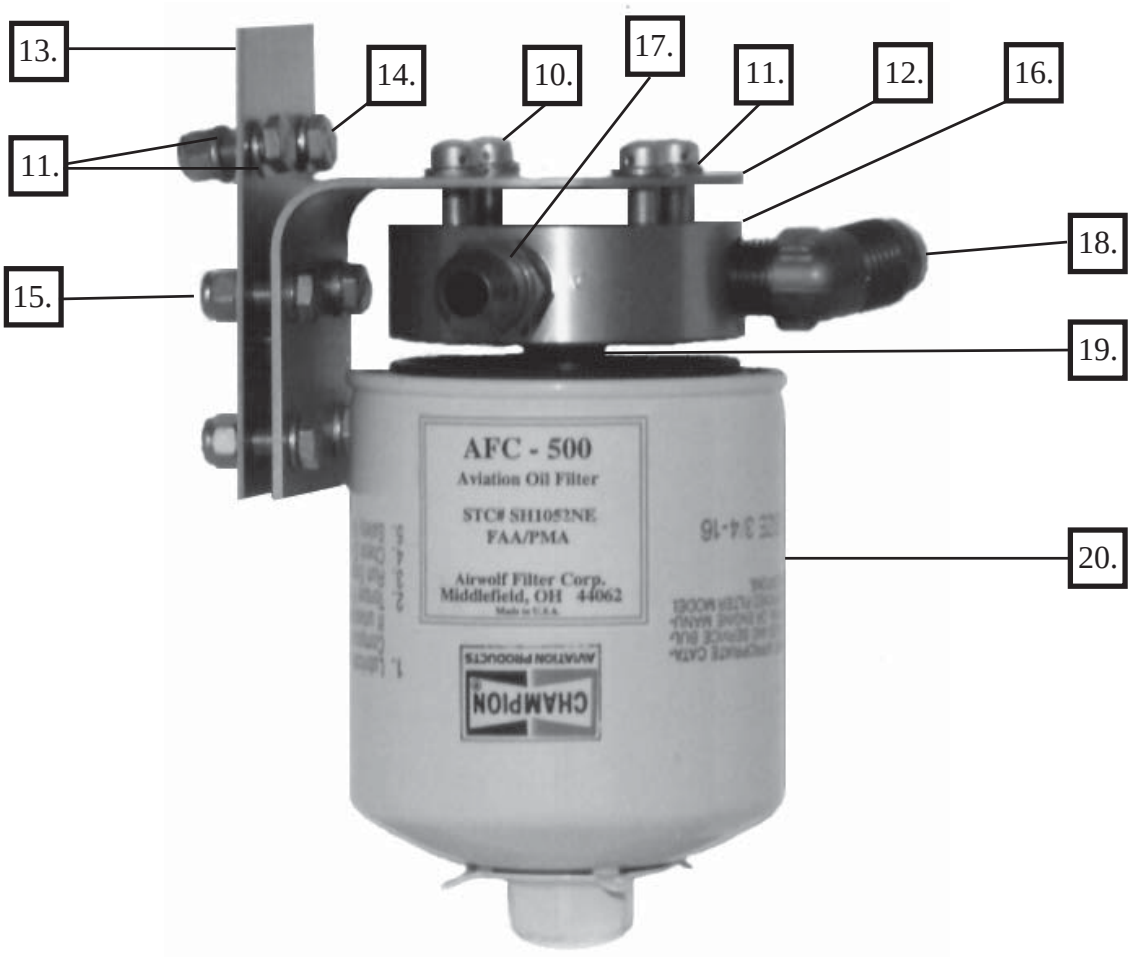


MATERIAL LIST

Index	Part Number	Description	Qty
01.	LYC-10	Adapter - Engine, Full Flow	(1)
02.	61173	Adapter Base Gasket	(1)
03.	AN833-8D	Bulkhead Fitting, 90°	(1)
04.	AN815-8D	Union, Flaired Tube	(1)
05.	AN6289-8D	Bulkead Nut	(1)
06.	MS35769-11	Gasket, Oil Temp. Sensor	(1)
07.	MS35769-21	Gasket, Thermostatic Valve	(1)
08.	MS28773-08	Boss Gasket	(1)
09.	MS9387-08	"O" Ring	(2)

Revisions	Airwolf Filter Corp.		
	Assembly Drawing. LYC-10 Adapter - Engine, Full Flow		
	03/30/93	Dwg# AFC-D-0014	John P. Kochy

