



# AIRWOLF FILTER CORP.

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<http://www.airwolf.com> / Email: [support@airwolf.com](mailto:support@airwolf.com)



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.

FAA - Chicago Aircraft Certification Office (CHI-ACO)  
Engine and Propeller Division  
2300 East Devon Avenue  
Des Plaines, IL 60018  
(847) 294-7358 / (847) 294-7834 Fax

## FAA APPROVED

*CF*  
OCT 31 2012

CHICAGO AIRCRAFT  
CERTIFICATION OFFICE  
CENTRAL REGION

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.

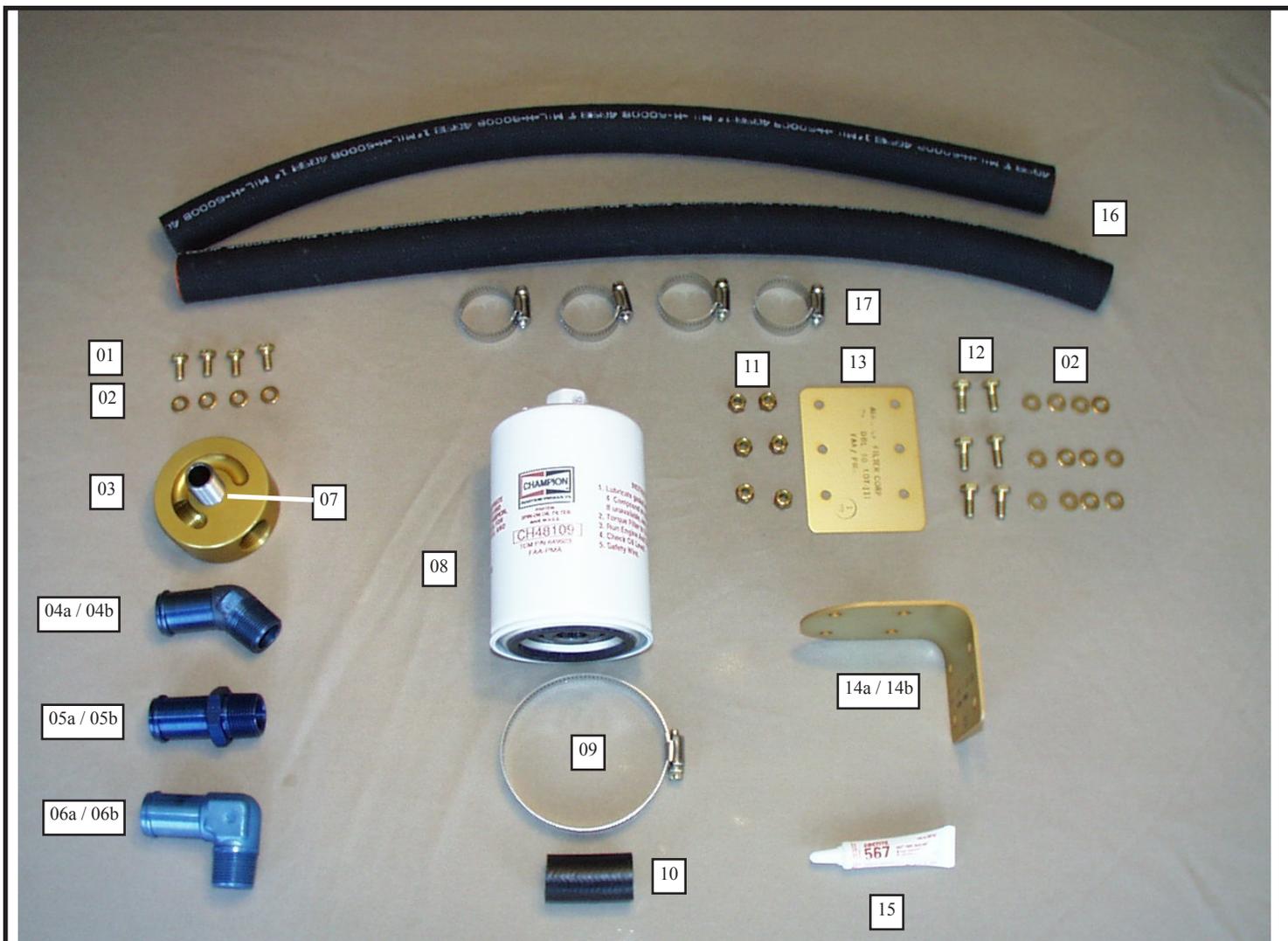
### DATA PERTINENT TO ALL INSTALLATIONS

**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 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.**

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

Thank you for your help.

*Airwolf Filter Corp*



**Applicability:**

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

**First Release:**

09/01/99

**Revision:**

B

**Date:**

11/11/10

**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:** Curtiss-Wright, Jacobs, Kinner, Ranger, & Warner powered Aircraft having firewalls of .021 ASTM A527 galvanized steel or equivalent.

