



AIRWOLF FILTER CORP.

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TO THE MECHANIC:

This P/N AFC-K015 remote mount oil filter kit incorporates our generic STC approved for all P&W 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-K015 kit and the STC# SA0128NY. 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 Aircraft Certification Office which will clarify the details. They are 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 Street
Des Plaines, IL 60018
(847) 294-7358 / (847) 294-7834 Fax

FAA APPROVED

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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 the Aircraft Certification Office for them to update the (AML) list on our STC.

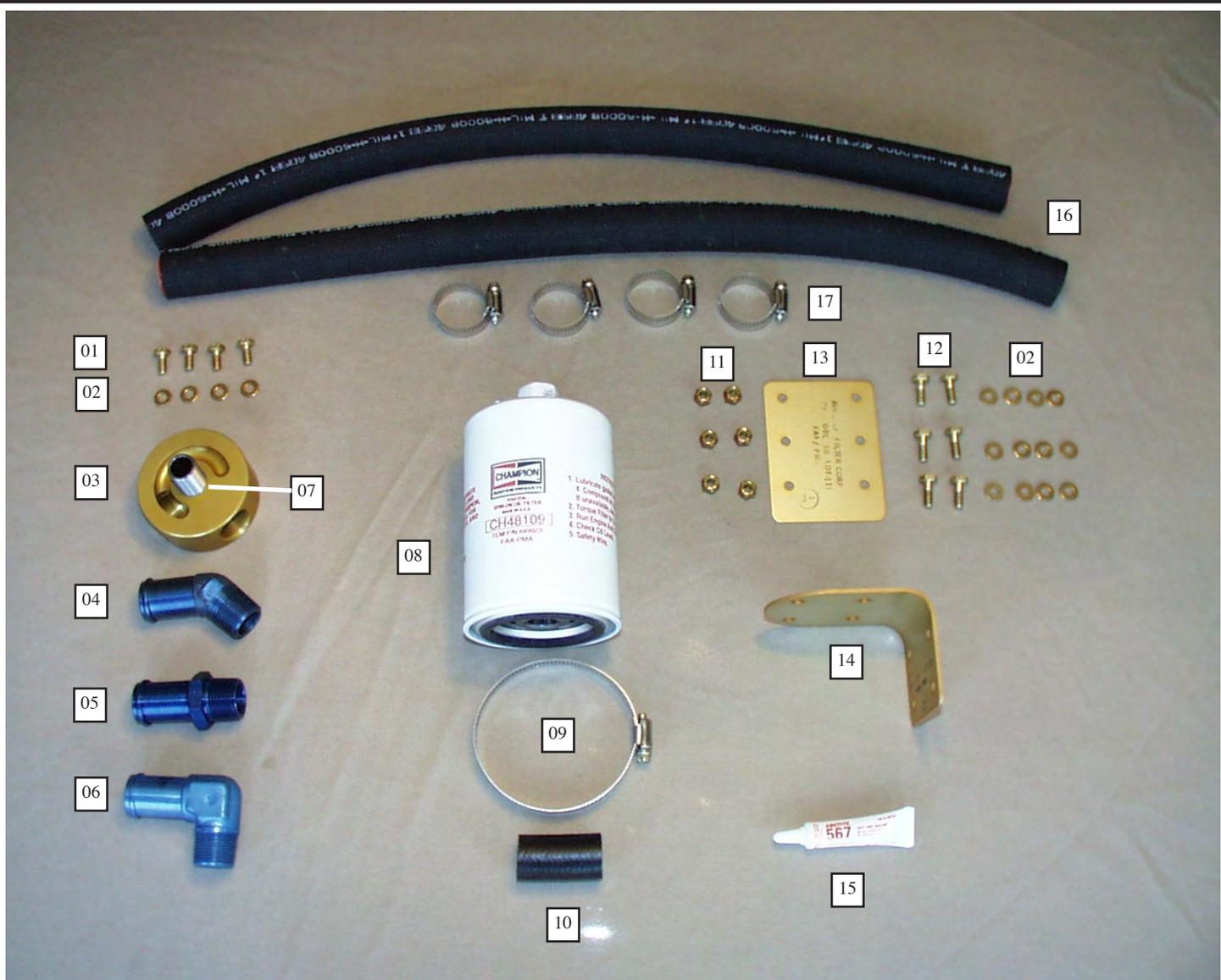
DATA PERTINENT TO ALL INSTALLATIONS

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:

Pratt & Whitney R985 powered Aircraft having firewalls of .021 ASTM A527 galvanized steel or equivalent.

First Release:

09/01/99

Revision:

C

Date:

11/11/10

Parts List No. AFC-K015-PL

01.	AN4H-4A	Bolts, Drilled Head	(4)
02.	AN960-416	Flat Washers	(16)
03.	OFB-15	Oil Filter Base	(1)
04.	AN844-16D	Hose Elbow, 45°	(2)
05.	AN840-16D	Hose Fitting, Straight,	(2)
06.	AN842-16D	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)
14.	OFM-11	Oil Filter Mount Plate, Vertical	(1)
15.	56707	Loctite® 567 PST Teflon Thread Sealant	(1)
16.	MIL6000-1	Mil6000 Hose, 1" I.D.	(2)
17.	AE0000	Firesleeving	
17.	QS100M16H	Hose Clamp, 1"	(4)
18.	AFC-K015-II	Installation Instructions	(1)
19.	AFC-K015-MI	Instructions for Continued Airworthiness	(1)
20.	AFC-K015-PL	Parts List	(1)

Installation of the remote oil filter kit on Boeing Model 75 series aircraft with Pratt & Whitney R985 radial engines.**First Release: 09/01/99**
Revision: C
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 left engine cowl (top and door) and bottom engine cowl.
02. Drain oil (optional).
03. 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 tank.
04. Turn the AN842-16D on top of the oil tank to where it points to the engine primer mounted in the step.
05. 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. (see attached drawing). Drill the hole of the removed screw to 1/4" (.250).
06. Measure 3-9/16" out from a vertical line drawn from the C/L of the left engine mount studs. Using reinforcing 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.

****** SEE WARNING (A) BELOW ******
07. Slip reinforcement plate (DBL-10) between the firewall and stiffeners. The long side goes up.
08. Bolt oil filter base support angle P/N OFM-11 to firewall and reinforcement plate using (6ea) provided AN 4-5A bolts.

****** SEE WARNING (B) BELOW ******
09. Install provided AN842-16D fittings in the oil filter base. The fitting in B hole points horizontal with the filter base. The other points over the first fitting.
10. Bolt oil filter base (OFB-15) to oil Filter Mount Plate, Vertical (22b) using provided AN4H-4A bolts. Oil inlet hole "B" is positioned to the front of the aircraft. Secure bolts with safety wire.

****** SEE WARNING (C) BELOW ******
11. Install one 25" piece of 1" Mil 6000H hose using provided QS100M16H hose clamps. The "B" hole is the oil inlet and goes to the oil pump. The "A" port is the oil outlet and it goes to the oil tank. Tighten clamps.
12. Install oil filter as per manufacturers specifications and safety wire.
13. Using the 2" piece of 3/4" Mil 6000 hose provided, secure to bottom of oil filter with (1) QS100M52W 3-3/4" clamp obtained locally, and locate between bottom of oil filter and existing firewall. This will strengthen the oil filter mount and dampen the vibrations of the engine.
14. Safety wire drain and refill oil tank with 4.4 gals. oil. (If step #2 is omitted this step is not necessary).
15. Run engine and check for leaks.
16. 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.

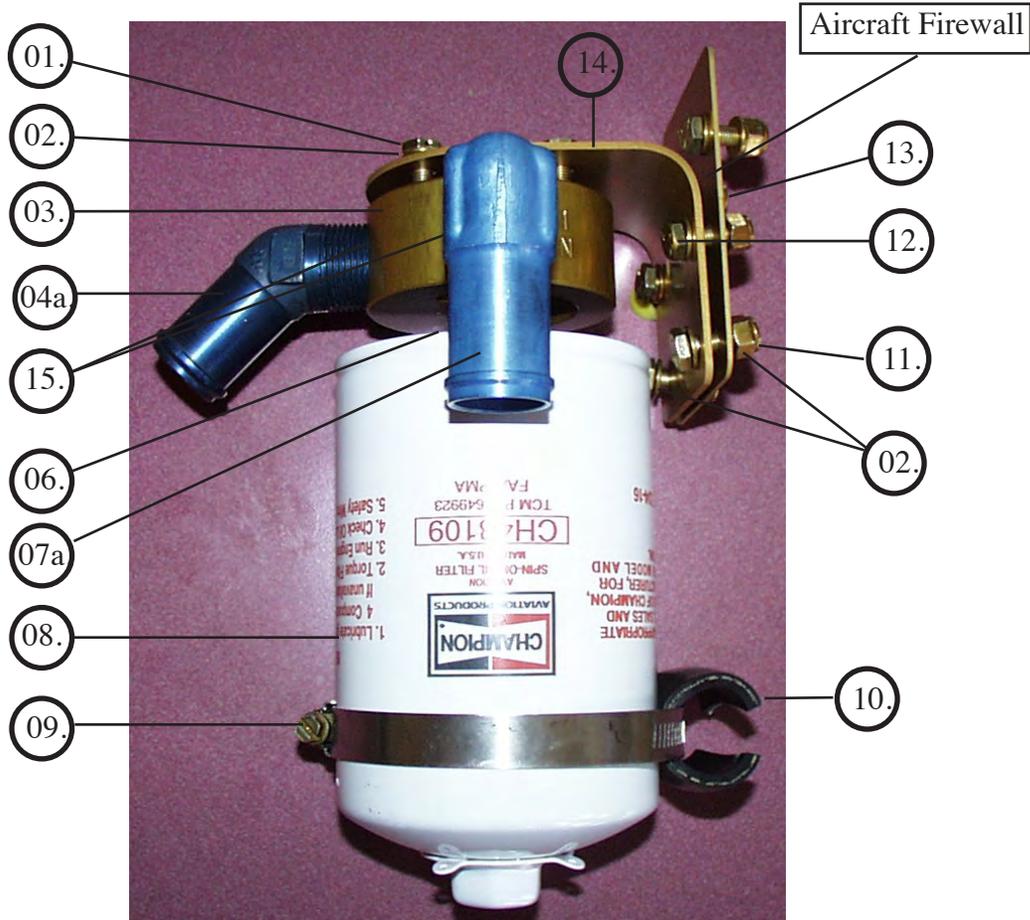
****** WARNING (B) ******

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)

FIREWALL INSTALLATION ON P&W R985 SERIES



Parts List

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

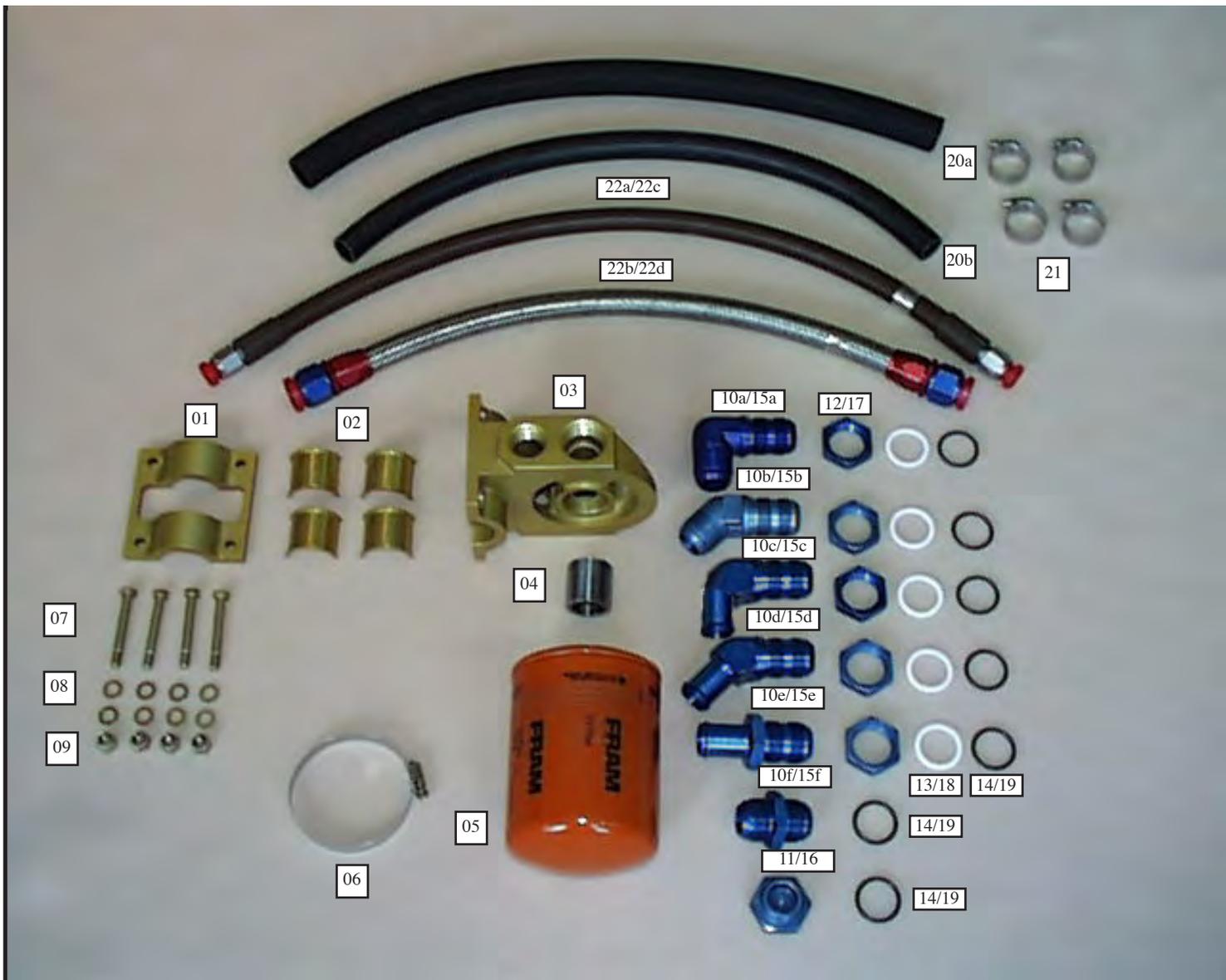
**** WARNING (B) ****

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.

Airwolf Filter Corp.

Assembly Drawing.
Firewall Mounted Oil Filter

Drawing # AFC-D-0049



Oil Filter Kit AFC-K015

Applicability: Pratt & Whitney R985 - R1830 powered Aircraft having firewalls of .021 ASTM A527 galvanized steel or equivalent.

First Release: 09/01/99
Revision: C
Date: 11/11/10

Parts List No. AFC-K015-PL

Index	Part Number	Description	Quantity
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-K015

Applicability: Pratt & Whitney R985 - R1830 powered Aircraft having firewalls of .021 ASTM A527 galvanized steel or equivalent.

