

Oil Filter Kit AFC-K004

Applicability:

Schweizer Model 269 A, B, C & 300C with Lycoming Engines
HO-360-B1A, HO-360-B1B, HIO-360-A1A, HIO-360-B1A,
HIO-360-B1B, HIO-360-D1A, & O-360-C2D

First Release 12/05/92

Amended 01/08/2000

		<u>Parts List No. AFC-K004-PL</u>	
<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.	AN837-8D	Bulkhead Fitting, 45°	(2)
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	(2)
08.	MS9387-08	"O" Ring	(2)
09.	AN4H-4A	Bolts, Drilled Head	(4)
10.	AN960-416	Flat Washer	(4)
11.	OFM-14	Oil Filter Mount, 269 A, B, C	(1)
12.	OFB-10	Oil Filter Base	(1)
13.	MS20822-8D	Fitting, 90°	(1)
14.	MS20823-8D	Fitting, 45°	(1)
15.	OFS-10	Oil Filter Stud	(1)
16a.	AFC-500 or	Oil Filter, or Equivalent [Champion CH48108]	(1)
16b.	AFC-600	Oil Filter, or Equivalent [Champion CH48109]	(1)
17.	38B0100008D0211	Hose Assy	(2)
18.	MS21919DG-10	Adel Clamp	(2)
19.	AN3-4A	Bolt	(7)
20.	AN960-10	Flat Washer	(14)
21.	MS20365-1032A	Locknut	(7)
22.	56707	Loctite 567® Teflon Thread Sealant	(1)
23.	AFC-K004-II	Installation Instructions	(1)
24.	AFC-K004-MI	Instructions for Continued Airworthiness	(1)
25.	AFC-K004-PL	Parts List	(1)

Installation Instructions No. AFC-K004-II

Applicability:

Schweizer Model 269 A, B, & C with Lycoming Engines
HO-360-B1A, HO-360-B1B, HIO-360-A1A, HIO-360-B1A,
HIO-360-B1B, HIO-360-D1A, & O-360-C2D

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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.

Note B: Up until 1987 the optional Paravion cabin heater was usually located on the RH side of the helicopter. After 1987 and in helicopters using the optional searchlight, the Paravion heater can be found on the LH side of the helicopter. The AFC-K004 filter kit is designed to be used in either application. Airwolf Filter Corp. considers the standard configuration for the AFC-K004 oil filter kit to be the LH side of this helicopter.

01. Remove the Lycoming P/N 69510 engine oil screen housing from the accessory case.
02. Remove oil temperature sensor and thermostatic valve from old oil screen housing.
03. Per assembly drawing AFC-D-0007, Install a new gasket (05) under the head of the oil temperature sensor, install in the adapter - engine, full flow (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, install in the adapter - engine, full flow (01), torque to 300 in/lbs and secure with .032 MS20995-C safety wire.
04. Refer to assembly diagram AFC-D-0007 and onto each bulkhead fitting (03), install **(in order)** 1 ea. bulkhead nut (04), boss gasket (07), and "O" Ring (08). Install each completed assembly into the oil filter adapter (01).
BE CAREFUL: O-ring and boss gasket must seal in the smooth area between the threaded areas of the bulkhead fitting. Do not tighten fittings until after routing of hoses has been determined in step 06c. or 07c.
05. Per installation drawing AFC-D-0008, install a new gasket (02) on base of the oil filter adapter (01) and install onto the engine accessory case. On aircraft using the optional Schweizer throttle governor, install flat washers (10) as necessary under the top and bottom throttle governor mounting plate to prevent mounting plate from contacting adapter - engine, full flow (01 and torque to specifications 96 in/lbs.
- 06a. **LH INSTALLATION (Optional Paravion heater located on RH side of aircraft)**
Using installation drawing AFC-D-0010 as a reference, (facing forward), locate the LH tail rotor bell crank assy. under the LH side of the helicopter. Using the oil filter mount (11) as a template, position 2" forward of the LH tail rotor bell crank assy and drill (6) holes using a #10 drill.
- 06b. Referencing assembly drawing AFC-D-0011, install fitting (13) into **port "A"** and fitting (14) into **port "B"** of the oil filter base (12) and position per installation drawing AFC-D-0010. Mount to oil filter mount (11) per assembly drawing AFC-D-0011 using bolts (09) and washers (10), and secure with .032 MS20995-C safety wire. Install oil filter mount (11) & oil filter base (12) assembly into previously drilled holes using six ea. screws (19), washers (20), and locknuts (21).

