



# AIRWOLF FILTER CORP.

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TO THE MECHANIC:

This P/N AFC-K008 remote mount oil filter kit incorporates our generic STC approved for all Continental 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-K008 kit and the STC# SA00079NY. 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 an semi-annual basis, and until your aircraft is listed, a field approval is required. If you are unsure whether or not you need a field approval, please call us directly.

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

If your local FSDO. inspector has any questions or concerns on this STC, he is to call the following office who will clarify the details. they are 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) 228-7300 / (516) 794-5531 Fax

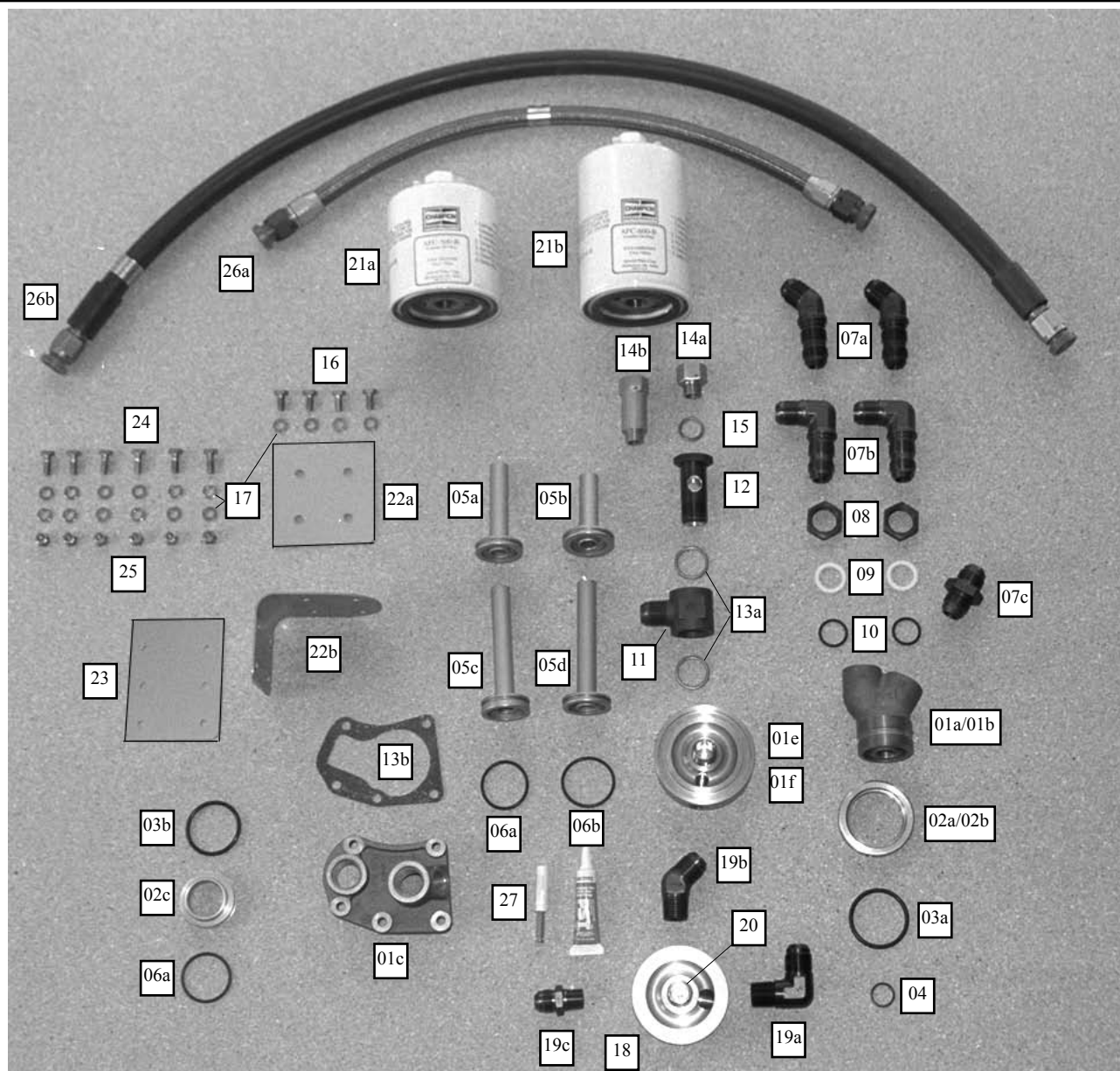
If your aircraft required a field approval, we must have a copy in order to update the (AML) list on our STC. Please send us a copy in addition to the one you will file with your local FSDO. We will then forward our copy to the ACO for their office to update the (AML) list on our STC.

