

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

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
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	Loctite 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

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*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).

Installation Instructions No. AFC-K005-II

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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 : AviatModel: 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
15369 Madison Rd
Middlefield, OH 44062



ITEM	CHECKLIST INFORMATION
1.	<p>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, referenced publications, and distribution of the ICA as applicable.</p> <p>Comment: <u>Aviat Husky</u> with Lycoming <u>O360 Series</u> engine. <i>Aircraft Model</i> <i>Engine Model</i></p>
2.	<p>Description: Of the major alteration, it's function including an explanation of it's interface with other systems, if any.</p> <p>Comment: Installation of Airwolf Remote Mounted Oil Filter Kit P/N AFC-K005</p>
3.	<p>Control: Operation information: Or special procedures if any.</p> <p>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.</p>
4.	<p>Servicing information: Such as types of fluids used, servicing points, and location of access panels, as appropriate.</p> <p>Comment: Oil System to be serviced in accordance with Lycoming 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.</p>
5.	<p>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.</p> <p>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.</p>
6.	<p>Trouble shooting information: Information describing probably malfunctions, how to recognize those malfunctions, and the remedial actions to be taken.</p> <p>Comment: <u>N/A</u></p>
7.	<p>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.</p> <p>Comments: <u>N/A</u></p>
8.	<p>Diagrams: Of access plates and information, if needed, to gain access for inspection.</p> <p>Comment: <u>N/A</u></p>
9.	<p>Special inspection requirements: Such as X-ray, ultrasonic testing, or magnetic particle inspection, if required.</p> <p>Comment: <u>N/A</u></p>
10.	<p>Application of protective treatments: To the affected area after inspection and/or maintenance, if any.</p> <p>Comment: <u>N/A</u></p>

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

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

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: <ul style="list-style-type: none"> 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.

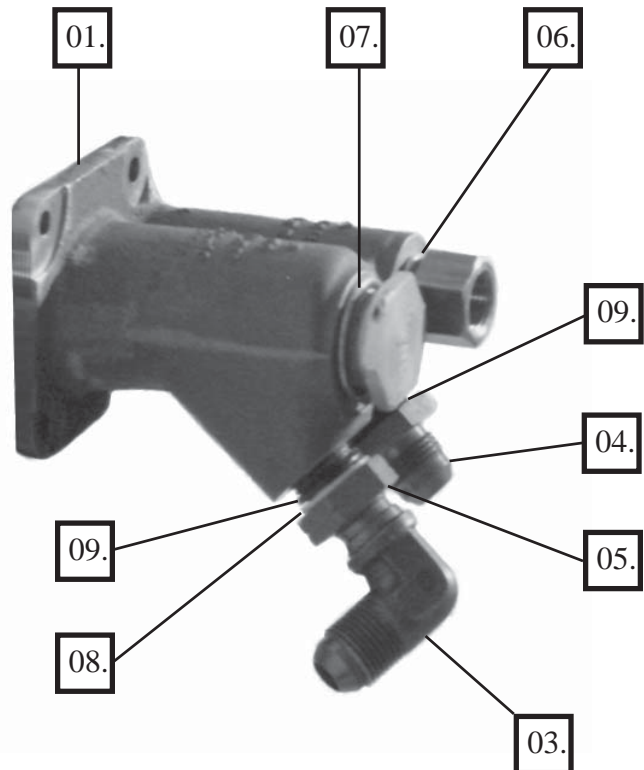
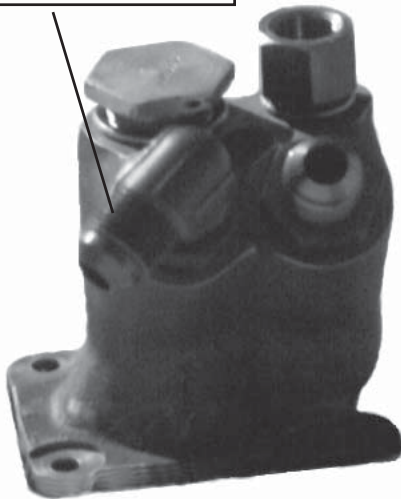
WEIGHT AND BALANCE REPORT

AVIAT HUSKY A-1

[illegible]

ASSEMBLY DRAWING# AFC-D-0014

Locate fitting towards
bottom LH mounting
hole.