First Release: 09/01/99
Revision: C
Date: 11/11/10

Parts List No. AFC-K015-PL (continued)

Index	Part Number	Description	Quantity
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)
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-K015-II	Installation Instructions	(1)
26.	AFC-K015-MI	Maintenance Instructions	(1)
27.	AFC-K015-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) *******

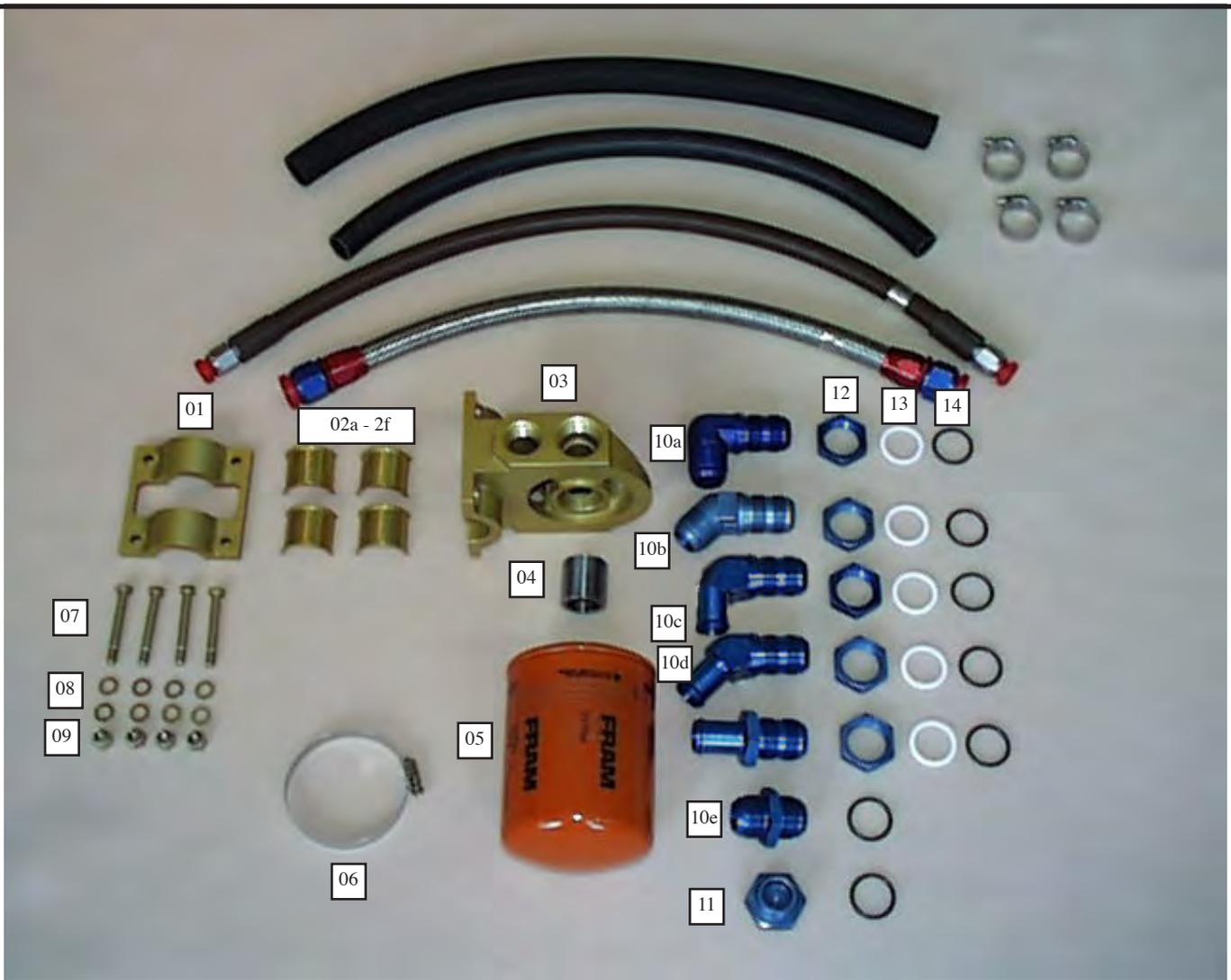
NO SUBSTITUTION OF OIL FILTER ALLOWED. THIS FILTER INCORPORATES AN INTERNAL BYPASS RELIEF VALVE SET TO OPEN TO AIRWOLF'S SPECS. HAS THE LATEST MICROGLAS FILTER TECHNOLOGY WHICH ALLOWS FOR HI FLOW RATES AND HIGH EFFICIENCY, AND HAS AN INTERNAL SCREEN COVERING THE OIL PRESSURE BYPASS VALVE, WHICH HELPS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



Oil Filter Kit AFC-K015

Applicability:

Pratt & Whitney R2000 powered Aircraft having firewalls
of .021 ASTM A527 galvanized steel or equivalent.

First Release:

09/01/99

Reviision:

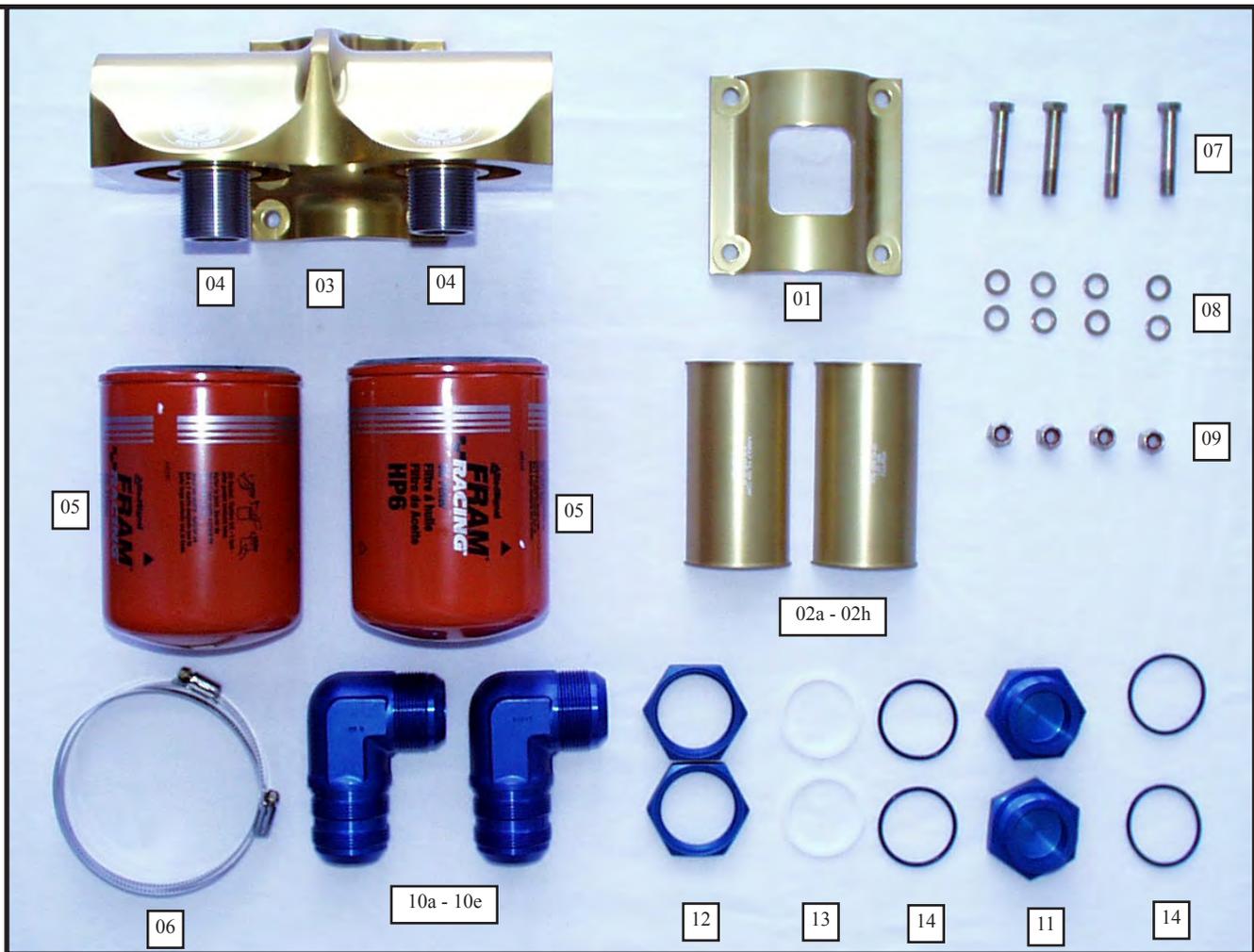
C

Date:

11/11/10

Parts List No. AFC-K015-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-20-11	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	AN833-20D	90° Bulkhead Fitting, Flared Ends	(2)
10b. or	AN837-20D	45° Bulkhead Fitting, Flared Ends	(2)
10c. or	AN838-20D	90° Bulkhead Fitting, MIL6000 Type Hose	(2)
10d. or	AN839-20D	45° Bulkhead Fitting, MIL6000 Type Hose	(2)
10e.	AN815-20D	Union	(2)
11.	AN814-20D	Plug	(2)
12.	AN6289-16D	Bulkhead Nut	(2)
13.	MS28773-920	Teflon Boss Gasket	(2)
14.	M83248/1-920	Viton O-Ring	(2)



Oil Filter Kit AFC-K015

Applicability:

Pratt & Whitney R2800 - R3350 powered Aircraft having firewalls of .021 ASTM A527 galvanized steel or equivalent.

First Release:

09/01/99

Revision:

C

Date:

11/11/10

Parts List No. AFC-K015-PL

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
01.	OFB-19-12	Clamp Plate, Oil Filter Base	(1)
02a. or	OFB-19-17	1.500" Bushing Set	(1)
02b. or	OFB-19-18	1.625" Bushing Set	(1)
02c. or	OFB-19-19	1.550" Bushing Set	(1)
02d. or	OFB-19-20	1.875" Bushing Set	(1)
02e. or	OFB-19-21	2.000" Bushing Set	(1)
02f.	OFB-19-22	2.125" Bushing Set	(1)
02g.	OFB-19-23	2.250" Bushing Set	(1)
02h.	OFB-19-24	2.375" Bushing Set	(1)
03.	OFB-19-11	Adapter Body, Oil Filter Base	(1)
04.	OFS-12	Oil Filter Stud	(2)
05.	AFC-700	Oil Filter	(2)
06.	QS100M76H	5-1/2" Hose Clamp	(2)
07.	AN6-17A	3/8" Bolt, 1-7/8" Long	(4)
08.	AN960-616	3/8" Flat Washer	(8)
09.	MS20365-624A	3/8" Locknut	(4)
10a. or	AN833-24D	90° Bulkhead Fitting, Flared Ends	(AR)
10b. or	AN837-24D	45° Bulkhead Fitting, Flared Ends	(AR)
10c. or	AN838-24D	90° Bulkhead Fitting, MIL6000 Type Hose	(AR)
10d. or	AN839-24D	45° Bulkhead Fitting, MIL6000 Type Hose	(AR)
10e.	AN815-24D	Union	(AR)
11.	AN814-24DL	Plug	(2)
12.	AN6289-24D	Bulkhead Nut	(2)
13.	MS28773-924	Teflon Boss Gasket	(2)
14.	M83248/1-924	Viton O-Ring	(4)

Installation Instructions No. AFC-K015-B-II

Applicability:	DeHaviland DHC-2 Beaver with Pratt & Whitney R985 engine having firewall of .021 ASTM A527 galvanized steel or equivalent.	First Release:	09/01/00
		Revision:	C
		Date:	11/10/10

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. This line routes from the engine to the oil cooler.

TIP: 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. Per installation drawing AFC-0053, locate the lower RH footwell, and drill and install DBL-14 doubler plate to cabin side of firewall, and secure with (28) MS20613-4C4 Stainless Steel Rivets provided.

05. Using bolts (07), washers (08), and locknuts (09) supplied, secure oil filter base (03) to doubler plate, install rear clamp plate (01) to inside of footwell, and torque to 100-140 in/lbs.

Note: When done correctly, the firewall and doubler will be sandwiched between the oil filter base (03) and oil filter clamp plate (01).

06. Onto each bulkhead fitting (10a), install in order 1 ea. bulkhead nut (12), boss gasket (13), and O-Ring (14).

CAUTION: O-ring (14) and boss gasket (13 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 (12), 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.

07. 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.

08. Install and connect the 27" long -16 hose from the outlet of the scavenge oil pump to the "IN" fitting on the oil filter base (03).

09. Install and connect the 37" long -16 hose from "OUT" fitting on the oil filter base (03) 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 (12) is all that is needed. Do not overtighten bulkhead nut as it does not need to bottom out against the oil filter adapter (03).

12. Install appropriate O-Ring (19) onto plug/bleeder (16) and install into unused inlet/outlet holes, torque to specs and safety wire.

NOTE: If the optional chip detector was purchased, install it at this time into the -12 "IN" hole on the oil filter base. Ground one of the leads on the chip detector and run the second lead up to the cockpit dash, to be connected to the yellow warning light.

13. 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.

14. Safety wire drain plug and refill oil tank with oil. (If step #2 is omitted this step is not necessary).

15. Run engine and check for leaks.

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

NOTE: The assembled Airwolf oil filter Assy, with double plate and hoses weighs 9.5 lbs. and is located 51" AFT of datum Ref. STA 100.00.

GROUP ASSEMBLY PART LIST
PART 2

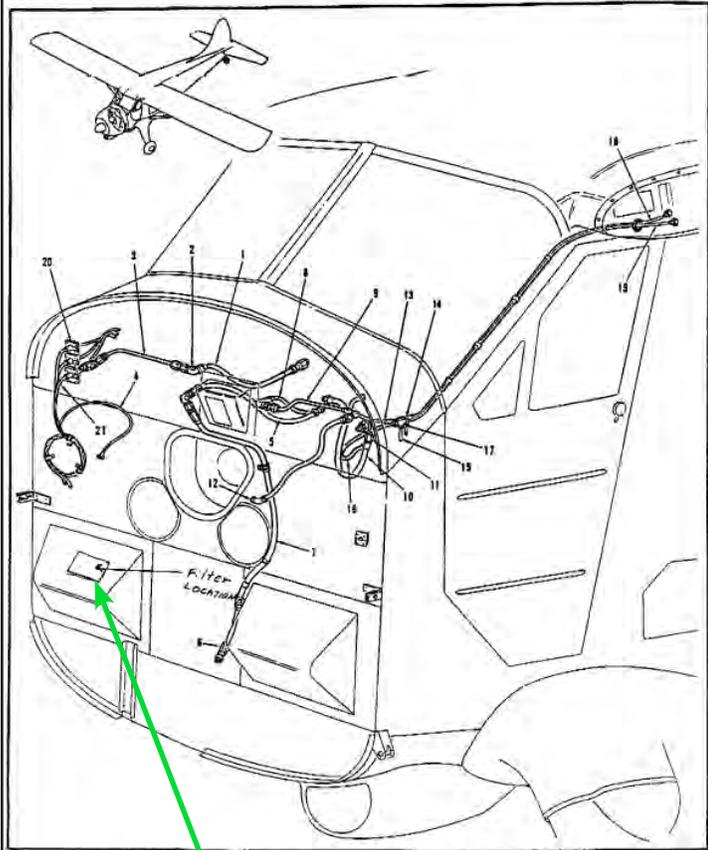
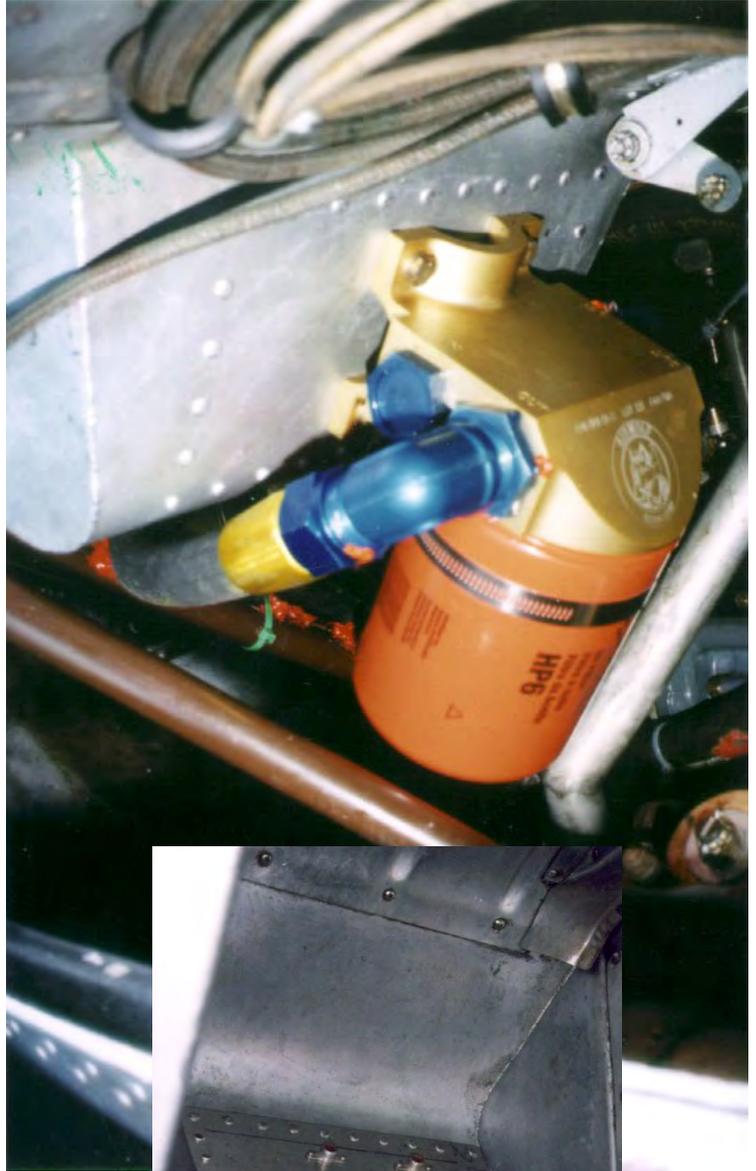


