



AIRWOLF FILTER CORP.

15369 Madison Rd.
Middlefield, Ohio 44062-8404 U.S.A.
(440) 632-5136 / (440) 632-1685 Fax



TO THE MECHANIC:

This P/N AFC-K017 remote mount oil filter kit incorporates our generic STC approved for all Jacobs engine powered aircraft. The STC paperwork provided with this kit utilizes the new approved model list (AML) system recently instituted by the FAA. Although you may notice your particular aircraft is not specifically listed under this new classification, it is still approved.

Upon installing this filter kit, you will need to fill out and file a 337 form for this installation referencing the P/N AFC-K017 kit and the STC# SA01406NY. If your particular aircraft is not listed on the AML, you will also need a field approval by your local FSDO for this installation. This is necessary because the FAA only updates this list on a quarterly basis, and until your aircraft is listed, a field approval is required. If you are unsure whether or not you need a field approval, please call us directly.

With this paperwork, your local FSDO inspector has all the approved engineering data necessary to issue a field approval. This inspector is not an engineer and typically all he is doing is seeing if you installed it I/A/W the installation instructions and usually to make sure it doesn't leak. That's it.

If your local FSDO inspector has any questions or concerns on this STC, he is to call the following person who will clarify the details. Mr. Fiesel is very familiar with our filter kits and can address any concerns your FSDO inspector may have on your particular installation.

Richard Fiesel / Project Manager
FAA - New York Aircraft Certification Office (ACO)
Engine and Propeller Division
10 Fifth Street
Valley Stream, NY 11581
(516) 256-7504 / (516) 568-2716 Fax

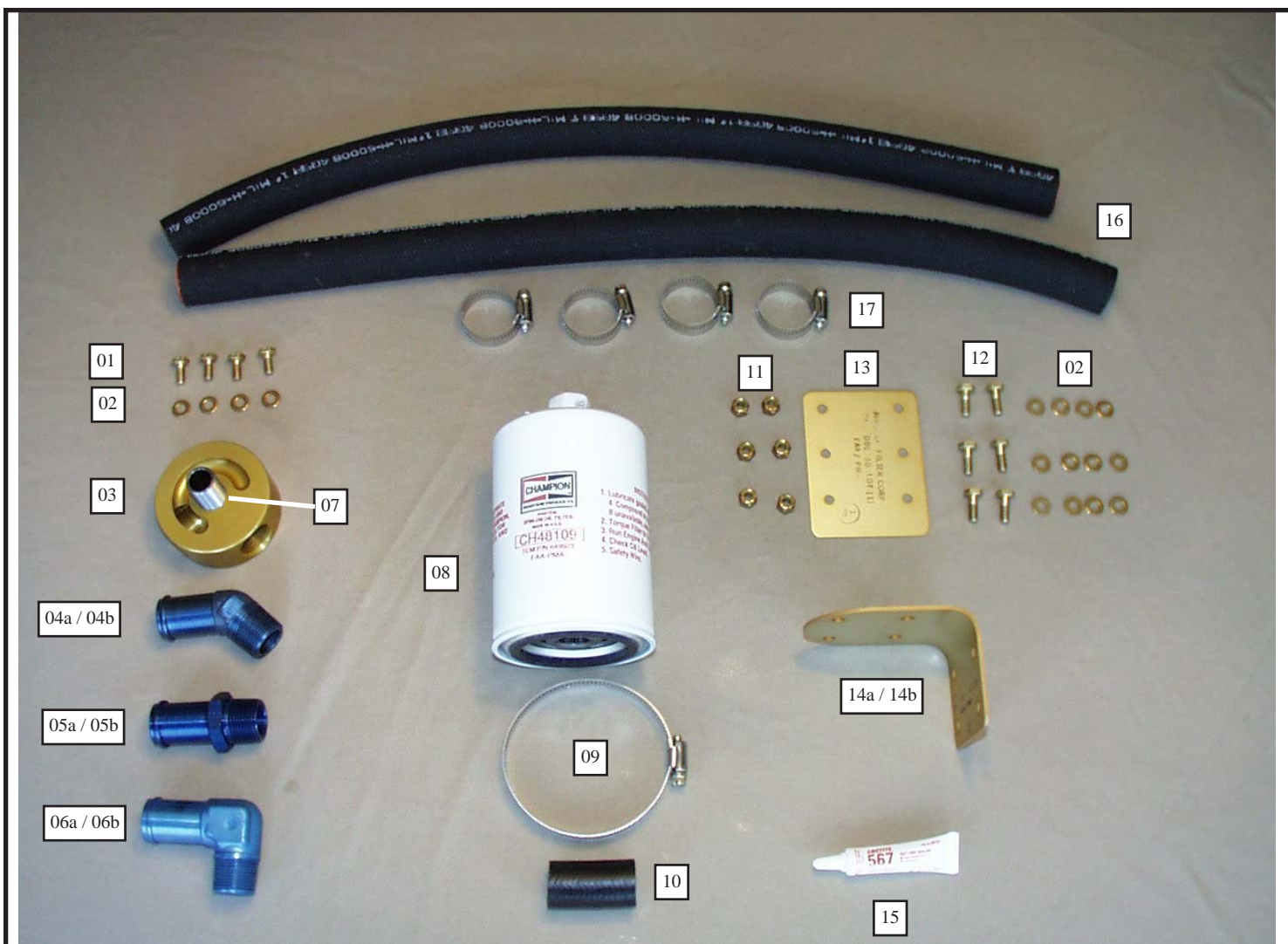
If your aircraft required a field approval, we must have a copy in order to update the (AML) list on our STC. Please send us a copy in addition to the one you will file with your local FSDO. We will then forward our copy to Richard Fiesel for him to update the (AML) list on our STC.

PERTINENT TO ALL INSTALLATIONS

Prior to installing the filter kit on the aircraft, weigh the filter kit, adding the weight of the hoses and determine the net weight being added to the aircraft for calculating the new 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 Titeflex Teflon 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 ie: Straight to Straight, Straight to 90°, Straight to 45°, etc. allowing for engine torque and vibration per AC43.13.

Thank you for your help.

Airwolf Filter Corp



Applicability: Jacobs powered Aircraft having firewalls
of .021 ASTM A527 galvanized steel or equivalent.

First Release 09/01/99
Revised 10/01/00

Parts List No. AFC-K017-A-PL

01.	AN4H-4A	Bolts, Drilled Head	(4)
02.	AN960-416	Flat Washers	(16)
03.	OFB-15	Oil Filter Base	(1)
04a. or	AN844-16D	Hose Elbow, 45°	(2)
04b.	AN844-12D	Hose Elbow, 45°	(2)
05a. or	AN840-16D	Hose Fitting, Straight,	(2)
05b.	AN840-12D	Hose Fitting, Straight,	(2)
06a. or	AN842-16D	Hose Elbow, 90°	(2)
06b.	AN842-12D	Hose Elbow, 90°	(2)
07.	OFS-10	Oil Filter Stud	(1)
08.	AFC-600	Oil Filter, Long, or Equivalent [Champion CH48109]	(1)
09.	QS100M52H	Hose Clamp, 3-1/4"	(1)
10.	MIL6000-3/4-2	Dampener	(1)
11.	MS20365-428A	Locknuts	(6)
12.	AN4-5A	Bolts	(6)
13.	DBL-10	Doubler Plate	(1)
14a.	OFM-11	Oil Filter Mount Plate, Vertical	(1)
14b.	OFM-10	Oil Filter Mount Plate, Horizontal	(1)
15.	56707	Loctite® 567 PST Teflon Thread Sealant	(1)
16a.	MIL6000-1	Mil6000 Hose, 1" I.D.	(2)
16b.	MIL6000-3/4	Mil6000 Hose, 3/4" I.D.	(2)
17.	QS100M16H	Hose Clamp, 1"	(4)
18.	AFC-K017-II	Installation Instructions	(1)
19.	AFC-K017-MI	Instructions for Continued Airworthiness	(1)
20.	AFC-K017-PL	Parts List	(1)

Installation Instructions No. AFC-K017-A-II

Applicability: Jacobs powered Aircraft having firewalls
of .021 ASTM A527 galvanized steel or equivalent.

First Release 09/01/99
Revised 10/01/00

*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. Remove engine cowling as needed to gain access to engine, oil cooler and oil tank.
02. Drain engine oil and tank (optional).
03. Remove engine scavenge oil return line. (Note this may be a length of 3/4" or 1" MIL6000 hose). This line routes from the engine to the oil tank, or from the engine to the oil cooler, whichever is applicable on your aircraft.

NOTE: You always want to filter oil at it's hottest point, and in front of the oil cooler. The hotter the oil is, the more it is willing to get rid of dirt and contaminants, and it keeps the oil cooler from becoming a trash collector. Therefore the oil filter should always be installed ahead of the oil cooler.

04. Determine what size scavenge oil line is used in this particular aircraft.
05. Determine location of oil filter base (03) and decide where on the firewall it will be mounted.
06. Determine which fittings needed based upon hose size to be used.
07. Using the horizontal oil filter mount (14a.) or vertical oil filter mount (14b.) as a drilling template, locate and drill mounting holes using a letter "F" drill.

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

- 08a. Secure vertical oil filter mount plate (14a) to Fwd side of firewall and doubler plate (13) to Aft side of firewall using bolts (12), washers (02), and nuts (11).

OR

- 08b. Secure oil filter base (03) to Fwd side of firewall and horizontal oil filter mount plate(14b) to rear side using bolts (01) and washers (02) and secure with .032 MS20995-C safety wire.

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

09. Install any combination of fitting (04), (05), or (06) into oil filter base (03). Mount to oil filter mount plate (14a or 14b.) using bolts (01), washers (02), and secure with .032 MS20995-C safety wire.

**** SEE WARNING C BELOW ****

10. Connect hose from the outlet of the scavenge oil pump to the "IN" fitting on the oil filter base (03). If using MIL6000H hose secure with the provided hose clamps (19).
11. Connect hose from "OUT" fitting on the oil filter base (03) to the inlet of the oil tank or oil cooler where applicable. If using MIL6000H hose secure with the provided hose clamps (17).
12. Install oil filter (08) and torque per instructions on oil filter, and secure with MS20995-C safety wire.
Using hose clamp (09) provided, secure dampener (10) to bottom to oil filter to provided attachment vehicle for safety wiring of oil filter.
13. Safety wire drain plug and refill oil tank with oil. (If step #2 is omitted this step is not necessary).
14. Run engine and check for leaks.
15. Determine weight and balance, initiate 337 form, and update the equipment list.

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

LOCAL STIFFENING OF THE FIREWALL MAY BE NECESSARY TO SUPPORT WEIGHT OF OIL FILTER AND PREVENT FIREWALL CRACKING.