ASSEMBLY DRAWING# AFC-D-0015

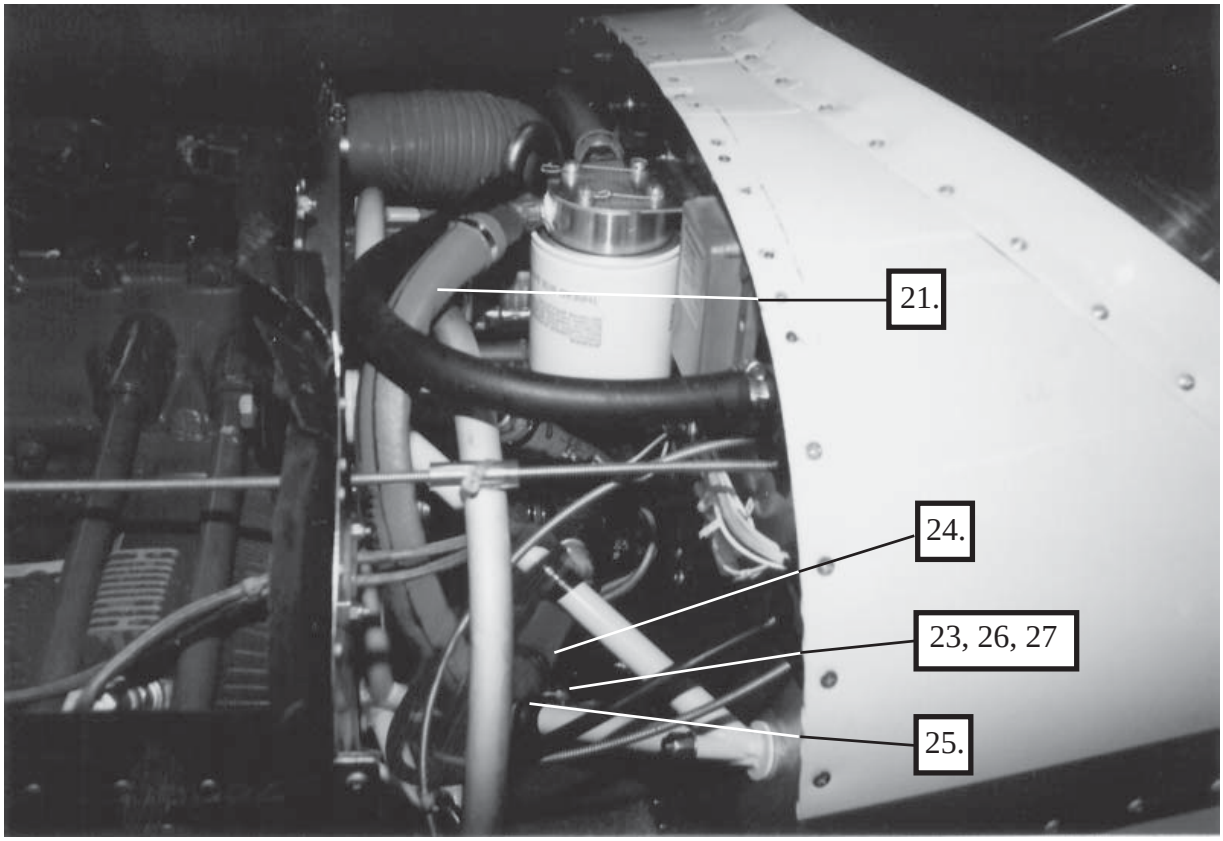


MATERIAL LIST

Index	Part Number	Description	Qty
10.	AN4H-4A	Bolt, Drilled Head	(4)
11.	AN960-416	Flat Washers	(16)
12.	OFM-11	Oil Filter Mount Plate - 90°	(1)
13.	DBL-10	Doubler Plate	(1)
14.	AN4-5A	Bolt	(6)
15.	MS20365-428A	Locknut	(6)
16.	OFB-10	Oil Filter Base	(1)
17.	AN816-8D	Fitting	(1)
18.	MS20823-8D	Fitting, 45°	(1)
19.	OFS-10	Oil Filter Stud	(1)
20.	AFC-500	Oil Filter	(1)

Revisions	Airwolf Filter Corp.		
	Assembly Drawing. OFB-10 Oil Filter Base Husky A-1		
	03/30/93	Dwg# AFC-D-0015	John P. Kochy

INSTALLATION DRAWING# AFC-D-0016

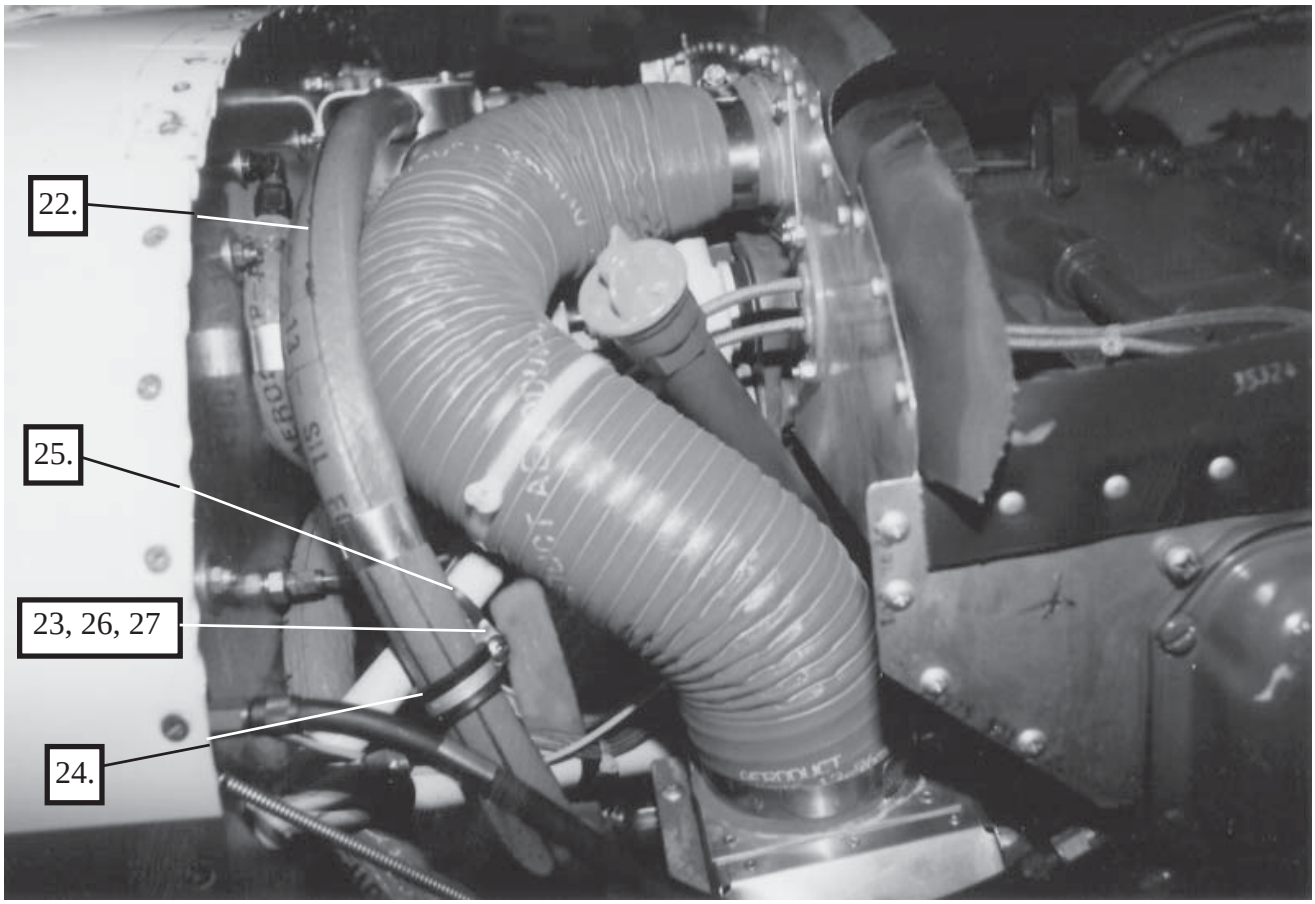


MATERIAL LIST

Index	Part Number	Description	Qty
21.	F1300008-0236	Hose Assy w/Firesleeving TSO'D	(1)
23.	MS20365-1032	Locknut	(1)
24.	MS21919WDG-16	Adel Clamp	(1)
25.	MS21919WDG-12	Adel Clamp	(1)
26.	AN3-4A	Bolt	(1)
27.	AN960-10	Flat Washer	(1)