**First Release:** 09/01/99

**Revision:** B

**Date:** 11/11/10

**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.

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

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

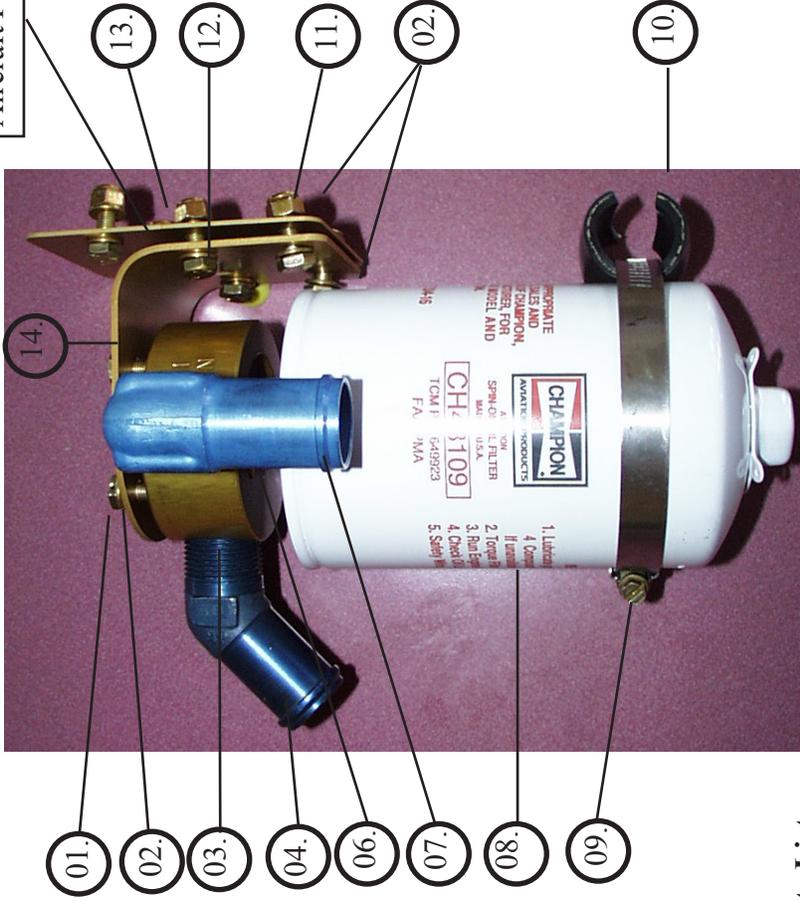
**USE LOCTITE® 567 PST TEFLON THREAD SEALANT BEFORE INSTALLATION OF FITTINGS. DO NOT ASSEMBLE FITTINGS INTO OIL FILTER BASE WITHOUT SEALANT OTHERWISE GALLING OF MATERIAL WILL RESULT.**