## 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°, 45° TO 45°, or 45° to 90° allowing for engine torque and vibration per AC43.13.

Thank you for your help.

**Airwolf Filter Corp**



**Oil Filter Kit AFC-K008**

**Applicability:**

Continental powered Single and Multi Engine  
 Fixed Wing Aircraft less than 450hp.  
 having firewalls of .021 ASTM A527 galvanized steel or equivalent.

First Release 01/08/94

Amended 10/01/02

**Parts List No. AFC-K008-PL**

<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
01a.	CON-10 or	Full Flow Engine Adapter [1-3/4"-16 Threads]	(1)
01b.	CON-11 or	Full Flow Engine Adapter [1-13/16"-16 Threads]	(1)
01c.	CON-12 or	Full Flow Engine Adapter "E" Series Engines	(1)
01d.	CON-16	Full Flow Engine Adapter C85-IO240	(1)
01e.	OFB-17	Full Flow Engine Adapter -10 Port	(1)
01f.	OFB-15	Oil Filter Base, -12 Port	(1)
02a.	RNG-10 or	Sealing Ring [1-3/4"-16 Threads]	(1)
02b.	RNG-11	Sealing Ring [1-13/16"-16 Threads]	(1)
02c.	RNG-17	Oil Divertor Ring, "E" Series	(1)
03a.	M83248/1-223	Sealing O-Ring	(1)
03b.	M83248/1-222	Oil Divertor O-Ring	(1)
04.	M83248/1-016	O-Ring, Nosepiece	(1)
05a.	EXT-10 or	Oil Screen Adapter - A50, A65, A75, A80, C75, C85, C90, C125, O-200, IO240	(1)
05b.	EXT-11 or	Oil Screen Adapter - C145, O300, GO300, & IO-360A, C, D, G, H, J, K	(1)
05c.	EXT-12 or	Oil Screen Adapter - O-470A, B, E, G, J, K, L, M, P, R, S, U, IO-470C, D, E, F, G, H, J, K, L, M, N, P, R, S, U, V IO-520A, D, E, F, J, K, L, / TSIO-520C, G, H, M, P, R, T	(1)

**Oil Filter Kit AFC-K008**

Applicability: Continental powered Single and Multi Engine  
 Fixed Wing Aircraft less than 450hp.  
 having firewalls of .021 ASTM A527 galvanized steel or equivalent.

