



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 up to 450 hp. 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 - New York Aircraft Certification Office (ACO)
Engine and Propeller Division
1600 Stewart Ave
Suite 510
Westbury NY 11590
(516) 228-7332 / (516) 794-5531 Fax

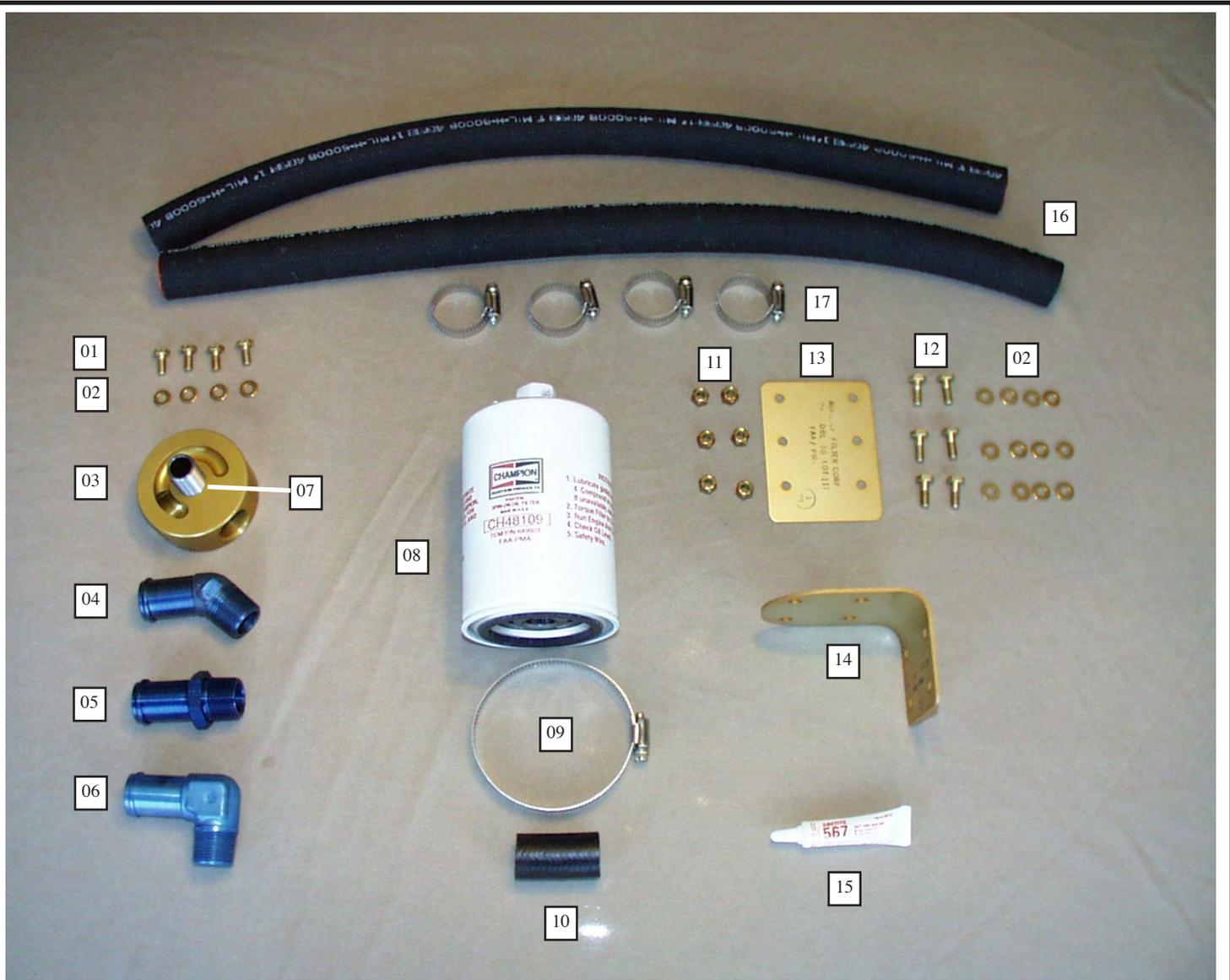
If your aircraft required a field approval, we must have a copy in order to update the (AML) list on our STC. Please send us a copy in addition to the one you will file with your local FSDO. We will then forward our copy to the Aircraft Certification Office for them to update the (AML) list on our STC.

DATA PERTINENT TO ALL INSTALLATIONS

Prior to installing the filter kit on the aircraft, weigh the filter kit, 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 Teflon Hoses specified in this STC. At the time of the order we will need the flare to flare length of the hoses, and hose ends needed on each hose ie: Straight to Straight, Straight to 90°, Straight to 45°, etc. allowing for engine torque and vibration per AC43.13.

Thank you for your help.

Airwolf Filter Corp.



Applicability:

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

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

Parts List No. AFC-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
Revised 10/01/00**

Note A: Some hoses or wires may have to be rerouted so the oil filter assembly will fit into position. Reference and material per AC 43.13-1B & 2A.