Figure 34 Piping And Wiring - Instrument panel

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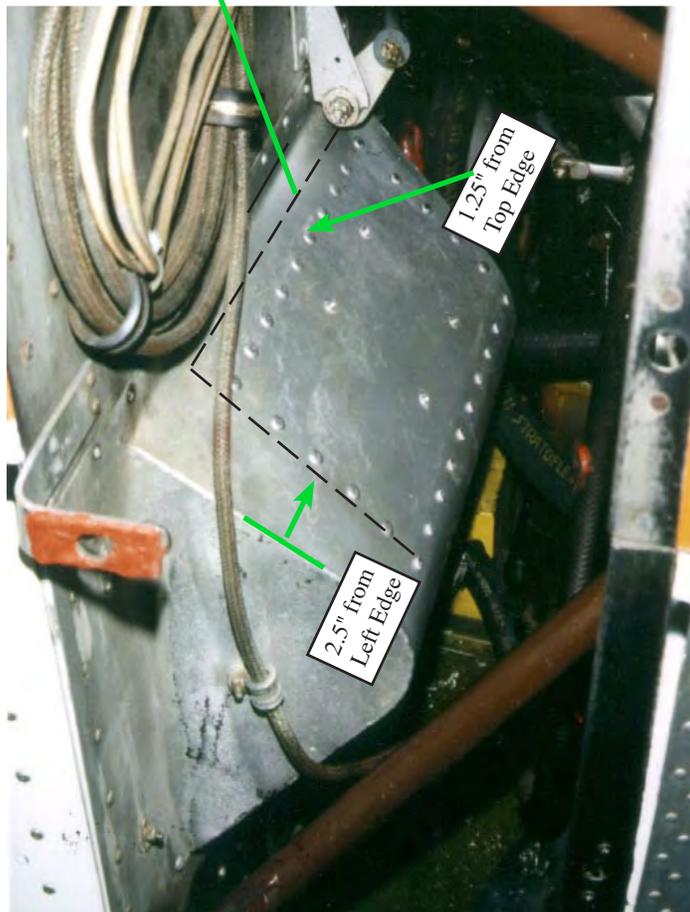
INSTALLATION DRAWING# AFC-D-0054



View from inside RH footwell P/N C2E502A

Airwolf Filter Corp.

Installation Drawing.
DBL-14 Beaver Doubler Plate



GROUP ASSEMBLY PART LIST
PART 2

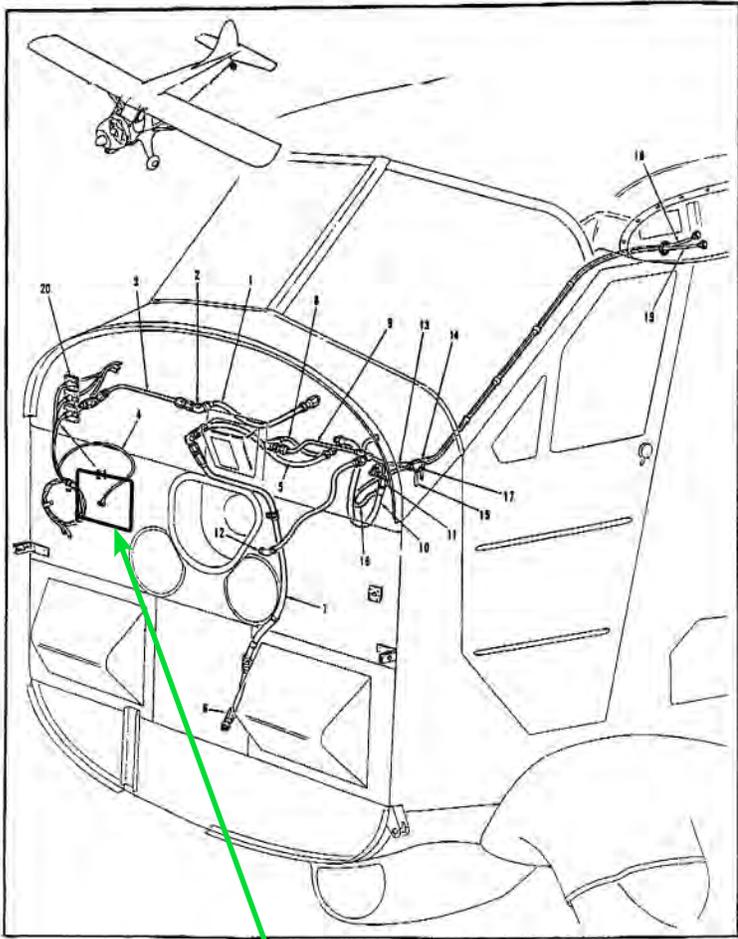


Figure 3: Piping And Wiring - Instrument panel

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Additional doubler field made from .090 6061-T6
Viewed from backside of firewall

INSTALLATION DRAWING#
AFC-D-0054-A



Alternate acceptable mounting location for aircraft with military style exhaust systems.

Airwolf Filter Corp.

Installation Drawing.
DBL-14 Beaver Doubler Plate

Applicability: Pratt & Whitney R985 & Larger, powered Aircraft having firewalls of .021 ASTM A527 galvanized steel or equivalent.

First Release: 09/01/99
Revision: C
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 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 [upstream] of the oil cooler.

04. Determine what size scavenge oil line is used in this particular aircraft.
05. Determine location of oil filter base 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 into oil filter base and oil filter base clamp.
08. Using bolts, washers, and locknuts 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 install in order 1 ea. bulkhead nut, boss gasket, and O-Ring.

CAUTION: O-ring and boss gasket **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, you will force the O-Ring against the end of the first set of threads on the bulkhead fitting, cutting the O-Ring, and mushrooming out the Teflon Boss gasket 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 but do not tighten at this time.

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

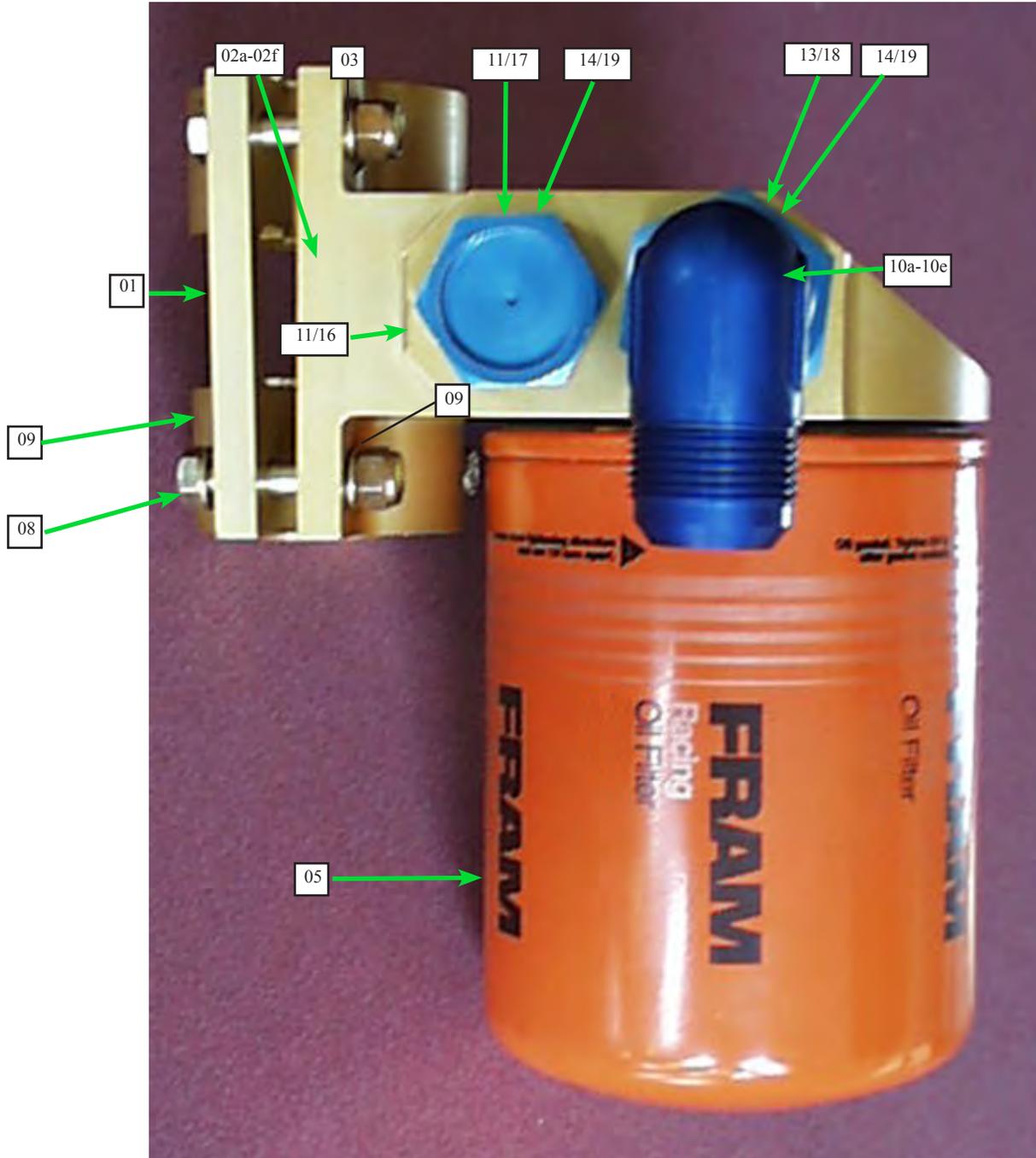
DO NOT INSTALL DRY FITTINGS INTO OIL FILTER BASE OTHERWISE GALLING OF MATERIAL WILL RESULT.

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

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

13. Connect hose from "OUT" fitting on the oil filter base to the inlet of the oil tank or oil cooler where applicable. If using MIL6000H hose secure with the provided hose clamps.
14. Tighten bulkhead nuts at this time.
NOTE: The entire sealing function occurs by lightly compressing the O-Ring. Once the Teflon boss gasket comes in contact with the O-Ring, 1/2 to 3/4 turn on the bulkhead nut is all that is needed. Do not overtighten bulkhead nut as it does not need to bottom out against the oil filter adapter.
15. Install appropriate O-Ring onto plug/bleeder and install into unused inlet/outlet holes, torque to specs and safety wire.
16. Install oil filter and tighten per filter manufacturers specifications.
 Using hose clamp provided, secure to top of oil filter and position so the worm gear drive of the clamp, is wedged into the main oil filter base, preventing the oil filter from loosening. It is also permissible to affix the hose clamp to the bottom of the oil filter, and safety wire the hose clamp to one of the fittings installed into the oil filter base.
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



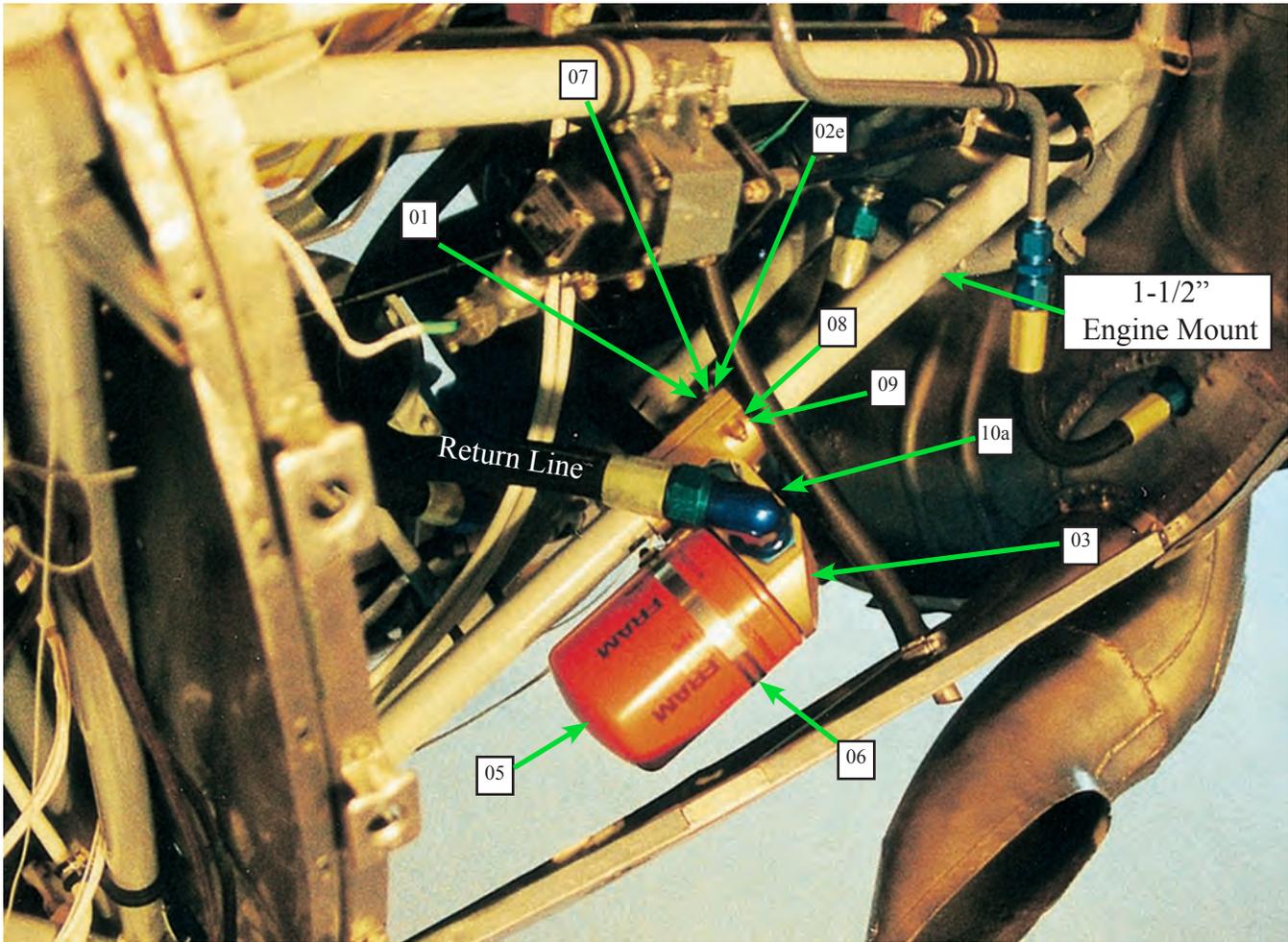
**TYPICAL
ENGINE MOUNT INSTALLATION**

Airwolf Filter Corp.

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

	Drawing# AFC-D-0050	

INSTALLATION DRAWING# AFC-D-0053



Typical Radial Engine Installation
Shown Mounted on T-6 Texan

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
01.	OFB-18-12	Clamp Plate Oil Filter Base	(1)
02e.	OFB-18-17	1.500" Bushing Set	(1)
03.	OFB-18-11	Adapter Body Oil Filter Base	(1)
05.	AFC-700	Oil Filter	(1)
06.	QS100M76H	5-1/2" Hose Clamp Safety Wire Attachment	(1)
07.	AN5-13A	5/16" Bolt, 1-3/8" Long	(4)
08.	AN960-516	5/16" Flat Washer	(8)
09.	MS20365-516	5/16" Locknut	(4)
10a.	AN833-16D	90° Bulkhead Fitting	(2)

Airwolf Filter Corp.