First Release 01/08/94

Amended 10/01/02

**Parts List No. AFC-K008-PL (continued)**

<b>Index</b>	<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
05d.	EXT-14	Oil Screen Adapter - O470-11 & 15	(1)
06a.	M83248/1-126 or	O-Ring, Use w/EXT-10 or 12 Adapter, Oil Screen, or RNG-17 Oil Diverter Ring	(1)
06b.	M83248/1-128	O-Ring, Use w/EXT-11 or 14 Adapter, Oil Screen	(1)
07a.	AN837-10D-SP or	45° Bulkhead Fitting	(2)
07b.	AN833-10D-SP or	90° Bulkhead Fitting	(Opt)
07c.	AN815-10D-SP	Union	(Opt)
07d.	AN919-15D-SP	Union, Use with OFB-16 Adapter	(2)
08a.	AN6289-10D	Bulkhead Nut	(2)
09.	MS28773-10	Boss Gasket	(2)
10a.	M83248/1-908	-8 O-Ring, Use with OFB-16 Adapter	(2)
10b.	M83248/1-910	-10 O-Ring	(2)
11.	AN776-10D	90° Fitting	(1)
12a.	TPA-775	Temp Probe Adapter	(Opt)
12b.	TPA-776	Temp Probe Adapter & Gasket	(Opt)
13a.	MS35769-18	Temp Probe Adapter Gasket	(Opt)
13b.	352067	Engine Adapter Gasket, Use with CON-12 Adapter	(1)
13c.	652070	Engine Adapter Gasket, Use with CON-16 Adapter	(1)
14a.	OTA-527 or	5/8" Long Oil Temp Adapter	(Opt)
14b.	OTA-2250	2-1/4" Long Oil Temp Adapter	(Opt)
15	MS35769-11	Oil Temp Adapter Gasket	(Opt)
16.	AN4H-4A	Drilled Head Bolts	(4)
17a.	AN960-416	Flat Washers	(16)
17b.	AN960-524	Flat Washers, Use with CON-12 Adapter	(3)
18a.	OFB-11	Oil Filter Base, -10 Port	(1)
18b.	OFB-10	Oil Filter Base, -8 Port, Use with CON-16 Adapter	(1)
19a.	MS20822-10D or	90° Elbow	(1)
19b.	MS20823-10D or	45° Elbow	(1)
19c.	AN816-10D	Flared Tube Nipple	(Opt)
19d.	AN842-16D	90° Hose Elbow [Stearman Kit]	(1)
19e.	AN844-16D	45° Hose Elbow [Stearman Kit]	(Opt)
19f.	MS20822-8D or	90° Elbow, Use with CON-16 Adapter	(1)
19g.	MS20823-8D or	45° Elbow, Use with CON-16 Adapter	(1)
19h.	AN816-8D	Flared Tube Nipple, Use with CON-16 Adapter	(Opt)
20.	OFS-10	Oil Filter Stud	(1)
21a.	AFC-500 or	Std Oil Filter or Equivalent [Champion CH48108]	(1)
21b.	AFC-600	Long Oil Filter or Equivalent [Champion CH48109]	(1)
22a.	OFM-10	Horizontal Oil Filter Mount	(1)
22b.	OFM-11	Vertical Oil Filter Mount	(1)
23.	DBL-10	Doubler Plate	(1)
24.	AN4-5A	Bolts	(6)
25a.	MS20365-428A	Locknuts	(6)
25b.	MS20365-524A	Locknuts, Use with CON-16 Adapter	(3)
26a.	AE7010000J-0xxz or	Aeroquip Hose Assy w/o Fire Sleeving.	(Opt)
26b.	F13000010-0xxz	Titeflex® Teflon Hose Assy with Fire Sleeving.	(Opt)
27.	MIL6000-1-25	25" Long MIL 6000 Hose [Stearman Kit]	(2)
28.	MIL6000-3/4-2	Dampener	(1)
29.	QS100M16H	1" Hose Clamp [Stearman Kit]	(4)
30.	QS100M52H	3-1/4" Hose Clamp Dampener	(1)
31.	56707	Loctite® 567 PST Teflon Thread Sealant	(1)
32.	AFC-K008-II	Installation Instructions	(1)
33.	AFC-K008-MI	Instructions for Continued Airworthiness	(1)
34.	AFC-K008-PL	Parts List	(1)

Applicability: Continental powered Single and Multi Engine  
Fixed Wing Aircraft less than 450hp.  
having firewalls of .021 ASTM A527 galvanized steel or equivalent.

First Release 01/08/94

Amended 10/01/02

\*\*\*\*\* 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)

\*\*\*\*\* WARNING (D) \*\*\*\*\*

On some Continental engines, you may find the 1-3/4"-16 UNF-3B threads in the oil pump/accessory case where the oil screen was located, to be damaged or not complete causing our CON-10 adapter to bind during installation. DO NOT FORCE our engine adapter into these damaged threads as galling WILL occur. A specially ground 1-3/4"-16 UNF-3B tap is available from Airwolf that usually will cleanup these threads.

## Installation Instructions No. AFC-K008-II-A

Installation of the remote oil filter kit on the following engines using P/N A3568 Oil Screen Assy: First Release 01/08/94  
A50, A65, A75, A80, C75, C85, C90, C125, O-200, IO240 Amended 10/01/02