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

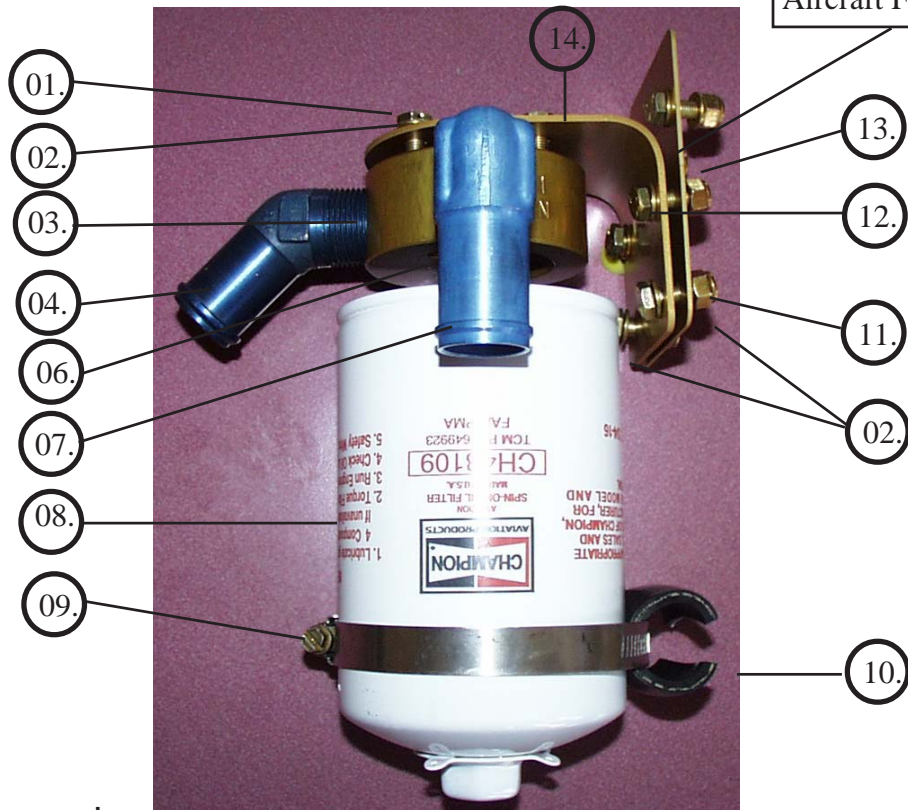
USE LOCTITE® 567 PST TEFLON THREAD SEALANT BEFORE INSTALLATION OF FITTINGS. DO NOT ASSEMBLE FITTINGS INTO OIL FILTER BASE WITHOUT SEALANT OTHERWISE GALLING OF MATERIAL WILL RESULT.

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

**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)**

ASSEMBLY DRAWING# AFC-D-0050

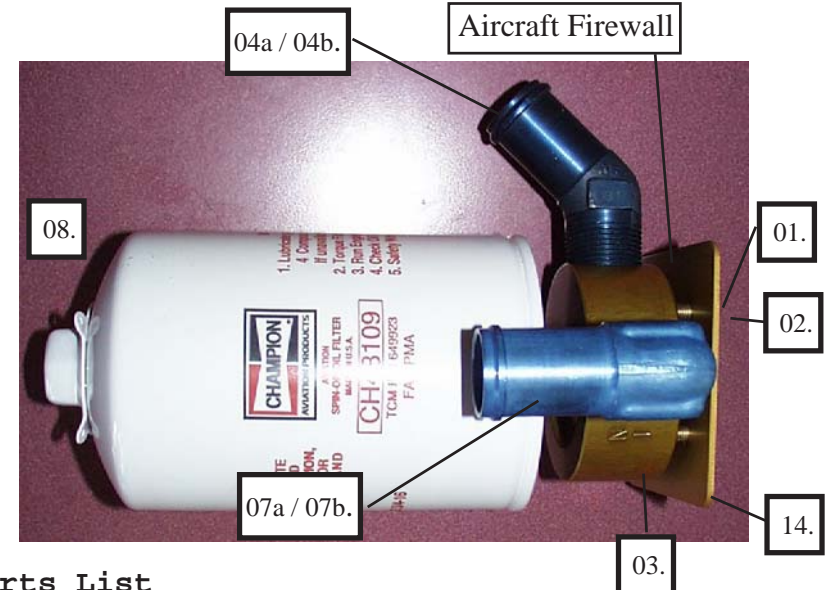
VERTICAL INSTALLATION



Parts List

01.	AN4H-4A	Bolts, Drilled Head	(4)
02.	AN960-416	Flat Washers	(16)
03.	OFB-15	Oil Filter Base	(1)
04a.	AN844-16D	Hose Elbow, 45°	(2)
04b.	AN844-12D	Hose Elbow, 45°	(2)
05a.	AN840-16D	Hose Fitting, Straight	(2)
05b.	AN840-12D	Hose Fitting, Straight	(2)
06.	OFS-10	Oil Filter Stud	(1)
07a.	AN842-16D	Hose Elbow, 90°	(2)
07b.	AN842-12D	Hose Elbow, 90°	(2)
08.	AFC-600	Oil Filter, Long, or Equivalent [Champion CH48109]	(1)
09.	QS100M52H	Hose Clamp, 3-1/4"	(1)
10.	MIL6000-3/4-2	Dampener	(1)
11.	MS20365-428A	Locknuts	(6)
12.	AN4-5A	Bolts	(6)
13.	DBL-10	Doubler Plate	(1)
14.	OFM-11	Oil Filter Mount Plate, Vertical	(1)
15.	56707	Loctite® 567 PST Teflon Thread Sealant	(1)

HORIZONTAL INSTALLATION

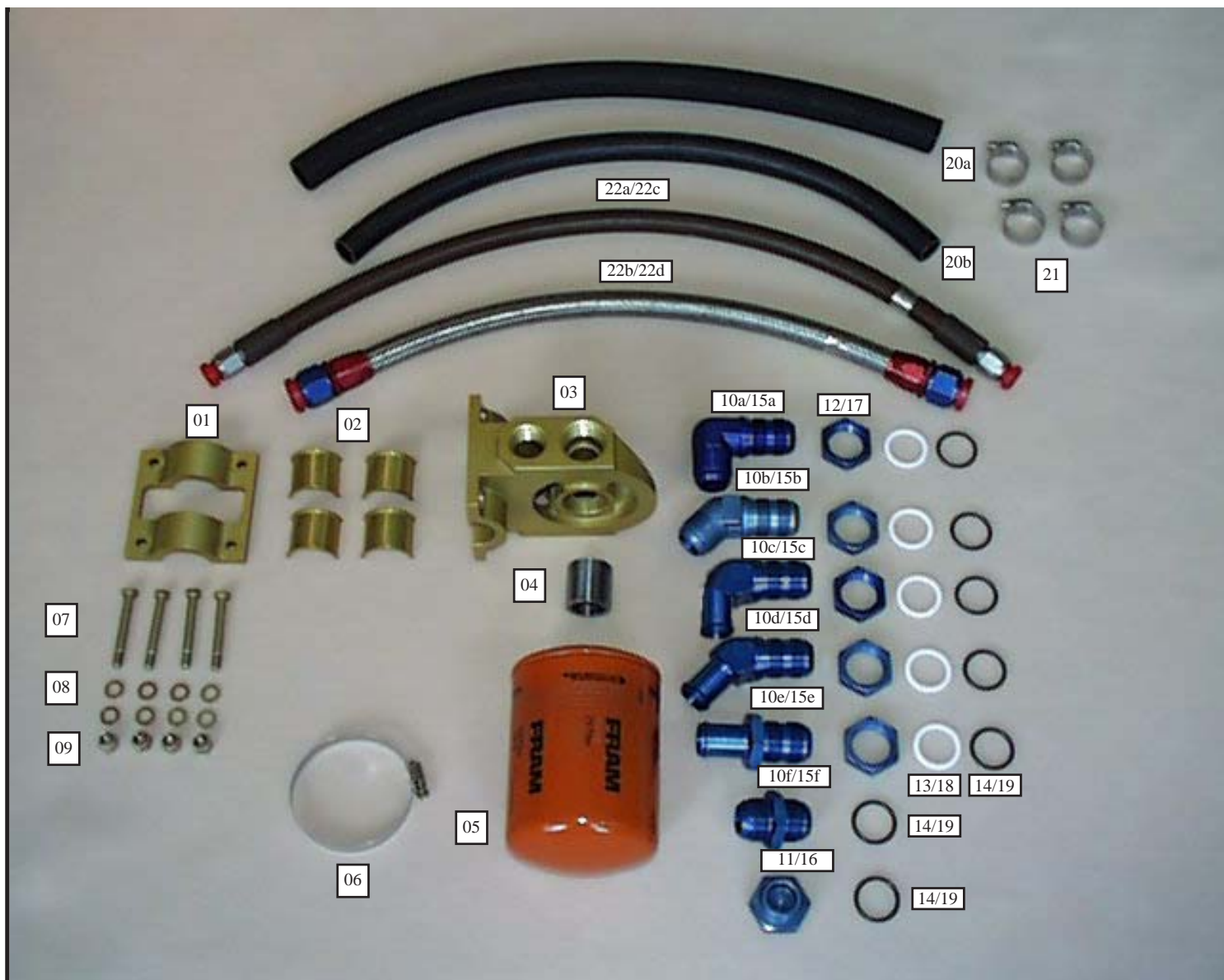


Parts List

01.	AN4H-4A	Bolts, Drilled Head	(4)
02.	AN960-416	Flat Washers	(4)
03.	OFB-15	Oil Filter Base	(1)
04a.	AN844-16D	Hose Elbow, 45°	(2)
04b.	AN844-12D	Hose Elbow, 45°	(2)
05a.	AN840-16D	Hose Fitting, Straight	(2)
05b.	AN840-12D	Hose Fitting, Straight	(2)
06.	OFS-10	Oil Filter Stud	(1)
07a.	AN842-16D	Hose Elbow, 90°	(2)
07b.	AN842-12D	Hose Elbow, 90°	(2)
08.	AFC-600	Oil Filter, Long, or Equivalent [Champion CH48109]	(1)
14.	OFM-10	Oil Filter Mount Plate, Horizontal	(1)

Airwolf Filter Corp.

Assembly Drawing.
OFB-15 Oil FilterAdapter, Firewall



Oil Filter Kit AFC-K017-B

Applicability:

Jacobs powered Aircraft having firewalls
of .021 ASTM A527 galvanized steel or equivalent.