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

Revisions

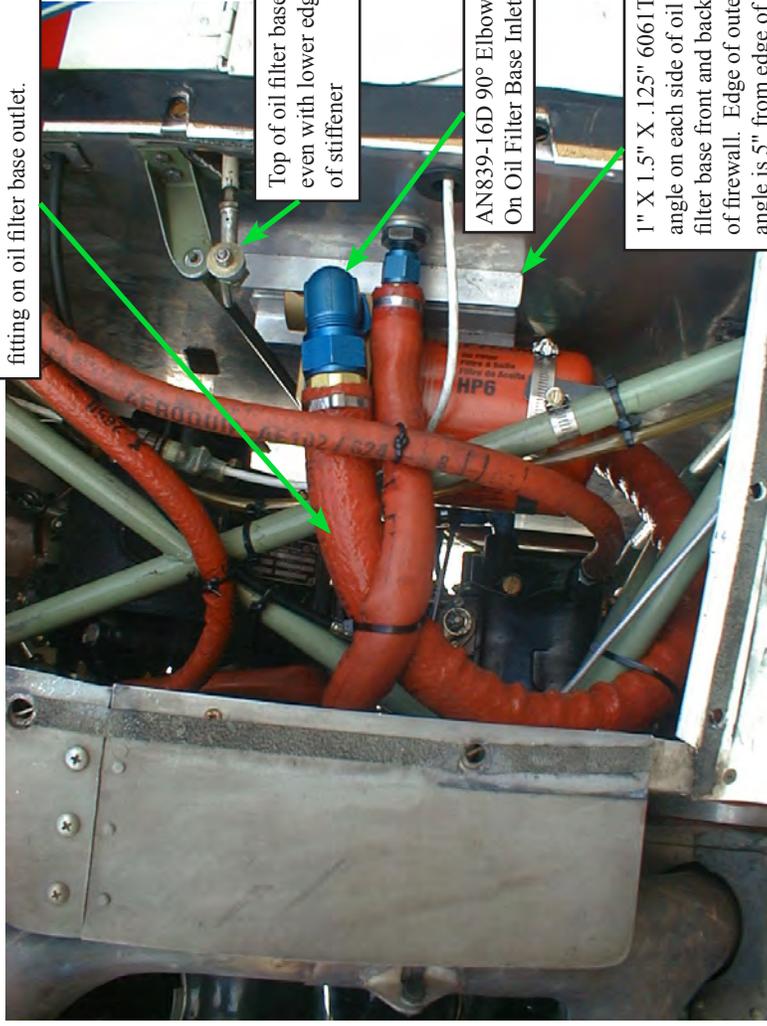
LH VIEW

1" MIL-H-6000 hose with AE102-22 Firesleeve, secured to AN839-16D 90° fitting on oil filter base outlet.

Top of oil filter base even with lower edge of stiffener

AN839-16D 90° Elbow On Oil Filter Base Inlet

1" X 1.5" X .125" 6061T6 angle on each side of oil filter base front and back of firewall. Edge of outer angle is 5" from edge of firewall.



Oil Filter Base mounted 18.5" Forward of Datum, which is wing leading edge.

Airwolf Filter Corp.

Typical Installation in Weatherly

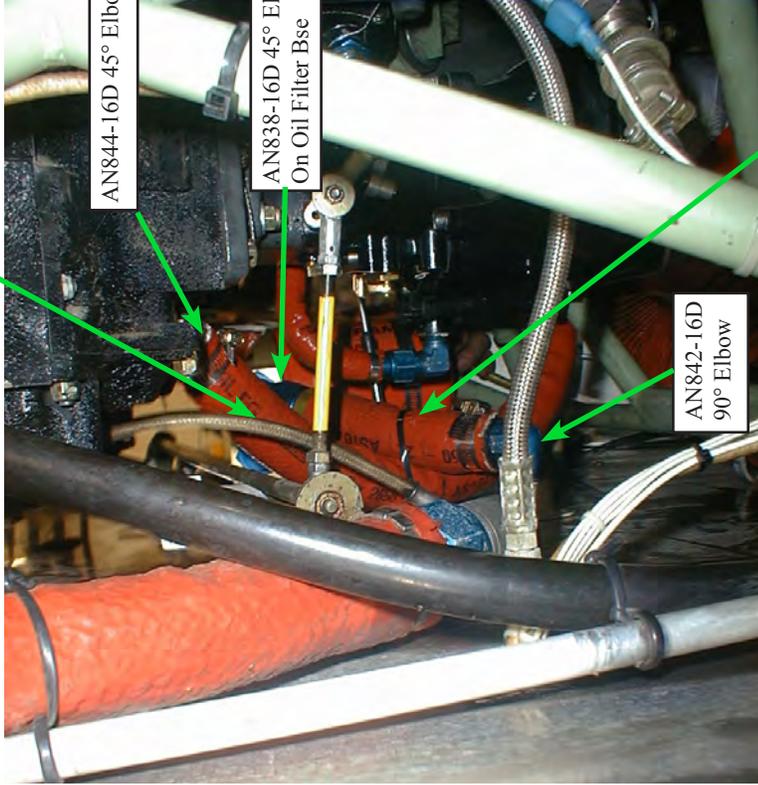
RH VIEW

1" MIL-H-6000 hose with AE102-22 Firesleeve from Engine to Oil Filter Base Inlet.

AN844-16D 45° Elbow

AN838-16D 45° Elbow On Oil Filter Base

AN842-16D 90° Elbow



1" MIL-H-6000 hose with AE102-22 Firesleeve, secured to AN838-16D fitting on oil filter base outlet. Hose Clamped end goes to oil cooler.

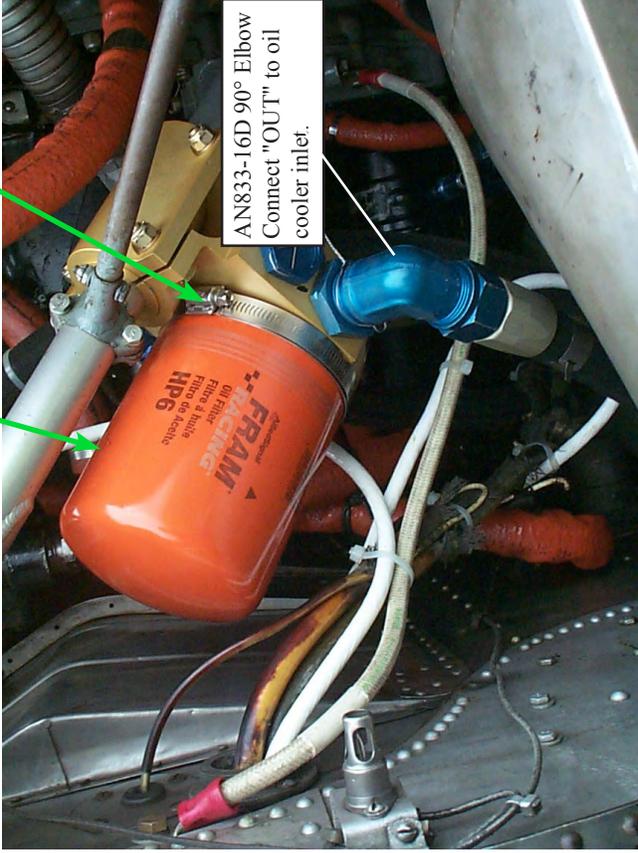
INSTALLATION DRAWING# AFC-D-0055

Revisions

LH ENGINE

AFC-700 Oil Filter

QS100M52H Clamp
Safety wire to bolt



AN833-16D 90° Fitting Connecting
Hose from scavenge oil pump to "IN"
on oil filter base

OFB-18-16
1.375" Bushing Set

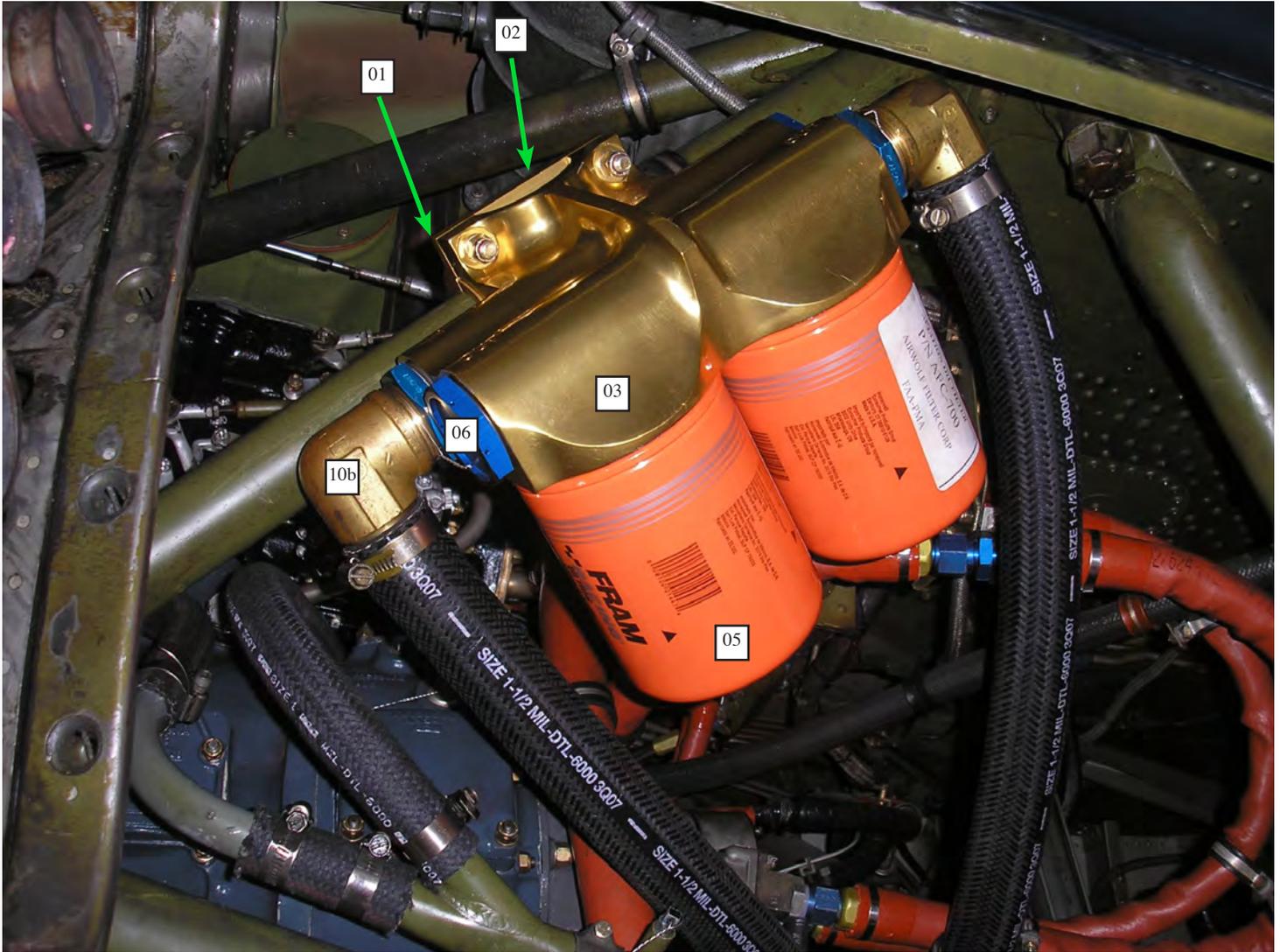


Airwolf Filter Corp.

Typical Installation in Douglas DC-3 / C-47

INSTALLATION DRAWING# AFC-D-0056

INSTALLATION DRAWING# AFC-D-0057



Typical Radial Engine Installation on P&W R2800 Shown Mounted on Grumman F7F-3 Tigercat

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
01.	OFB-19-12	Clamp Plate Oil Filter Base	(1)
02e.	OFB-19-17	1.500" Bushing Set	(1)
03.	OFB-19-11	Adapter Body Oil Filter Base	(1)
05.	AFC-700	Oil Filter	(2)
06.	AN814-24DL	Cap	(2)
07.	AN6-17A	3/8" Bolt, 1-7/8" Long	(4)
08.	AN960-616	3/8" Flat Washer	(8)
09.	MS20365-624A	3/8" Locknut	(4)
10a.	AN833-24D or	90° Bulkhead Flare Fitting,	(2)
10b.	AN838-24D	90° Bulkhead Slip-On Fitting,	(2)

Airwolf Filter Corp.

Installation Drawing.
OFB-19 Oil Filter Adapter, Engine Tube



Reference Data
for
AFC-K015
for
STC SA01282NY
Oil Filter Kit
AFC-K015

Dated: 5-6-2024

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

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

TO THE MECHANIC:

This P/N AFC-K015 remote mount oil filter kit incorporates our STC approved for all Pratt & Whitney 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-K015 kit and the STC# SA01282NY. 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

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, 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 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.

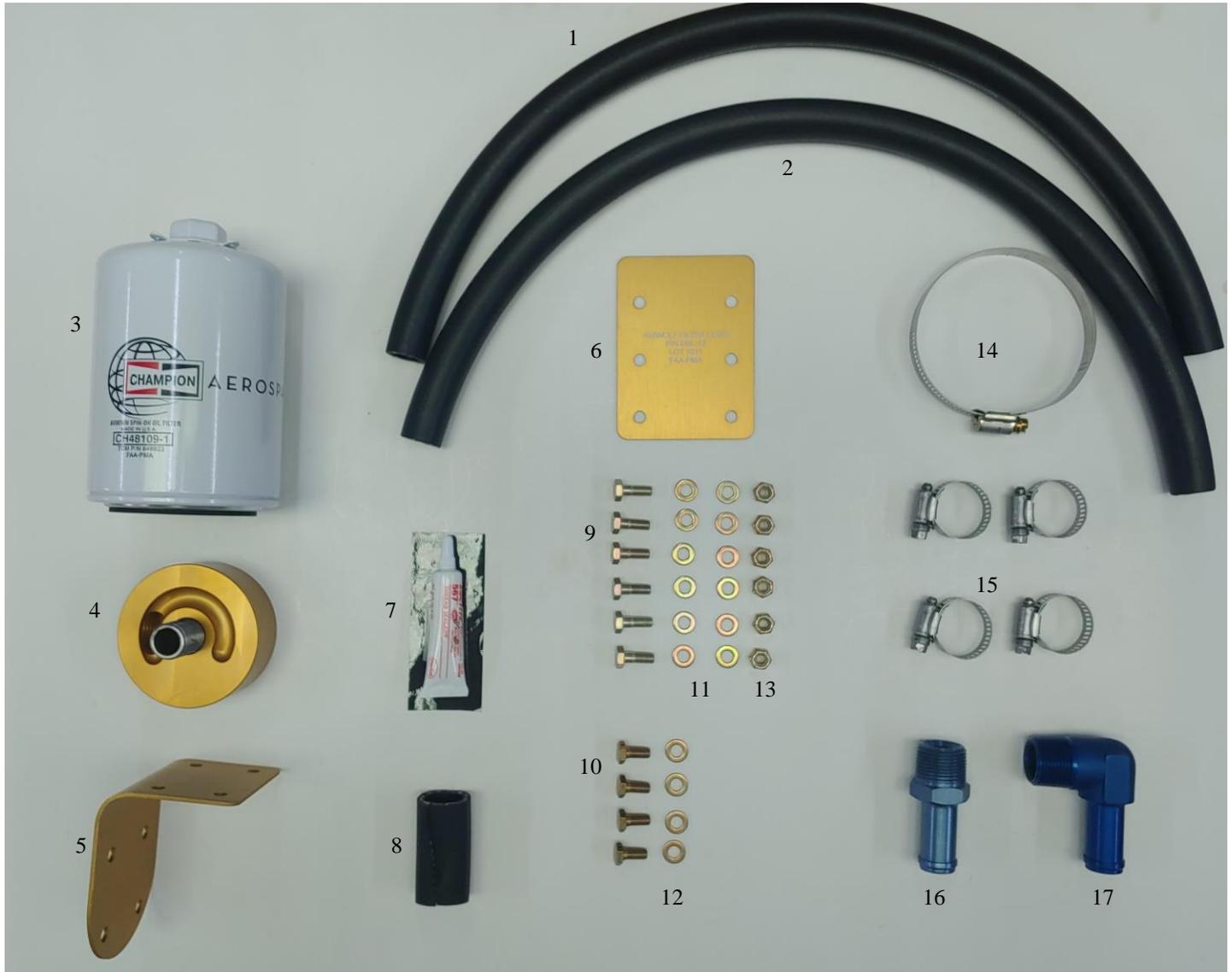
COMMON TO ALL INSTALLATIONS

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-K015-PL-A

Applicability:

**Pratt & Whitney R-985 Powered Aircraft
having firewalls of .021" ASTM A527 galvanized steel or equivalent.**



Parts Illustration Pratt & Whitney R-985 Engine Series

Parts List No. AFC-K015-PL-A

Applicability: Pratt & Whitney R-985 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

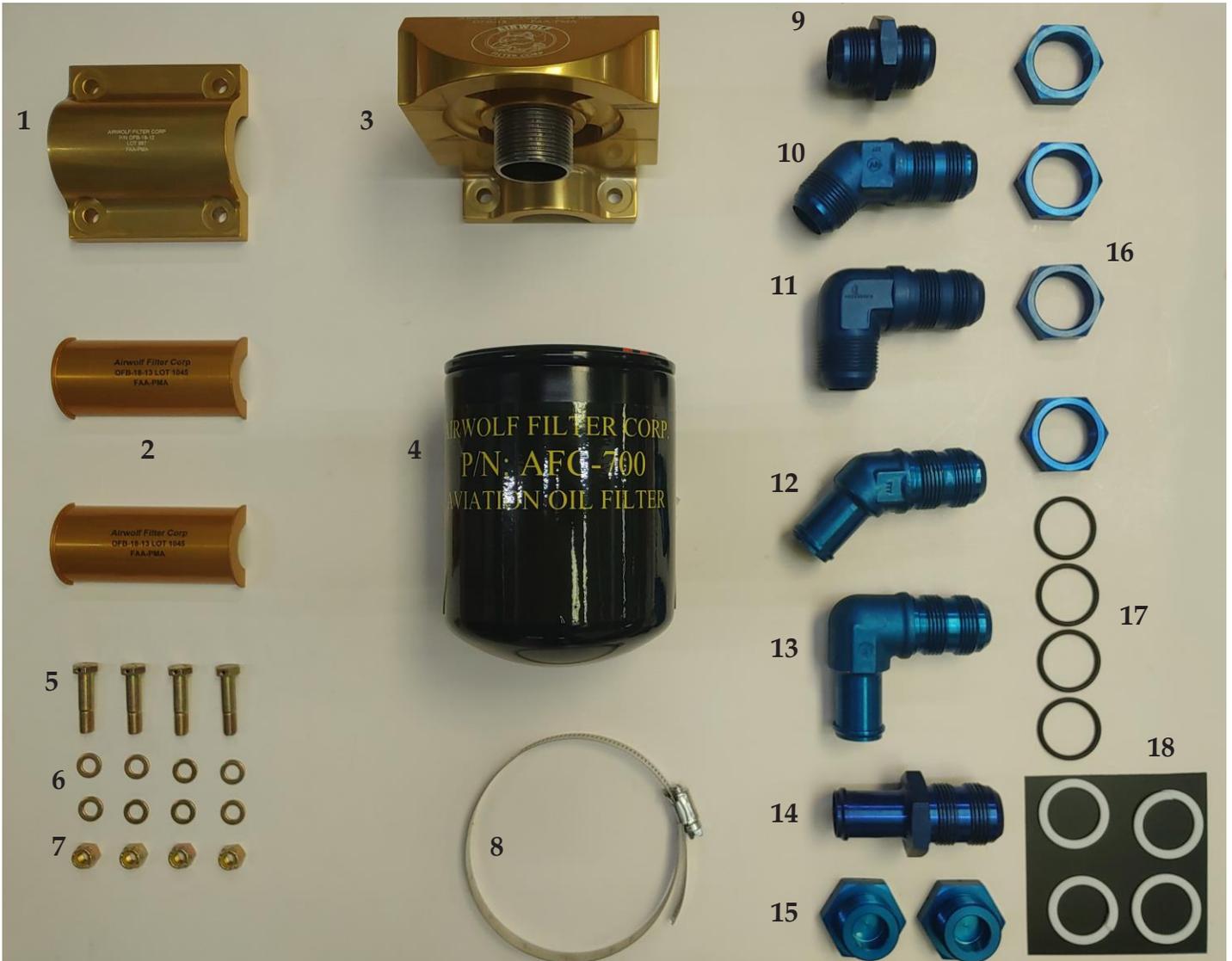
Installation Instructions No. AFC-K015-II-A**Applicability: Installation of the remote oil filter kit on Boeing Model 75 series aircraft with Pratt & Whitney R-985 Radial Engine.**

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. 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. (see attached drawing AFC-D-0019). Drill the hole of the removed screw to 1/4" (.250).
5. 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. Slip doubler plate (DBL-10) between the firewall and stiffeners. The long side goes up (see attached drawing AFC-D-0064).
7. Bolt oil filter base support angle P/N OFM-11 to firewall and doubler plate using(6ea) provided AN 4-5A bolts.
- ***** SEE WARNING (A) *******
8. Install provided AN842-16D fittings in the oil filter base. 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) to oil Filter Mount Plate, Vertical (5) using provided AN4H-4A bolts. Oil inlet port "B" is positioned to the front of the aircraft. Secure bolts with safety wire.
- ***** SEE WARNING (B) *******
10. Install one 25" piece of 1" Mil 6000H hose using provided QS100M16H hose clamps. The "B" port 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, 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-K015-PL-B

Applicability:

**Pratt & Whitney R-985 - R-2000 Powered Aircraft
having firewalls of .021" ASTM A527 galvanized steel or equivalent.**



Parts Illustration Pratt & Whitney Engine Series

Parts List No. AFC-K015-PL-B**Applicability:**

**Pratt & Whitney R-985 - R-2000 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 ro	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

Installation Instructions No. AFC-K015-II-B

Applicability: Installation of the remote oil filter kit on DeHavilland DHC-2 Beaver series aircraft with Pratt & Whitney R-985 Radial 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 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 installation drawings AFC-D-0045 and AFC-D-0054, locate the lower RH footwell, and drill and install DBL-14 doubler plate to cabin side of firewall, and secure with (28ea.) MS20613-4C4 Stainless Steel Rivets provided.
5. Using bolts (5), washers (6), and locknuts (7) supplied, secure oil filter base (3) to doubler plate, install rear clamp plate (1) to inside of footwell, and torque to 100-140 in/lbs.

Note: When done correctly, the firewall and doubler 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 -16 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 -16 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 to 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-K015-PL-C

Applicability:

**Pratt & Whitney R-2800 - R-3350 Powered Aircraft
having firewalls of .021" ASTM A527 galvanized steel or equivalent.**



Parts Illustration OFB-19 Oil Filter Adapter

Parts List No. AFC-K015-PL-C

Applicability: Pratt & Whitney R-2800 - R-3350 Powered Aircraft
having firewalls of .021" ASTM A527 galvanized steel or equivalent.

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
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	AN6-17A	Bolt, 3/8" 1-7/8" Long	4
4	AN960-616	Washer, Flat	8
5	MS20365-624A	Nut, Locking 3/8"	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, 2.125"	opt
7	OFB-19-19	Bushing Set, 2.250"	opt
7	OFB-19-20	Bushing Set, 2.375"	opt
8	QS100M76H	Clamp, Screw 5-1/2"	2
9	AN833-24D	Fitting, Bulkhead to Flare 90°	2
10	AN815-24D	Fitting, Union	opt
NS	AN837-24D	Fitting, Bulkhead to Flare 45°	opt
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-K015-II-C**Applicability: Installation of the remote oil filter kit on aircraft with Pratt & Whitney Radial 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-0055, AFC-D-0056, AFC-D-0057, AFC-D-0060, AFC-D-0062, and AFC-D-0065. 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 (13) 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 (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 (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 (15) 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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GROUP ASSEMBLY PART LIST
PART 2

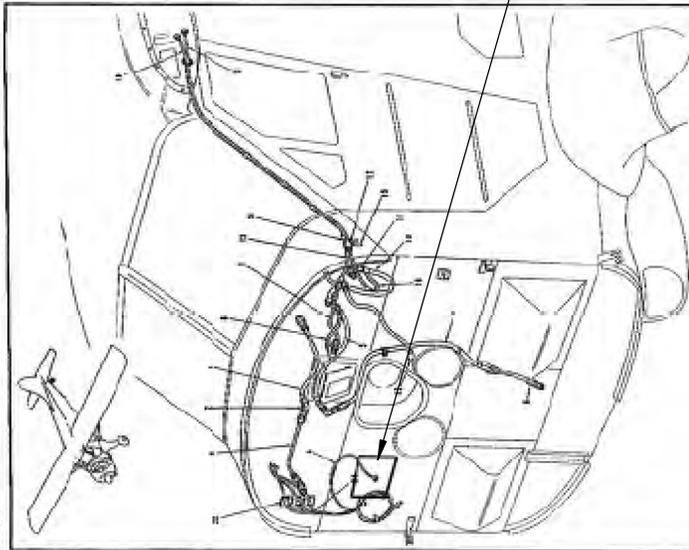


Figure 34 Pigtails And Wiring - Instrument panel

147



ADDITIONAL DOUBLER FIELD MADE FROM .090
6061-T6 VIEWED FROM BACKSIDE OF FIREWALL



ALTERNATE ACCEPTABLE MOUNTING LOCATION FOR
AIRCRAFT WITH MILITARY STYLE EXHAUST SYSTEMS.

REVISIONS		
REV.	DESCRIPTION	DATE

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES		DRAWN	NAME	DATE	Airwolf Filter Corp.	
1 PLACE ±.030		APPR. BY	GM	12/8/2020	TITLE: INSTALLATION DRAWING	
2 PLACE ±.010		ENG APPR.	BDA	12/8/2020	DBL-14 BEAVER DOUBLER PLATE	
3 PLACE ±.005		MFG APPR.			SIZE	REV
4 PLACE ±.0005					A	IR
ANGULAR ±0°30'					DWG. NO. AFC-D-0045	
INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H		Q.A.			SCALE: WEIGHT: SHEET 1 OF 1	
MATERIAL						
FINISH						
NEXT ASSY						
APPLICATION						
USED ON						
COMMENTS:						

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GROUP ASSEMBLY PART LIST
PART 2

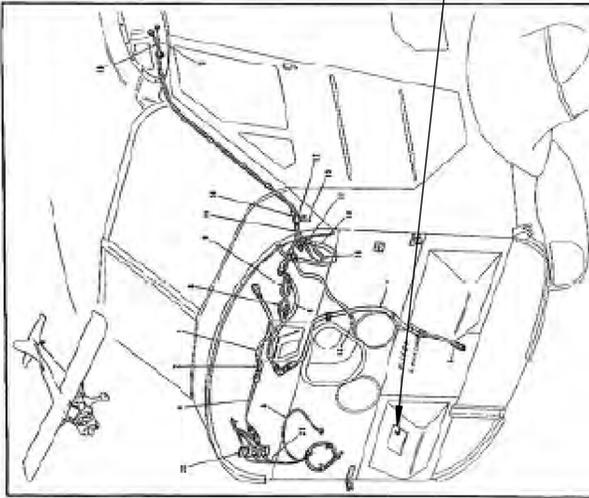
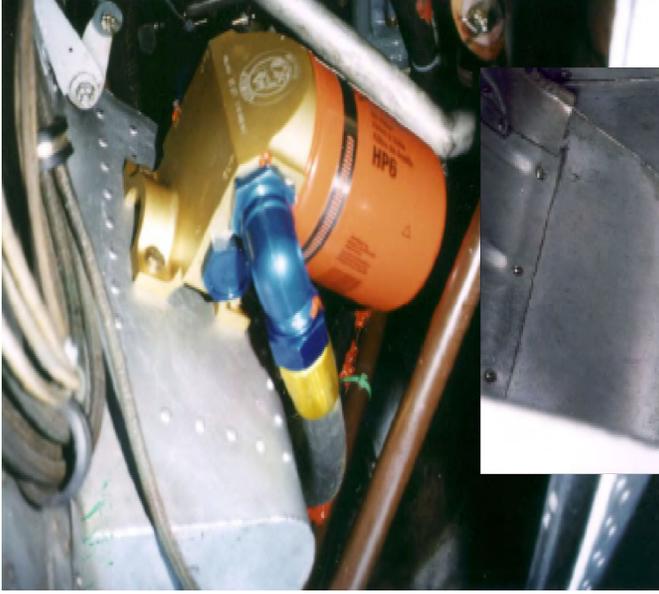
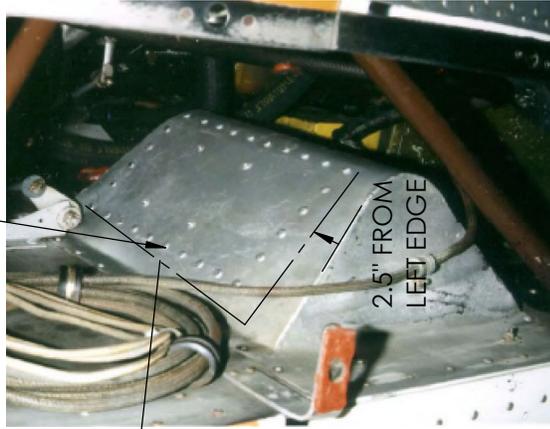


Figure 34: Pictorial And Wiring - Instrument Panel

147

1.25" FROM TOP EDGE

2.5" FROM LEFT EDGE



VIEW FROM INSIDE RH FOOTWELL P/N C2E502A

REVISIONS

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

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES:		NAME	DATE
1 PLACE ±.030	DRAWN	GM	12/8/2020
2 PLACE ±.010	APPR. BY	BDA	12/8/2020
3 PLACE ±.005	ENG APPR.		
4 PLACE ±.0005	MFG APPR.		
ANGULAR ±0°30'	Q.A.		
INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H			
MATERIAL			
FINISH	COMMENTS:		
NEXT ASSY	USED ON		
APPLICATION			

TITLE:		Airwolf Filter Corp.	
INSTALLATION DRAWING, DBL-14 BEAVER DOUBLER PLATE		SIZE DWG. NO. REV	
A		AFC-D-0054 A	
SCALE:		WEIGHT:	
SHEET 1 OF 1		1	

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REVISIONS

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

RH VIEW

AN844-16D 45° ELBOW

1" MIL-H-6000 HOSE WITH AE102-22 FIRESLEEVE FROM ENGINE TO OIL FILTER BASE INLET.

AN838-16D 45° ELBOW ON OIL FILTER BASE

1" MIL-H-6000 HOSE WITH AE102-22 FIRESLEEVE. SECURED TO AN838-16D FITTING ON OIL FILTER BASE OUTLET. HOSE CLAMPED END GOES TO OIL COOLER.



AN842-16D 90° ELBOW

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		GM	12/8/2020
TOLERANCES:		BDA	12/8/2020
1 PLACE ±.030			
2 PLACE ±.010			
3 PLACE ±.005			
4 PLACE ±.0005			
ANGULAR ±0°30'			
INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H			
MATERIAL			
FINISH	COMMENTS:		
NEXT ASSY	USED ON		
APPLICATION			

Airwolf Filter Corp.