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

- 06c. Install 2 ea. hose assy's (17) connecting the **"A" port** on the filter adapter to the **"A" port** on the oil filter base and the **"B" port** on the filter adapter to the **"B" port** on the oil filter base per installation drawing AFC-D-0010. Tighten bulkhead nuts (04) at this time and then tighten hose fittings to 270-350 in/ lbs.

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

- 06d. Secure hoses per installation drawing AFC-D-0010 using clamps (18), screws (19), washers (20), and nuts (21) provided.

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

NO ROUTING OF FLAMMABLE FLUID LINES ABOVE EXHAUST SYSTEM, UNLESS SHROUDED. 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.

Installation Instructions No. AFC-K004-II

Applicability: Schweizer Model 269 A, B, & C with Lycoming Engines
HO-360-B1A, HO-360-B1B, HIO-360-A1A, HIO-360-B1A,
HIO-360-B1B, HIO-360-D1A, & O-360-C2D

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- 07a. **RH INSTALLATION (Optional Paravion heater located on LH side of aircraft)**
Using installation drawing AFC-D-0009 as a reference, (facing forward), locate the RH tail rotor bell crank assy. under the RH side of the helicopter. Using the oil filter mount (11) as a template, position 2" forward of the RH tail rotor bell crank assy and drill (6) holes using a #10 drill.
- 07b. Referencing assembly drawing AFC-D-0012, install fitting (14) into **port "A"** and fitting (13) into **port "B"** of the oil filter base (12) and position per installation drawing AFC-D-0009. Mount to oil filter mount (11) per assembly drawing AFC-D0012 using bolts (09) and washers (10), and secure with .032 MS20995-C safety wire. Install oil filter mount (11) & oil filter base (12) assembly into previously drilled holes using six ea. screws (19), washers (20), and locknuts (21). Assure adequate clearance between fitting (13) and tail rotor pulley guard bolt and install shorter bolt if necessary.
- ** SEE WARNING (B) BELOW ****
- 07c. Install 2 ea. hose assy's (17) connecting the **"A" port** on the filter adapter to the **"A" port** on the oil filter base and the **"B" port** on the filter adapter to the **"B" port** on the oil filter base per drawing AFC-D-0009. Tighten bulkhead nuts (04) at this time and then tighten hose fittings to 270-350 in/ lbs.
- ** SEE WARNING (A) BELOW ****
- 07d. Secure hoses per installation drawing AFC-D-0009 using clamps (18), screws (19), washers (20), and nuts (21) provided.
08. Install oil filter (16), torque per instructions on oil filter and secure with .032 MS20995-C safety wire.
09. Run engine and check for leaks.
10. 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 SHROUDED. 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-K004-ICA Revised 10/01/00

A/C Make : Schweizer

Model: 269 A, B, C & 300C 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>Schweizer Model 269 A, B, C & 300C</u> with Lycoming <u>O/HO/HIO-360 Series</u> <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-K004</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-K004-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:

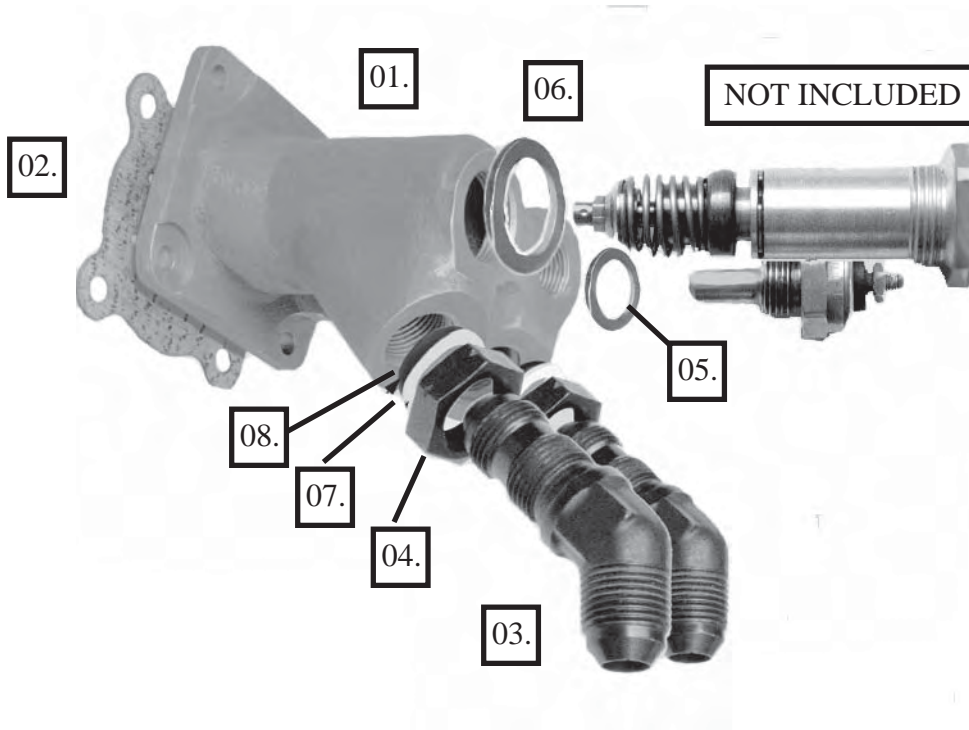
Implementation and Record Keeping: For major alterations performed in accordance with FAA Field Approval policy, the owner operator operating under part 91 is responsible for ensuring that the ICA is made part of the applicable section 92.409 inspection program for their aircraft. This is accomplished 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.