First Release 09/01/99
Revised 10/01/00

Parts List No. AFC-K017-B-PL

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
01.	OFB-18-12	Clamp Plate, Oil Filter Base	(1)
02a. or	OFB-18-13	1.000" Bushing Set	(1)
02b. or	OFB-18-14	1.125" Bushing Set	(1)
02c. or	OFB-18-15	1.250" Bushing Set	(1)
02d. or	OFB-18-16	1.375" Bushing Set	(1)
02e. or	OFB-18-17	1.500" Bushing Set	(1)
02f.	OFB-18-18	1.625" Bushing Set	(1)
03.	OFB-18-11	Adapter Body, Oil Filter Base	(1)
04.	OFS-12	Oil Filter Stud	(1)
05.	AFC-700	Oil Filter	(1)
06.	QS100M76H	5-1/2" Hose Clamp	(1)
07.	AN5H-12A	5/16" Bolt, 1-1/4" Long	(4)
08.	AN960-516	5/16" Flat Washer	(8)
09.	MS20365-516	5/16" Locknut	(4)
10a. or	AN833-16D	90° Bulkhead Fitting, Flared Ends	(2)
10b. or	AN837-16D	45° Bulkhead Fitting, Flared Ends	(2)
10c. or	AN838-16D	90° Bulkhead Fitting, MIL6000 Type Hose	(2)
10d. or	AN839-16D	45° Bulkhead Fitting, MIL6000 Type Hose	(2)

Oil Filter Kit AFC-K017

Applicability:

Jabobs powered Aircraft having firewalls
of .021 ASTM A527 galvanized steel or equivalent.

First Release 09/01/99

Revised 10/01/00

Parts List No. AFC-K017-B-PL (continued)

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
10e. or	AN807-16D	Straight Tube to Hose Adapter	(2)
10f.	AN815-16D	Union	(2)
11.	AN814-16D	Plug	(2)
12.	AN6289-16D	Bulkhead Nut	(2)
13.	MS28773-916	Teflon Boss Gasket	(2)
14.	M83248/1-916	Viton O-Ring	(2)
15a. or	AN833-12D	90° Bulkhead Fitting, Flared Ends	(2)
15b. or	AN837-12D	45° Bulkhead Fitting, Flared Ends	(2)
15c. or	AN838-12D	90° Bulkhead Fitting, MIL6000 Type Hose	(2)
15d. or	AN839-12D	45° Bulkhead Fitting, MIL6000 Type Hose	(2)
15e. or	AN807-12D	Straight Tube To Hose Adapter	(2)
15f.	AN815-12D	Union	(2)
16.	AN814-12D	Plug	(2)
17.	AN6289-12D	Bulkhead Nut	(2)
18.	MS28773-912	Teflon Boss Gasket	(2)
19.	M83248/1-912	Viton O-Ring	(2)
20a. or	MIL6000-1	1" I.D. MIL6000 Hose	(2)
20b.	MIL6000-3/4	3/4" I.D. MIL6000 Hose	(2)
	AE102-22	Firesleeve for MIL6000 Hose	
	J253	Firesleeve Band Clamps	
21.	QS100M16H	1" Hose Clamp	(4)
22a. or	F13000016-0xxx	Titeflex® Teflon Hose Assy with Fire Sleeving. [-16 Size]	(2)
22b. or	13000016-0xxx	Titeflex® Teflon Hose Assy w/o Fire Sleeving. [-16 Size]	(2)
22c. or	F13000012-0xxx	Titeflex® Teflon Hose Assy with Fire Sleeving. [-12 Size]	(2)
22d. or	13000012-0xxx	Titeflex® Teflon Hose Assy w/o Fire Sleeving. [-12 Size]	(2)
23.	DBL-14	Doubler Plate, Beaver	(1)
24.	B-7669B	Chip Detector	(1)
25.	AFC-K017-II	Installation Instructions	(1)
26.	AFC-K017-MI	Instructions for Continued Airworthiness	(1)
27.	AFC-K017-PL	Parts List	(1)

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

LOCAL STIFFENING OF THE FIREWALL MAY BE NECESSARY TO SUPPORT WEIGHT OF OIL FILTER AND PREVENT FIREWALL CRACKING.

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

LUBRICATE FITTINGS WITH THREAD LUBE OR LIGHT OIL BEFORE INSTALLATION INTO OIL FILTER BASE OTHERWISE GALLING OF MATERIAL MAY RESULT.

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

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 (D) *****

NO SUBSTITUTION OF OIL FILTER ALLOWED. THIS FILTER INCORPORATES AN INTERNAL BYPASS RELIEF VALVE SET TO OPEN TO AIRWOLF'S SPECS. HAS THE LATEST MICROGLAS FILTER TECHNOLOGY WHICH ALLOWS FOR HI FLOW RATES AND HIGH EFFICIENCY, AND HAS AN INTERNAL SCREEN COVERING THE OIL PRESSURE BYPASS VALVE, WHICH HELPS CONTAIN THE METAL INSIDE THE FILTER CAN WHEN A CATASTROPHIC ENGINE FAILURE OCCURS.

Installation Instructions No. AFC-K017-B-II

Applicability: Jacobs engines
having firewall of .021 ASTM A527
galvanized steel or equivalent.

First Release 09/01/00
Revised 10/01/00

*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. Remove engine cowl as needed to gain access to engine, oil cooler and oil tank.
02. Drain engine oil and tank (optional).
03. Remove engine scavenge oil return line. (Note this may be a length of 3/4" or 1" MIL6000 hose). This line routes from the engine to the oil tank, or from the engine to the oil cooler, whichever is applicable on your aircraft.

NOTE: You always want to filter oil at it's hottest point, and in front of the oil cooler. The hotter the oil is, the more it is willing to get rid of dirt and contaminants, and it keeps the oil cooler from becoming a trash collector. Therefore the oil filter should always be installed ahead of the oil cooler.
04. Determine what size scavenge oil line is used in this particular aircraft.
05. Determine location of oil filter base (03) and decide on what engine mount tube it will be mounted to.
06. Determine size of above mentioned engine mount.
07. After determining engine tube size, install appropriate bushing (02a-f) into oil filter base (03) and oil filter base clamp.
08. Using bolts (07), washers (08), and locknuts (09) supplied, secure assembled oil filter base to engine mount and torque to 100-140 in/lbs.
09. Determine which fittings needed based upon hose size and whether or not the original MIL6000 will still be used or whether the hose will be upgraded to the newer flare fitting type hose.
10. Onto each bulkhead fitting (10a-f) or (14a-f), install in order 1 ea. bulkhead nut (11/15), boss gasket (12/16), and O-Ring (13/17).

CAUTION: O-ring (13/17) and boss gasket (12/16) must seal and be positioned in the center, smooth, non threaded area of the bulkhead fitting. If this is not done, when you tighten down the blue bulkhead nut (11/15), you will force the O-Ring (13/17) against the end of the first set of threads on the bulkhead fitting, cutting the O-Ring, and mushrooming out the Teflon Boss gasket (12/16) like a large "C" causing a small oil leak.

11. Lightly oil assembled bulkhead fittings and install into appropriate inlet/outlet holes of oil filter base (03) but do not tighten at this time.

******* WARNING *******

DO NOT INSTALL DRY FITTINGS INTO OIL FILTER BASE OTHERWISE GALLING OF MATERIAL WILL RESULT.

12. Connect hose from the outlet of the scavenge oil pump to the "IN" fitting on the oil filter base (03). If using MIL6000H hose secure with the provided hose clamps (19).

******* SEE WARNING C ABOVE *******

13. Connect hose from "OUT" fitting on the oil filter base (03) to the inlet of the oil tank or oil cooler where applicable. If using MIL6000H hose secure with the provided hose clamps (19).
14. Tighten bulkhead nuts at this time.
NOTE: The entire sealing function occurs by lightly compressing the O-Ring. Once the Teflon boss gasket (12/16) comes in contact with the O-Ring (13/17), 1/2 to 3/4 turn on the bulkhead nut (11/15) is all that is needed. Do not overtighten bulkhead nut as it does not need to bottom out against the oil filter adapter (03).
15. Install appropriate O-Ring (13/17) onto plug/bleeder and install into unused inlet/outlet holes, torque to specs and safety wire.
16. Install oil filter (05) and tighten per filter manufacturers specifications.
Using hose clamp (06) provided, secure to bottom of oil filter to provided attachment vehicle for safety wiring of oil filter.
17. Safety wire drain plug and refill oil tank with oil. (If step #2 is omitted this step is not necessary).
18. Run engine and check for leaks.
19. Determine weight and balance, initiate 337 form, and update the equipment list.

INSTALLATION DRAWING# AFC-D-0050



TYPICAL
ENGINE MOUNT INSTALLATION

Airwolf Filter Corp.

Installation Drawing.
OFB-18 Oil Filter Adapter, Engine Tube

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Form AFC-K017-ICA Revised 10/01/00

A/C Make : _____ Model: _____ S/N: _____ Reg#: _____

Revision: Date: _____

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: _____ with Jacobs _____ 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-K017</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 Jacobs Engine Service Bulletin. Oil should be changed at least once each 12 months. Cut the old filter open at with Airwolf AFC-470 oil filter cutter 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: __N/A</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: __N/A</p>
8.	<p>Diagrams: Of access plates and information, if needed, to gain access for inspection.</p> <p>Comment: __N/A</p>
9.	<p>Special inspection requirements: Such as X-ray, ultrasonic testing, or magnetic particle inspection, if required.</p> <p>Comment: __N/A</p>
10.	<p>Application of protective treatments: To the affected area after inspection and/or maintenance, if any.</p> <p>Comment: __N/A</p>

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Form AFC-K017-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.



Reference Data
for
AFC-K017
for
STC SA01406NY
Oil Filter Kit
AFC-K017

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

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

TO THE MECHANIC:

This P/N AFC-K017 remote mount oil filter kit incorporates our STC approved for all Curtis -Wright, Jacobs, Kinner, Ranger, & Warner powered aircraft. 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-K017 kit and the STC# SA01406NY. 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. **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 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 THERMOSTATIC 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.