Revisions	Airwolf Filter Corp.		
	Installation Drawing. Hose Assy's. Husky A-1 LH Side		
	03/30/93	Dwg# AFC-D-0016	John P. Kochy

INSTALLATION DRAWING# AFC-D-0017

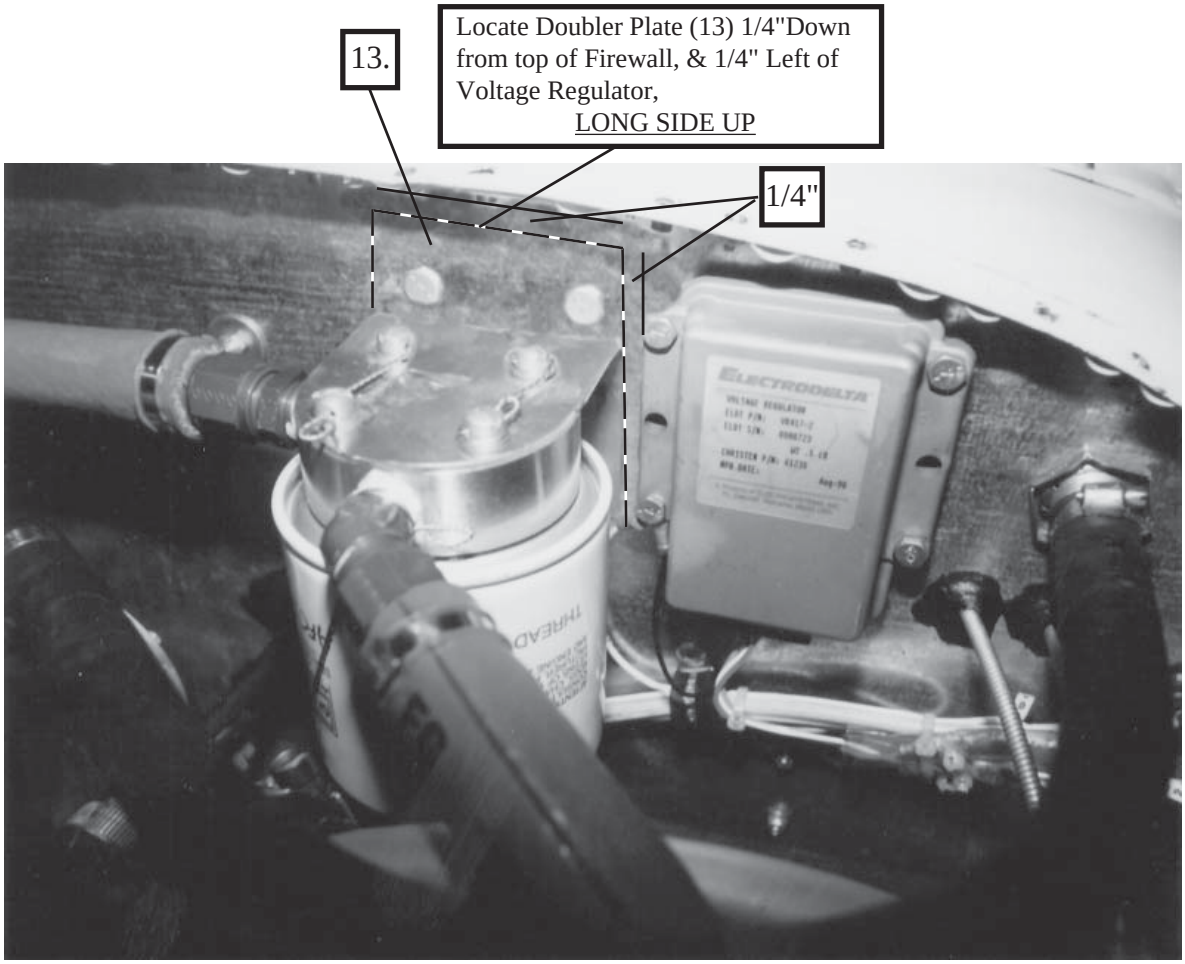


MATERIAL LIST

Index	Part Number	Description	Qty
22.	F13000208-0344	Hose Assy w/Firesleeving TSO'D	(1)
23.	MS20365-1032	Locknut	(1)
24.	MS21919WDG-16	Adel Clamp	(1)
25.	MS21919WDG-12	Adel Clamp	(1)
26.	AN3-4A	Bolt	(1)
27.	AN960-10	Flat Washer	(1)

Revisions	Airwolf Filter Corp.		
	Installation Drawing. Hose Assembly. Husky A-1 RH Side		
	03/30/93	Dwg# AFC-D-0017	John P. Kochy

INSTALLATION DRAWING# AFC-D-0018



MATERIAL LIST

Index	Part Number	Description	Qty
12.	OFM-11	Oil Filter Mount Plate	(1)
13.	DBL-10	Doubler Plate	(1)
16.	OFB-10	Oil Filter Base	(1)
20.	AFC-500	Oil Filter	(1)

Revisions	Airwolf Filter Corp.		
	Installation Drawing. OFM-11 Oil Filter Mount Plate, DBL-10 Doubler Plate, & OFB-10 Oil Filter Base		
	03/30/93	Dwg# AFC-D-0018	John P. Kochy

Reference Data
for
AFC-K005-II
for
STC SA00013NY
Oil Filter Kit
AFC-K005

Dated: 4/2/2021

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

List of Effective Pages

Page Number	Revision	Revision Date
Cover	IR	4/2/2021
1	IR	4/2/2021
2	IR	4/2/2021
3	IR	4/2/2021
4	IR	4/2/2021
5	IR	4/2/2021
6	IR	4/2/2021
7	IR	4/2/2021
8	IR	4/2/2021
9	IR	4/2/2021
10	A	12/28/200
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13	A	12/28/200
14	A	12/28/200

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Table of Contents

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

TO THE MECHANIC:

This P/N AFC-K005 remote mount oil filter kit incorporates our STC approved for AVIAT A-1, Powered by Lycoming engine models O-360-C1G, & O-360-A1P.