MATERIAL LIST

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
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.

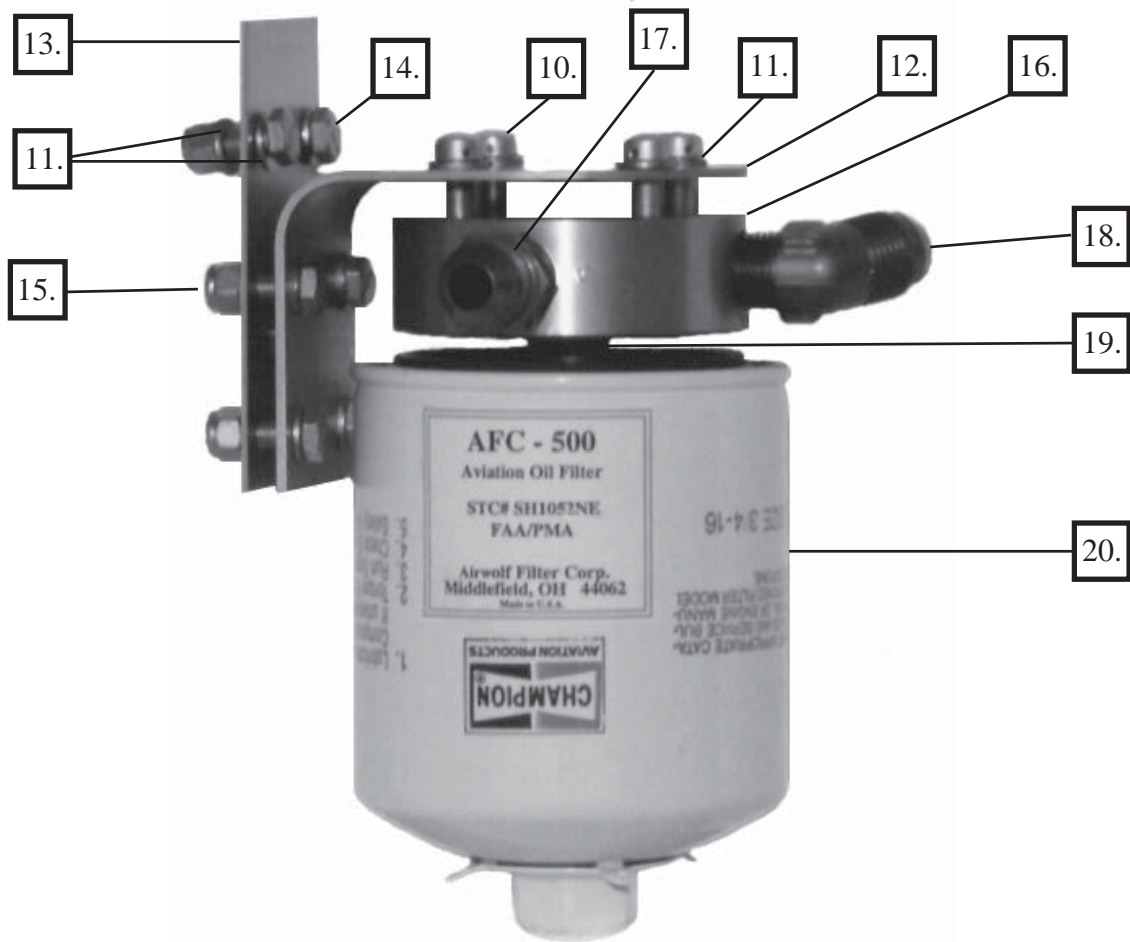
Assembly Drawing. LYC-10 Adapter - Engine,
Full Flow