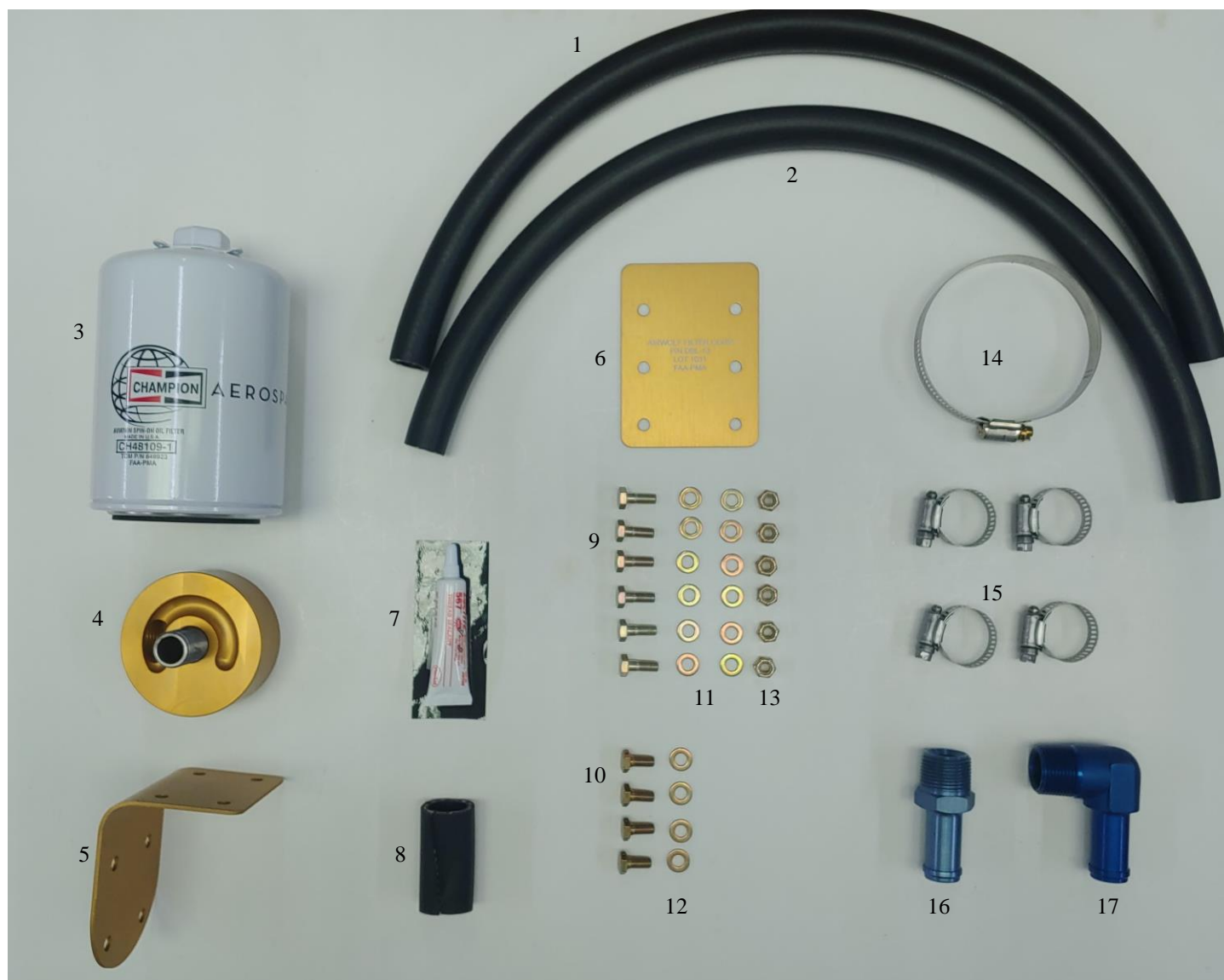
NOTE:

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 No. AFC-K017-PL-A**Applicability:**

**Curtis-Wright, Jacobs. Kinner, Ranger, & Warner Powered Aircraft
having firewalls of .021" ASTM A527 galvanized steel or equivalent.**



Parts Illustration Curtis- Wright, Jacobs. Kinner, Ranger, & Warner Engine Series

Parts List No. AFC-K017-PL-A

Applicability: Curtis-Wright, Jacobs. Kinner, Ranger, & Warner Powered Aircraft
having firewalls of .021" ASTM A527 galvanized steel or equivalent.

Index	Part Number	Description	Quantity
1	MIL6000-3/4	Hose 3/4" ID	24
2	MIL6000-3/4	Hose 3/4" ID	24
3	AFC-500 or AFC-600	Oil Filter, or Equivalent [Champion CH48108/CH48109]	1
4	OFB-15	Oil Filter Base, -12 Ports, (with OFS-10 Installed)	1
5	OFM-11	Oil Filter Mount Plate - 90°	1
6	DBL-10	Plate, Doubler	1
7	567	Loctite Thread Sealant	1
8	MIL6000-3/4-2	Dampener, Vibration	1
9	AN4-5A	Bolt	6
10	AN4H-4A	Bolt	4
11	AN960-416	Flat Washer	12
12	AN960-416	Flat Washer	4
13	MS20365-428A	Locknut	6
14	QS100M52H	Clamp	1
15	QS100M12H	Clamp	4
16	AN840-12D	Fitting, NPT-Hose, Straight	1
NS	AN840-16D	Fitting, NPT-Hose, Straight	opt
17	AN842-12D	Fitting, NPT-Hose, 90°	1
NS	AN842-16D	Fitting, NPT-Hose, 90°	opt
NS	AN844-12D	Fitting, NPT-Hose, 45°	1
NS	AN844-16D	Fitting, NPT-Hose, 45°	opt

Installation Instructions No. AFC-K017-II-A

Applicability: **Installation of the remote oil filter kit on Boeing Model 75 series aircraft with Curtis-Wright, Jacobs, Kinner, Ranger, & Warner Engine on aircraft having firewalls of .021" ASTM A527 galvanized steel or equivalent.**

1. Remove left engine cowl (top and door) and bottom engine cowl.
2. Drain oil (optional).
3. Remove engine oil return line P/N A75N1-3004 (note this may be a length of 1" Mil 6000 hose). This line runs from the engine to the oil cooler / tank.
4. Per Installation Drawing AFC-D-0019, Remove the screw that goes through the end of the firewall stiffener P/N 75-2912. This is located on the left side of the firewall on the aft side. Loosen the screw that goes through the firewall stiffener and the tab welded on the fuselage. This screw is 4-5/16" inboard of the removed screw. Drill the hole of the removed screw to 1/4" (.250).
5. Per Installation Drawing AFC-D-0019, Measure 3-9/16" out from a vertical line drawn from the C/L of the left engine mount studs. Using doubler plate P/N DBL-10 as a template drill the other 5 holes 1/4" (.250). The previously drilled hole is the middle outboard hole.
6. Per Installation Drawing AFC-D-0064, Slip doubler plate (DBL-10) between the firewall and stiffeners. The long side goes up.
7. Per Installation Drawing AFC-D-0019, Bolt oil filter base support angle P/N OFM-11 to firewall and doubler plate using (6ea) provided AN 4-5A bolts.
8.

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

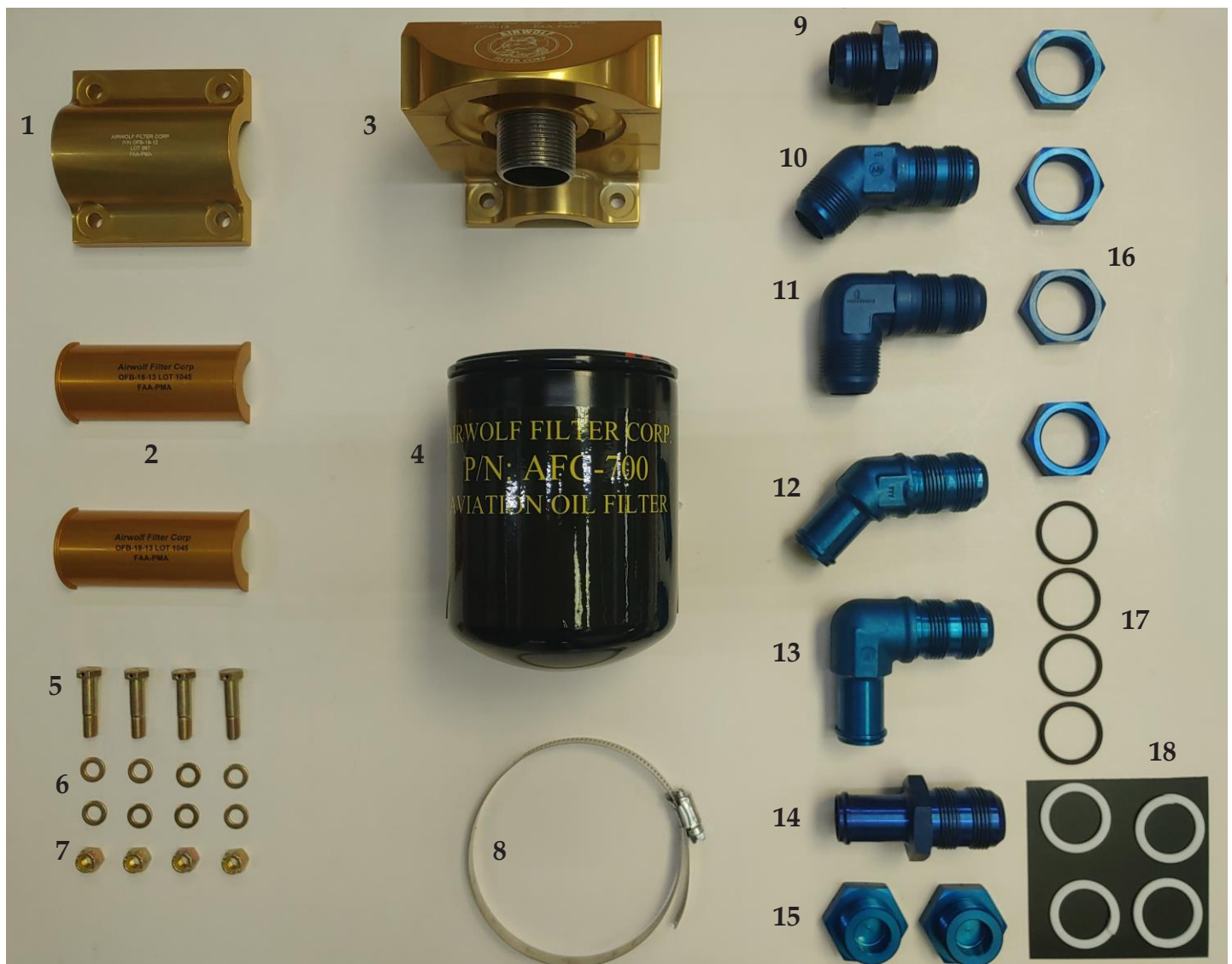
Per Illustrated Parts List, Install provided AN842-16D fittings (16 or 17) in the oil filter base (4). The fitting in port B points horizontal with the filter base. The other points over the first fitting.
9. Bolt oil filter base (OFB-15) (4) to oil Filter Mount Plate, Vertical (5) using provided AN4H-4A bolts (10) and washers (12). Oil inlet port "B" is positioned to the front of the aircraft. Secure bolts with safety wire.
10.

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

Install one 25" piece of 1" Mil 6000H hose using provided QS100M16H hose clamps. The port "B" is the oil inlet and goes to the oil out of the Engine. The "A" port is the oil outlet, and it goes to the oil cooler / tank. Tighten clamps.
11. Install oil filter as per manufacturers specifications and safety wire.
12. Using the 2" piece of 3/4" Mil 6000 hose provided, secure to bottom of oil filter with (1) QS100M52W 3-3/4" clamp and locate between bottom of oil filter and existing firewall. This will strengthen the oil filter mount and dampen the vibrations of the engine.
13. Safety wire drain and refill oil tank with oil. (If step #2 is omitted this step is not necessary).
14. Run engine and check for leaks.
15. Determine weight and balance, initiate 337 form, and update the equipment list.

Illustrated Parts List No. AFC-K017-PL-B**Applicability:**

Curtis-Wright, Jacobs, Kinner, Ranger, & Warner, Powered Aircraft
having firewalls of .021" ASTM A527 galvanized steel or equivalent.