01. Remove 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.

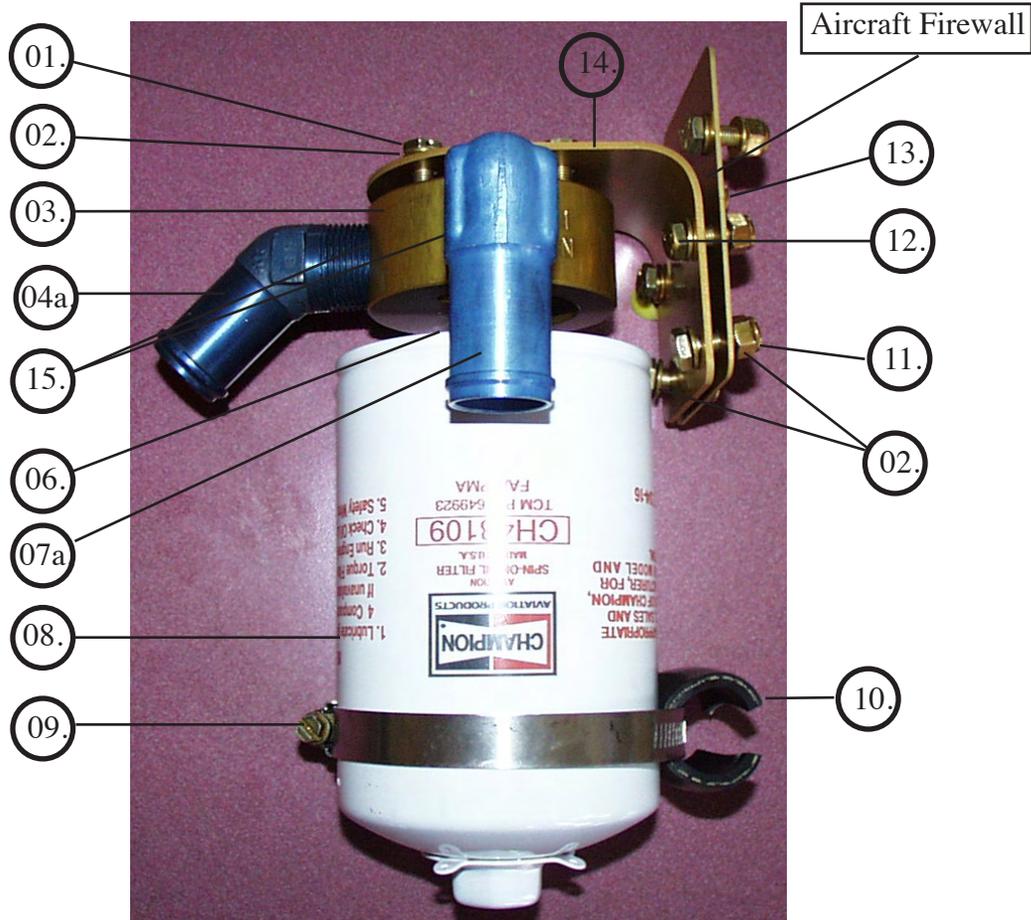
****** WARNING (B) ******

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) |

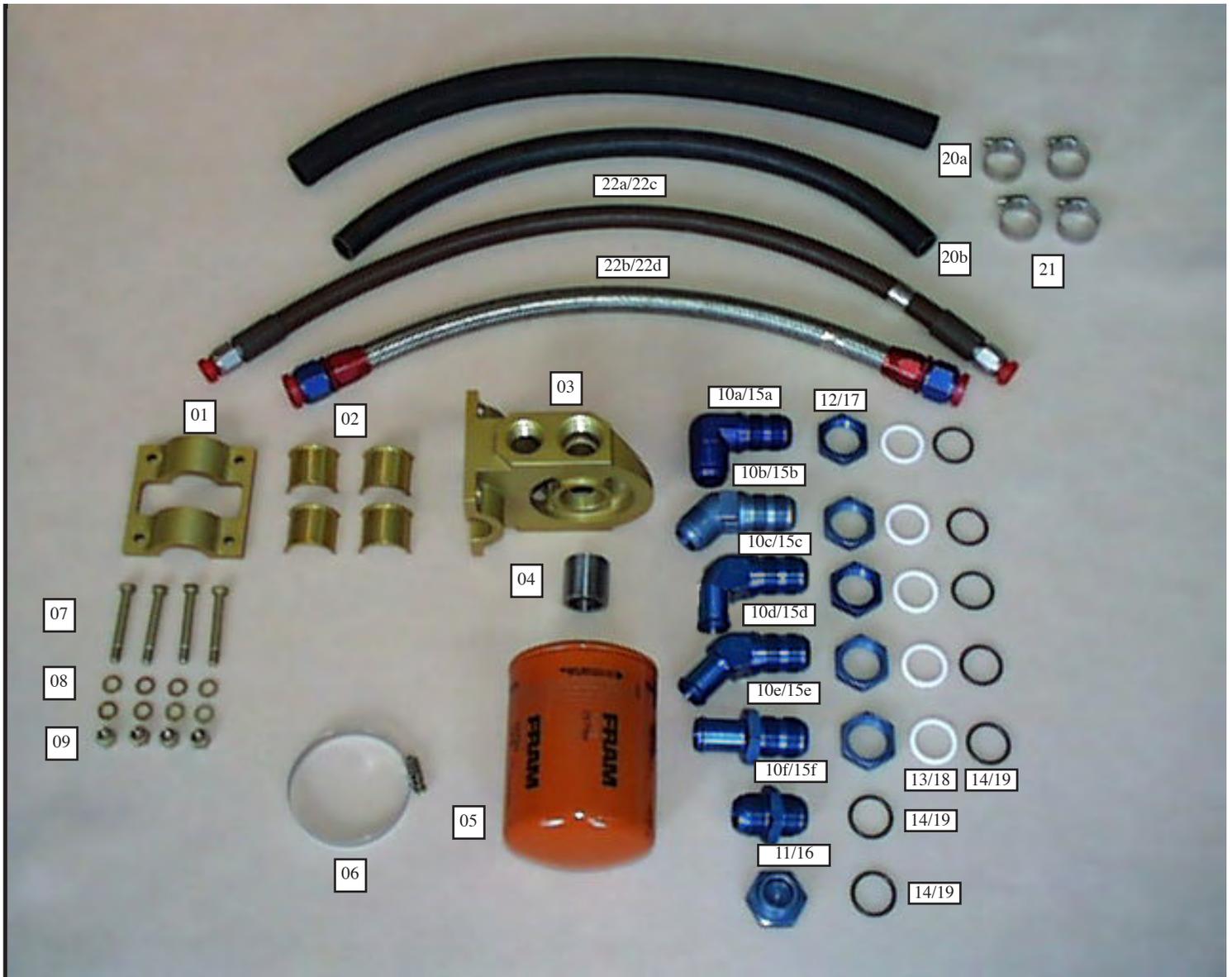
**** WARNING (B) ****

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

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

Parts List No. AFC-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) |

Applicability:

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

First Release 09/01/99

Revised 10/01/00