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 the Continental screen assembly P/N A3568.
02. Clean Screen housing and gasket surface. Assemble Engine Adapter (01a) as follows:
  - (A) Lubricate threads of Engine Adapter (01a) and Sealing Ring (02a) with suitable lubricant.
  - (B) Thread Sealing Ring (02a) onto Engine Adapter (01a) past smooth area, onto second set of threads.
  - (C) Install lightly oiled O-Ring, (03), and position in the smooth area between the upper and lower threads.
  - (D) Run Sealing Ring (02a) down against O-ring. [Assure O-ring is still centered in non threaded area.]
  - (E) Insert lightly oiled O-ring, (04) into groove inside of center opening of Engine Adapter (01a)
03. Install lightly oiled O-ring (06a) onto Oil Screen Adapter (05a) and insert into screen chamber of engine. When seated correctly, tube will extend above face of engine accessory case approximately 1/4". As adapter is inserted, resistance will be met. Continue pressure indicating compression of O-Ring (06a)- until adapter is seated in lower screen seat.
04. Thread engine adapter (01a) into engine oil screen opening being sure that oil screen adapter (05b) is started in center of the opening. Screw in engine adapter (01a) until light resistance indicates that O-ring (03) is seated on the accessory case. Orient the engine adapter (01a) as necessary, being careful not to screw the engine adapter (01a) in or out more than 1/2 turn from present position. This assures that the O-Ring is still centered in the non threaded area. Do not tighten sealing ring yet.
05. Onto each bulkhead fitting (07a) or (07b), install in order 1 ea. bulkhead nut (08), boss gasket (09), and O-Ring (10). If using a union (07c), install O-Ring (10) only. When assembled correctly, the O-Ring (10) is positioned in the center of the non-threaded area, between the upper set of threads and the lower set of threads on the bulkhead fitting. Install each completed assembly into the engine adapter (01a) and located towards intended direction of hoses.

**CAUTION:** O-ring only seals in the center of the non-threaded area between the upper set threads and lower set of threads on the bulkhead fitting. Failure to position the O-Ring in this area, may cause a small oil leak.

06. On A50 & A65 engines, remove the oil drain plug and relocate the oil temperature capillary tube and oil temp adapter using oil temp gasket (15) provided and safety wire.
07. On A75, A80, C75, C85, C90, & O200 engines, remove one of the Continental P/N 532432 plugs located in the front of the engine which caps off access to the oil gallery. Remove the brass oil temp adapter nut from the existing oil screen and relocate the oil temperature bulb to this location. Torque to specs and secure.

**NOTE D:** Capillary tube may be kept at present location provided sufficient space exists between the engine and firewall. To utilize the existing location, 1 ea. 90° Fitting (11), Temp Probe Adapter (12), Oil Temp Adapter Gasket(14), and 2 ea. Temp Probe Adapter Gasket (13a) must be used per installation drawings.

08. Remove the oil drain plug and relocate the oil temperature capillary tube and oil temp adapter using oil temp gasket (15) provided and safety wire.

\*\*\*\*\* SEE WARNING (A) ABOVE \*\*\*\*\*
09. Using the horizontal oil filter mount (22a) or vertical oil filter mount (22b) as a drilling template, locate and drill mounting holes using a letter "F" drill.
- 10a. Secure vertical oil filter mount (22b) to Fwd side of firewall and doubler plate (23) to Aft side of firewall using bolts (24), washers (17), and locknuts (25). OR
- 10b. Secure oil filter base (18) to Fwd side of firewall and horizontal oil filter mount plate (22a) to rear side using bolts (16), washers (17) and secure with .032 MS20995-C safety wire.

\*\*\*\*\* SEE WARNING (B) ABOVE \*\*\*\*\*
11. Install any combination of fitting (19a), (19b), or (19c) into oil filter base (18). Mount to vertical oil filter mount (22b.) using bolts (16), washers (17), and secure with .032 MS20995-C safety wire.
12. Determine hose lengths and order appropriate hoses. Ex: P/N for a 24-7/8" long firesleeved hose with straight swivel fittings at each end of the hose is F13000010-0247.

\*\*\*\*\* SEE WARNING (C) ABOVE \*\*\*\*\*
13. Install 2 ea. hose assy's (26a) or (26b) connecting the "A" port on the filter adapter to the "A" port on the oil filter base and the "B" port on the filter adapter to the "B" port on the oil filter base per installation drawings and tighten hose fittings to 270-350 in/ lbs.
14. After hoses have taken natural set, and hose fittings tightened, tighten sealing ring (02a) with 2" Pin Spanner wrench. Do not overtighten. Secure with safety wire. Note: Approximately 1/4-1/2 turn is all that is needed to compress the Viton O-ring properly and no leakage will occur.
15. Install oil filter (21a), torque per instructions on oil filter and secure with safety wire.
16. Run engine and check for leaks.
17. Determine weight and balance, initiate 337 form, and update the equipment list.