Upon installing this filter kit, you will need to fill out and file a 337 form for this installation referencing the P/N AFC- K005 kit and the STC# SA00013NY.

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. **Do not** over tighten the fittings on Adapters or housings. This can distort or crack housings, causing oil to leak.
4. It is ***EXTREMELY*** 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. ***BE PATIENT!!!*** 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 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:

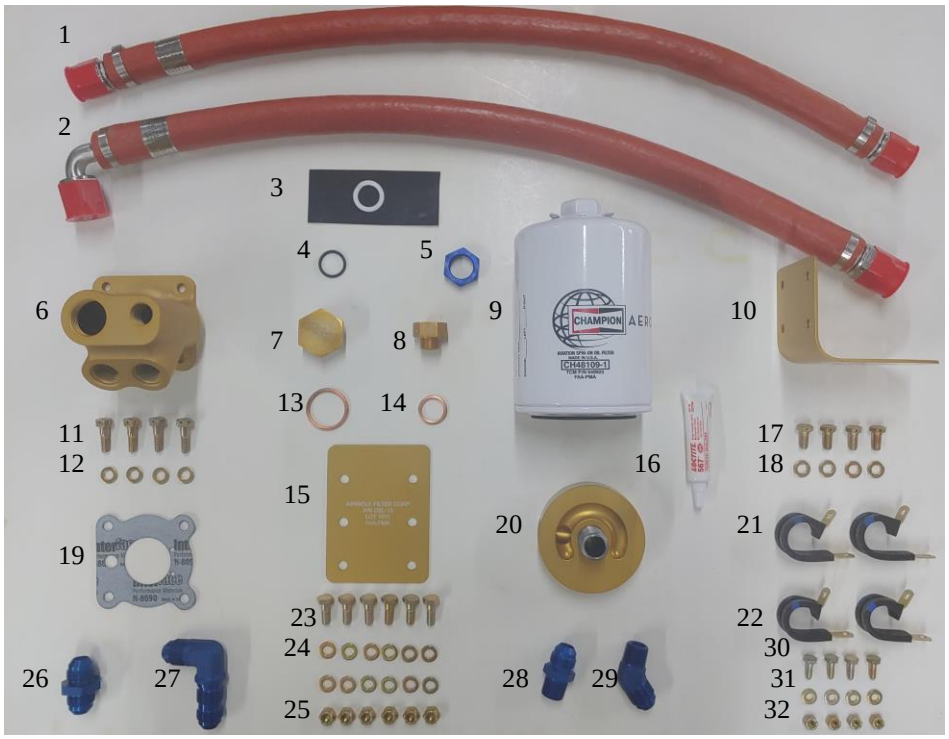
1. **THE OIL COOLER WILL SEPARATE IN HALF.**
2. **THE OIL FILTER GASKET WILL FAIL AND/OR THE OIL FILTER WILL EXPLODE.**
3. **THE OIL HOSE WILL FAIL**

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

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

Illustrated Parts List AFC-K005-PL

Applicability: **Aviat Husky Model A-1 with Lycoming Engines O-360-C1G & O-360-A1P.**



Parts List No. AFC-K004-PL

Index	Part Number	Description	Quantity
1	TBD-0236	Fire sleeved Hose Assy, TSO'D, 23-3/4" Length	2
2	TBD-0344	Fire sleeved Hose Assy, TSO'D, 34-1/2" Length	1
3	MS28773-08	Boss Gasket	1
4	M83248/1-908	Viton "O" Ring	1
5	AN6289-8D	Bulkhead Nut	1
6	LYC-10	Adapter - Engine, Full Flow	1
7	CAP-1350	Bypass Valve Cap (opitional)	1
8	OTA-527	Oil Temp Bulb Adapter	1
9	AFC-500 or AFC-600	Oil Filter, or Equivalent [Champion CH48108/CH48109}]	1
10	OFM-11	Oil Filter Mount Plate - 90°	1
11	AN74A-6	Bolt	4
12	AN960-416	Flat Washer	4
13	MS35769-11	Gasket, Oil Temperture Sensor	1
14	MS35769-21	Gasket, Thermostatic Valve	1
15	DBL-10	Doubler Plate	1
16	567	Locktite Thread Sealant	1
17	AN4H-4A	Bolt	4
18	AN960-416	Flat Washer	4
19	61173 or GT-61173	Adapter Base Gasket	2
20	OFB-10	Oil Filter Base (with OFS-10 Installed)	1
21	MS21919DG-12	Adel Clamp	2
22	MS21919DG-14	Adel Clamp	2
23	AN4-5A	Bolt,	6
24	AN960-416	Flat Washer	12
25	MS20365-428A	Locknut	6
26	AN815-8D	Union – Flared Tube	1
27	AN833-8D	Bulkhead Fitting - 90°	1
28	AN816-8D	Fitting, NPT to Flare - Straight	1
29	MS20823-8D	Fitting, NPT to Flare - 45°	1
30	AN3-4A	Bolt	4
31	AN960-10	Flat Washer	4
32	MS20365-1032A	Locknut	4

Installation Instructions No. AFC-K005-II

Applicability: **Aviat Husky Model A-1 with Lycoming Engines O-360-C1G & O-360-A1P.**

1. Open and remove top cowl.

2. Remove upper oil cooler hose from engine fitting to access oil screen housing from left side of aircraft.

3. Loosen and remove nut holding oil temp bulb onto oil screen. Be sure to hold the adapter screwed into the oil screen housing to prevent it from turning while loosening nut.