**\*\*\*\*\* 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

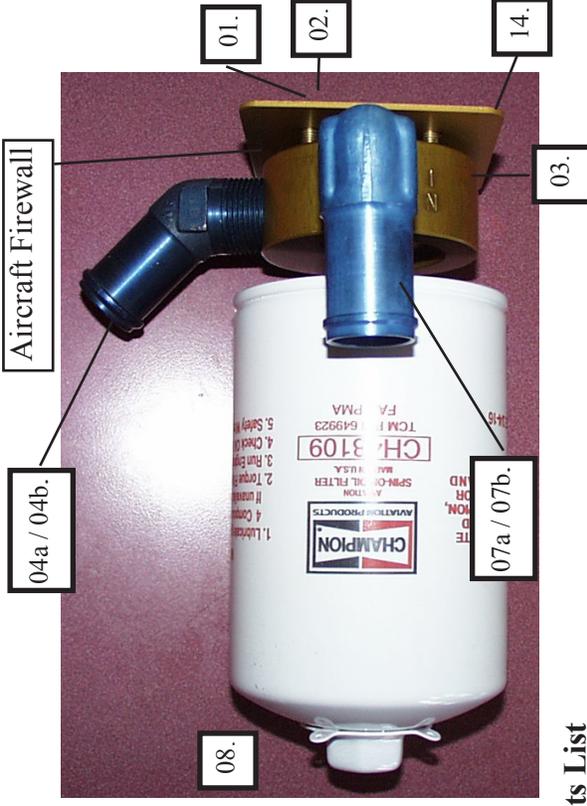
## VERTICAL INSTALLATION



### 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

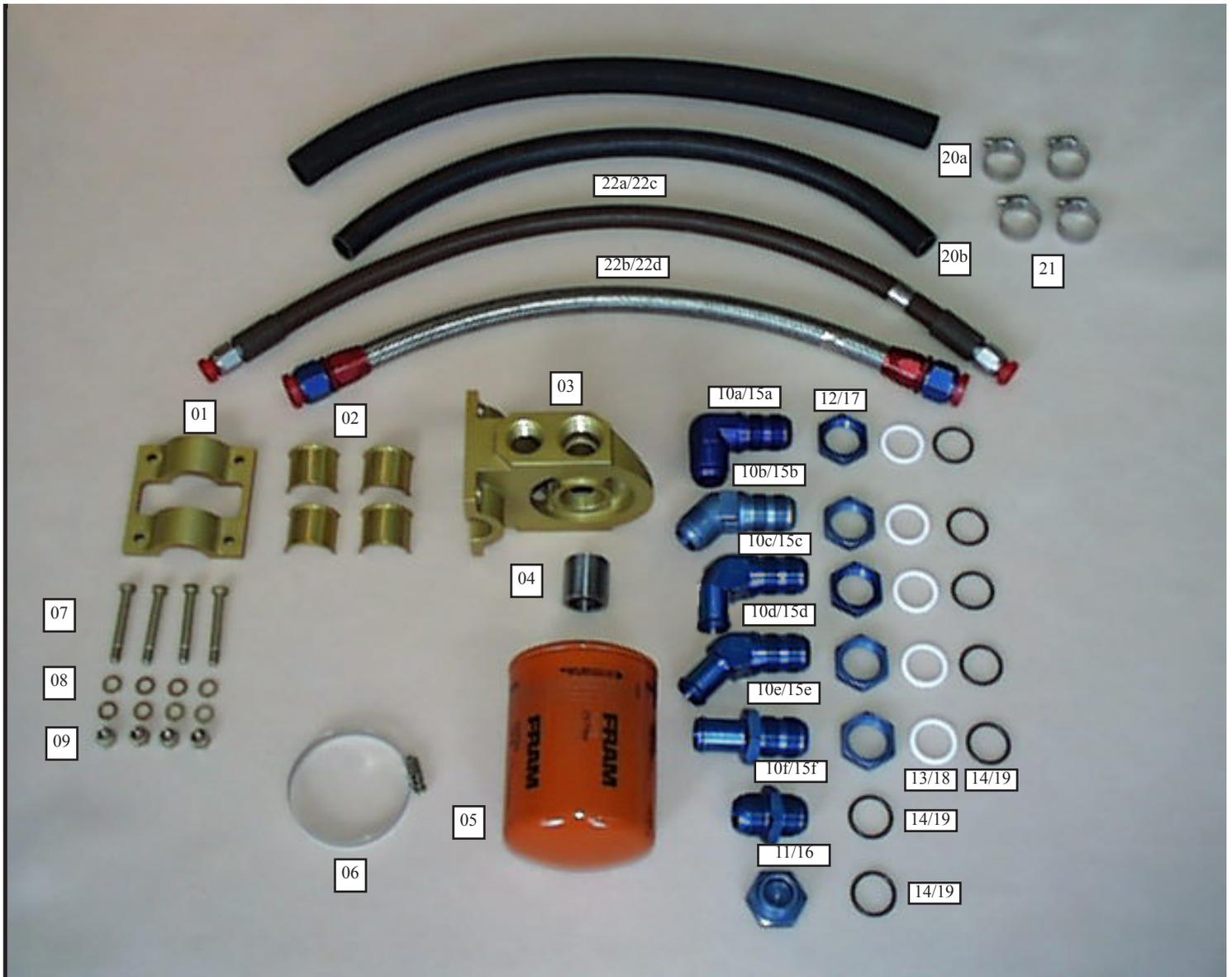


### Parts List

- 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:** Curtiss-Wright powered Aircraft having firewalls of .021 ASTM A527 galvanized steel or equivalent.

**First Release:** 09/01/99  
**Revision:** B  
**Date:** 11/11/10

#### 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:** Curtiss-Wright powered Aircraft having firewalls  
of .021 ASTM A527 galvanized steel or equivalent.

**First Release:** 09/01/99  
**Revision:** B  
**Date:** 11/11/10

**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.**

**\*\*\*\*\* WARNING (E) \*\*\*\*\***

**NEVER, EVER INSTALL AN OIL FILTER ON THE ENGINE OIL PUMP INLET. THE OIL LINES CAN COLLAPSE, THEREBY STARVING THE ENGINE OF OIL.**