ASSEMBLY DRAWING# AFC-D-0007

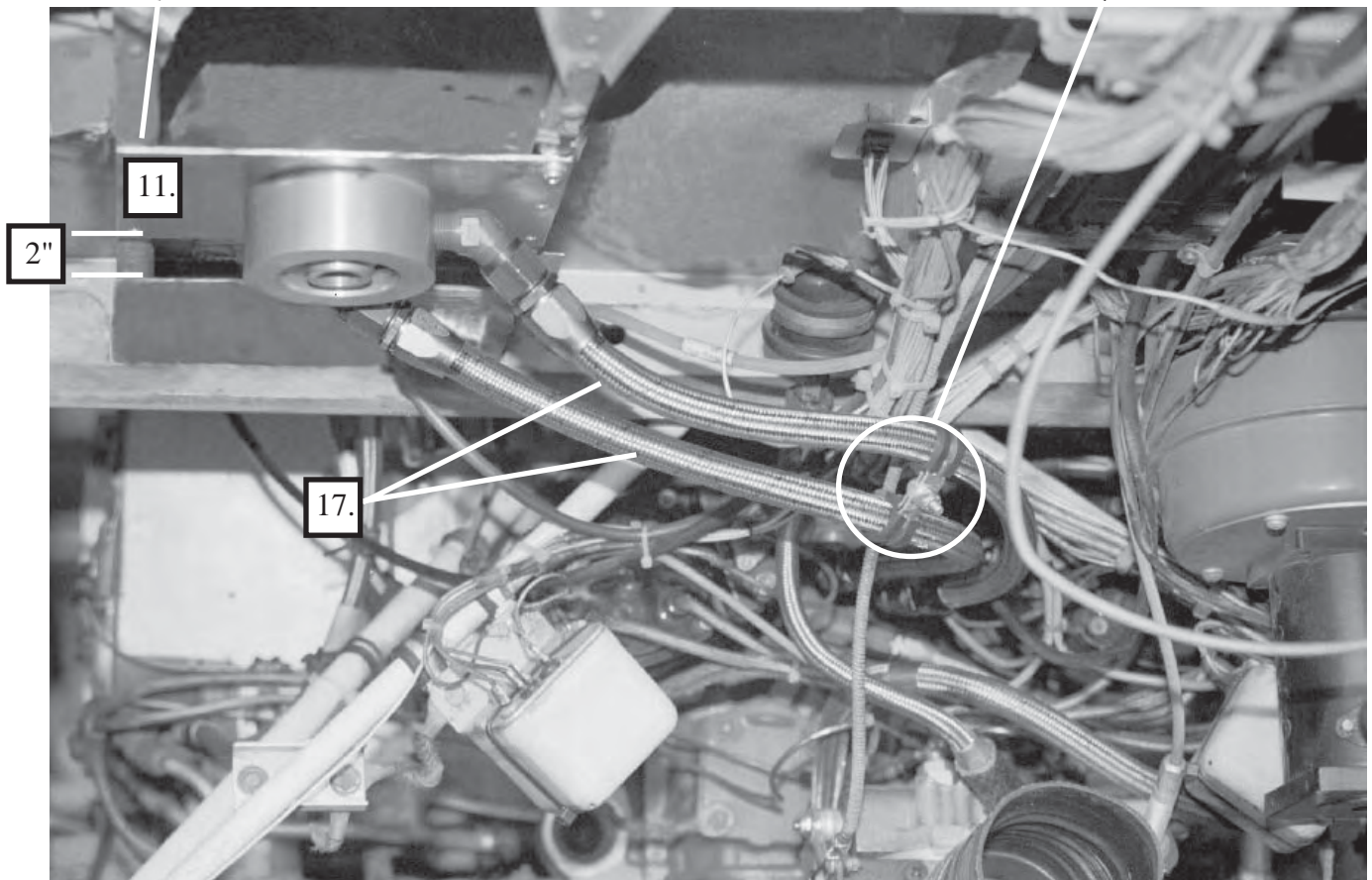
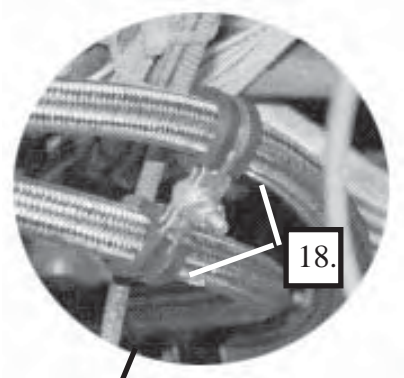
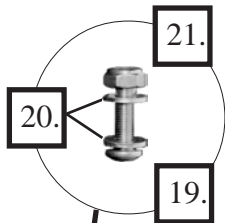


MATERIALS LIST:

Index	Part Number	Description	QTY
01	LYC-10	Adapter - engine, full flow	(1)
02	61173	Oil Filter Gasket	(1)
03	AN837-8D	Bulkhead Fitting, 45°	(2)
04	AN6289-8D	Bulkhead Nut	(2)
05	MS35769-11	Gasket, Oil Temperature Sens	(1)
06	MS35769-21	Gasket, Thermostatic Valve	(1)
07	MS28773-08	Boss Gasket	(2)
08	MS9387-08	"O" Ring	(2)

Revisions	<h2 style="margin: 0;">Airwolf Filter Corp.</h2> <p style="margin: 0;">Assembly Drawing. LYC-10 Adapter - Engine, Full Flow</p>		
	12/05/92	Dwg# AFC-D-0007	John P. Kochy

Index	Part Number	Description	QTY
11	OFM-14	Oil Filter Mount	1
17	38B0100008D0211	Hose Assy	2
18	MS21919DG-10	Clamp	2
19	AN3-4A	Bolt	6
20	AN960-10	Washer	12
21	MS20365-1032	Locknut	6



Revisions

Airwolf Filter Corp.