4. Remove bulb from oil screen. Do not bend capillary tube sharply or excessively. Grommet in firewall may be removed and bulb pushed through into cabin for easier oil screen housing access.

5. Remove four bolts securing Lycoming P/N 69510 oil screen housing and remove oil screen housing from accessory case.

6. Per assembly drawing AFC-D-0014, remove P/N 75944 Lycoming thermostatic valve from oil screen housing. Install a new gasket (7) under the head of the P/N 75944 Lycoming thermostatic valve, reinstall in the new adapter - engine (1), torque to 300 in/lbs. and secure with .032 MS20995-C safety wire.

7. Remove oil temp adapter from oil screen housing. Do not install into new adapter - engine (1) currently.

8. Per assembly drawing AFC-D-0014, install “O” Ring (9) onto union, flared tube (4), Install completed assembly into **“A”** port of the engine adapter (1). Onto 90° bulkhead fitting (3), install **(in order)** 1 ea. bulkhead nut (5), boss gasket (8), and “O” Ring (9). **BE CAREFUL:** O-ring and boss gasket must seal in the smooth area between the threaded areas of the bulkhead fitting. Install completed assembly into **“B”** port of the engine adapter (1). Elbow must be located so it will clear the installed position of the upper oil cooler hose. Locate elbow and torque.

9. Per assembly drawing AFC-D-0014, install gasket (2) on base of engine adapter (1) and reinstall onto the engine accessory case. Torque to specifications 96 in/lbs.

10. Per installation drawing AFC-D-0017, attach 90° end of hose assy (1) to union, flared tube in port “A” of the engine adapter. Hose must be angled to clear lower oil cooler hose and routed between right magneto P-Lead and firewall. (P-Lead may need loosened and turned slightly. and retightened). Hose must extend below two engine mount tubes on RH. side at firewall. Tighten hose fitting to 270-350 in/ lbs.

11. Per installation drawing AFC-D-0016, attach hose assy. (1) to 90° bulkhead fitting at port “B” of engine adapter. Hose must extend between two engine mount tubes on LH. side at firewall. Tighten hose fitting to 270-350 in/ lbs.

12. Reattach upper oil cooler hose and torque to 270-350 in/ lbs.

13. Per Assembly drawing AFC-D-0014, Install oil temp adapter (11) into engine adapter (1) using new gasket (6) and tighten.

14. Install oil temp bulb and nut into oil temp adapter and tighten. Reinstall grommet if removed.

15. Safety wire P/N 75944 Lycoming thermostatic valve to oil temp adapter with .032 MS20995-C safety wire.

16. Per Installation drawing AFC-D-0018, place doubler plate (2) on firewall (long side up) 1/4" inboard from voltage regulator and 1/4" down from top edge of firewall and use to locate six mounting holes in firewall.

17. Using the doubler plate (2) as a drilling template, locate and drill mounting holes using a letter “F” drill.

18. Per Assembly drawing AFC-D-0015, Secure oil filter mount plate (3) to Fwd. side of firewall and doubler plate to rear side (again long side up) using bolts (5), nuts (6), and washers (2).

(Continued)
Installation Instructions No. AFC-K005-II
Applicability: Aviat Husky Model A-1 with Lycoming Engines O-360-C1G & O-360-A1P.

19. Per Assembly Drawing AFC-D-0015, install fitting (8) into the **"A"** port of the oil filter base (7). Install fitting (9) into the **"B"** port the oil filter base (7) facing outboard and slightly downward.
and tighten. Mount to 90° oil filter mount plate (3) per assembly drawings using bolts (1), washers (2), and secure with .032 MS20995-C safety wire.

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

20. Per Illustrated Parts list K005-PL, install hose assy (2) connecting the **"A"** port on the engine adapter to the **"A"** port on the filter base. routing over mounting tubes and oil cooler scat hose and torque to 270-350 in/ lbs.

21. Per Illustrated Parts list K005-PL, install hose assy (1) from the **"B"** port on the engine adapter to the **"B"** port on the filter base per installation drawing routing Fwd. of breather tube and up between breather tube and vacuum hose (under vacuum hose, over breather) and torque to 270-350 in/ lbs.

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

22. Install oil filter (9), torque per instructions on oil filter and secure with .032 MS20995-C safety wire.

23. Per Illustrated Parts list K005-PL, secure hose assy's (1) & (2) to engine mount tubes using Adel clamps (21) & (22), screws (30), washers (31), and locknuts (32).