**THE OIL ROUTING AND OIL FLOW IS ALWAYS;**

**ENGINE SCAVENGE PUMP OUTLET ---> AIRWOLF OIL FILTER ---> OIL COOLER [if applicable] ---> OIL TANK.**

**Installation Instructions No. AFC-K017-B-II**

**Applicability:** Curtiss-Wright powered aircraft  
having firewall of .021 ASTM A527 galvanized steel or equivalent.

**First Release:** 09/01/00  
**Revision:** B  
**Date:** 11/11/10

**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 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.

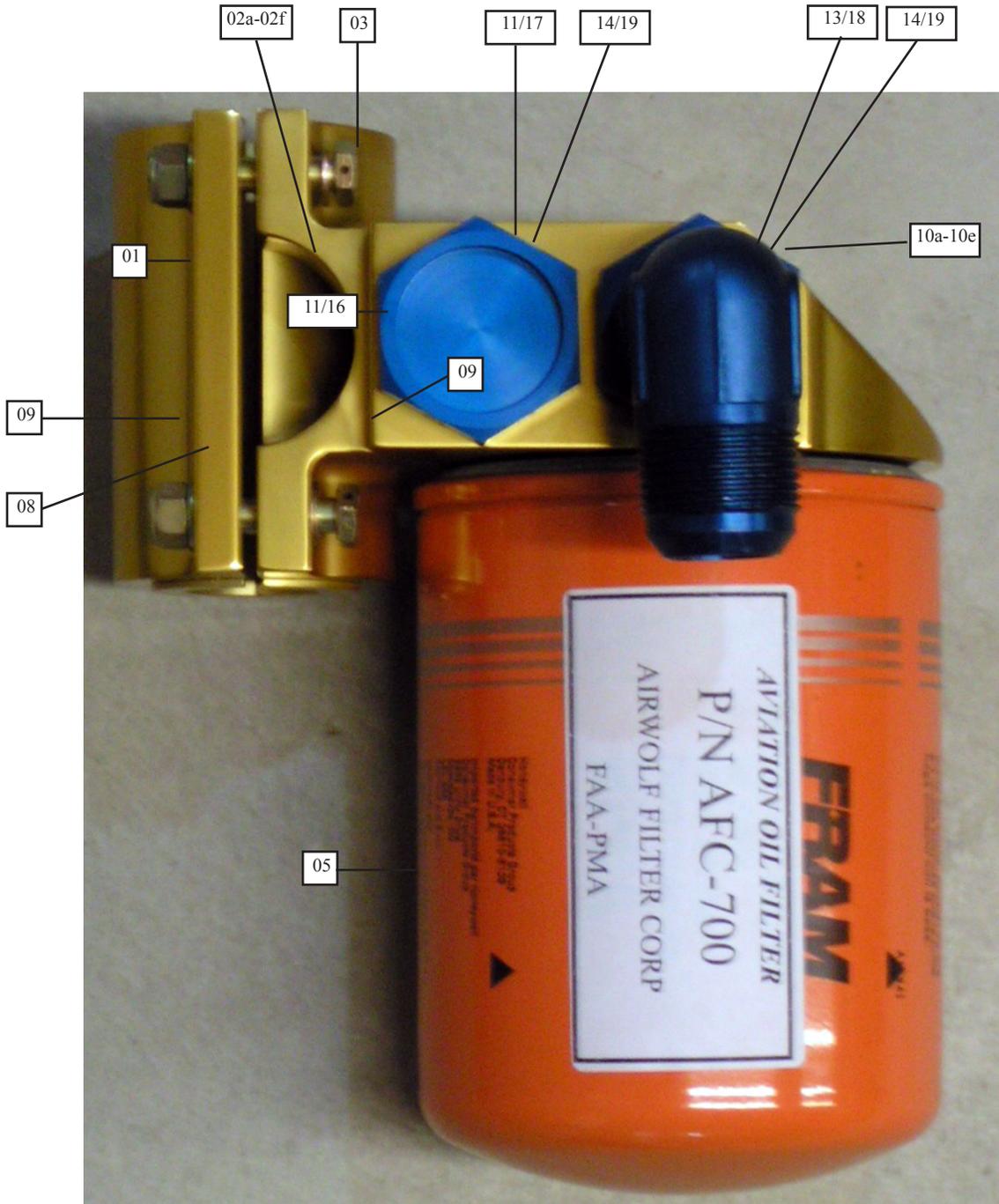
11. Lightly oil assembled bulkhead fittings and install into appropriate inlet/outlet holes of oil filter base (03) but do not tighten at this time.