Installation Drawing. OFM-14 Filter Mount Plate
Schweizer 269A, B, & C (RH Installation)

12/05/92

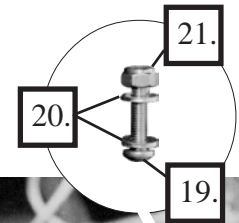
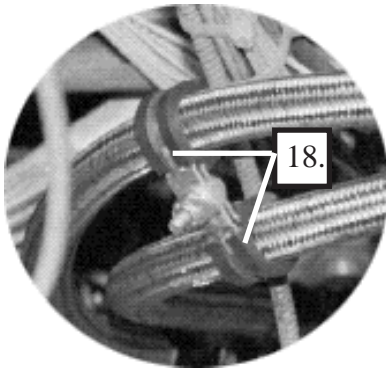
Dwg# AFC-D-0009

John P. Kochy

ASSEMBLY DRAWING# AFC-D-0010

MATERIALS LIST:

Index	Part Number	Description	QTY
11	OFM-14	Oil Filter Mount	1
17	38B0100008D0211	Hose Assy	2
18	MS21919DG-10	Clamp	2
19	AN3-4A	Bolt	6
20	AN960-10	Washer	12
21	MS20365-1032	Locknut	6



Revisions

Airwolf Filter Corp.

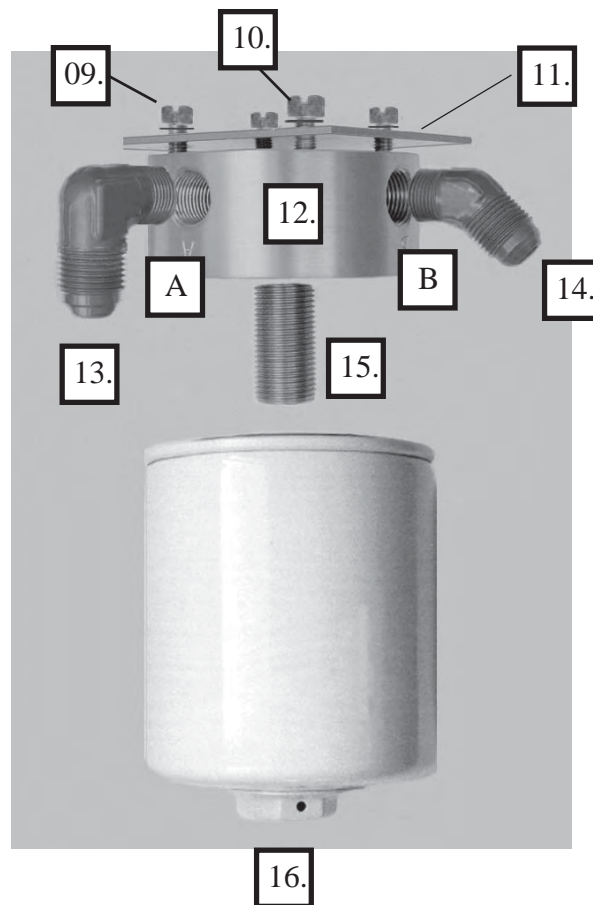
Installation Drawing. OFM-14 Filter Mount Plate
Schweizer 269A, B, & C (LH Installation)