## Installation Instructions No. AFC-K008-II-B

Installation of the remote oil filter kit on the following engines using P/N 530003 Oil Screen Assy:  
C145, O300, GO300, & IO-360A, C, D, G, H, J, K

First Release 01/08/94  
Amended 10/01/02

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 the Continental screen assembly P/N 530003
02. Clean Screen housing and gasket surface. Assemble Engine Adapter (01a) as follows:
  - (A) Lubricate threads of Engine Adapter (01a) and Sealing Ring (02a) with suitable lubricant.
  - (B) Thread Sealing Ring (02a) onto Engine Adapter (01a) past smooth area, onto second set of threads.
  - (C) Install lightly oiled O-ring, (03), and position in the center of the smooth area between the upper and lower threads.
  - (D) Run Sealing Ring (02a) down against O-ring (03). [Assure O-ring is still centered in non threaded area.]
  - (E) Insert lightly oiled O-ring, (04) into groove inside of center opening of Engine Adapter (01a)
03. Install lightly oiled O-ring (06b) onto Oil Screen Adapter (05b) and insert into screen chamber of engine. When seated correctly, tube will extend above face of engine accessory case approximately 1/4". As adapter is inserted, resistance will be met. Continue pressure indicating compression of O-ring (06a)- until adapter is seated in lower screen seat.
04. Thread engine adapter (01a) into engine oil screen opening being sure that oil screen adapter (05b) is started in center of the opening. Screw in engine adapter (01a) until light resistance indicates that O-ring (03) is seated on the accessory case. Orient the engine adapter (01a) as necessary, being careful not to screw the engine adapter (01a) in or out more than 1/2 turn from present position. This assures that the O-Ring is still centered in the non threaded area. Do not tighten sealing ring yet.
05. Onto each bulkhead fitting (07a) or (07b), install in order 1 ea. bulkhead nut (08), boss gasket (09), and O-ring (10). If using a union (07c), install O-ring (10) only. When assembled correctly, the O-ring (10) is positioned in the center of the non-threaded area, between the upper set of threads and the lower set of threads on the bulkhead fitting. Install each completed assembly into the engine adapter (01a) and located towards intended direction of hoses.

**CAUTION:** O-ring only seals in the center of the non-threaded area between the upper set threads and lower set of threads on the bulkhead fitting. Failure to position the O-ring in this area, may cause a small oil leak.

06. On C-145 & O-300 installations, remove oil scavenge screen (TCM P/N 5300050), drill & tap a 5/8" x 18 thread for future installation of oil temperature bulb, and reinstall in engine accy case. Transfer existing capillary temp probe adapter from oil pressure screen, to scavenge oil screen. Reroute oil temperature bulb into tachometer cable hole in firewall and install into adapter in scavenge oil screen and tighten.

**CAUTION:** Do not overtorque or break capillary tube otherwise oil temperature gage will have to be replaced.

**NOTE D:** Capillary tube may be kept at present location provided sufficient space exists between the engine and firewall. To utilize the existing location, 1 ea. optional 90° Fitting (11), Temp Probe Adapter (12), Oil Temp Adapter Gasket(14), and 2 ea. Temp Probe Adapter Gasket (13a) must be used per installation drawings.

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

07. Using the horizontal oil filter mount (22a) or vertical oil filter mount (22b) as a drilling template, locate and drill mounting holes using a letter "F" drill.
- 08a. Secure vertical oil filter mount (22b) to Fwd side of firewall and doubler plate (23) to Aft side of firewall using bolts (24), washers (17), and locknuts (25). OR
- 08b. Secure oil filter base (18) to Fwd side of firewall and horizontal oil filter mount plate (22a) to rear side using bolts (16), washers (17) and secure with .032 MS20995-C safety wire.

\*\*\*\*\* SEE WARNING (B) ABOVE \*\*\*\*\*

09. Install any combination of fitting (19a), (19b), or (19c) into oil filter base (18). Mount to vertical oil filter mount (22b.) using bolts (16), washers (17), and secure with .032 MS20995-C safety wire.
10. Determine hose lengths and order appropriate hoses. Ex: P/N for a 24-7/8" long firesleeved hose with straight swivel fittings at each end of the hose is F13000010-0247.

\*\*\*\*\* SEE WARNING (C) ABOVE \*\*\*\*\*

11. Install 2 ea. hose assy's (26a) or (26b) connecting the "A" port on the filter adapter to the "A" port on the oil filter base and the "B" port on the filter adapter to the "B" port on the oil filter base per installation drawings and tighten hose fittings to 270-350 in/ lbs.
12. After hoses have taken natural set, and hose fittings tightened, tighten sealing ring (02a) with 2" Pin Spanner wrench. Do not overtighten. Secure with safety wire. Note: Approximately 1/4-1/2 turn is all that is needed to compress the O-ring properly and no leakage will occur.
13. Install oil filter (21a), torque per instructions on oil filter and secure with safety wire.
14. Run engine and check for leaks.
15. Determine weight and balance, initiate 337 form, and update the equipment list.