**\*\*\*\*\* 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 to 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  
ON CURTISS-WRIGHT POWERED  
AIRCRAFT**

**Airwolf Filter Corp.**

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

	Drawing# AFC-D-0050	



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

**Dated: 10/17/2022**

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



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

**TO THE MECHANIC:**

This P/N AFC-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 POSITION. 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

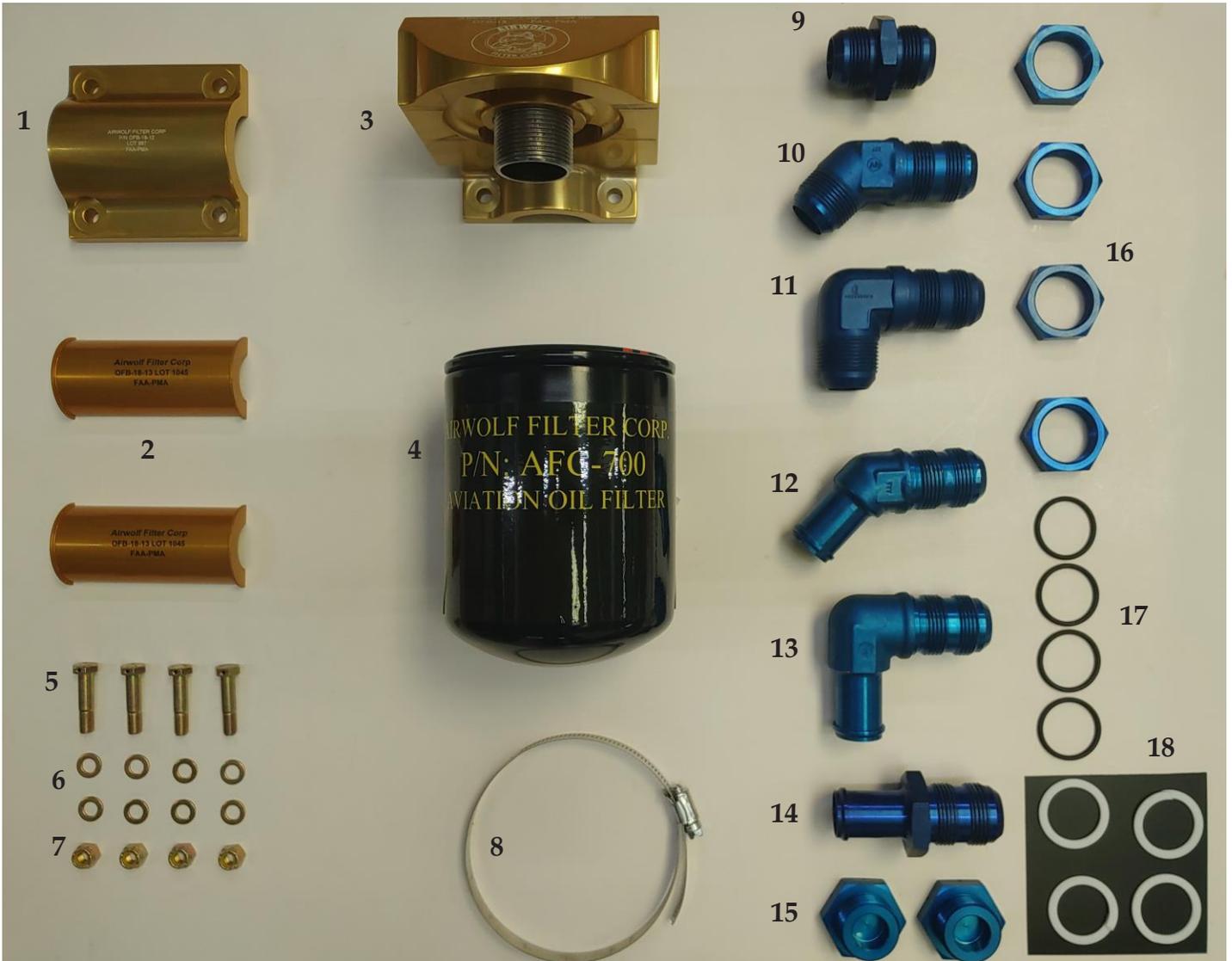
**Applicability: Installation of the remote oil filter kit on Boeing Model 75 series aircraft with Curtis-Wright, Jacobs, Kinner, Ranger, & Warner Engine on aircraft having firewalls of .021" ASTM A527 galvanized steel or equivalent.**

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 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 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.