TITLE:
TYPICAL INSTALLATION
IN WEATHERLY -
RIGHT HAND VIEW

REV **A**
SIZE **A** DWG. NO. **AFC-D-0055**

SCALE: WEIGHT: SHEET 1 OF 1

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LH ENGINE

OFB-18-16 1.375" BUSHING SET



SECURE WITH BOLTS, NUTS, AND WASHERS PROVIDED

AN833-16D 90° FITTING CONNECTING HOSE FROM SCAVENGE OIL PUMP TO "IN" ON OIL FILTER BASE

AFC-700 OIL FILTER

QS100M52H CLAMP SAFETY WIRE TO BOLT



REVISIONS

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

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		GM	12/8/2020
TOLERANCES:		BDA	12/8/2020
1 PLACE ±.030			
2 PLACE ±.010			
3 PLACE ±.005			
4 PLACE ±.0005			
ANGULAR ±0°30'			
INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H			
MATERIAL			
FINISH	COMMENTS:		
NEXT ASSY	USED ON		
APPLICATION			

Airwolf Filter Corp.	
TITLE: TYPICAL INSTALLATION IN DOUGLAS DC-3/C-47	
SIZE	DWG. NO.
A	AFC-D-0056
REV	REV
A	A
SCALE:	WEIGHT:
	SHEET 1 OF 1

1 2 3 4 5

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① ————— ⑦ ⑧ ⑨



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

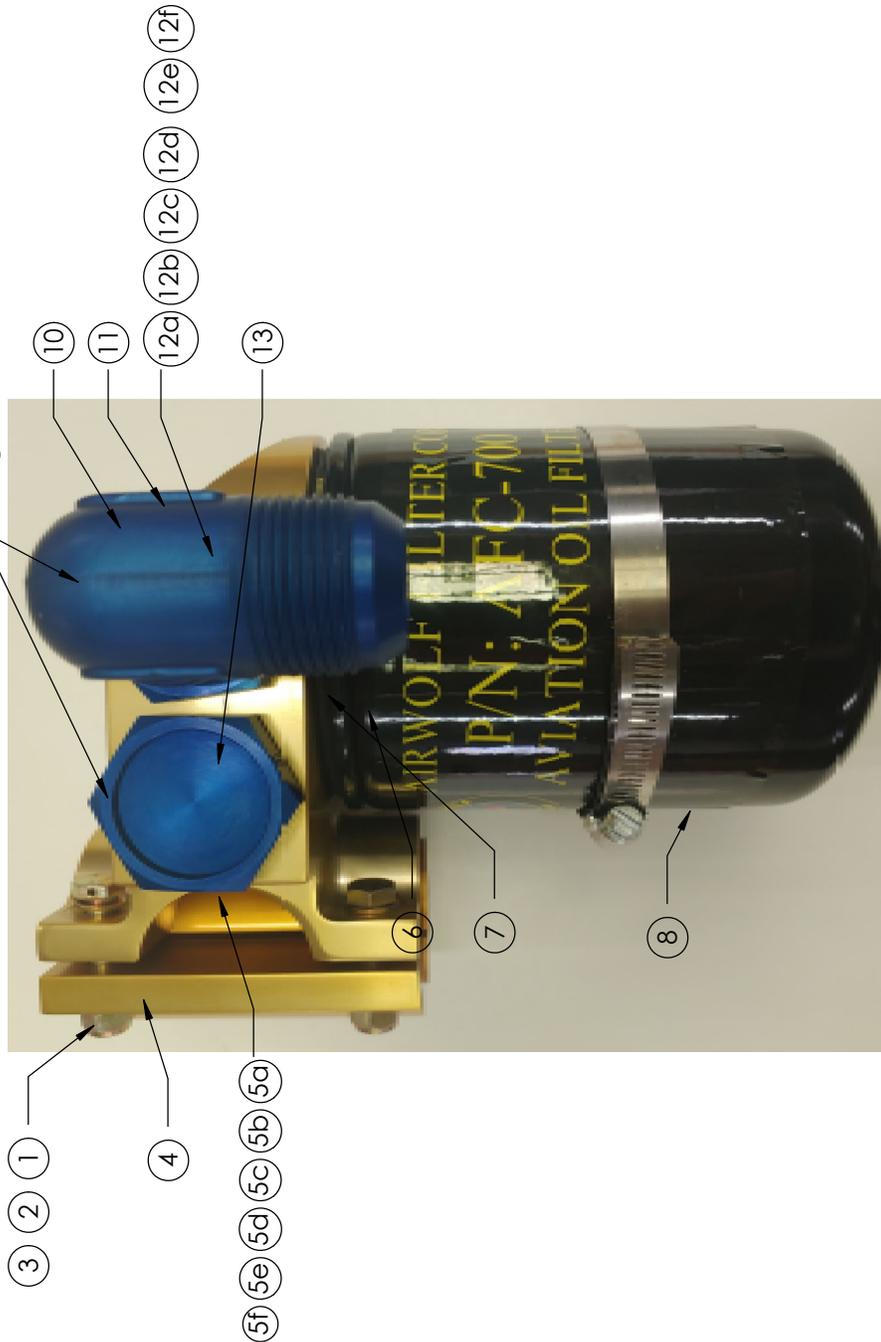
REVISIONS			
REV.	DESCRIPTION	BY	DATE
A	REDRAWN IN SOLIDWORKS	GM	12/8/2020

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		GM	12/8/2020
TOLERANCES:		DRAWN	
1 PLACE ±.030		APPR. BY	BDA
2 PLACE ±.010		ENG APPR.	
3 PLACE ±.005		MFG APPR.	
4 PLACE ±.0005		Q.A.	
ANGULAR ±0°30'			
INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H			
MATERIAL			
FINISH		COMMENTS:	
NEXT ASSY	USED ON		
APPLICATION			

TITLE:		Airwolf Filter Corp.	
INSTALLATION DRAWING, OFB-19 OIL FILTER ADAPTER, ENGINE TUBE			
SIZE	DWG. NO.	REV	
A	AFC-D-0057	A	
SCALE:	WEIGHT:	SHEET 1 OF 1	

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REVISONS			
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	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	MS28773-16	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	AN815-16D	UNION	2
13	AN814-16D	PLUG	2

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		GM	12/8/2020
TOLERANCES:		DRAWN	
1 PLACE ±.030		APPR. BY	BDA
2 PLACE ±.010		ENG APPR.	
3 PLACE ±.005		MFG APPR.	
4 PLACE ±.0005		Q.A.	
ANGULAR ±0°30'			
INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H			
MATERIAL			
FINISH			
COMMENTS:			
NEXT ASSY	USED ON		
APPLICATION			

Airwolf Filter Corp.

TITLE:

**ASSEMBLY DRAWING
OFB-18 OIL FILTER ADAPTER,
ENGINE TUBE**

SIZE DWG. NO. REV
A **AFC-D-0060** **IR**

SCALE: WEIGHT: SHEET 1 OF 1

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REVISIONS

REV.	DESCRIPTION	BY	DATE



AIRCRAFT FIREWALL

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
DIMENSIONS ARE IN INCHES		GM	12/8/2020
TOLERANCES:		BDA	12/8/2020
1 PLACE ±.030		DRAWN	
2 PLACE ±.010		APPR. BY	
3 PLACE ±.005		ENG APPR.	
4 PLACE ±.0005		MFG APPR.	
ANGULAR ±0°30'		Q.A.	
INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H			
MATERIAL			
FINISH		COMMENTS:	
NEXT ASSY	USED ON		
APPLICATION			

Airwolf Filter Corp.

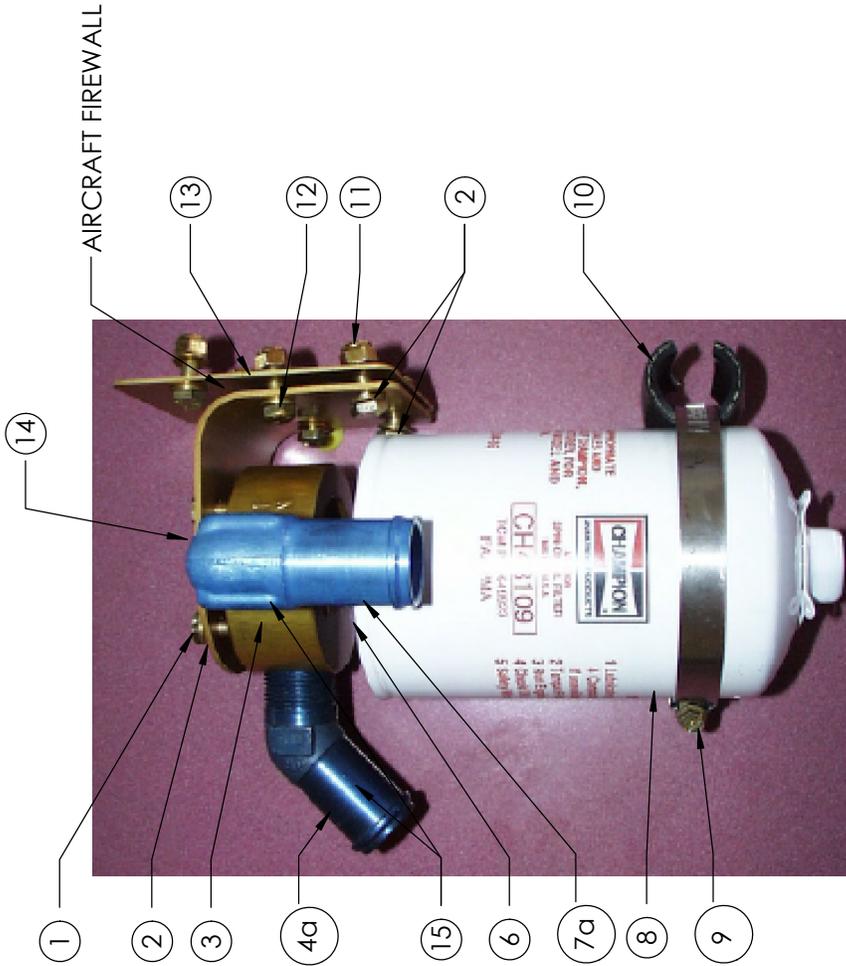
TITLE:
ASSEMBLY DRAWING
OFB-15 OIL FILTER ADAPTER,
FIREWALL - HORIZONTAL

SIZE DWG. NO. REV
A **AFC-D-0061** **IR**

SCALE: WEIGHT: SHEET 1 OF 1

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MATERIAL LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	AN4H-4A	BOLT, 1/4" 1/2" LONG	4
2	AN960-416	1/4" FLAT WASHER	16
3	OFB-15	OIL FILTER BASE	1
4a or	AN844-16D or	45° HOSE ELBOW	2
5a	AN840-16D	STRAIGHT HOSE FITTING	2
6	OFS-10	OIL FILTER STUD	1
7a	AN842-16D	90° HOSE ELBOW	2
8	AFC-600	LONG OIL FILTER (CHAMPION CH48109) OR EQUIVALENT	1
9	GS100M52H	3-1/4" HOSE CLAMP	1
10	MIL6000-3/4-2	DAMPENER	1
11	MS20365-428A	1/4" LOCKNUT	6
12	AN4-5A	1/4" BOLT	6
13	DBL-10	DOUBLER PLATE	1
14	OFM-11	VERTICAL OIL FILTER MOUNT	1
15	567	LOCTITE 567 PST TEFLON THREAD SEALANT.	1

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		GM	12/8/2020
TOLERANCES:		DRAWN	
1 PLACE ±.030		APPR. BY	BDA
2 PLACE ±.010		ENG APPR.	
3 PLACE ±.005		MFG APPR.	
4 PLACE ±.0005		Q.A.	
ANGULAR ±0°30'			
INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H			
MATERIAL			
FINISH		COMMENTS:	
NEXT ASSY	USED ON		
APPLICATION			

Airwolf Filter Corp.

TITLE:
**INSTALLATION DRAWING
 OFB-15 OIL FILTER ADAPTER,**

SIZE DWG. NO. REV
A AFC-D-0064 IR

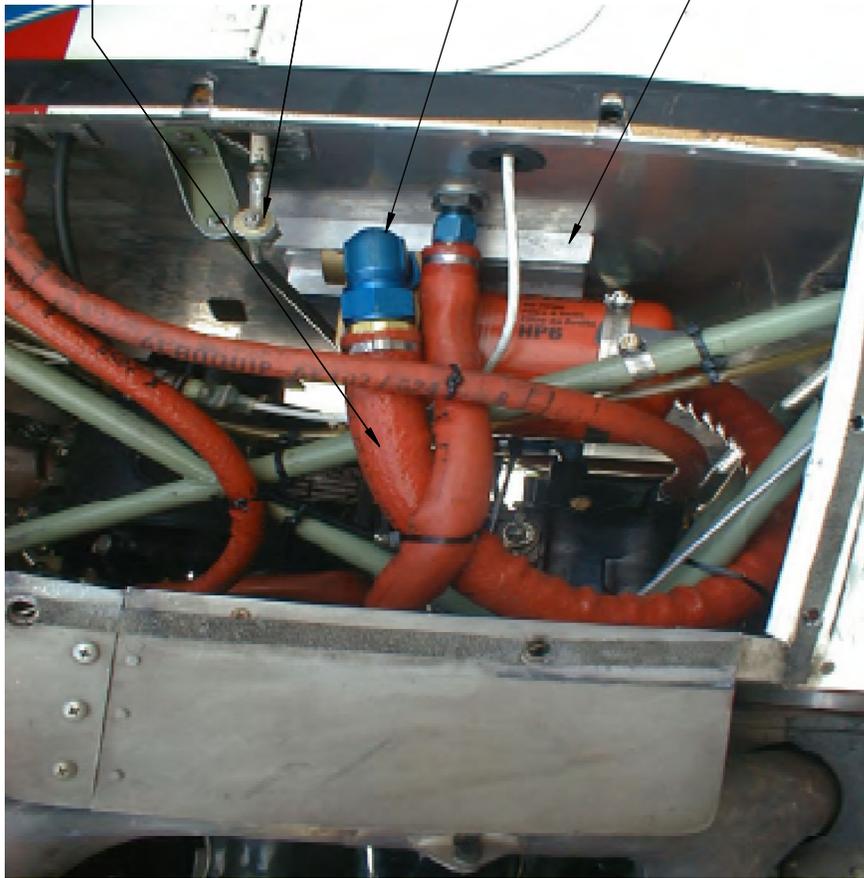
SCALE: WEIGHT: SHEET 1 OF 1

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REVISIONS

REV.	DESCRIPTION	BY	DATE



LH VIEW

1" MIL-H-6000 HOSE WITH AE102-22 FRESLEEVE. SECURED TO AN839-16D 90° FITTING ON OIL FILTER BASE OUTLET.

TOP OF OIL FILTER BASE EVEN WITH LOWER EDGE OF STIFFENER

AN839-16D 90° ELBOW ON OIL FILTER BASE INLET

1" X 1.5" X .125" 6061T6 ANGLE ON EACH SIDE OF OIL FILTER BASE FRONT AND BACK OF FIREWALL. EDGE OF OUTER ANGLE IS 5" FROM EDGE OF FIREWALL.