## Installation Instructions No. AFC-K008-II-C

**Installation of the remote oil filter kit on the following engines using P/N 538727 or 534862 Oil Screen Assy: [1-3/4" - 16 Thread]  
O-470A, B, E, G, J, K, L, M, P, R, S, U,  
IO-470C, D, E, F, G, H, J, K, L, M, N, P, R, S, U, V  
IO-520A, D, E, F, J, K, L,  
TSIO-520C, G, H, M, P, R, T and  
GTSIO-520C, D, F, H, K, L, M, N**

**First Release 01/08/94  
Amended 10/01/02**

**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 the Continental screen assembly P/N 538727 or 534862.
02. Clean Screen housing and gasket surface. Assemble Engine Adapter (01a) as follows:
  - (A) Lubricate threads of Engine Adapter (01a) and Sealing Ring (02a) with suitable lubricant.
  - (B) Thread Sealing Ring (02a) onto Engine Adapter (01a) past smooth area, onto second set of threads.
  - (C) Install lightly oiled O-ring, (03). and position in the center of the smooth area between the upper and lower threads.
  - (D) Run Sealing Ring (02a) down against O-ring (03). [Assure O-ring is still centered in non threaded area.]
  - (E) Insert lightly oiled O-ring, (04) into groove inside of center opening of Engine Adapter (01a)
03. Insert Oil Screen Adapter (05c) without O-ring installed into screen chamber of engine. When seated, tube will extend above face of engine casting approximately 1/4". Trim as necessary to achieve the 1/4" height. Remove Oil Screen Adapter (05c) from engine
04. Lightly oil O-ring (06a), install onto Oil Screen Adapter (05c), and reinstall into oil screen chamber of oil pump. As adapter is inserted, resistance will be met. Continue pressure indicating compression of O-ring (06a) until adapter is firmly seated in lower screen seat.
05. Thread engine adapter (01a) into engine oil screen opening being sure that oil screen adapter (05b) is started in center of the opening. Screw in engine adapter (01a) until light resistance indicates that O-ring (03) is seated on the accessory case. Orient the engine adapter (01a) as necessary, being careful not to screw the engine adapter (01a) in or out more than 1/2 turn from present position. This assures that the O-Ring is still centered in the non threaded area. Do not tighten sealing ring yet.
06. Onto each bulkhead fitting (07a) or (07b), install in order 1 ea. bulkhead nut (08), boss gasket (09), and O-ring (10). If using a union (07c), install O-ring (10) only. When assembled correctly, the O-ring (10) is positioned in the center of the non-threaded area, between the upper set of threads and the lower set of threads on the bulkhead fitting. Install each completed assembly into the engine adapter (01a) and located towards intended direction of hoses.

**CAUTION:** O-ring only seals in the center of the non-threaded area between the upper set threads and lower set of threads on the bulkhead fitting. Failure to position the O-ring in this area, may cause a small oil leak.

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

07. Using the horizontal oil filter mount (22a) or oil vertical filter oil filter mount (22b) as a drilling template, locate and drill mounting holes using a letter "F" drill.
- 8a. Secure vertical filter oil filter mount (22b) to Fwd side of firewall and doubler plate (23) to Aft side of firewall using bolts (24), washers (17), and locknuts (25).
- OR
- 8b. Secure oil filter base (18) to Fwd side of firewall and horizontal oil filter mount (22a) to rear side using bolts (16), washers (17) and secure with .032 MS20995-C safety wire.
- \*\*\*\*\* SEE WARNING (B) ABOVE \*\*\*\*\***
9. Install any combination of fitting (19a), (19b), or (19c) into oil filter base (18). Mount to vertical oil filter mount plate (22b.) using bolts (16), washers (17), and secure with .032 MS20995-C safety wire.
10. Determine hose lengths and order appropriate hoses (26a) or (26b). Last 2 xx's in part number is the length of the hose in inches and the z is the length in eighths of an inch. The letter "F" at the beginning of the P/N denotes firesleeving. Ex: P/N for a 24-7/8" long firesleeved hose with straight swivel fittings at each end of the hose is F13000010-0247.
- \*\*\*\*\* SEE WARNING (C) ABOVE \*\*\*\*\***
11. Install 2 ea. hose assy's (26a) or (26b) connecting the "A" port on the filter adapter to the "A" port on the oil filter base and the "B" port on the filter adapter to the "B" port on the oil filter base per installation drawings and tighten hose fittings to 270-350 in/ lbs.
12. After hoses have taken natural set, and hose fittings tightened, tighten sealing ring (02a) with 2" Pin Spanner wrench. Do not overtighten. Secure with safety wire. Note: Approximately 1/4 - 1/2 turn is all that is needed to compress the O-ring properly and no leakage will occur.
13. Install oil filter (21b), torque per instructions on oil filter and secure with safety wire.
14. Run engine and check for leaks.
15. Determine weight and balance, initiate 337 form, and update the equipment list.