Parts Illustration OFB-18 and OFB-20 Oil Filter Adapter

Parts List No. AFC-K017-PL-B

Applicability: **Curtis-Wright, Jacobs. Kinner, Ranger, & Warner, Powered Aircraft
having firewalls of .021" ASTM A527 galvanized steel or equivalent.**

Index	Part Number	Description	Quantity
1	OFB-18-12 or	Plate, Clamp Oil Filter Base	1
1	OFB-20-12	Plate, Clamp Oil Filter Base	1
2	OFB-18-13 or	Bushing Set, 1.000"	1
2	OFB-20-13	Bushing Set, 1.000"	1
2	OFB-18-14 or	Bushing Set, 1.125"	Opt
2	OFB-20-14	Bushing Set, 1.125"	Opt
2	OFB-18-15 or	Bushing Set, 1.250"	Opt
2	OFB-20-15	Bushing Set, 1.250"	Opt
2	OFB-18-16 or	Bushing Set, 1.375"	Opt
2	OFB-20-16	Bushing Set, 1.375"	Opt
2	OFB-18-17 or	Bushing Set, 1.500"	Opt
2	OFB-20-17	Bushing Set, 1.500"	Opt
2	OFB-18-18 or	Bushing Set, 1.625"	Opt
2	OFB-20-18	Bushing Set, 1.625"	Opt
3	OFB-18-11 or	Adapter Body, Oil Filter Base (with OFS-12 Installed)	1
3	OFB-20-11	Adapter Body, Oil Filter Base (with OFS-12 Installed)	1
4	AFC-700	Oil Filter	1
5	AN5H-13A	Bolt, 5/16" 1-1/4"Long	4
6	AN960-516	Washer, Flat	8
7	MS20365-516	Nut, Locking 5/16	4
8	QS100M76H	Clamp, Screw 5-1/2"	1
9	AN815-16D	Fitting, Union	1
9	AN815-20D	Fitting, Union	1
10	AN837-16D	Fitting, Bulkhead to Flare 45°	1
10	AN837-20D	Fitting, Bulkhead to Flare 45°	1
11	AN833-16D	Fitting, Bulkhead to Flare 90°	1
11	AN833-20D	Fitting, Bulkhead to Flare 90°	1
12	AN839-16D	Fitting, Bulkhead to Hose 45°	1
12	AN839-20D	Fitting, Bulkhead to Hose 45°	1
13	AN838-16D	Fitting, Bulkhead to Hose 90°	1
13	AN838-20D	Fitting, Bulkhead to Hose 90°	1
14	AN807-16D	Fitting, Bulkhead to Hose Straight	1
14	AN807-20D	Fitting, Bulkhead to Hose Straight	1
15	AN814-16D	Plug	2
15	AN814-20D	Plug	2
16	AN6289-16D	Nut, Bulkhead	2
16	AN6289-20D	Nut, Bulkhead	2
17	M83248/1-916	O-Ring, Viton	4
17	M83248/1-920	O-Ring, Viton	4
18	MS28773-16	Boss Gasket, Teflon	2
18	MS28773-20	Boss Gasket, Teflon	2
19			1

Installation Instructions No. AFC-K017-II-B

Applicability: Installation of the remote oil filter kit on aircraft with Curtis-Wright, Jacobs. Kinner, Ranger, & Warner, Engine having firewalls of .021" ASTM A527 galvanized steel or equivalent.

1. Remove engine cowlings as needed to gain access to engine, oil cooler and oil tank.
2. Drain engine oil and tank (optional).
3. Remove engine scavenge oil return line. This line routes from the engine to the oil tank, or from the engine to the oil cooler, whichever is applicable on your aircraft.

TIP: You always want to filter oil at its hottest point, and in front of the oil cooler. The hotter the oil is, the more it is willing to get rid of dirt and contaminants, and it keeps the oil cooler from becoming a trash collector. Therefore, the oil filter should always be installed ahead of the oil cooler.

4. Determine what size scavenge oil line is used in this aircraft.
5. Per Illustrated Parts List, determine location of oil filter base (3) and decide where on the firewall it will be mounted or Engine Mount Tube, using bolts (5), washers (6), and locknuts (7) supplied, secure oil filter base (3) to doubler plate, install rear clamp plate (1), and torque to 100-140 in/lbs.

Note: When done correctly, the firewall will be sandwiched between the oil filter base (3) and oil filter clamp plate (1).

6. Onto each bulkhead fitting (10-14), install in order 1 ea. bulkhead nut (16), boss gasket (18), and O-Ring (17).

CAUTION: O-ring (17) and boss gasket (18) must seal and be positioned in the center, smooth, non-threaded area of the bulkhead fitting. If this is not done, when you tighten down the blue bulkhead nut (16), you will force the O-Ring (17) against the end of the first set of threads on the bulkhead fitting, cutting the O-Ring, and mushrooming out the Teflon Boss gasket (18) like a large "C" causing a small oil leak.

***** WARNING *****

DO NOT INSTALL DRY FITTINGS INTO OIL FILTER BASE OTHERWISE GALLING WILL RESULT

7. Lightly oil assembled bulkhead fittings and install into appropriate inlet/outlet holes of oil filter base (3) but do not tighten at this time.

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

8. Install and connect the hose from the outlet of the scavenge oil pump (Oil out of Engine) to the "IN" fitting on the oil filter base (3).
9. Install and connect the hose from "OUT" fitting on the oil filter base (3) to the inlet of the oil cooler.
10. Torque hose ends to specs at this time.
11. Tighten bulkhead nuts at this time.

NOTE: The entire sealing function occurs by lightly compressing the O-Ring. Once the Teflon boss gasket (18) comes in contact with the O-Ring (17), 1/4 to 1/2 turn on the bulkhead nut (16) is all that is needed. Do not overtighten bulkhead nut as it does not need to bottom out against the oil filter adapter (3).

12. Install appropriate O-Ring (17) onto plug/bleeder (15) and install into unused inlet/outlet holes, torque to specs and safety wire.
13. Install oil filter (4) and tighten per filter manufacturers specifications
14. Using hose clamp (8) provided, secure to bottom of oil filter to provided attachment vehicle for safety wiring of oil filter
15. Safety wire drain plug and refill oil tank with oil. (If step #2 is omitted this step is not necessary).
16. Run engine and check for leaks.
17. Determine weight and balance, initiate 337 form, and update the equipment list.

Illustrated Parts List No. AFC-K017-PL-C**Applicability:**

Curtis-Wright, Jacobs. Kinner, Ranger, & Warner, Powered Aircraft
having firewalls of .021" ASTM A527 galvanized steel or equivalent.



Parts Illustration OFB-19 Oil Filter Adapter

Parts List No. AFC-K017-PL-C

Applicability: Curtis-Wright, Jacobs. Kinner, Ranger, & Warner, Powered Aircraft
having firewalls of .021" ASTM A527 galvanized steel or equivalent.

Index	Part Number	Description	Quantity
1	OFB-19-11	Adapter Body, Oil Filter Base (with OFS-12 Installed)	1
2	OFB-19-12	Plate, Clamp Oil Filter Base	1
3	AN5H-13A	Bolt, 5/16" 1-1/4"Long	4
4	AN960-516	Washer, Flat	8
5	MS20365-516	Nut, Locking 5/16	4
6	AFC-700	Oil Filter	2
7	OFB-19-13	Bushing Set, 1.500"	1
7	OFB-19-14	Bushing Set, 1.625"	Opt
7	OFB-19-15	Bushing Set, 1.750"	Opt
7	OFB-19-16	Bushing Set, 1.875"	Opt
7	OFB-19-17	Bushing Set, 2.000"	Opt
7	OFB-19-18	Bushing Set, 1.125"	Opt
7	OFB-19-19	Bushing Set, 1.250"	Opt
7	OFB-19-20	Bushing Set, 1.375"	Opt
8	QS100M76H	Clamp, Screw 5-1/2"	2
9	AN833-24D	Fitting, Bulkhead to Flare 90°	1
10	AN815-24D	Fitting, Union	1
NS	AN837-24D	Fitting, Bulkhead to Flare 45°	1
11	AN6289-24D	Nut, Bulkhead	2
12	AN814-24D	Plug	2
13	MS28773-24	Boss Gasket, Teflon	2
14	M83248/1-924	O-Ring, Viton	4

Installation Instructions No. AFC-K017-II-C

Applicability: Installation of the remote oil filter kit on aircraft with Curtis-Wright, Jacobs. Kinner, Ranger, & Warner, Engines having firewalls of .021" ASTM A527 galvanized steel or equivalent.

1. Remove engine cowling as needed to gain access to engine, oil cooler and oil tank.
2. Drain engine oil and tank (optional).
3. Remove engine scavenge oil return line. This line routes from the engine to the oil cooler.

TIP: You always want to filter oil at its hottest point, and in front of the oil cooler. The hotter the oil is, the more it is willing to get rid of dirt and contaminants, and it keeps the oil cooler from becoming a trash collector. Therefore, the oil filter should always be installed ahead of the oil cooler.

4. Per the following installation drawings AFC-D-0057, AFC-D-0060, and AFC-D-0062. Determine the best location for the Oil filter Adapter to be mounted Engine Mount Tube or Firewall as per applicable aircraft.
5. Using bolts (3), washers (4), and locknuts (5) supplied, secure oil filter base (1) to firewall or Engine Mount tube, and torque to 100-140 in/lbs.
6. Onto each bulkhead fitting (9-10), install in order 1 ea. bulkhead nut (11), boss gasket (13), and O-Ring (14).

CAUTION: O-ring (14) and boss gasket (38) must seal and be positioned in the center, smooth, non-threaded area of the bulkhead fitting. If this is not done, when you tighten down the blue bulkhead nut (11), you will force the O-Ring (14) against the end of the first set of threads on the bulkhead fitting, cutting the O-Ring, and mushrooming out the Teflon Boss gasket (13) like a large "C" causing a small oil leak.

***** WARNING *****

DO NOT INSTALL DRY FITTINGS INTO OIL FILTER BASE OTHERWISE GALLING WILL RESULT

7. Lightly oil assembled bulkhead fittings and install into appropriate inlet/outlet holes of oil filter base (1) but do not tighten at this time.

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

8. Install and connect the hose from the outlet of the scavenge oil pump (Oil out of Engine) to the "IN" fitting on the oil filter base (1).
9. Install and connect the hose from "OUT" fitting on the oil filter base (1) to the inlet of the oil cooler.
10. Torque hose ends to specs at this time.
11. Tighten bulkhead nuts at this time.

NOTE: The entire sealing function occurs by lightly compressing the O-Ring. Once the Teflon boss gasket (13) comes in contact with the O-Ring (14), 1/4 to 1/2 turn on the bulkhead nut (11) is all that is needed. Do not overtighten bulkhead nut as it does not need to bottom out against the oil filter adapter (1).