**OBSOLETE**

**OBSOLETE**

**OBSOLETE**

**WEIGHT AND BALANCE REPORT**

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

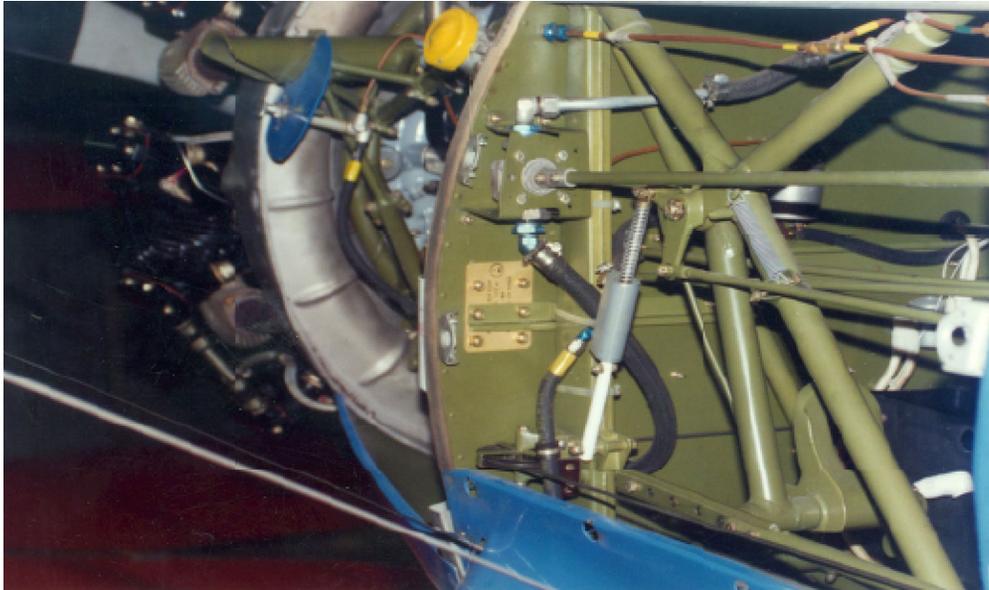
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**REVISIONS**

REV.	DESCRIPTION	BY	DATE

Part Number: AFC-K017



Page 16 of 21

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

5

4

3

2

1

Date: 10/17/2022

**OBSOLETE**

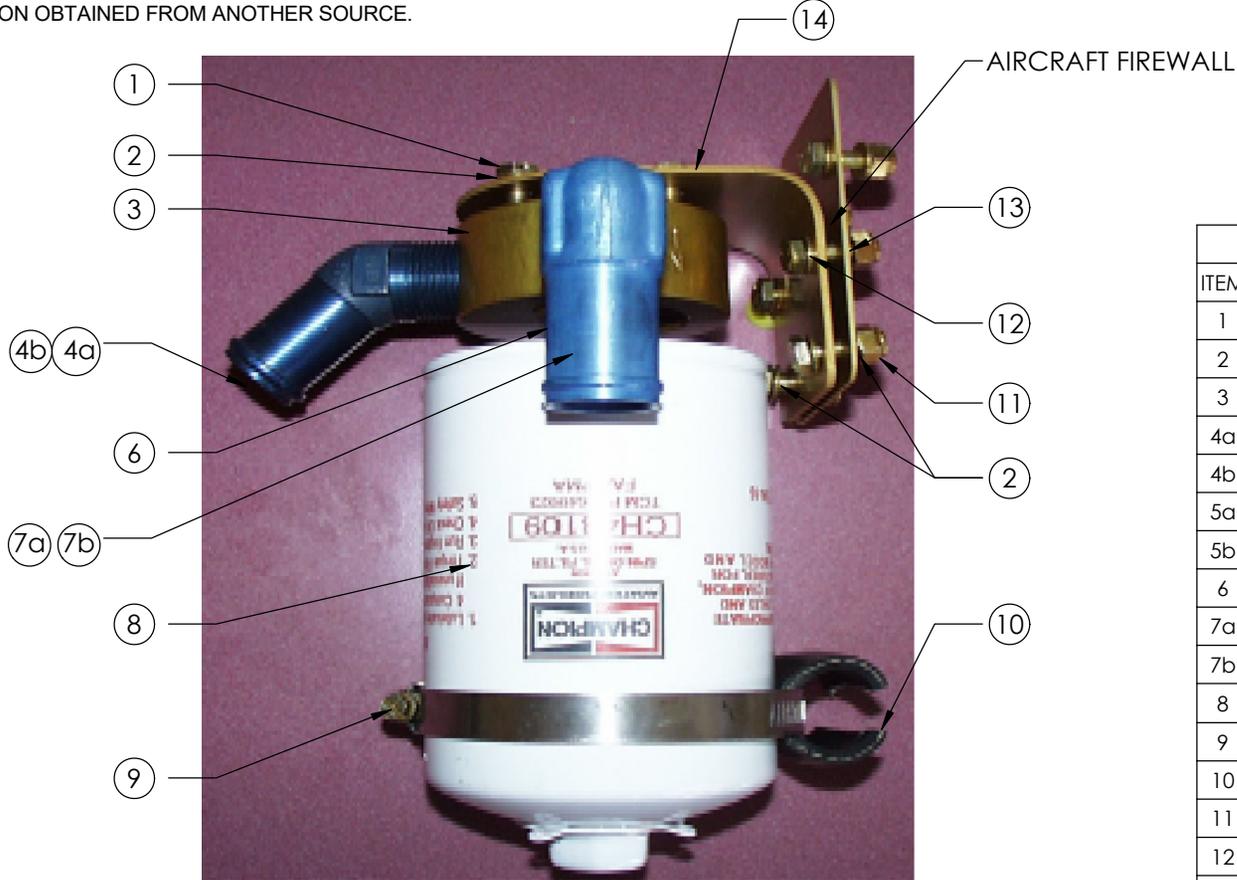
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**REVISIONS**