Parts List No. AFC-K015-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-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.**

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
Revised 10/01/00

Note A: Some hoses or wires may have to be rerouted so the oil filter assembly will fit into position. Reference and material per AC 43.13-1B & 2A.

01. Remove engine cowling as needed to gain access to engine, oil cooler and oil tank.

02. Drain engine oil and tank (optional).

03. Remove engine scavenge oil return line. 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

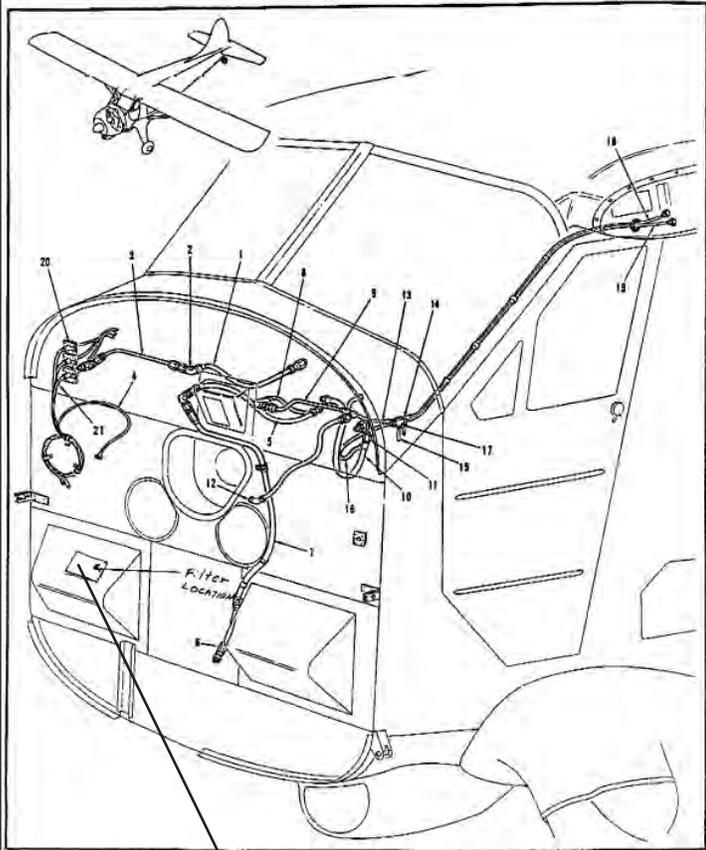
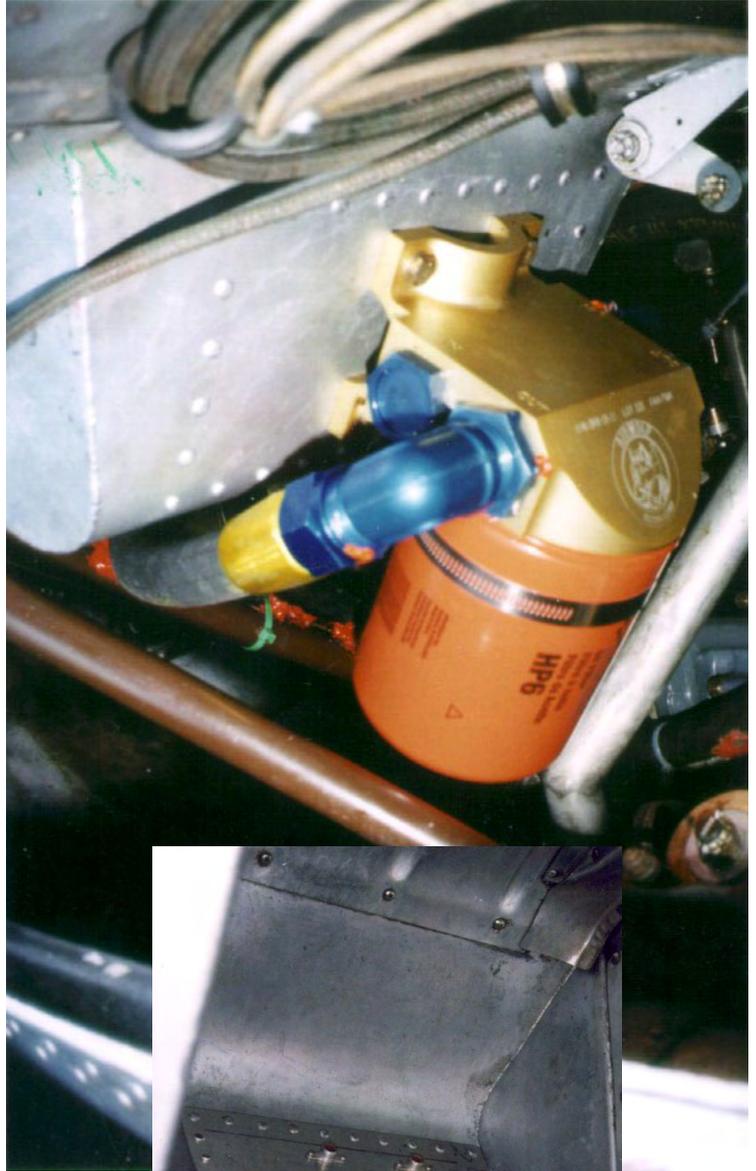