OIL FILTER BASE MOUNTED 18.5" FORWARD OF DATUM, WHICH IS WING LEADING EDGE.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: 1 PLACE ±.030 2 PLACE ±.010 3 PLACE ±.005 4 PLACE ±.0005 ANGULAR ±0°30'		DRAWN GM	NAME GM	DATE 12/8/2020	Airwolf Filter Corp.	
INTERPRET GEOMETRIC TOLERANCING PER: ANSY Y 14.5H	Q.A.	APPR. BY BDA	DATE 12/8/2020	TITLE: TYPICAL INSTALLATION IN WEATHERLY - LEFT HAND VIEW		
MATERIAL	FINISH	ENG APPR.	MFG APPR.	SIZE	DWG. NO.	REV
NEXT ASSY	USED ON	COMMENTS:		A	AFC-D-0065	IR
APPLICATION		SCALE:	WEIGHT:	SHEET 1 OF 1		

FAA APPROVED MODEL LIST (AML) SA01282NY

AIRWOLF FILTER CORP FOR INSTALLING REMOTE MOUNT OIL FILTER KIT

Issue Date: January 23, 2001

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION INSTRUCTIONS		AML AMENDMENT DATE
					NUMBER	REVISION NO. AND DATE	
1	AEROTEK II INC	B-1A	A7WE	CAR PART 8.10(a)(1) and Amendments Listed in TCDS No. A7WE	AFC-K015	C 11/11/2010*	10/31/2012
2	AEROTEK II INC	B-1A	A8WE	CAR PART 3 and Amendments Listed in TCDS No. A8WE	AFC-K015	C 11/11/2010*	10/31/2012
3	AIR TRACTOR, INC.	AT-250, AT-300, AT-301	A9SW	14 CFR PART 23 and Amendments Listed in TCDS No. A9SW	AFC-K015	C 11/11/2010*	10/31/2012
4	AIR TRACTOR, INC.	AT-401, AT-401B, AT-501	A17SW	14 CFR PART 23 and Amendments Listed in TCDS No. A17SW	AFC-K015	C 11/11/2010*	10/31/2012
5	ALLIED AG CAT PRODUCTIONS INC. (Grumman)	G-164, -164A, -164B (Grumman Ag-Cat) G-164B with 73" Wing Gap G-164B-15T, G164B-34T, G164B-20T, G-164C	1A16	CAR PART 8.10(a)(1) and Amendments Listed in TCDS No. 1A16	AFC-K015	C 11/11/2010*	1/23/2001
6	AMERICAN AIRPLANE & ENGINEERING CO	Pilgrim 100A	ATC 443	ATC 443 as specified	AFC-K015	C 11/11/2010*	10/31/2012
7	AMPHIBIONS INC	Amphibion N-2-C	ATC248	ATC 248 as specified	AFC-K015	C 11/11/2010*	10/31/2012
8	AUGUSTA-BELL	AB-102	7H3	CAR PART 10 and Amendments Listed in TCDS No. 7H3	AFC-K015	C 11/11/2010*	10/31/2012
9	BELLANCA	F Skyrocket	2-475	Aero Bulletin 7A and as specified in TCDS No. 2-475	AFC-K015	C 11/11/2010*	10/31/2012
10	BELLANCA	CH-400 Skyrocket	ATC 319	ATC 319 as specified	AFC-K015	C 11/11/2010*	10/31/2012
11	BELLANCA	300-W Pacemaker	ATC 328	ATC 328 as specified	AFC-K015	C 11/11/2010*	10/31/2012

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**AIRWOLF FILTER CORP
FOR INSTALLING
REMOTE MOUNT OIL FILTER KIT**

Issue Date: January 23, 2001

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION INSTRUCTIONS		AML AMENDMENT DATE
					NUMBER	REVISION NO. AND DATE	
12	BOEING AIRPLANE CO (Stearman)	IB75A,	A-743	CAR PART 4a and Amendments Listed in TCDS No. A-743	AFC-K015	C 11/11/2010*	10/31/2012
13	BOEING AIRPLANE CO (Stearman)	A75L3, 75 (Army PT-13), A75 (Army PT-13A, -13B, -13C), B75 (Navy N2S-5), E75 (Army PT-13D, Navy N2S-5), A75N1 (Army PT-17, -17A, Navy N2S-1, -4), B75N1 (Navy N2S-3), D75N1 (Army PT-27), A75J1 (Army PT-18), A75L-300, E75N1 With P&W engine installed	A-743	CAR PART 4a and Amendments Listed in TCDS No. A-743	AFC-K015	C 11/11/2010*	10/31/2012
14	BUSHMASTER AIRCRAFT CORP	2000	A19WE	CAR PART 3 and Amendments Listed in TCDS No. A19WE	AFC-K015	C 11/11/2010*	10/31/2012
15	CARL F. KROGMAN (Martin Marietta)	Navy PBM-5	LTC-20	LTC-20 as specified and CAR PART 9	AFC-K015	C 11/11/2010*	10/31/2012
16	CATALINA AIRCRAFT TRUST LLC (General Dynamics, Consolidated Vultee)	28-5ACF	785	CAR PART 3 and CAR PART 4a and Amendments Listed in TCDS No. 785	AFC-K015	C 11/11/2010*	10/31/2012
17	CENTRAL AIR SERVICES (McDonnell Douglas)	Air Force C-54A, C-54B, C-54D, C-54E, C-54G	A36CE	14 CFR PART 21.25(a)(2) and Amendments Listed in TCDS No. 7A14	AFC-K015	C 11/11/2010*	10/31/2012
18	CARL F. KROGMAN (Chance Vought)	Navy OS2U-1, -2, -3, and OS2N-1	LTC-24	LTC-24 as specified and CAR PART 9	AFC-K015	C 11/11/2010*	10/31/2012
19	CIVIL AIR PATROL (DeHavilland)	L-20A	AR-33	CAR PART 8 and Amendments Listed in TCDS No. AR-33	AFC-K015	C 11/11/2010*	10/31/2012

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20	CONSOLIDATED VULTEE AIRCRAFT CORP	BT-13 BT-13A (Navy SNV-1) BT-13B (Navy SNV-2)	A-2-571	CAR PART 4a and Amendments Listed in TCDS No. A-2-571	AFC-K015	C 11/11/2010*	1/23/2001
21	CONSOLIDATED-VULTEE AIRCRAFT CORP, STINSON DIVISION	SM-7B (Army L-12A)	ATC 329	ATC 329 as specified	AFC-K015	C 11/11/2010*	10/31/2012
22	CONSOLIDATED-VULTEE AIRCRAFT CORP, STINSON DIVISION	SR-5, SR-5A (Army L-12), SR-5B, SR-5C, SR-5E With P&W engine installed	ATC 530	ATC 530 as specified	AFC-K015	C 11/11/2010*	10/31/2012
23	CONSOLIDATED-VULTEE AIRCRAFT CORP, STINSON DIVISION	SR-6 SERIES With P&W engine installed	ATC 580	ATC 580 as specified	AFC-K015	C 11/11/2010*	10/31/2012
24	CONSOLIDATED-VULTEE AIRCRAFT CORP, STINSON DIVISION	SR-7A, SR-7B, SR-7C With P&W engine installed	ATC 594	ATC 594 as specified	AFC-K015	C 11/11/2010*	10/31/2012
25	CONSOLIDATED-VULTEE AIRCRAFT CORP, STINSON DIVISION	SR-9F (Army UC-81E)	ATC 640	ATC 640 as specified	AFC-K015	C 11/11/2010*	10/31/2012
26	CONSOLIDATED-VULTEE AIRCRAFT CORP, STINSON DIVISION	SR-10F (Army UC-81F)	TC 685	TC 685 as specified	AFC-K015	C 11/11/2010*	10/31/2012
27	CONSOLIDATED-VULTEE AIRCRAFT CORP, STINSON DIVISION	Stinson W	ATC 435	ATC 435 as specified	AFC-K015	C 11/11/2010*	10/31/2012
28	CURTISS-WRIGHT	Travel Air 4000 With P&W engine installed	ATC 32	ATC 32 as specified	AFC-K015	C 11/11/2010*	10/31/2012
29	CURTISS-WRIGHT	Travel Air A-6000-A	ATC 116	ATC 116 as specified	AFC-K015	C 11/11/2010*	10/31/2012

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30	DELONG (Boeing)	F484	2-555	CAR PART 4 and Amendments Listed in TCDS No. 2-555	AFC-K015	C 11/11/2010*	10/31/2012
31	PAUL V. SHIELDS (Douglas)	Army A-26B, A-26C	TCS L-3-4	LTC-3-4 as specified and CAR PART 9	AFC-K015	C 11/11/2010*	10/31/2012
32	DOUGLAS AIRCRAFT COMPANY	Dolphin 1 Special	2-366	Aero Bulletin 7A and as specified in TCDS No. 2-366	AFC-K015	C 11/11/2010*	10/31/2012
33	EDWARD BUDD MANUFACTURING COMPANY	RB-1	756	TC 756 as specified	AFC-K015	C 11/11/2010*	10/31/2012
34	FAIRCHILD INDUSTRIES	FC-2-W2	ATC 61	ATC 61 as specified	AFC-K015	C 11/11/2010*	10/31/2012
35	FAIRCHILD INDUSTRIES	71	ATC 89	ATC 89 as specified	AFC-K015	C 11/11/2010*	10/31/2012
36	FORD MOTOR COMPANY	S-AT-B	ATC 156	ATC 156 as specified	AFC-K015	C 11/11/2010*	10/31/2012
37	FORD MOTOR COMPANY	S-AT-C	ATC 165	ATC 165 as specified	AFC-K015	C 11/11/2010*	10/31/2012
38	FORD MOTOR COMPANY	S-AT-D	ATC 409	ATC 409 as specified	AFC-K015	C 11/11/2010*	10/31/2012
39	FRAKES AVIATION (Grumman)	G-73 (Mallard)	A-783	CAR PART 4a and Amendments Listed in TCDS No. A-783	AFC-K015	C 11/11/2010*	10/31/2012
40	CONSOLIDATED VULTEE (General Dynamics)	(Army) LB-30	L-6-3	L-6-3 as specified and CAR PART 9	AFC-K015	C 11/11/2010*	10/31/2012
41	GENERAL DYNAMICS	PBY-5 (Army OA-10) PBY-5A (Army OA-10A)	2-548	CAR PART 4a and Amendments Listed in TCDS No. 2-548	AFC-K015	C 11/11/2010*	10/31/2012
42	GENERAL DYNAMICS (Consolidated Vultee)	T8P-1	ATC 662	ATC 662 as specified	AFC-K015	C 11/11/2010*	10/31/2012

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43	GENERAL DYNAMICS (Consolidated Vultee)	16 Commodore	ATC 258	ATC 258 as specified	AFC-K015	C 11/11/2010*	10/31/2012
44	GRUMMAN AIRCRAFT ENGINEERING CORP	(Navy) F8F-1	LTC-23-2	LTC-23-2 as specified and CAR PART 9	AFC-K015	C 11/11/2010*	10/31/2012
45	GRUMMAN AMERICAN AVIATION CORPORATION	G-21, G-21A Goose, (Army OA-9) Navy JRF-1, JRF-2, JRF-3, JRF-4, JRF-5, JRF-6B	TC 654	Aero Bulletin 7A and as specified in TCDS No. TC-654	AFC-K015	C 11/11/2010*	1/23/2001
46	HAMILTON METALPLANE DIVISION BOEING AIRPLANE	H-47	2-329	Aero Bulletin 7A and as specified in TCDS No. 2-329	AFC-K015	C 11/11/2010*	10/31/2012
47	HAMILTON METALPLANE DIVISION BOEING AIRPLANE	H-45	ATC 85	ATC 85 as specified	AFC-K015	C 11/11/2010*	10/31/2012
48	HAWKER BEECHCRAFT CORP (Beechcraft)	Army AT-11, Navy SNB-1	A-2-582	CAR PART 4a and Amendments Listed in TCDS No. A-2-582	AFC-K015	C 11/11/2010*	10/31/2012
49	HAWKER BEECHCRAFT CORP (Beechcraft)	D17S (Army UC-43, UC-43B) (Navy GB-1, GB-2). SD17S	A-649	Aero Bulletin 7A and as specified in TCDS No. A-649	AFC-K015	C 11/11/2010*	10/31/2012
50	HAWKER BEECHCRAFT CORP (Beechcraft)	G17S	779	CAR PART 4 and Aero Bulletin 7A and as specified in TCDS No. 779	AFC-K015	C 11/11/2010*	10/31/2012
51	HAWKER BEECHCRAFT CORP (Beechcraft)	18S (Army C-45C) B18S (Army F-2)	TC 710	CAR PART 4a and Amendments Listed in TCDS No. TC-710	AFC-K015	C 11/11/2010*	10/31/2012
52	HAWKER BEECHCRAFT CORP (Beechcraft)	C18S (Army C-45, -45A, -45F, UC-45B, AT-7, -7A, -7B, -7C) Navy JRB-1, -2, -3, -4, SNB-2, -2C	A-757	CAR PART 4a and Amendments Listed in TCDS No. A-757	AFC-K015	C 11/11/2010*	10/31/2012

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53	HAWKER BEECHCRAFT CORP (Beechcraft)	D-18S (Army C45, -45A, -45F, UG45B, UG45F, AT-7, AT-7A, AT-7B, AT-7C, Navy JRB-1, JRB-2, JRB-3, JRB-4, SNB-2, SNB-2C)	A-757	CAR PART 4a and Amendments Listed in TCDS No. A-757	AFC-K015	C 11/11/2010*	10/31/2012
54	HAWKER BEECHCRAFT CORP (Beechcraft)	D18S, E18S, E18S-9700, G18S, H18, C-45G, TC-45G, C-45H, TC-45H, TC-45J, UC-45J, (SNB-5), JRB-6, 3N, 3NM, 3TM, RC-45J (SNB-5P), UC-45J	A-765	CAR PART 3 and Amendments Listed in TCDS No. A-765	AFC-K015	C 11/11/2010*	1/23/2001
55	HOWARD AIRCRAFT FOUNDATION	DGA-11	672	Aero Bulletin 7A and as specified in TCDS No. 672	AFC-K015	C 11/11/2010*	10/31/2012
56	HOWARD AIRCRAFT FOUNDATION	DGA-15P, (Army UC-70; Navy GH-1, GH-2, GH-3, NH-1)	A-717	CAR PART 4a and Amendments Listed in TCDS No. A-717	AFC-K015	C 11/11/2010*	10/31/2012
57	HOWARD AIRCRAFT FOUNDATION	DGA-15J (Army UC-70B) DGA-15W With P&W engine installed	A-717	CAR PART 4a and Amendments Listed in TCDS No. A-717	AFC-K015	C 11/11/2010*	10/31/2012
58	LOCKHEED MARTIN AERONAUTICS COMPANY	Electra 10-A (Army UC-36A Navy R-20, XR-20-1)	551	Aero Bulletin 7A and as specified in TCDS No. 551	AFC-K015	C 11/11/2010*	10/31/2012
59	LOCKHEED MARTIN AERONAUTICS COMPANY	Electra 10-E	590	Aero Bulletin 7A and as specified in TCDS No. 590	AFC-K015	C 11/11/2010*	10/31/2012
60	LOCKHEED MARTIN AERONAUTICS COMPANY	12-A (Army UC-40, UC-40A Navy JO-1, JO-2)	616	Aero Bulletin 7A and as specified in TCDS No. 616	AFC-K015	C 11/11/2010*	10/31/2012
61	LOCKHEED AIRCRAFT CORP	14-H, 14-H2	ATC 657	ATC 657 as specified	AFC-K015	C 11/11/2010*	10/31/2012
62	LOCKHEED AIRCRAFT CORP	Vega 5, 5A Executive	ATC 93	ATC 93 as specified	AFC-K015	C 11/11/2010*	10/31/2012

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63	LOCKHEED AIRCRAFT CORP	Vega 5-C (Army UC-101)	ATC 384	ATC 384 as specified	AFC-K015	C 11/11/2010*	10/31/2012
64	MUSTANG AVIATION INC. (North American)	(Army) BC-1	LTC-22-	LTC-22 as specified and CAR PART 9	AFC-K015	C 11/11/2010*	10/31/2012
65	NOORDUYN AVIATION LTD	Norseman Mark IV, (Army UC-64) Mark VI (Army UC-64A, UC-64B, UC-64AS), Mark V	A-2-578	CAR PART 4a and Amendments Listed in TCDS No. A-2-578	AFC-K015	C 11/11/2010*	10/31/2012
66	NORTH AMERICAN AVIATION INC. THE BOEING COMPANY (Fokker)	Super Universal	ATC 52	Aero Bulletin 7A and as specified in TCDS No. ATC 52	AFC-K015	C 11/11/2010*	10/31/2012
67	NORTHROP AIRCRAFT CORP	(Army) P-61, P-61A, P-61B	LTC-14	LTC-14 as specified and CAR PART 9	AFC-K015	C 11/11/2010*	10/31/2012
68	ORLANDO HELICOPTER AIRWAYS	HRS-1/CH-19 H-19A, YH-19A, UH-19C	HR1SO	14 CFR PART 21 and Amendments Listed in TCDS No. HR1SO	AFC-K015	C 11/11/2010*	10/31/2012
69	P.J. FRANKLIN (North American)	(Army) BT-14	LTC-32	LTC-32 as specified and CAR PART 9	AFC-K015	C 11/11/2010*	10/31/2012
70	ROBERT H LEWIS (General, Consolidated Vultee)	(Navy) PB2Y-3, 3R, -5, -5R, -5Z	LTC-5	LTC-5 as specified and CAR PART 9	AFC-K015	C 11/11/2010*	10/31/2012
71	RYAN AIRCRAFT CORP	B-7	ATC 262	ATC 262 as specified	AFC-K015	C 11/11/2010*	10/31/2012
72	HELI-I-COP ADVERTISING (Sikorsky Aircraft)	Army R-5A	LTC-19	LTC-19 as specified and CAR PART 9	AFC-K015	C 11/11/2010*	10/31/2012
73	SIKORSKY AIRCRAFT	S-39-B	ATC 375	ATC 375 as specified	AFC-K015	C 11/11/2010*	10/31/2012
74	SIKORSKY AIRCRAFT	S-39-C	2-391	Aero Bulletin 7A and as specified in TCDS No. 2-391	AFC-K015	C 11/11/2010*	10/31/2012