REV.	DESCRIPTION	BY	DATE

Part Number: AFC-K017



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

Date: 10/17/2022

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

5

4

3

2

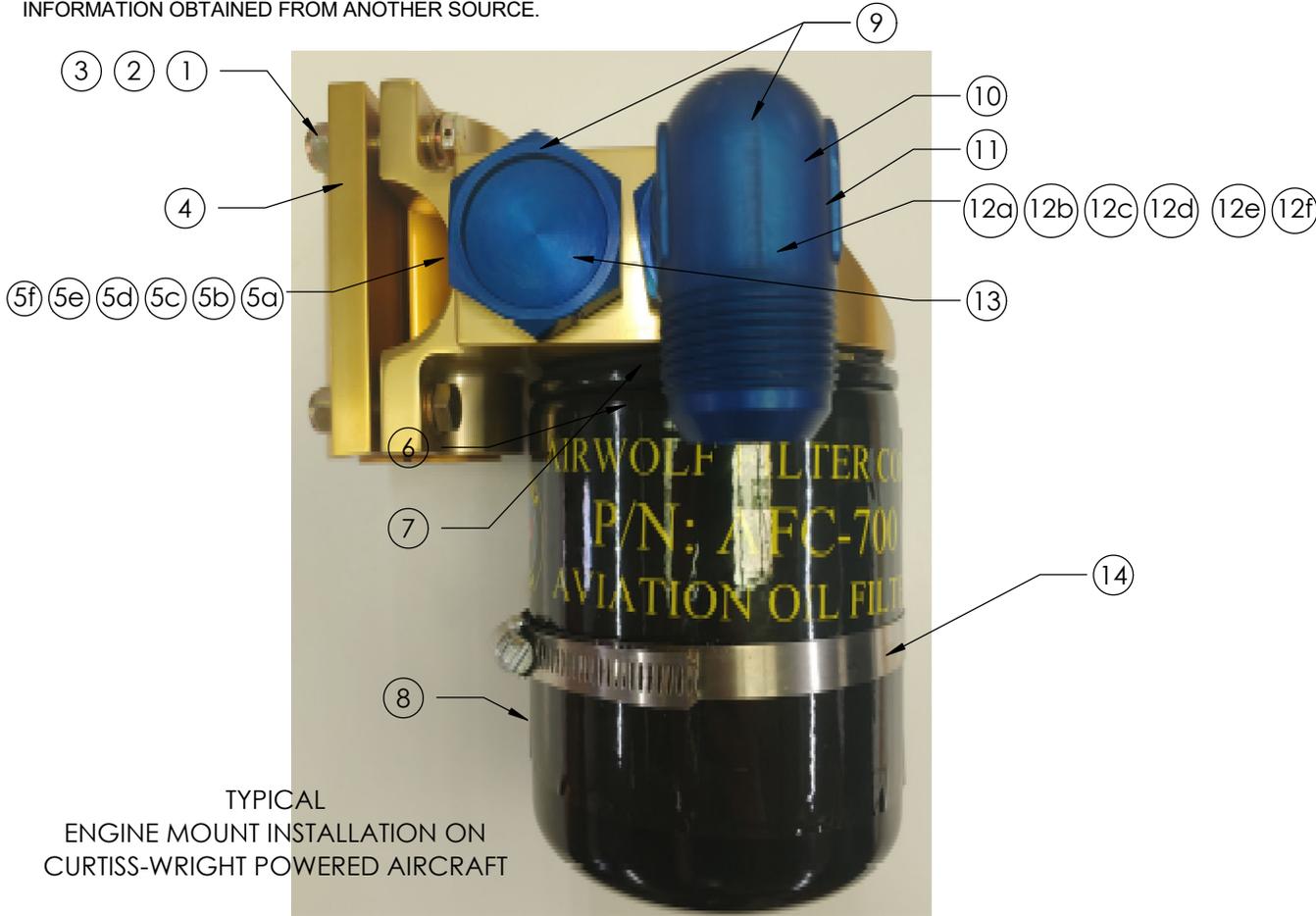
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**REVISIONS**

REV.	DESCRIPTION	BY	DATE



TYPICAL ENGINE MOUNT INSTALLATION ON CURTISS-WRIGHT POWERED AIRCRAFT

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:	NAME	DATE
DIMENSIONS ARE IN INCHES	DRAWN	GM 12/8/2020
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		
FINISH	COMMENTS:	
NEXT ASSY	USED ON	
APPLICATION		