24. Run engine and check for leaks.

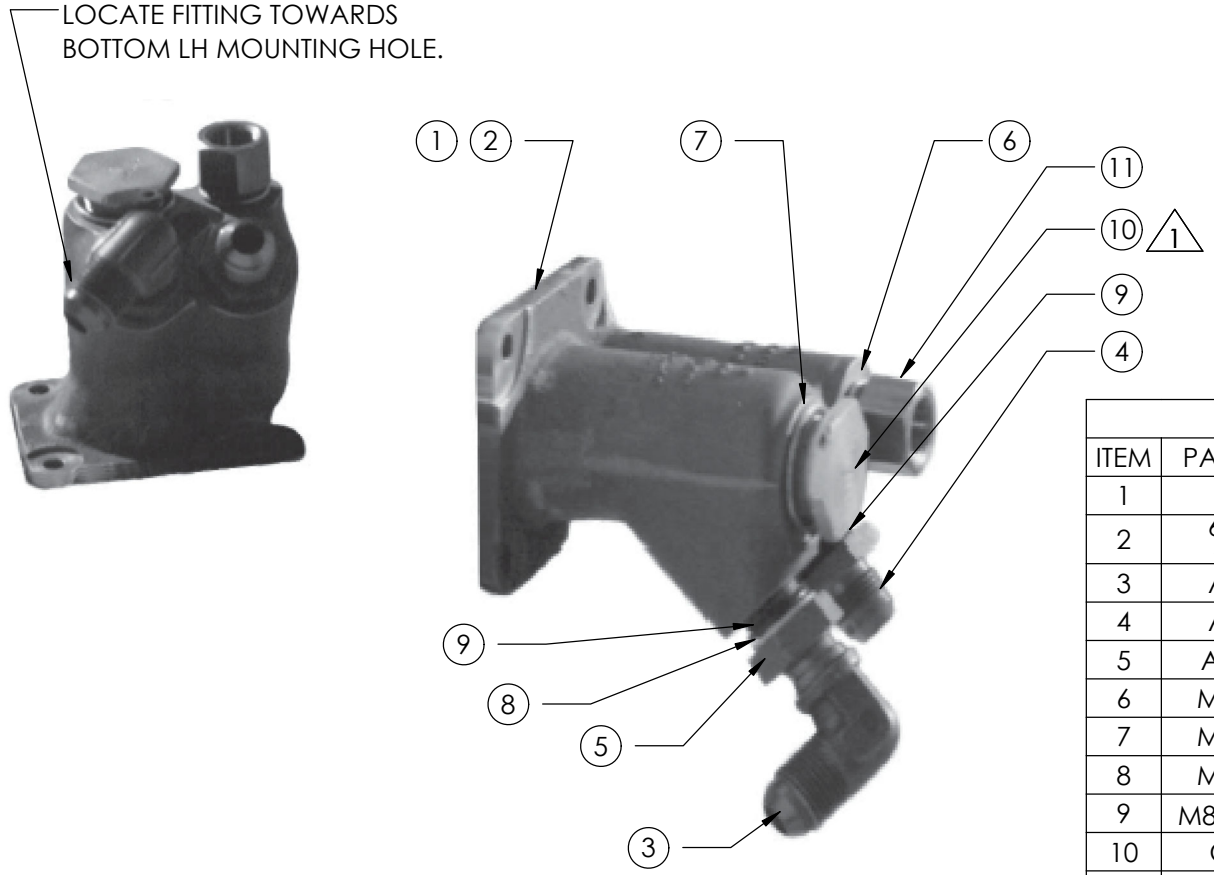
25. Reinstall and close upper cowl.

26. Determine weight and balance, initiate a 337 form, and update the equipment list.

WEIGHT AND BALANCE REPORT
AVIAT HUSKY A-1

SURPLUS EQUIPMENT	WEIGHT	ARM-INCHES		MOMENT - IN/LBS.	
EQUIPMENT - ITEM	LBS.	LONG		LONG	
REMOTE OIL FILTER	4.75	36.0		171.0	

REVISIONS			
REV.	DESCRIPTION	BY	DATE
A	REDRAWN IN SOLIDWORKS	GM	12/28/2020



MATERIAL LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	LYC-10	ADAPTER-ENGINE, FULL FLOW	1
2	61173 OR GT-61173	ADAPTER GASKET (NOT SHOWN)	1
3	AN833-8D	BULKHEAD FITTING, 45°	1
4	AN815-8D	UNION, FLAIRED TUBE	1
5	AN6289-8D	BULKHEAD NUT	1
6	MS35769-11	GASKET, OIL TEMPERATURE SENSOR	1
7	MS35769-21	GASKET, THERMOSTATUIC VALVE	1
8	MS28773-08	BOSS GASKET	1
9	M83248/1-908	"O" RING	2
10	CAP-1350	CAP, BYPASS VALVE	1
11	OTA-527	OIL TEMP ADAPTER	1

NOTES:

1. CAP-1350 SHOWN INSTALLED IN LOCATION OF P/N 75944 LYCOMING THERMOSTATIC VALVE.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: 1 PLACE ±.030 2 PLACE ±.010 3 PLACE ±.005 4 PLACE ±.0005 ANGULAR ±0°30'	DRAWN	GM	12/28/2020
			APPR. BY	BDA	12/28/2020
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H	Q.A.		
		MATERIAL			
NEXT ASSY	USED ON	FINISH	COMMENTS:		
APPLICATION					

Airwolf Filter Corp.

TITLE:
ASSEMBLY DRAWING, LYC-10 ADAPTER - ENGINE, FULL FLOW

SIZE	DWG. NO.	REV
A	AFC-D-0014	A

SCALE:	WEIGHT:	SHEET 1 OF 1

5 4 3 2 1

REVISIONS			
REV.	DESCRIPTION	BY	DATE
A	REDRAWN IN SOLIDWORKS	GM	12/28/2020

MATERIAL LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	AN4H-4A	BOLT, DRILLED HEAD	4
2	AN960-416	FLAT WASHER	16
3	OFM-11	OIL FILTER MOUNT PLATE - 90°	1
4	DBL-10	DOUBLER PLATE	1
5	AN4-5A	BOLT	6
6	MS20365-428A	LOCKNUT	6
7	OFB-10	OIL FILTER BASE	1
8	AN816-8D	FITTING	1
9	MS20823-8D	FITTING, 45°	1
10	OFS-10	OIL FILTER STUD	1
11	AFC-500	OIL FILTER	1

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: 1 PLACE ±.030 2 PLACE ±.010 3 PLACE ±.005 4 PLACE ±.0005 ANGULAR ±0°30'	DRAWN	GM	12/28/2020
			APPR. BY	BDA	12/28/2020
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H	Q.A.		
		MATERIAL			
NEXT ASSY	USED ON	FINISH	COMMENTS:		
APPLICATION					

Airwolf Filter Corp.