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75	SIKORSKY AIRCRAFT	S-41-B	2-286	Aero Bulletin 7A and as specified in TCDS No. 2-286	AFC-K015	C 11/11/2010*	10/31/2012
76	SIKORSKY AIRCRAFT	S-51	H-2	CAR PART 6 and Amendments Listed in TCDS No. H-2	AFC-K015	C 11/11/2010*	10/31/2012
77	SIKORSKY AIRCRAFT	S-55, S-55B, S-55C	1H4	CAR PART 6 and Amendments Listed in TCDS No. 1H4	AFC-K015	C 11/11/2010*	10/31/2012
78	SIKORSKY AIRCRAFT	VS-44-A	752	CAR PART 4a and Amendments Listed in TCDS No. 752	AFC-K015	C 11/11/2010*	10/31/2012
79	SPARTAN AIRCRAFT COMPANY	7W (Army UC-71)	628	Aero Bulletin 7A and as specified in TCDS No. 628	AFC-K015	C 11/11/2010*	1/23/2001
80	STEARMAN AIRCRAFT COMPANY	ALPHA 4-A	ATC 461	ATC 461 as specified	AFC-K015	C 11/11/2010*	10/31/2012
81	STEARMAN AIRCRAFT COMPANY	4D	ATC 305	ATC 305 as specified	AFC-K015	C 11/11/2010*	10/31/2012
82	STEARMAN AIRCRAFT COMPANY	4E	ATC 292	ATC 292 as specified	AFC-K015	C 11/11/2010*	10/31/2012
83	THE BOEING COMPANY (Douglas)	DC-3-G102, DC-3-C102A (Army C-49E, C-50, C-50A, B, C, D, & C-51) DC-3-G103A, DC-3-G202A (Army C-49, C-49A, B, C, D, J, K) Navy R4D-2 With P&W engine installed	A-618	Aero Bulletin 7A and as specified in TCDS No. A-618	AFC-K015	C 11/11/2010*	10/31/2012

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84	THE BOEING COMPANY (Douglas)	DC3A-SCG & DC3A-SC3G DC3A-S1CG, DC3A-S1C3G (Army C-41, C-41A, C-48, C-48A, C-52, C-52A, C-52B, C-52C, C-53, C-53B, C-53C, C-53D, C-68; Navy R4D-3, R4D-4, DC3A-S4C4G, DC3C-SC3G, DC3C-S1C3G, DC3C-S4C4G (Army C-47, C-47A; Navy R4D-1, R4D-5) DC3C-R-1830-90C (Army C-47B, Navy R4D-6) DC3D-R-1830-90C (Army C-117A)	A-669	Aero Bulletin 7A and as specified in TCDS No. A-669	AFC-K015	C 11/11/2010*	1/23/2001
85	THE BOEING COMPANY (Douglas)	C54-DC (Army C-54, Navy R5D) C54A-DC (Army C-54A, Navy R5D-1) C54B-DC (Army C-54B, Navy R5D-2) C54D-DC (Army C-54D, Navy R5D-3) C54E-DC (Army C-54E, Navy R5D-4) C54G-DC (Army C-54G, Navy R5D-5) DC-4	A-762	CAR PART 4a and CAR PART 4b and Amendments Listed in TCDS No. A-762	AFC-K015	C 11/11/2010*	10/31/2012
86	THE BOEING COMPANY (Douglas)	DC-6	A-781	CAR PART 4a and CAR PART 4b and Amendments Listed in TCDS No. A-781	AFC-K015	C 11/11/2010*	10/31/2012
87	THE BOEING COMPANY (Douglas)	DC-6A (Navy R6D-1, USAF C-118A)	6A3	CAR PART 4b and Amendments Listed in TCDS No. 6A3	AFC-K015	C 11/11/2010*	10/31/2012

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88	THE BOEING COMPANY (Douglas)	DC-6C (Navy R6D-12)	6A4	CAR PART 4b and Amendments Listed in TCDS No. 6A4	AFC-K015	C 11/11/2010*	10/31/2012
89	THE BOEING COMPANY (Rockwell North American)	BC-1A, AT-6 (Navy SNJ-2), AT-6A (Navy SNJ-3) AT-6B, AT-6C (Navy SNJ-4), AT-6D (Navy SNJ-5), AT-6F (Navy SNJ-6, -7) T-6G	A-2-575	CAR PART 4a and Amendments Listed in TCDS No. A-2-575	AFC-K015	C 11/11/2010*	1/23/2001
90	THE BOEING COMPANY	80-A, 80-A1	TC 206	TC 206 as specified	AFC-K015	C 11/11/2010*	10/31/2012
91	THE BOEING COMPANY	100	ATC 133	ATC 133 as specified	AFC-K015	C 11/11/2010*	10/31/2012
92	THE BOEING COMPANY	247-D (Army C-73)	ATC 558	ATC 558 as specified	AFC-K015	C 11/11/2010*	10/31/2012
93	THRUSH AIRCRAFT (Ayers, Quality Aero, Rockwell, Snow)	S2A With P&W engine installed	2A9	CAR PART 8.10(a)(1) and Amendments Listed in TCDS No. 2A9	AFC-K015	C 11/11/2010*	10/31/2012
94	THRUSH AIRCRAFT (Ayers, Quality Aero, Rockwell, Snow)	S-2B, S-2C, 600-S2C	2A7	CAR PART 8.10(a)(1) and Amendments Listed in TCDS No. 2A7	AFC-K015	C 11/11/2010*	10/31/2012
95	THRUSH AIRCRAFT (Ayers, Quality Aero, Rockwell, Snow)	600 S-2D, S-2R, S2R-R1340	A3SW	CAR PART 3 and Amendments Listed in TCDS No. A3SW	AFC-K015	C 11/11/2010*	10/31/2012
96	THRUSH AIRCRAFT (Ayers, Quality Aero, Rockwell, Snow)	600 S-2D, S-2R (S2R), S2R-R1340	A4SW	CAR PART 3 and 14 CFR PART 23 and Amendments Listed in TCDS No. A4SW	AFC-K015	C 11/11/2010*	10/31/2012
97	VIKING AIR LIMITED (DeHavilland)	DHC-2 MK1	A-806	CAR PART 3 and Amendments Listed in TCDS No. A-806	AFC-K015	C 11/11/2010*	10/31/2012

FAA APPROVED MODEL LIST (AML) SA01282NY

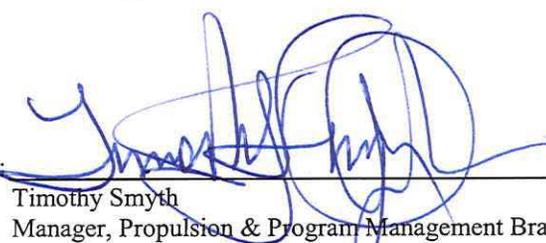
AIRWOLF FILTER CORP FOR INSTALLING REMOTE MOUNT OIL FILTER KIT

Issue Date: January 23, 2001

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION INSTRUCTIONS		AML AMENDMENT DATE
					NUMBER	REVISION NO. AND DATE	
98	VIKING AIR LIMITED (DeHavilland)	DHC-2 MK II, DHC-2 MK 111 With P&W engine installed	A-806	CAR PART 3 and Amendments Listed in TCDS No. A-806	AFC-K015	C 11/11/2010*	1/23/2001
99	VIKING AIR LIMITED (DeHavilland)	DHC-3 (U-1A)	A-815	CAR PART 10 and Amendments Listed in TCDS No. A-815	AFC-K015	C 11/11/2010*	10/31/2012
100	WACO AIRCRAFT COMPANY	S3HD	543	Aero Bulletin 7A and as specified in TCDS No. 543	AFC-K015	C 11/11/2010*	10/31/2012
101	WEATHERLY AIRCRAFT COMPANY	201, 201A, 201B, 201C	A10WE	CAM PART 8 APP B and Amendments Listed in TCDS No. A10WE	AFC-K015	C 11/11/2010*	1/23/2001
102	WEATHERLY AIRCRAFT COMPANY	620, 620A, 620B	A26WE	CAM PART 8 APP B and Amendments Listed in TCDS No. A26WE	AFC-K015	C 11/11/2010*	10/31/2012
103	WILLIAM P. ODON (General Dynamics, Consolidated Vultee)	(Army) C-87A	LTC-30	LTC 30 as specified	AFC-K015	C 11/11/2010*	10/31/2012
104	ZENITH AIRCRAFT CORP	Z-6-A	2-269	Aero Bulletin 7A and as specified in TCDS No. 2-269	AFC-K015	C 11/11/2010*	10/31/2012

* Or Later FAA Approved Revisions

FAA Approved: _____


 Timothy Smyth
 Manager, Propulsion & Program Management Branch
 Chicago Aircraft Certification Office

Date Amended: 01/23/01, 10/31/12

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

AIRWOLF FILTER CORP.

REMOTE MOUNTED OIL FILTER

**On
Aircraft Models Described on
the Applicable AML or Otherwise Approved**

Make: _____

Model: _____

Serial Number: _____

Reg. Number: _____

**STC SA00024NY
STC SA00079NY
STC SA00433NY
STC SA01282NY
STC SA01406NY**

RECORD OF REVISIONS

REV. NO.	EFFECTED PAGE(S)	DESCRIPTION	DATE	APPROVED BY
IR	All	Initial Release	07/05/2012	David Braun, P.E., DER
A	All	Remove reference to Chapter 71 in Chapter 1 Section 4 (page 2). Revise Record of Revisions Table and page headers to agree with accepted format.	10/25/2013	David Braun, P.E., DER

CHAPTER 1 INTRODUCTION

1. Type Design Change: This type design change consists of the installation of the Airwolf Filter Corp. Remote Mount Oil Filter Kit pursuant to STCs SA00024NY, SA00079NY, SA00433NY, SA01282NY and SA01406NY on various aircraft makes and models as approved on the AML associated with the applicable STC. Each STC is tailored for aircraft powered by the engine applications as follows:
 STC SA00024NY – Lycoming Engines
 STC SA00079NY – Continental Engines
 STC SA00433NY – Franklin Engines
 STC SA01282NY – Pratt & Whitney Engines
 STC SA01406NY – Curtis-Wright, Jacobs, Kinner, Ranger and Warner Engines.

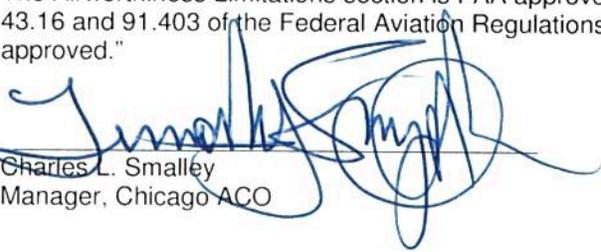
 Many aircraft engines were built with oil screens, or filters mounted on the engine in locations difficult to access. Oil screens are not filters and only prevent the large pieces from going through the engine. Oil filters trap small contaminates (dirt) preventing them from circulating through the engine. Remote Mount Oil Filter Kits replace the screen or difficult to access filter with a replaceable oil filter in a location which minimizes potential oil spills when servicing the oil filter.
2. Scope: The scope of this Instruction for Continued Airworthiness (ICA) focuses exclusively on Maintenance, Inspection & Airworthiness Limitations of this FAA-approved type design change.
3. Purpose: The purposes of this ICA are to apprise Owner/Operators who have modified their airplane pursuant to this type design change: (1) When, where & how to inspect; and (2) When to replace this type design to assure continued operational safety.
4. Arrangement: This ICA is a single document comprised of five (5) Chapters:
 Chapter 1, Introduction;
 Chapter 4, Airworthiness Limitations;
 Chapter 5, Inspection Requirements & Overhaul Schedule;
 Chapter 8, Weight and Balance;
 Chapter 12, Servicing.

5. Applicability: This ICA is applicable to the aircraft noted on each STCs AML. In addition, it is applicable to aircraft which install the remote mounted oil filter system and receive a field approval.
6. Precautions: There are no Precautionary Notes in Airwolf Filter Corp. AFC-K000-ICA.
7. Referenced Publications: Airwolf Filter Corp. Installation Instructions as follows:
STC SA00024NY – AFC-K007
STC SA00079NY – AFC-K008
STC SA00433NY – AFC-K010
STC SA01282NY – AFC-K015
STC SA01406NY – AFC-K017
The maintenance and operations manual for the engine and the aircraft.
8. Distribution: Airwolf Filter Corp, will distribute this ICA to purchasers of Remote Oil Filter kits, and should the need arise to modify this ICA, the AEG-accepted revision will be available to all Owner/Operators. For Owner/Operators having internet access, the latest AEG- accepted revision to this ICA will be available for downloading from the Airwolf Filter Corp. website: <http://www.airwolf.com/>

CHAPTER 4 AIRWORTHINESS LIMITATIONS

There are no Airworthiness Limitations associated with this type design change.

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Secs. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved."


for Charles L. Smalley
Manager, Chicago ACO

Date

10/29/2013

CHAPTER 5 INSPECTION REQUIREMENTS & OVERHAUL SCHEDULE

1. INSPECTION REQUIREMENTS

Inspect for security at each annual or 100 hr. inspection. After any oil change, always ground run the engine and check for leaks..

At each oil change cut the old filter open with Airwolf AFC-470 oil filter cutter (or equivalent) and inspect for metal contamination or any evidence that may indicate impending engine problems.

2. OVERHAUL SCHEDULE

There are no changes to the overhaul schedule relating to Power Plant associated with this type design change.

CHAPTER 8 WEIGHT and BALANCE

1. NET EFFECT:

Installation of the Remote Oil Filter Kit typically results in a five pound addition in weight. Because of the variety of the aircraft covered on each STC's AML, 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. Measure the locations relative to the datum for the moment arms if needed.

Airwolf Filter Corp. recommends that aircraft are weighed and a new weight and balance calculated after all modifications are made.

CHAPTER 12 SERVICING

1. OIL SYSTEM

Oil system to be serviced in accordance with the most recent available engine operation manual or maintenance manual for the engine installed on the aircraft, and the applicable aircraft maintenance manual. Oil should be changed at least once every 12 months. Prior to each oil change run up the engine to operating temperature to assure complete draining of the oil. At each oil change, cut the old filter open with Airwolf AFC-470 oil filter cutter (or equivalent) and inspect for metal contamination or any evidence that may indicate impending engine problems.

To install the new oil filter, position the filter on the remote mounting adapter and tighten the filter to a torque of 18 to 20 ft. lbs. If a torque wrench is not available, tighten the filter with a suitable wrench, three quarters to one full turn after the filter gasket makes contact with the adapter face. Safety wire the filter to the remote mount adapter.

2. STANDARD HARDWARE

Hardware associated with this type design change are standard AN and MS hardware. Contact Airwolf Filter Corp. for spares and refer to the installation instructions when ordering.