Figure 34 Piping And Wiring - Instrument panel

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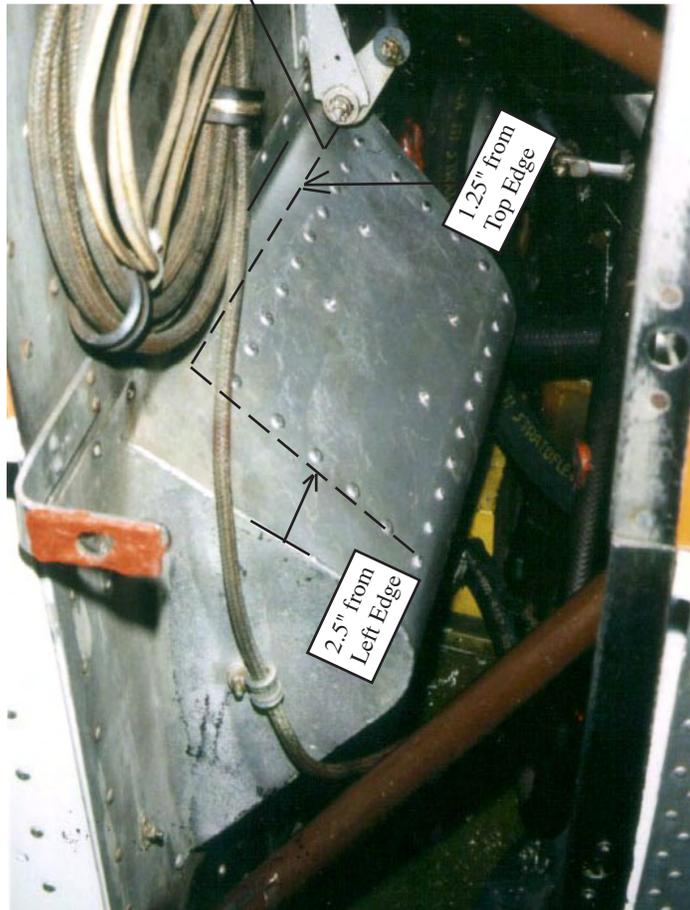
INSTALLATION DRAWING# AFC-D-0054



View from inside RH footwell P/N C2E502A

Airwolf Filter Corp.

Installation Drawing.
DBL-14 Beaver Doubler Plate



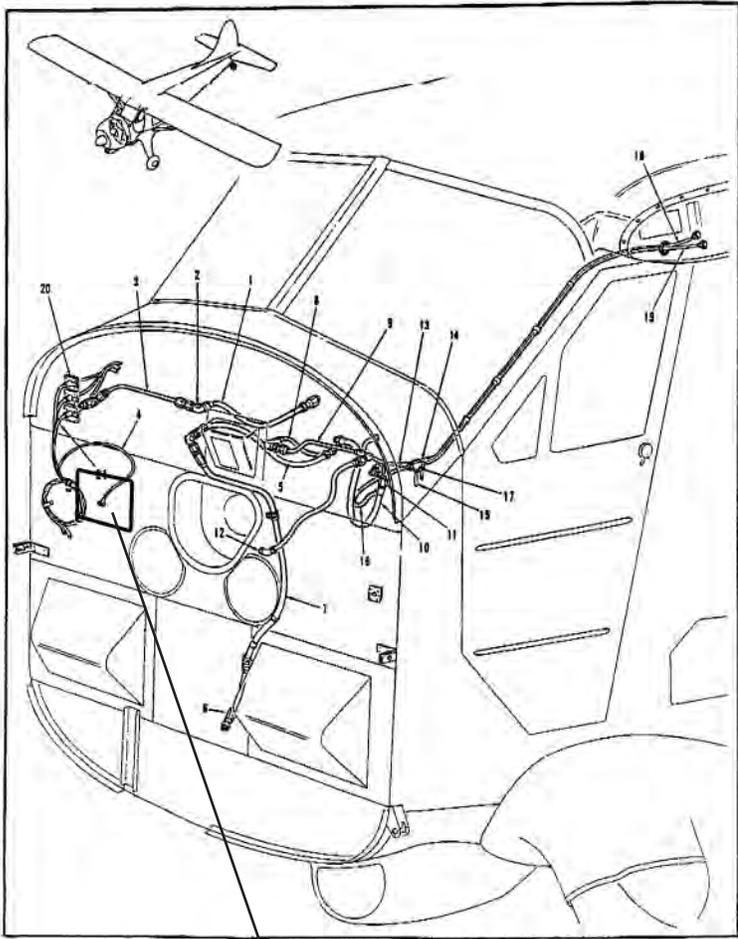


Figure 24 Piping And Wiring - Instrument panel

**INSTALLATION DRAWING#
AFC-D-0054-A**



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

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

Airwolf Filter Corp.