12. Install appropriate O-Ring (14) onto plug/bleeder (12) and install into unused inlet/outlet holes, torque to specs and safety wire.
13. Install oil filter (6) and tighten per filter manufacturers specifications
14. Using hose clamps (8) provided, secure to bottom of oil filters to provided attachment vehicle for safety wiring of oil filters.
15. Safety wire drain plug and refill oil tank with oil. (If step #2 is omitted this step is not necessary).
16. Run engine and check for leaks.
17. Determine weight and balance, initiate 337 form, and update the equipment list.

WEIGHT AND BALANCE REPORT

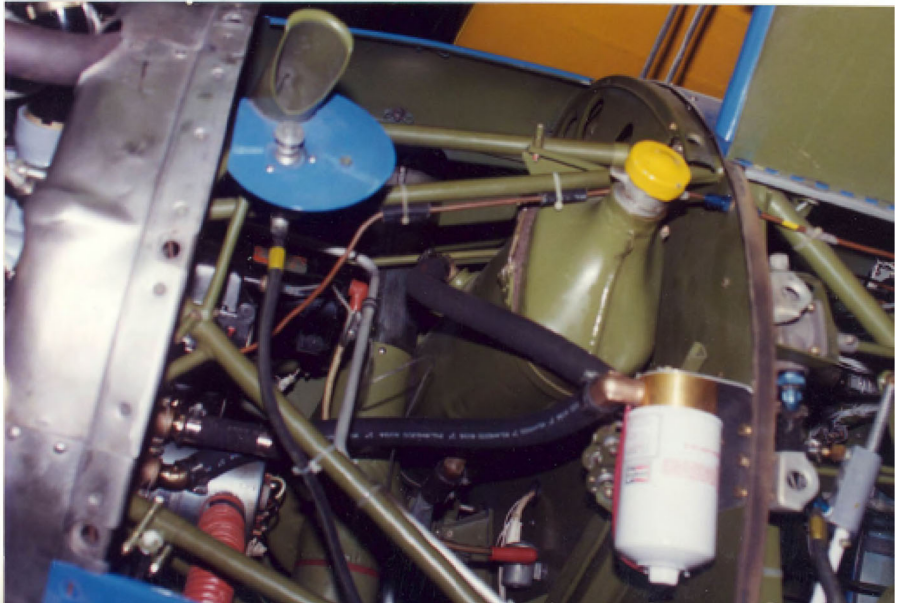
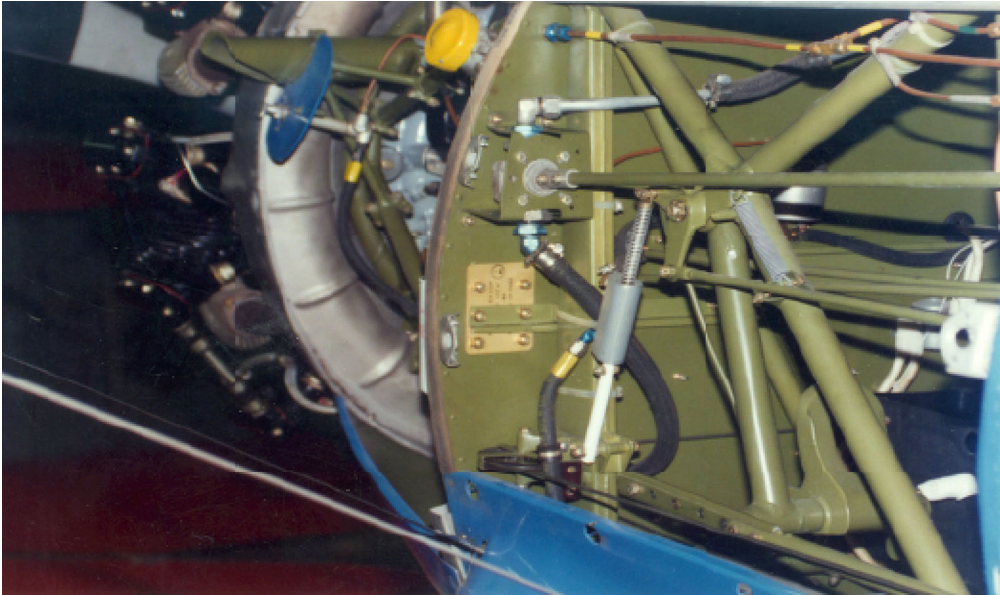
SURPLUS EQUIPMENT	WEIGHT	ARM-INCHES		MOMENT - IN/LBS.	
EQUIPMENT - ITEM	LBS.	LONG		LONG	
REMOTE OIL FILTER					

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REVISIONS

REV.	DESCRIPTION	BY	DATE

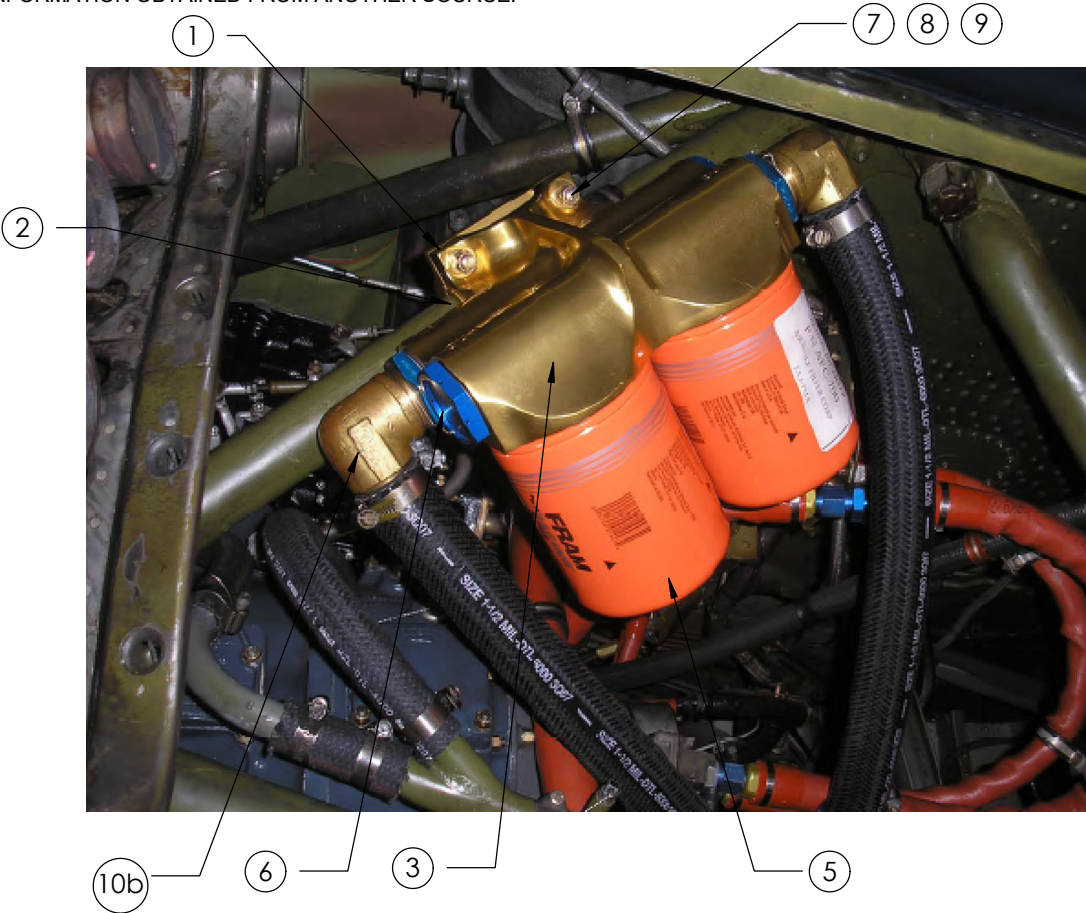


		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Airwolf Filter Corp.		
		DIMENSIONS ARE IN INCHES TOLERANCES: 1 PLACE ±.030 2 PLACE ±.010 3 PLACE ±.005 4 PLACE ±.0005 ANGULAR ±0°30'	DRAWN	GM	12/8/2020	TITLE:	BOEING STEARMAN, OFM-15, Oil Filter Mount Plate	
			APPR. BY	BDA	12/8/2020			
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H	Q.A.			SIZE A	DWG. NO. AFC-D-0019	REV IR
		MATERIAL						
NEXT ASSY	USED ON	FINISH	COMMENTS:					
APPLICATION						SCALE:		

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



TYPICAL RADIAL ENGINE INSTALLATION SHOWN
MOUNTED ON ENGINE MOUNT TUBE

MATERIAL LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	OFB-19-12	CLAMP PLATE OIL FILTER BASE	1
2e	OFB-19-17	1.500" BUSHING SET	1
3	OFB-19-11	ADAPTER BODY OIL FILTER BASE	1
5	AFC-700	OIL FILTER	2
6	AN814-24DL	CAP	2
7	AN6-17A	3/8" BOLT, 1-7/8" LONG	4
8	AN960-616	3/8" FLAT WASHER	8
9	MS20365-624A	3/8" LOCKNUT	4
10a	AN833-24D OR	90° BULKHEAD FLARE FITTING	2
10b	AN838-24D	90° BULKHEAD SLIP-ON FITTING	2