## Installation Instructions No. AFC-K008-II-D

Installation of the remote oil filter kit on the following engines using P/N 536902 or A35996 Oil Screen Assy: [1-13/16" - 16 Thread]  
O-470-11, & 15 as used in the Cessna 305 series aircraft

First Release 01/08/94  
Amended 10/01/02

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 the Continental screen assembly.
02. Clean Screen housing and gasket surface. Assemble Engine Adapter (01b) as follows:
  - (A) Lubricate threads of Engine Adapter (01a) and Sealing Ring (02a) with suitable lubricant.
  - (B) Thread Sealing Ring (02b) onto Engine Adapter (01a) past smooth area, onto second set of threads.
  - (C) Install lightly oiled O-ring, (03), and position in the smooth area between the upper and lower threads.
  - (D) Run Sealing Ring (02b) down against O-ring (03). [Assure O-ring is still centered in non threaded area.]
  - (E) Insert lightly oiled O-ring, (04) into groove inside of center opening of Engine Adapter (01b)
03. Insert Oil Screen Adapter (05d) without O-ring installed into screen chamber of engine. When seated, tube will extend above face of engine casting approximately 1/4". Trim as necessary to achieve the 1/4" height. Remove Oil Screen Adapter (05d) from engine
04. Lightly oil O-ring (06b), install onto Oil Screen Adapter (05d), and reinstall into oil screen chamber of oil pump. As adapter is inserted, resistance will be met. Continue pressure indicating compression of O-ring (06b) until adapter is firmly seated in lower screen seat.
05. Thread engine adapter (01b) into engine oil screen opening being sure that oil screen adapter (05d) is started in center of the opening. Screw in engine adapter (01b) until light resistance indicates that O-ring (03) is seated on the accessory case. Orient the engine adapter (01a) as necessary, being careful not to screw the engine adapter (01b) in or out more than 1/2 turn from present position. This assures that the O-Ring is still centered in the non threaded area. Do not tighten sealing ring yet.
06. Onto each bulkhead fitting (07a) or (07b), install in order 1 ea. bulkhead nut (08), boss gasket (09), and O-ring (10). If using a union (07c), install O-ring (10) only. When assembled correctly, the O-ring (10) is positioned in the center of the non-threaded area, between the upper set of threads and the lower set of threads on the bulkhead fitting. Install each completed assembly into the engine adapter (01a) and located towards intended direction of hoses.

**CAUTION:** O-ring only seals in the center of the non-threaded area between the upper set threads and lower set of threads on the bulkhead fitting. Failure to position the O-ring in this area, may cause a small oil leak.

07. Install in order Temp probe adapter (12), gasket (13), 90° fitting (11), and gasket (13) and install into engine adapter (01b).  
Note: Oil temp adapters (14a) or (14b) may be interchanged depending on length of your oil temperature bulb.  
**\*\*\*\*\* SEE WARNING (A) ABOVE \*\*\*\*\***
08. Using the horizontal oil filter mount (22a) or vertical oil filter mount (22b) as a drilling template, locate and drill mounting holes using a letter "F" drill.
- 09a. Secure vertical oil filter mount (22b) to Fwd side of firewall and doubler plate (23) to Aft side of firewall using bolts (24), washers (17), and locknuts (25).  