Installation Drawing.
DBL-14 Beaver Doubler Plate

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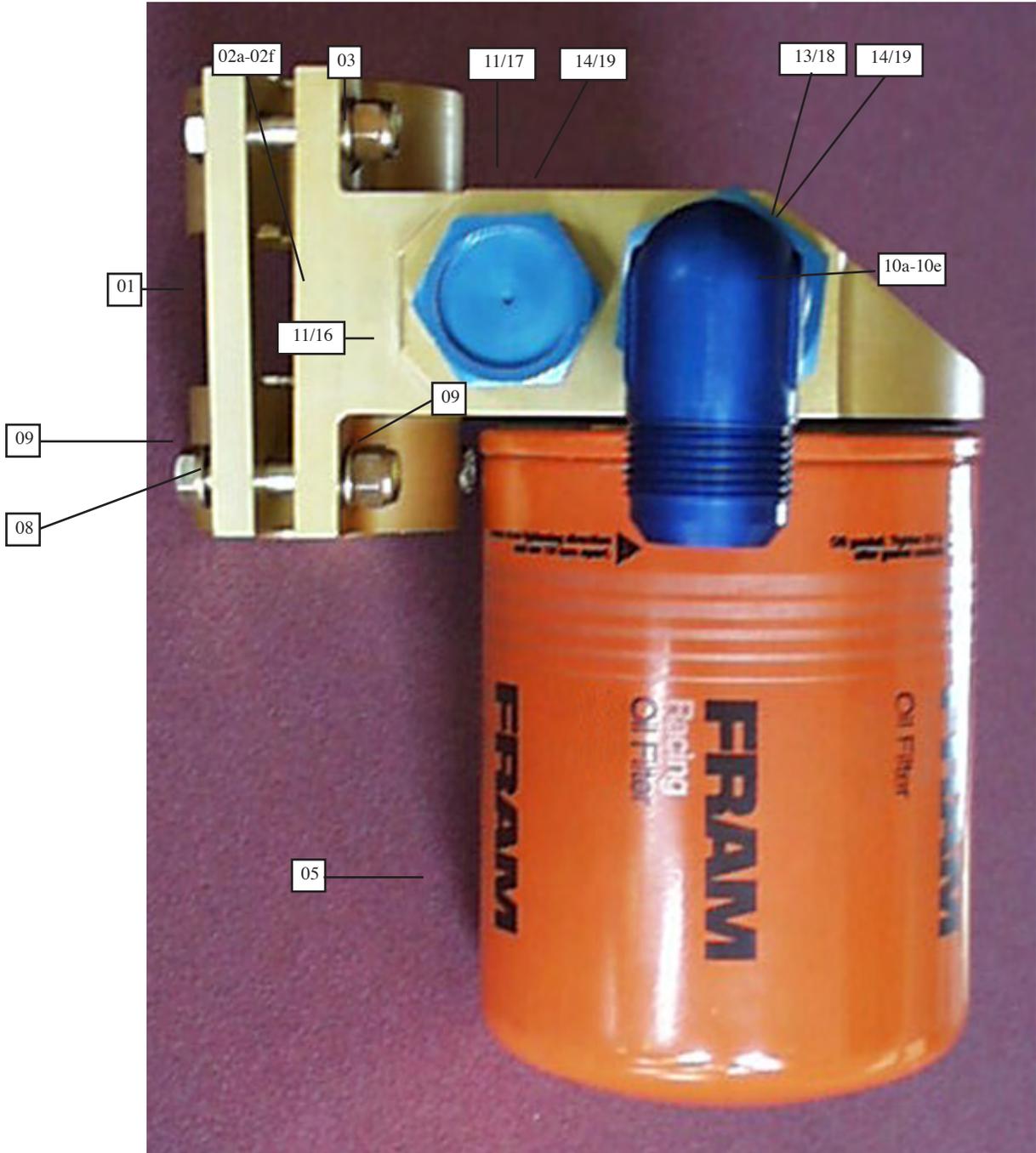
Applicability: Pratt & Whitney R985 & Larger, powered Aircraft having firewalls of .021 ASTM A527 galvanized steel or equivalent.

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

Note A: Some hoses or wires may have to be rerouted so the oil filter assembly will fit into position. Reference and material per AC 43.13-1B & 2A.