TITLE:
ASSEMBLY DRAWING,
OFB-10 OIL FILTER
BASE HUSKY A-1

SIZE	DWG. NO.	REV
A	AFC-D-0015	A

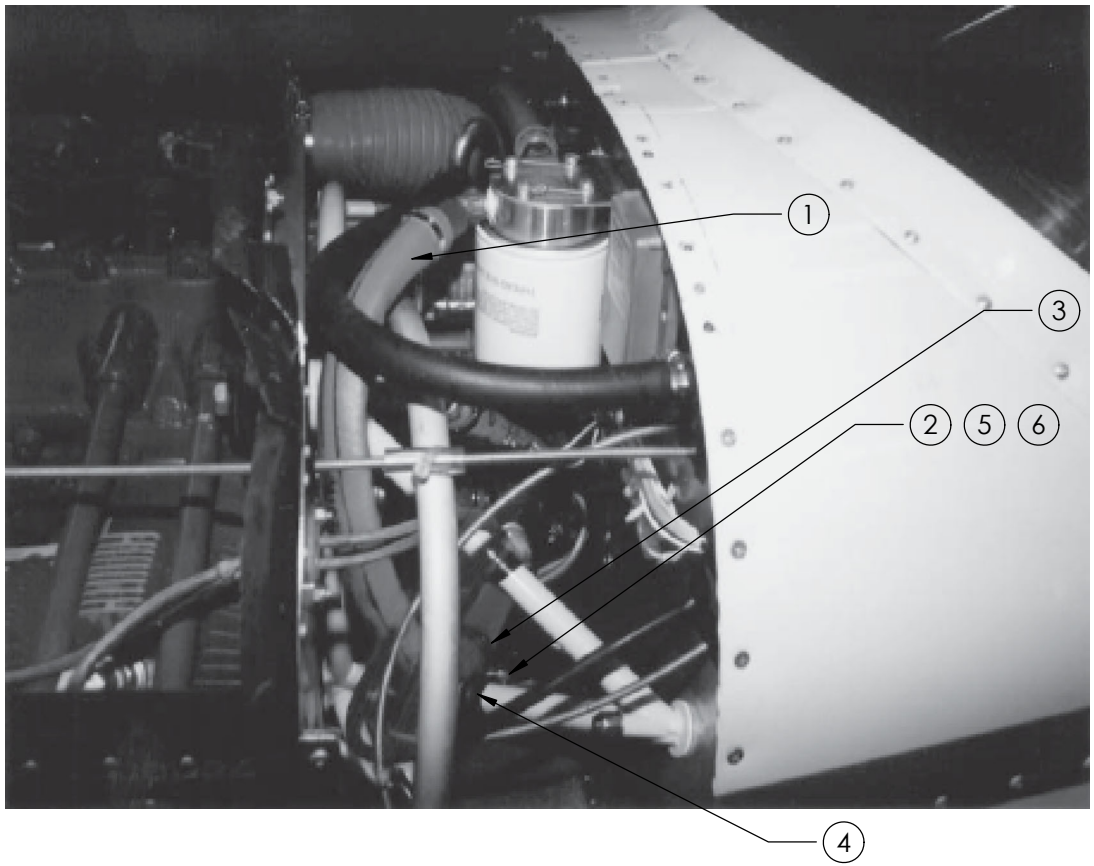
SCALE:	WEIGHT:	SHEET 1 OF 1

5 4 3 2 1

Part Number: AFC-K005 -II

Date: 4-2-2021

REVISIONS			
REV.	DESCRIPTION	BY	DATE
A	REDRAWN IN SOLIDWORKS	GM	12/28/2020



MATERIAL LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	F1300008-0236	HOSE ASSY W/FIRESLEEVING TSO'D	1
2	MS20365-1032	LOCKNUT	1
3	MS21919WDG-16	ADEL CLAMP	1
4	MS21919WDG-12	ADEL CLAMP	1
5	AN3-4A	BOLT	1
6	AN960-10	FLAT WASHER	1

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: 1 PLACE ±.030 2 PLACE ±.010 3 PLACE ±.005 4 PLACE ±.0005 ANGULAR ±0°30'	DRAWN	GM	12/28/2020
			APPR. BY	BDA	12/28/2020
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H	Q.A.		
		MATERIAL			
NEXT ASSY	USED ON	FINISH	COMMENTS:		
APPLICATION					

Airwolf Filter Corp.

TITLE:
INSTALLATION DRAWING,
HOSE ASSY'S,
HUSKY A-1 LH SIDE

SIZE	DWG. NO.	REV
A	AFC-D-0016	A

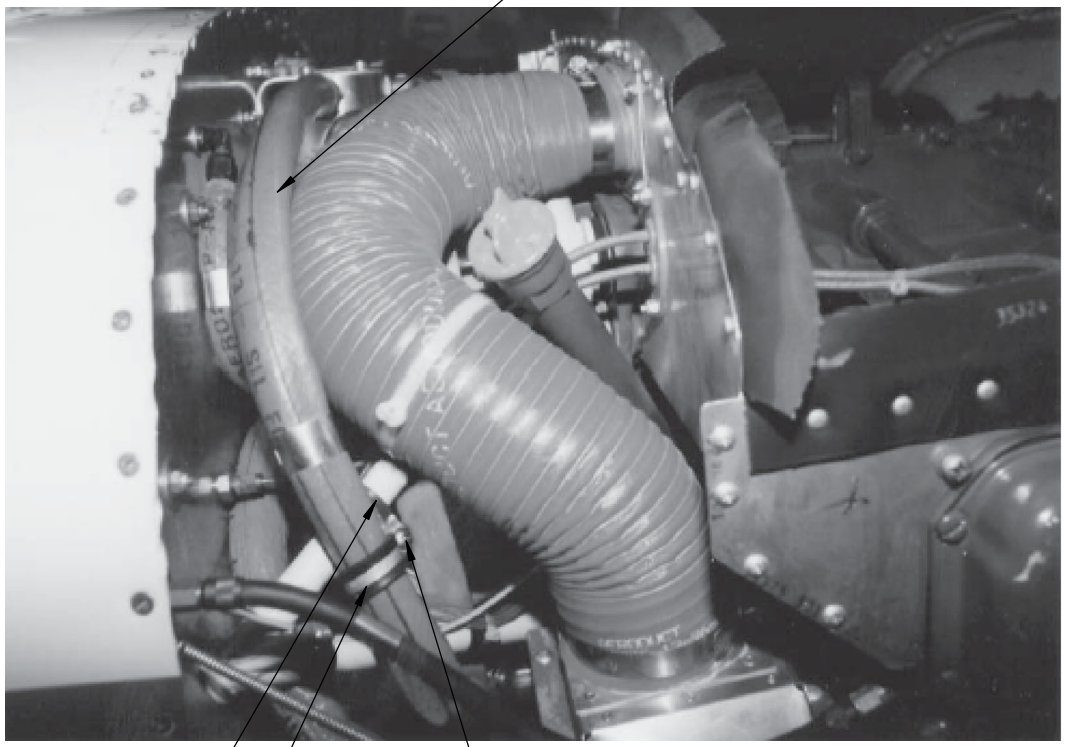
SCALE:	WEIGHT:	SHEET 1 OF 1

5 4 3 2 1

Part Number: AFC-K005 -II

Date: 4-2-2021

REVISIONS			
REV.	DESCRIPTION	BY	DATE
A	REDRAWN IN SOLIDWORKS	GM	12/28/2020



MATERIAL LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	F13000208-0344	HOSE ASSY W/FIRESLEEVING TSO'D	1
2	MS20365-1032	LOCKNUT	1
3	MS21919WDG-16	ADEL CLAMP	1
4	MS21919WDG-12	ADEL CLAMP	1
5	AN3-4A	BOLT	1
6	AN960-10	FLAT WASHER	1