<b>Airwolf Filter Corp.</b>		
TITLE: <b>INSTALLATION DRAWING OFB-18 OIL FILTER ADAPTER, ENGINE TUBE</b>		
SIZE <b>A</b>	DWG. NO. <b>AFC-D-0060</b>	REV <b>IR</b>
SCALE:	WEIGHT:	SHEET 1 OF 1



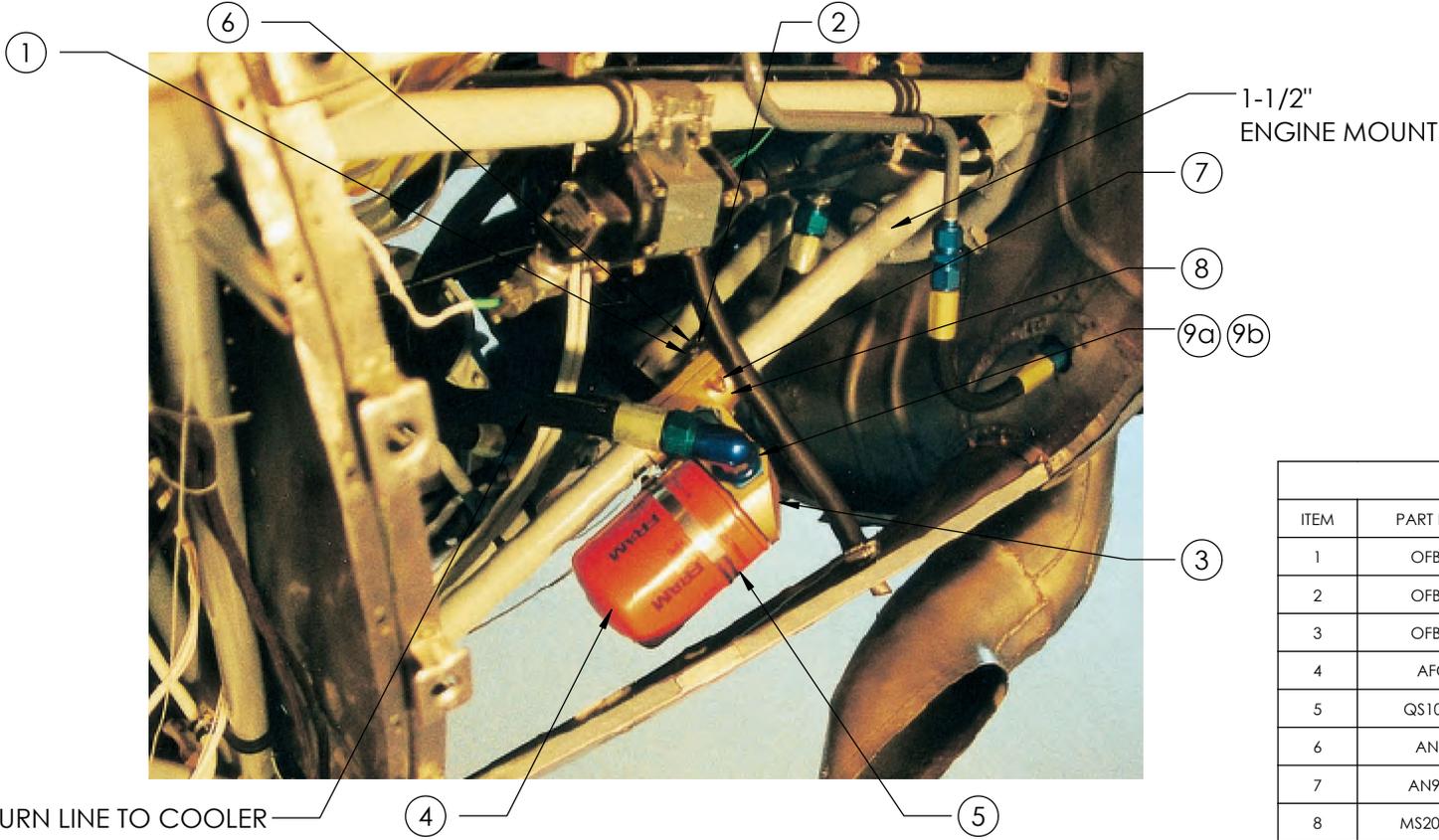
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**REVISIONS**

REV.	DESCRIPTION	BY	DATE

Part Number: AFC-K017



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:	NAME	DATE
		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		
NEXT ASSY	USED ON	FINISH	COMMENTS:	
APPLICATION				

<b>Airwolf Filter Corp.</b>		
TITLE: <b>INSTALLATION DRAWING OFB-18 OIL FILTER ADAPTER, ENGINE TUBE</b>		
SIZE <b>A</b>	DWG. NO. <b>AFC-D-0062</b>	REV <b>IR</b>
SCALE:	WEIGHT:	SHEET 1 OF 1

Date: 10/17/2022