01. Remove engine cowling as needed to gain access to engine, oil cooler and oil tank.
02. Drain engine oil and tank (optional).
03. Remove engine scavenge oil return line. (Note this may be a length of 3/4" or 1" MIL6000 hose). This line routes from the engine to the oil tank, or from the engine to the oil cooler, whichever is applicable on your aircraft.
NOTE: You always want to filter oil at it's hottest point, and in front of the oil cooler. The hotter the oil is, the more it is willing to get rid of dirt and contaminants, and it keeps the oil cooler from becoming a trash collector. Therefore the oil filter should always be installed ahead of the oil cooler.
04. Determine what size scavenge oil line is used in this particular aircraft.
05. Determine location of oil filter base (03) and decide 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



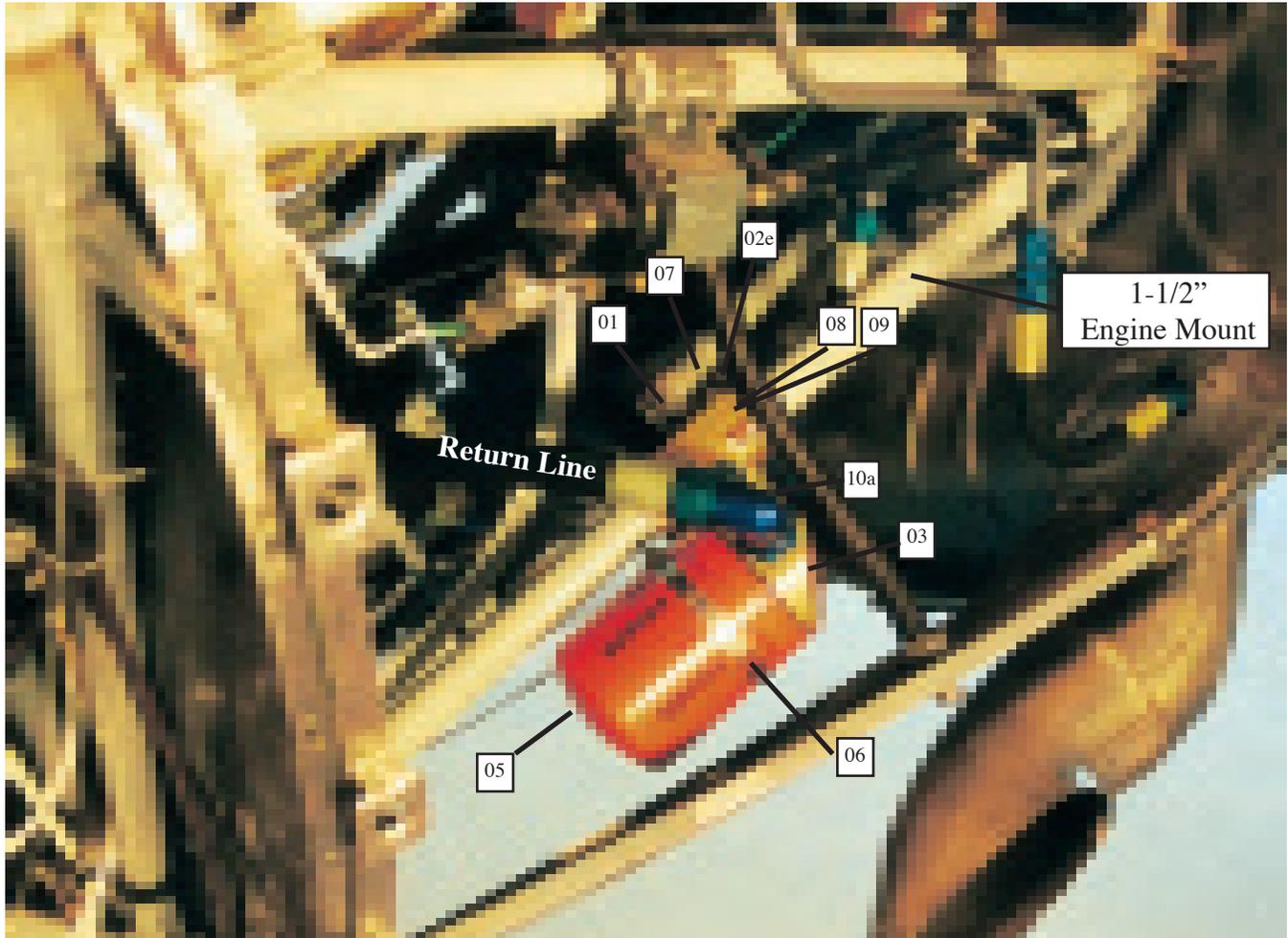
**TYPICAL
ENGINE MOUNT INSTALLATION**

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

| Index | Part Number | Description | Quantity |
|-------|-------------|--|----------|
| 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