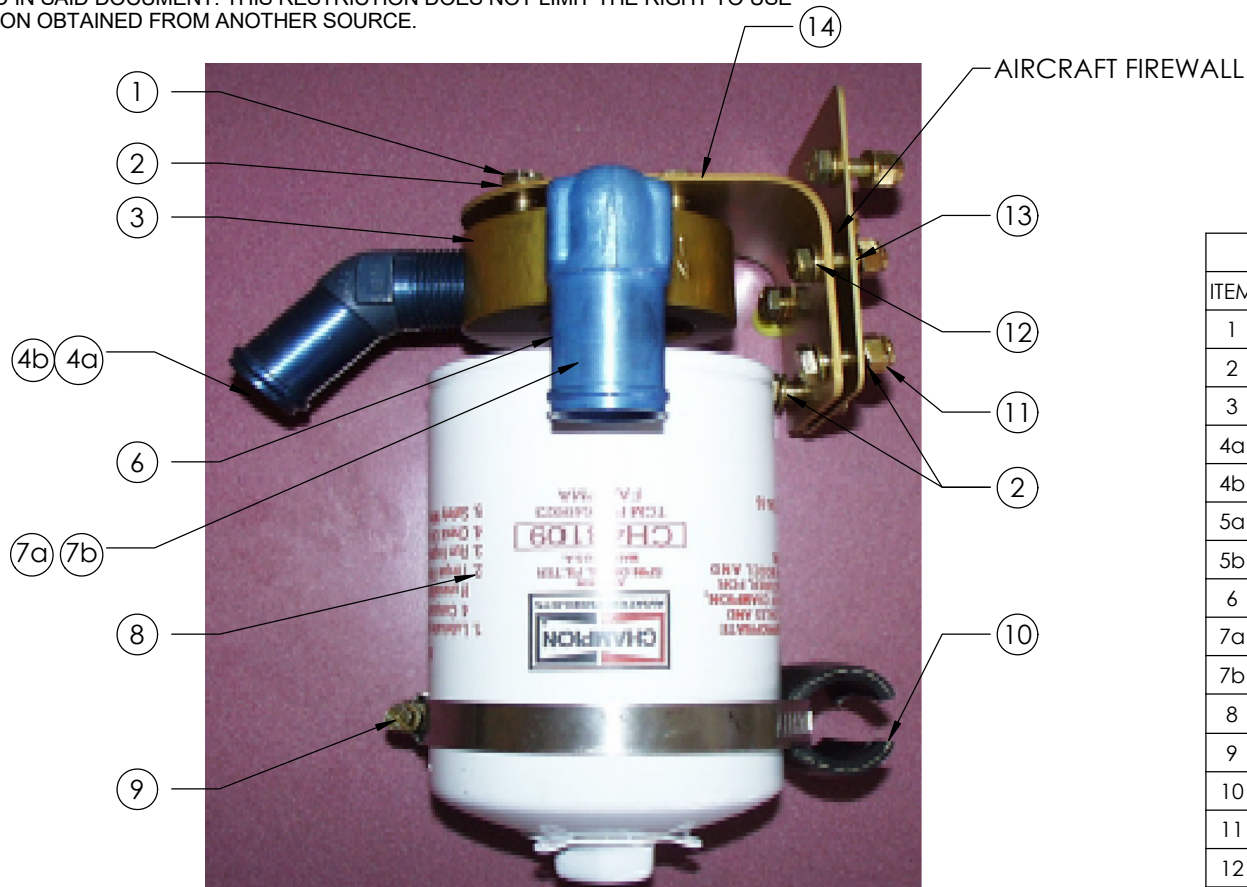
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Airwolf Filter Corp.		
		DIMENSIONS ARE IN INCHES	DRAWN	GM	12/8/2020	TITLE: INSTALLATION DRAWING, OFB-19 OIL FILTER ADAPTER, ENGINE TUBE		
		TOLERANCES:	APPR. BY	BDA	12/8/2020			
		1 PLACE ±.030	ENG APPR.					
		2 PLACE ±.010	MFG APPR.					
		3 PLACE ±.005						
		4 PLACE ±.0005						
		ANGULAR ±0°30'						
		INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H	Q.A.					
		MATERIAL				SIZE	DWG. NO.	REV
						A	AFC-D-0057	A
NEXT ASSY	USED ON	FINISH	COMMENTS:					
APPLICATION						SCALE:	WEIGHT:	SHEET 1 OF 1

AIRWOLF FILTER CORP PROPRIETARY

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REVISIONS

REV.	DESCRIPTION	BY	DATE



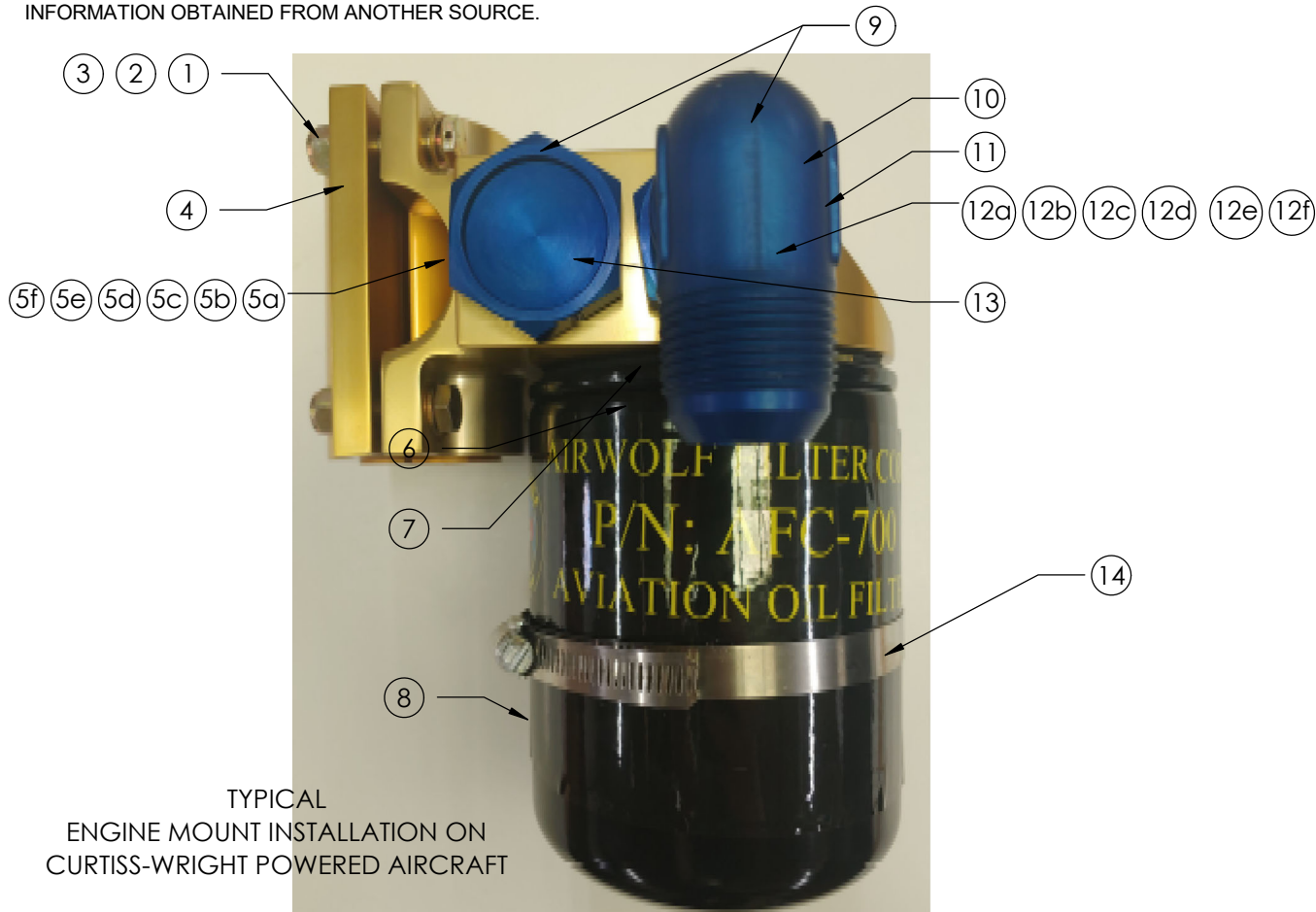
MATERIAL LIST

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	AN4H-4A	BOLT, DRILLED HEAD	4
2	AN960-416	FLAT WASHER	16
3	OFB-15	OIL FILTER BASE	1
4a	AN844-16D	HOSE ELBOW, 45°	2
4b	AN844-12D	HOSE ELBOW, 45°	2
5a	AN840-16D	HOSE FITTING, STRAIGHT	2
5b	AN840-12D	HOSE FITTING, STRAIGHT	2
6	OFS-10	OIL FILTER STUD	1
7a	AN842-16D	HOSE ELBOW, 90°	2
7b	AN842-12D	HOSE ELBOW, 90°	2
8	AFC-600	OIL FILTER, LONG, OR EQUIVALENT (CHAMPION CH48109)	1
9	QS100M52H	HOSE CLAMP, 3-1/4"	1
10	MIL6000-3/4-2	DAMPENER	1
11	MS20365-428A	LOCKNUT	6
12	AN4-5A	BOLT	6
13	DBL-10	DOUBLER PLATE	1
14	OFM-11	OIL FILTER MOUNT PLATE, VERTICAL	1

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Airwolf Filter Corp.	
		DIMENSIONS ARE IN INCHES		DRAWN	GM	12/8/2020	TITLE: ASSEMBLY DRAWING OFB-15 OIL FILTER ADAPTER, FIREWALL - VERTICAL
		TOLERANCES:		APPR. BY	BDA	12/8/2020	
		1 PLACE ±.030		ENG APPR.			
		2 PLACE ±.010		MFG APPR.			
		3 PLACE ±.005		Q.A.			
		4 PLACE ±.0005					
		ANGULAR ±0°30'					
		INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H					
		MATERIAL					
NEXT ASSY	USED ON	FINISH	COMMENTS:		SIZE A	DWG. NO. AFC-D-0059	REV IR
APPLICATION					SCALE:	WEIGHT:	SHEET 1 OF 1

AIRWOLF FILTER CORP PROPRIETARY

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REVISIONS

REV.	DESCRIPTION	BY	DATE

MATERIAL LIST

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	AN5H-12A	BOLT, 5/16" 1-1/4" LONG	4
2	AN960-516	WASHER, FLAT	8
3	MS2035-516	NUT, LOCK	4
4	OFB-18-12	CLAMP PLATE, OIL FILTER BASE	1
5a or	OFB-18-13	1.00" BUSHING SET	1
5b or	OFB-18-14	1.125" BUSHING SET	1
5c or	OFB-18-15	1.250" BUSHING SET	1
5d or	OFB-18-16	1.375" BUSHING SET	1
5e or	OFB-18-17	1.500" BUSHING SET	1
5f or	OFB-18-18	1.625" BUSHING SET	1
6	OFB-18-11	ADAPTER BODY, OIL FILTER BASE	1
7	OFS-12	STUD, FILTER	1
8	AFC-700	FILTER	1
9	M83248/1-916	VITON O-RING	4
10	MS28773-916	GASKET, TEFLON BOSS	2
11	AN6289-16D	NUT, BULKHEAD	2
12a or	AN833-16D	90 BULKHEAD FITTING, FLARED ENDS	2
12b or	AN837-16D	45 BULKHEAD FITTING, FLARED ENDS	2
12c or	AN838-16D	90 BULKHEAD FITTING, MIL6000 HOSE	2
12d or	AN839-16D	45 BULKHEAD FITTING, MIL6000 HOSE	2
12e or	AN807-16D	STRAIGHT TUBE TO HOSE	2
12f or	AN815-16D	UNION	2
13	AN814-16D	PLUG	2
14	QS100M76H	CLAMP, SCREW 5-1/2"	1

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:1 PLACE ± 0.30
2 PLACE ± 0.10
3 PLACE ± 0.05
4 PLACE ± 0.005
ANGULAR $\pm 0^{\circ}30'$ INTERPRET GEOMETRIC
TOLERANCING PER: ANSY Y 14.5H

MATERIAL

FINISH

NAME	DATE
DRAWN	GM 12/8/2020
APPR. BY	BDA 12/8/2020
ENG APPR.	
MFG APPR.	
Q.A.	

COMMENTS:

Airwolf Filter Corp.