12/05/92

Dwg# AFC-D-0010

John P. Kochy

ASSEMBLY DRAWING# AFC-D-0011

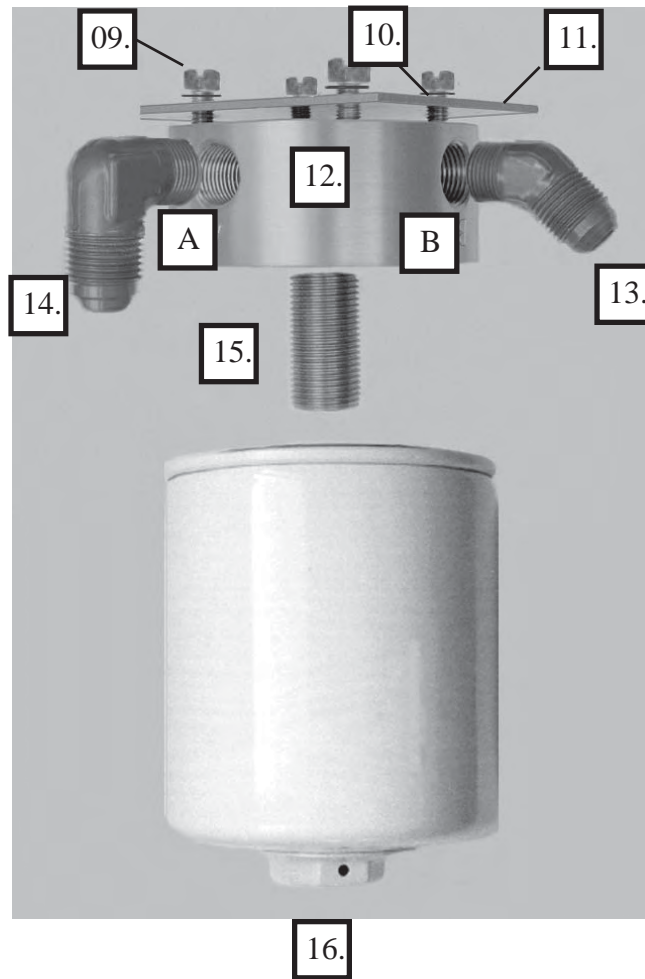


MATERIAL LIST

Index	Part Number	Description	Qty
09.	AN4H-AA	Bolt, Drilled Head	(4)
10.	AN960-416	Flat Washers	(4)
11.	OFM-14	Oil Filter Mount-269A,B,C	(1)
12.	OFB-10	Oil Filter Base	(1)
13.	MS20822-8D	Fitting, 90°	(1)
14.	MS20823-8D	Fitting, 45°	(1)
15.	OFS-10	Oil Filter Stud	(1)
16.	AFC-500	Oil Filter	(1)

Revisions	Airwolf Filter Corp.		
	Assembly Drawing. OFB-10 Oil Filter Base Schweizer 269A, B, & C (LH Installation)		
	12/05/92	Dwg# AFC-D-0011	John P. Kochy

ASSEMBLY DRAWING# AFC-D-0012



MATERIAL LIST

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
09.	AN4H-4A	Bolt, Drilled Head	(4)
10.	AN960-416	Flat Washers	(4)
11.	OFM-14	Oil Filter Mount-269A,B,C	(1)
12.	OFB-10	Oil Filter Base	(1)
13.	MS20822-8D	Fitting, 90°	(1)
14.	MS20823-8D	Fitting, 45°	(1)
15.	OFS-10	Oil Filter Stud	(1)
16.	AFC-500	Oil Filter	(1)

	Revisions	<h2>Airwolf Filter Corp.</h2>		
		Assembly Drawing. OFB-10 Oil Filter Base		
		Schweizer 269A, B, & C (RH Installation)		
		12/05/92	Dwg# AFC-D-0012	John P. Kochy

WEIGHT AND BALANCE REPORT

SCHWEIZER 269A, B, & C

RH INSTALLATION

[illegible]

WEIGHT AND BALANCE REPORT

SCHWEIZER 269A, B, & C

LH INSTALLATION

[illegible]