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| | | |

Revisions

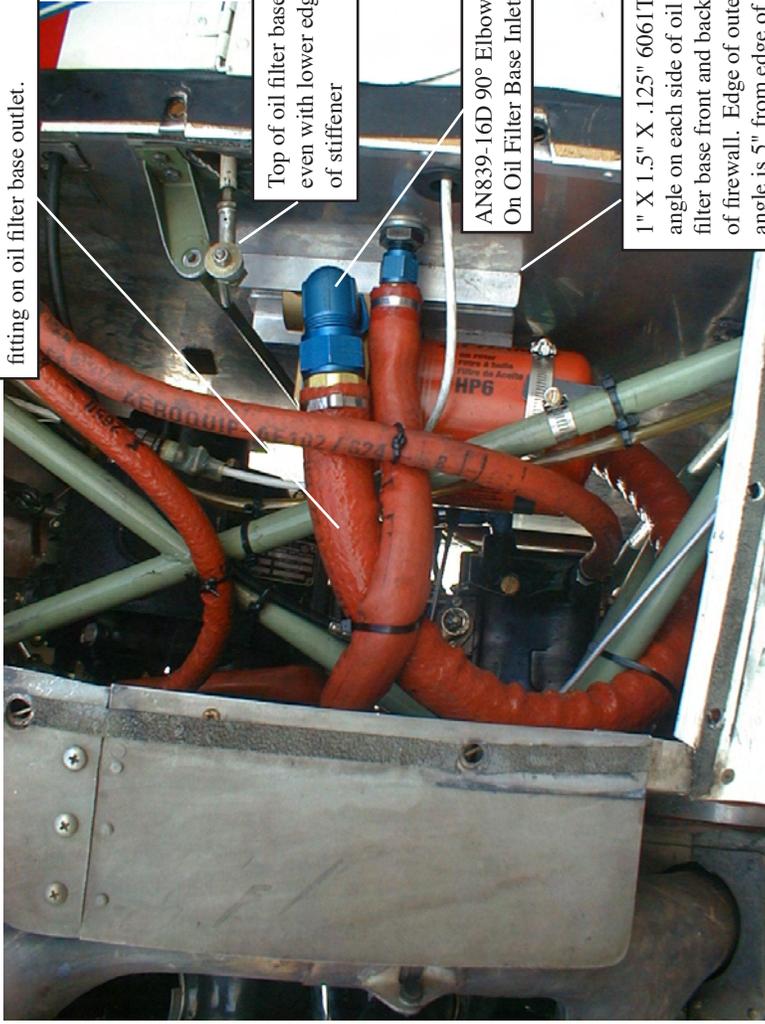
LH VIEW

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.

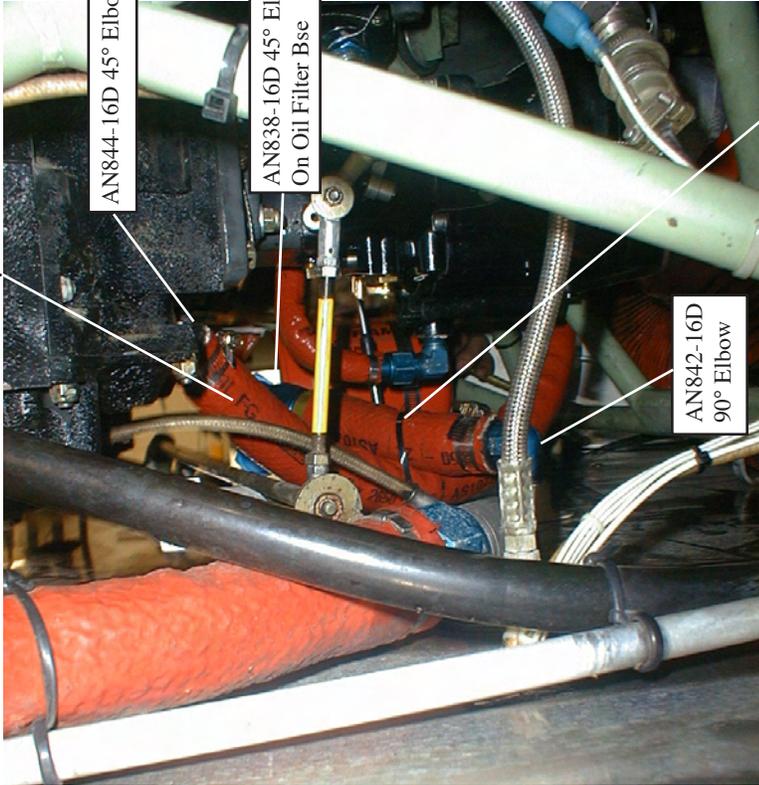
RH VIEW

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.

Airwolf Filter Corp.

Typical Installation in Weatherly

INSTALLATION DRAWING# AFC-D-0055

Revisions

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

OFB-18-16
1.375" Bushing Set

LH ENGINE



Secure with Bolts (07),
Nuts (08), and Washers
(09) provided

QS100M52H Clamp
Safety wire to bolt

AFC-700 Oil Filter



AN833-16D 90° Elbow
Connect "OUT" to oil
cooler inlet.

Airwolf Filter Corp.

Typical Installation in Douglas DC-3 / C-47

INSTALLATION DRAWING# AFC-D-0056

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

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

Revision: Date: _____

This sixteen item checklist are Instructions for Continued Airworthiness (ICA), to comply with FAA Handbook Bulletin for Airworthiness (HBAW-98-18 Dated October 7, 1998), are applicable to the aircraft above when the following equipment is installed:

SYSTEM: Airwolf Remote Mount Oil Filter System.