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: 1 PLACE ±.030 2 PLACE ±.010 3 PLACE ±.005 4 PLACE ±.0005 ANGULAR ±0°30'	DRAWN	GM	12/28/2020
			APPR. BY	BDA	12/28/2020
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H	Q.A.		
		MATERIAL			
NEXT ASSY	USED ON	FINISH	COMMENTS:		
APPLICATION					

Airwolf Filter Corp.

TITLE:
INSTALLATION DRAWING,
HOSE ASSEMBLY,
HUSKY A-1, RH SIDE

SIZE	DWG. NO.	REV
A	AFC-D-0017	A

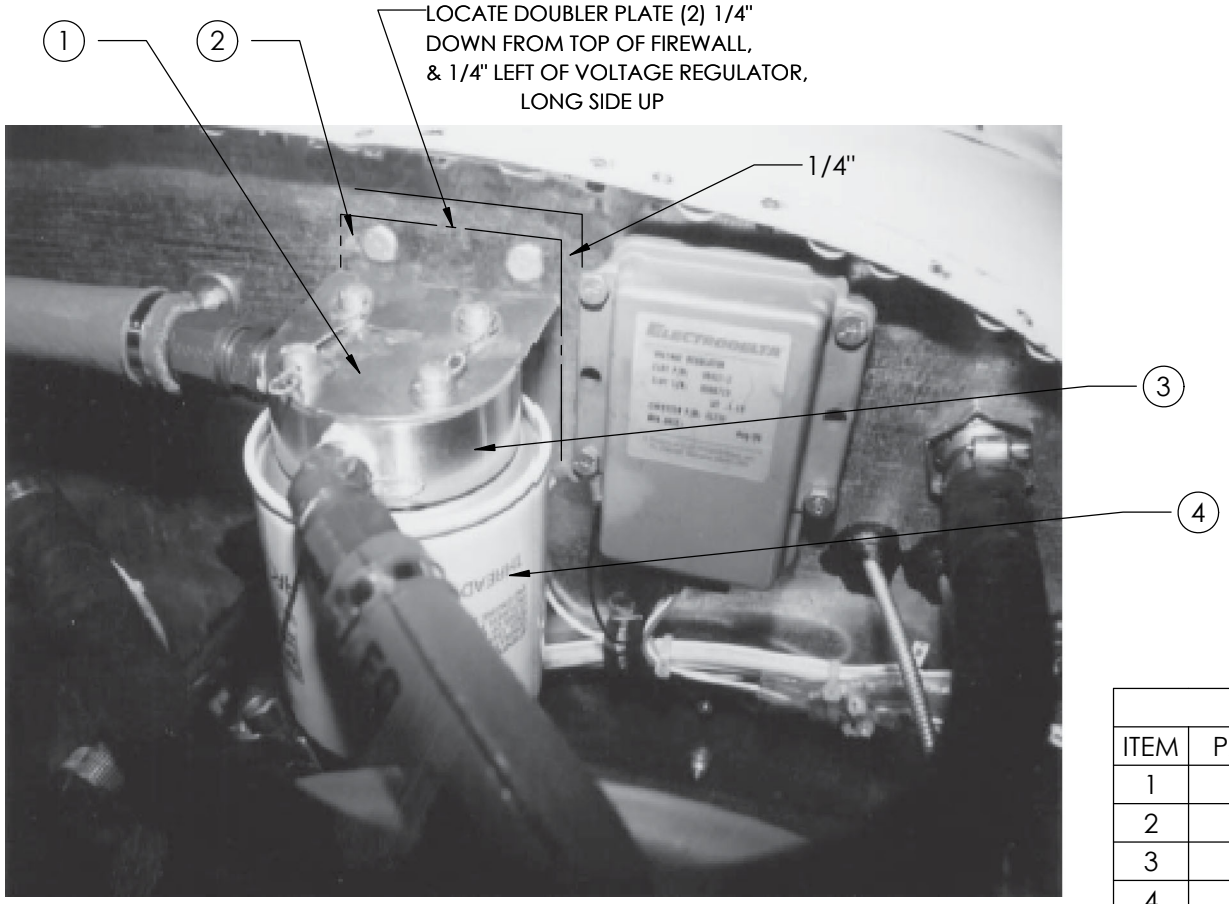
SCALE:	WEIGHT:	SHEET 1 OF 1

Part Number: AFC-K005 -II

Date: 4-2-2021

5 4 3 2 1

REVISIONS			
REV.	DESCRIPTION	BY	DATE
A	REDRAWN IN SOLIDWORKS	GM	12/28/2020



MATERIAL LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	OFM-11	OIL FILTER MOUNT PLATE	1
2	DBL-10	DOUBLER PLATE	1
3	OFB-10	OIL FILTER BASE	1
4	AFC-500	OIL FILTER	1

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: 1 PLACE ±.030 2 PLACE ±.010 3 PLACE ±.005 4 PLACE ±.0005 ANGULAR ±0°30'	DRAWN	GM	12/28/2020
			APPR. BY	BDA	12/28/2020
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H	Q.A.		
		MATERIAL			
NEXT ASSY	USED ON	FINISH	COMMENTS:		
APPLICATION					

Airwolf Filter Corp.

TITLE: INSTALLATION DRAWING, OFM-11 OIL FILTER MOUNT PLATE, DBL-10 DOUBLER PLATE, & OFB-10 OIL FILTER BASE

SIZE	DWG. NO.	REV
A	AFC-D-0018	A

SCALE:	WEIGHT:	SHEET 1 OF 1

5 4 3 2 1

Part Number: AFC-K005 -II

Date: 4-2-2021