TITLE:

INSTALLATION DRAWING
OFB-18 OIL FILTER ADAPTER,
ENGINE TUBE

SIZE	DWG. NO.	REV
A	AFC-D-0060	IR
SCALE:	WEIGHT:	SHEET 1 OF 1

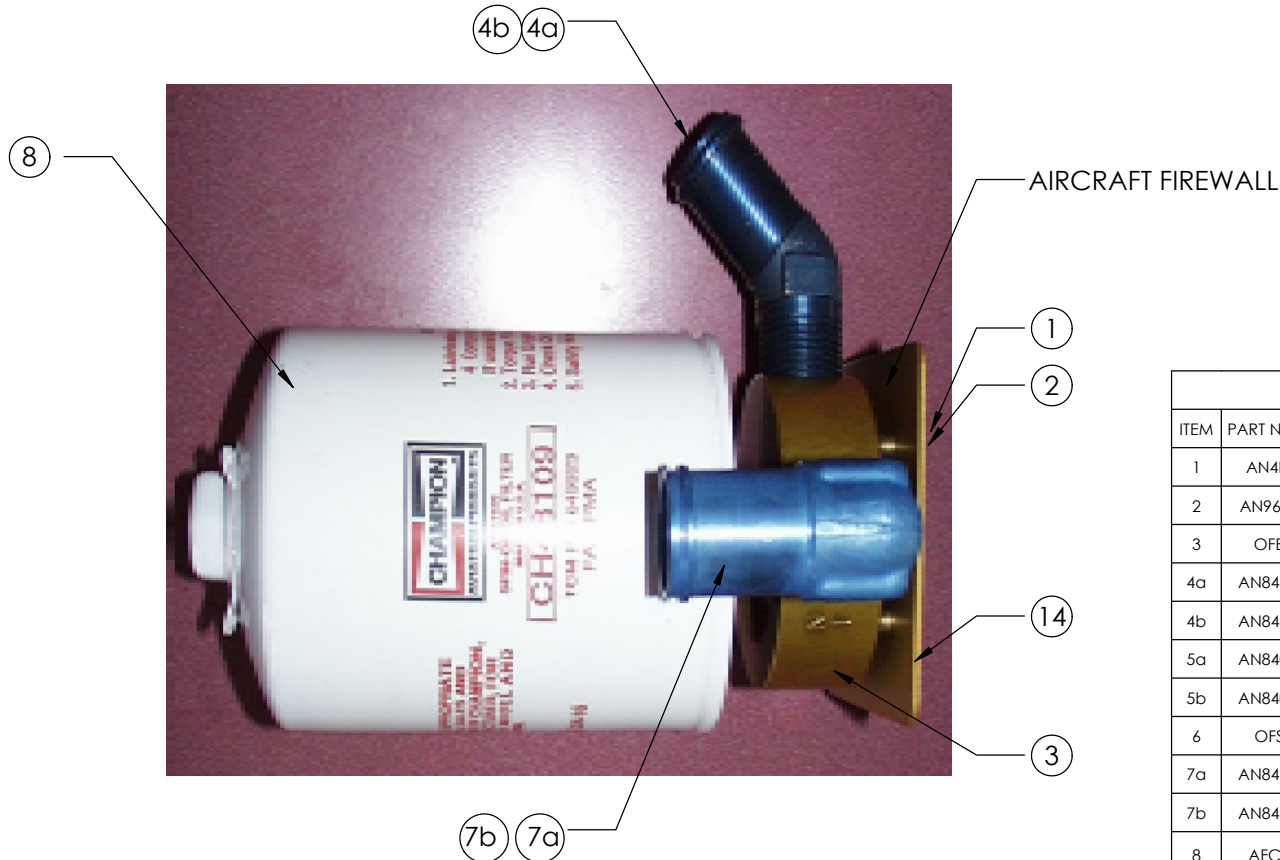
NEXT ASSY	USED ON	APPLICATION

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REVISIONS

REV.	DESCRIPTION	BY	DATE



MATERIAL LIST

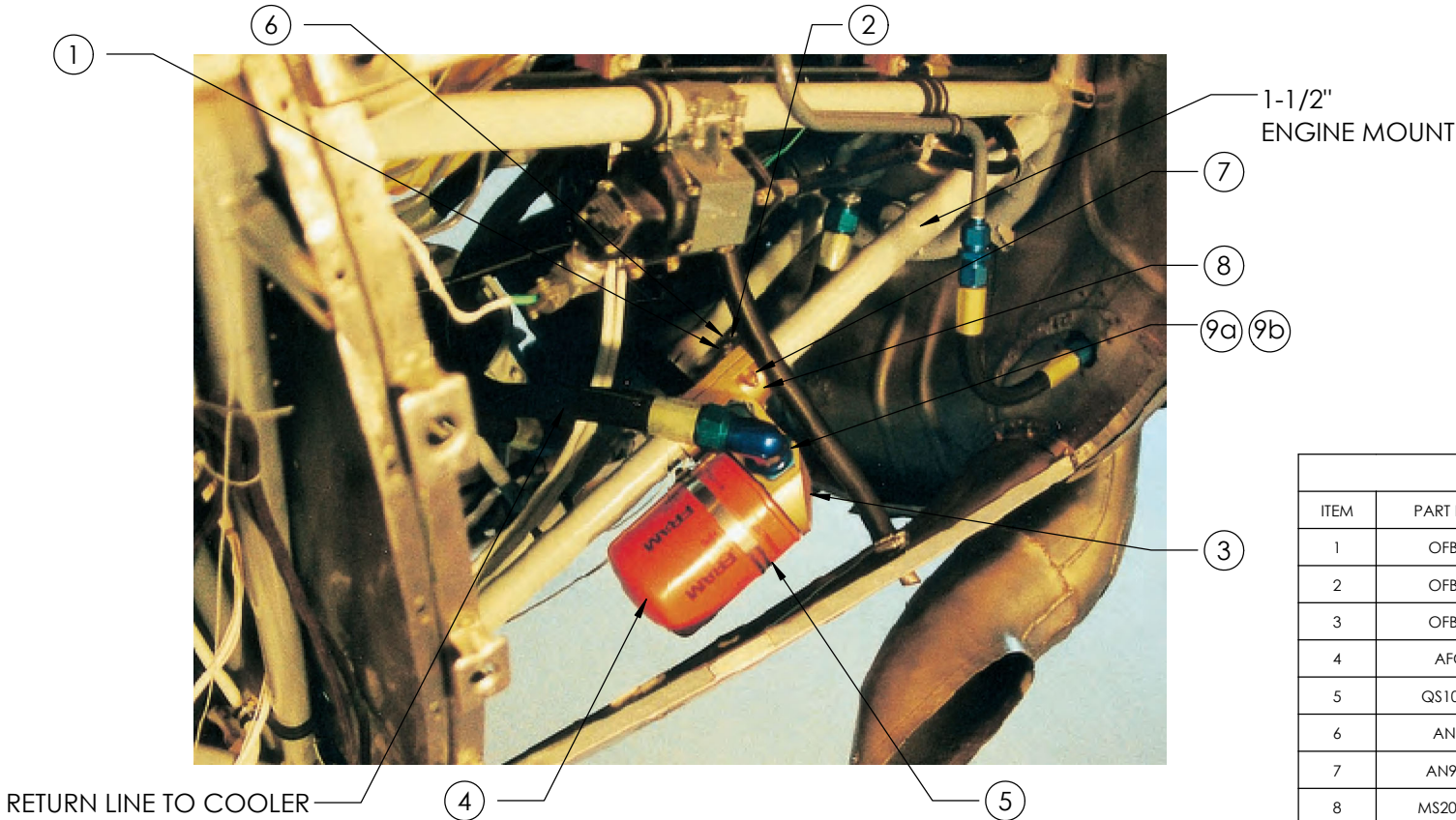
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	AN4H-4A	BOLT, DRILLED HEAD	4
2	AN960-416	FLAT WASHER	4
3	OFB-15	OIL FILTER BASE	1
4a	AN844-16D	HOSE ELBOW, 45°	2
4b	AN844-12D	HOSE ELBOW, 45°	2
5a	AN840-16D	HOSE FITTING, STRAIGHT	2
5b	AN840-12D	HOSE FITTING, STRAIGHT	2
6	OFS-10	OIL FILTER STUD	1
7a	AN842-16D	HOSE ELBOW, 90°	2
7b	AN842-12D	HOSE ELBOW, 90°	2
8	AFC-600	OIL FILTER, LONG, OR EQUIVALENT (CHAMPION CH48109)	1
14	OFM-10	OIL FILTER MOUNT PLATE, HORIZONTAL	1

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Airwolf Filter Corp. TITLE: ASSEMBLY DRAWING OFB-15 OIL FILTER ADAPTER, FIREWALL - HORIZONTAL	
		DIMENSIONS ARE IN INCHES		DRAWN	GM		
		TOLERANCES:		APPR. BY	BDA		
		1 PLACE ±.030		ENG APPR.			
		2 PLACE ±.010		MFG APPR.			
		3 PLACE ±.005		Q.A.			
		4 PLACE ±.0005					
		ANGULAR ±0°30'					
		INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H					
		MATERIAL				SIZE A	DWG. NO. AFC-D-0061
		FINISH		COMMENTS:		REV IR	
NEXT ASSY	USED ON					SCALE:	WEIGHT:
APPLICATION						SHEET 1 OF 1	

AIRWOLF FILTER CORP PROPRIETARY

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REVISIONS			
REV.	DESCRIPTION	BY	DATE



RETURN LINE TO COOLER

TYPICAL RADIAL ENGINE INSTALLATION SHOWN MOUNTED ON T-6 TEXAN

MATERIAL LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	OFB-18-12	CLAMP PLATE OIL FILTER BASE	1
2	OFB-18-17	1.500" BUSHING SET	1
3	OFB-18-11	ADAPTER BODY OIL FILTER BASE	1
4	AFC-700	OIL FILTER	1
5	QS100M52H	5-1/2" HOSE CLAMP SAFETY WIRE ATTACHMENT	1
6	AN5-13A	5/16" BOLT, 1-3/8" LONG	4
7	AN960-516	5/16" FLAT WASHER	8
8	MS20365-516	5/16" LOCKNUT	4
9a	AN833-16D	90° BULKHEAD TO FLARE	2
9b	AN838-16D	90° BULKHEAD TO HOSE	2

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: 1 PLACE ±.030 2 PLACE ±.010 3 PLACE ±.005 4 PLACE ±.0005 ANGULAR ±0°30'		NAME	DATE	Airwolf Filter Corp.			
			DRAWN	GM	12/8/2020				
			APPR. BY	BDA	12/8/2020	TITLE: INSTALLATION DRAWING OFB-18 OIL FILTER ADAPTER, ENGINE TUBE			
			ENG APPR.						
			MFG APPR.						
		INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H	Q.A.						
		MATERIAL				SIZE	DWG. NO.		REV
NEXT ASSY	USED ON	FINISH	COMMENTS:			A	AFC-D-0062		IR
APPLICATION						SCALE:	WEIGHT:		SHEET 1 OF 1