03/30/93

Dwg# AFC-D-0014

John P. Kochy

ASSEMBLY DRAWING# AFC-D-0015

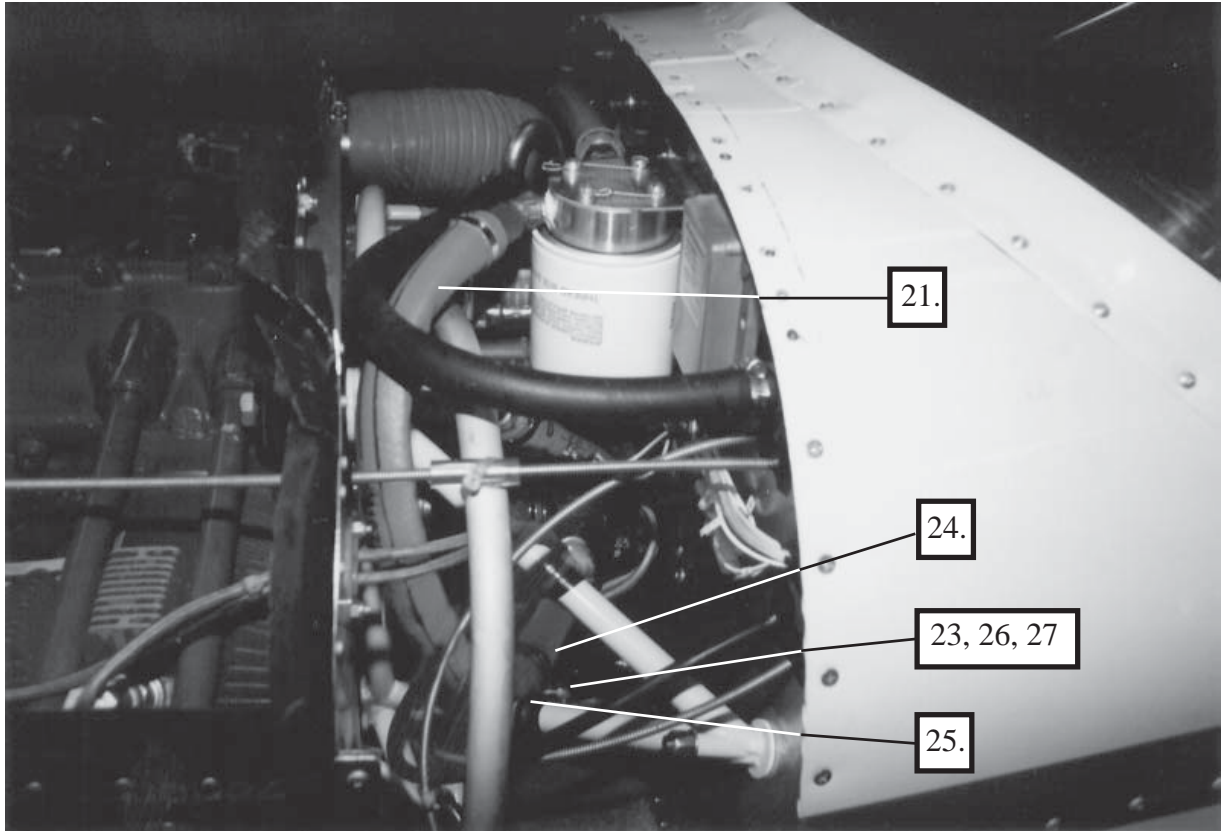


MATERIAL LIST

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
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	<h1>Airwolf Filter Corp.</h1>		
	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