Airwolf Filter Corp
15369 Madison Rd
Middlefield, OH 44062



| ITEM | CHECKLIST INFORMATION |
|------|--|
| 1. | <p>Introduction: This section briefly describes the aircraft, engine, propeller, or component that has been altered. Include and other information on the content, scope, purpose, arrangement, applicability, definitions, abbreviations, precautions, units of measurement, referenced publications, and distribution of the ICA as applicable.</p> <p>Comment: _____ with Pratt & Whitney _____ engine. <div style="display: flex; justify-content: space-around; width: 100%;"> Aircraft Model Engine Model </div></p> |
| 2. | <p>Description: Of the major alteration, it's function including an explanation of it's interface with other systems, if any.</p> <p>Comment: Installation of Airwolf Remote Mounted Oil Filter Kit P/N AFC-K015</p> |
| 3. | <p>Control: Operation information: Or special procedures if any.</p> <p>Comment: Pre-heating of both the engine and engine oil is recommended prior to starting the engine during periods of cold weather where the temperature is 30°F or below.</p> |
| 4. | <p>Servicing information: Such as types of fluids used, servicing points, and location of access panels, as appropriate.</p> <p>Comment: Oil System to be serviced in accordance with Pratt & Whitney Service Bulletin 1183 Revision T or higher. Oil should be changed at least once each 12 months. Cut the old filter open with Airwolf AFC-570 oil filter cutter at each oil change and inspect for metal contamination or any evidence that may indicate impending engine problems.</p> |
| 5. | <p>Maintenance Instructions: Such as recommended inspection/maintenance periods in which each of the major alteration components are inspected, cleaned, lubricated, adjusted, tested, including applicable wear tolerances and work recommended at each scheduled maintenance period. This section can refer to the manufactures instructions for the equipment installed where appropriate e.g. functional checks, repairs, inspections.) It should also include any special notes, cautions, or warnings as applicable.</p> <p>Comment: Inspect for security at each annual or 100 hr . inspection. After any oil change, always ground run the engine and check for leaks before flight.</p> |
| 6. | <p>Trouble shooting information: Information describing probably malfunctions, how to recognize those malfunctions, and the remedial actions to be taken.</p> <p>Comment: __N/A</p> |
| 7. | <p>Removal and replacement information: This section describes the order and method of removing and replacing products, parts, and any necessary precautions. This section should also describe or refer to the manufacture's instructions to make required tests trim checks, alignment, calibrations, center of gravity changes, lifting or shoring, etc., if any.</p> <p>Comments: __N/A</p> |
| 8. | <p>Diagrams: Of access plates and information, if needed, to gain access for inspection.</p> <p>Comment: __N/A</p> |
| 9. | <p>Special inspection requirements: Such as X-ray, ultrasonic testing, or magnetic particle inspection, if required.</p> <p>Comment: __N/A</p> |
| 10. | <p>Application of protective treatments: To the affected area after inspection and/or maintenance, if any.</p> <p>Comment: __N/A</p> |

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

Form AFC-K015-ICA Revised 10/01/00

| | |
|-----|--|
| 11. | Data: Relative to structural fasteners such as type, torque, and installation requirements if any. Comment: __N/A |
| 12. | List of special tools: Special tools that are required, if any. Comment: __N/A |
| 13. | For commuter category aircraft: The following additional information must be furnished, as applicable: A. Electrical Loads B. Methods of balancing flight controls. C. Identification of primary and secondary structures> D. Special repair methods applicable to the airplane. Comment: __N/A |
| 14. | Recommended overhaul periods: Are required to be noted on the ICA when an overhaul period has been set by the manufacturer of a component, or equipment. If there is no overhaul period, the ICA should state for item 14: "No additional overhaul time limitations." Comment: __N/A |
| 15. | Airworthiness Limitation Section: Include any "approved" airworthiness limitations identified by the manufacturer of FAA type Certificate Holding Office (e.g., An STC incorporated in a larger field approved major alteration may have an airworthiness limitation.) The FAA inspector should not establish, alter, or cancel airworthiness limitations without coordinating with the appropriate FAA type Certificate Holding Office. If there are no changes to the airworthiness limitations, the ICA should state for item 15: "No additional airworthiness limitations" or "Not Applicable." Comment: __N/A |
| 16. | Revision: This section should include information on how to revise the ICA. For example, a letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. The FAA inspection accepts the change by signing Block 3 and including the following statement: "The attached revised/new Instructions for Continued Airworthiness (date _____) for the above aircraft or component major alteration have been accepted by the FAA, superseding the Instructions for Continued Airworthiness (date _____)." Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location, date of the Form 337. Comment: __ A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. The FAA inspector accepts the change by signing Block 3 and including the following statement: "The attached revised/new Instructions for Continued Airworthiness (date _____) for the above aircraft or component major alteration have been accepted by the FAA, superseding the Instructions for Continued Airworthiness (date _____)." Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location, date of the Form 337. |

NOTE:

Implementation and Record Keeping: For major alterations performed in accordance with FAA Field Approval policy, the owner operator operating under part 91 is responsible for ensuring that the ICA is made part of the applicable section 92.409 inspection program for their aircraft. This is accomplished when a maintenance entry is made in the aircraft's maintenance record in accordance with section 43.9. This entry recorded the major alteration and identifies the original ICA location (e.g., Block 8 of FAA Form 337, dated 5/28/98) along with a statement that the ICA is now part of the aircraft's inspection/maintenance requirements.

For major alterations performed in accordance with field approval on air carrier aircraft, the air carrier operator is responsible for ensuring that the ICA is made part of the applicable inspection/maintenance program for their aircraft. If a procedure is not currently included in the operator's manual to incorporate ICA, this process will need to be appropriately addressed (i.e. the operator submits a revision to its maintenance program to the applicable certificate-holding district office (CHDO)).

For aircraft inspected under an Approved Aircraft Inspection Program (AAIP), the operator will submit a change to the CHDO in accordance with section 135.419b).

For air carrier aircraft inspected using an annual/100 hour inspection program, a reference to the new ICA will be made in the aircraft's maintenance record in accordance with section 43.9. This entry records the major alteration and identifies the original ICA location (e.g., ICA are located/attached to Block 8 of FAA Form 337, dated 5/28/98). In addition, the operator will request a revision to the operator's Operations Specifications, additional maintenance requirements, which incorporates the ICA into the inspection program.