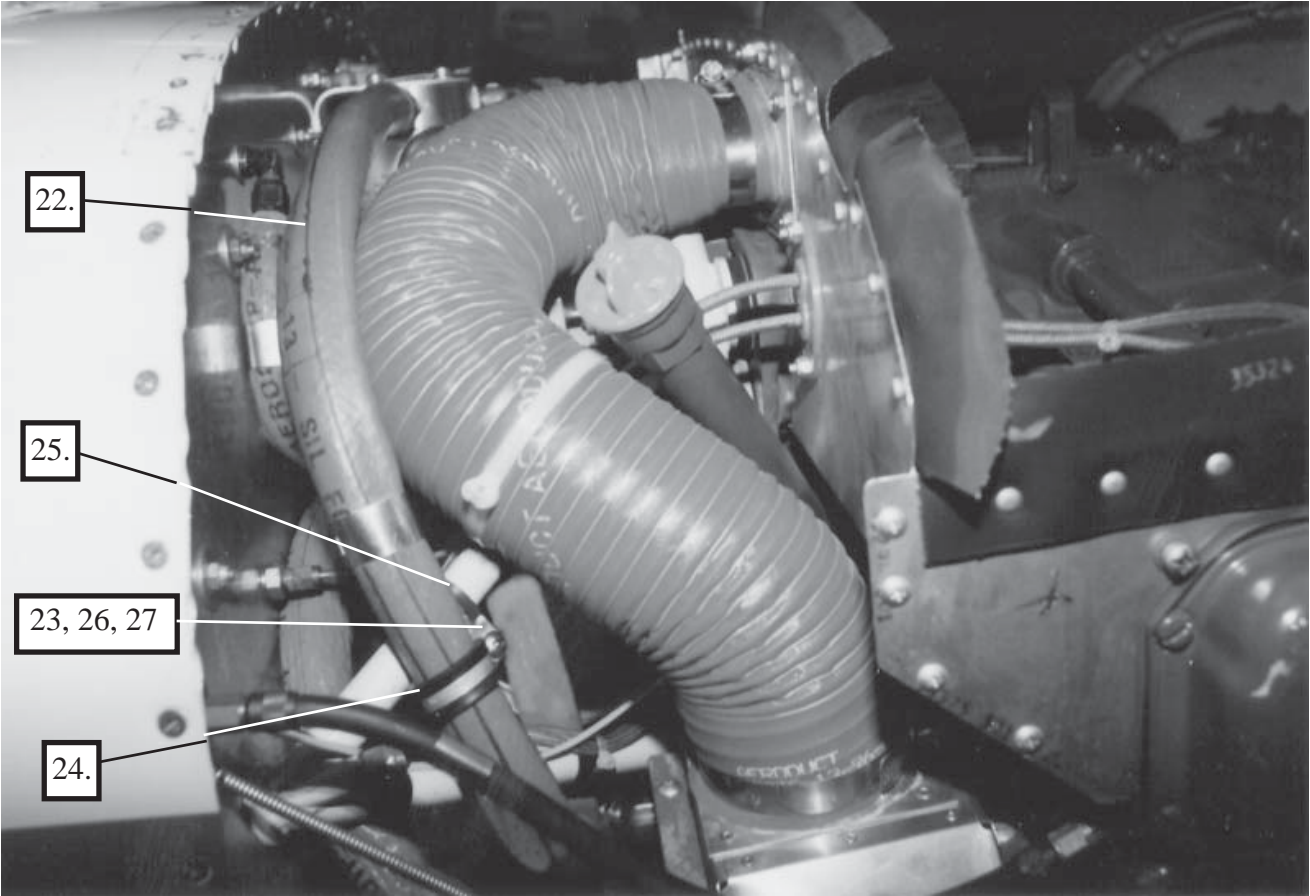


MATERIAL LIST

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
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	<h1 style="margin: 0;">Airwolf Filter Corp.</h1> <p style="margin: 0;">Installation Drawing. Hose Assy's. Husky A-1 LH Side</p>		
	03/30/93	Dwg# AFC-D-0016	John P. Kochy

INSTALLATION DRAWING# AFC-D-0017



MATERIAL LIST

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
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