OR
- 09b. Secure oil filter base (18) to Fwd side of firewall and horizontal oil filter mount (22a) to rear side using bolts (16), washers (17) and secure with .032 MS20995-C safety wire.  
**\*\*\*\*\* SEE WARNING (B) ABOVE \*\*\*\*\***
10. Install any combination of fitting (19a), (19b), or (19c) into oil filter base (18). Mount to oil filter mount plate-vertical (22b) using bolts (16), washers (17), and secure with .032 MS20995-C safety wire.
11. Determine hose lengths and order appropriate hoses. Ex: P/N for a 24-7/8" long firesleeved hose with straight swivel fittings at each end of the hose is F13000010-0247.  
**\*\*\*\*\* SEE WARNING (C) ABOVE \*\*\*\*\***
12. Install 2 ea. hose assy's (26a) or (26b) connecting the "A" port on the filter adapter to the "A" port on the oil filter base and the "B" port on the filter adapter to the "B" port on the oil filter base per installation drawings and tighten hose fittings to 270-350 in/ lbs.
13. After hoses have taken natural set, and hose fittings tightened, tighten sealing ring (02a) with 2" Pin Spanner wrench. Do not overtighten. Secure with safety wire. Note: Approximately 1/4-1/2 turn is all that is needed to compress the O-ring properly and no leakage will occur.
14. Install oil filter (21b), torque per instructions on oil filter and secure with safety wire.
15. Run engine and check for leaks.
16. Determine weight and balance, initiate 337 form, and update the equipment list.



**Installation Instructions No. AFC-K008-II-E**

**Installation of the remote oil filter kit on the following engines using P/N A25131 or A35996 Oil Screen Assy:  
E165, E185, E205 & E225**

**First Release 01/08/94  
Amended 10/01/02**

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. Gain access to the engine compartment.
02. Remove from rear of accessory case (1ea.) P/N A25131 or A35996 oil screen assembly , P/N 40660 housing , and P/N A25132 check valve assy. Note: the A25132 check valve is only found on dry sump engines in older Bonanza's
03. Clean gasket surface on rear of accessory case.
04. Per installation drawing AFC-D-0030-A, Install lightly oiled O-ring (03b) onto Oil Divertor Ring (02c) and insert into bottom of oil gallery in rear of accessory case. Make sure nub is facing out. Note: Dry sump engines in the Bonanza's do not use this divertor ring. Reinstall A25132 check valve using new O-ring (03b) provided.
05. Install lightly oiled O-ring (06a) onto top of Oil Divertor Ring (02c) or A25132 check valve assy.
06. Using new oil adapter gasket (13b), install engine adapter (01c) onto rear of accessory case and torque to specs.

**\*\*\*\*\* WARNING \*\*\*\*\* Do not over torque as binding of oil pump gears can occur.**

NOTE B: As adapter is inserted, resistance will be met. Continue pressure indicating compression of O-ring (06b)- until adapter (01c) is seated against gasket.

07. Onto each union (07c) install O-ring (10), insert into engine adapter(01c), and tighten.
08. Install new gasket (15) under the head of the 5/8" long (14a) or 2-1/4" long (14b) Temp probe adapter if used, into adapter-engine (01a). Note: Oil temp adapters (14a) or (14b) may be interchanged depending on length of your oil temperature bulb.
09. Install oil temperature bulb into oil temp adapter.

NOTE C: If oil temp probe is not kept at present location on the particular aircraft, cap off hole with Continental P/N 532432 Oil drain plug and gasket (15).

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

10. Using the horizontal oil filter mount (22a) or vertical oil filter mount (22b) as a drilling template, locate and drill mounting holes using a letter "F" drill.
  - 11a. Secure vertical oil filter mount plate (22b) to Fwd side of firewall and doubler plate (23) to Aft side of firewall using bolts (24), washers (17), and locknuts (25).
- OR
- 11b. Secure oil filter base (18a) to Fwd side of firewall and horizontal oil filter mount (22a) to rear side using bolts (16), washers (17) and secure with .032 MS20995-C safety wire.

**\*\*\*\*\* SEE WARNING (B) ABOVE \*\*\*\*\***

12. Install any combination of fitting (19a), (19b), or (19c) into oil filter base (18a). Mount to vertical oil filter mount(22b) using bolts (16), washers (17), and secure with .032 MS20995-C safety wire.
13. Determine hose lengths and order appropriate hoses (26a) or (26b). Last 2 xx' s in part number is the length of the hose in inches and the z is the length in eighths of an inch. Ex: P/N for a 24-7/8" long firesleeved hose with straight swivel fittings at each end of the hose is F13000010-0247.

**\*\*\*\*\* SEE WARNING (C) ABOVE \*\*\*\*\***

14. Install 2 ea. hose assy's (26a) or (26b) connecting the "A" port on the filter adapter to the "A" port on the oil filter base and the "B" port on the filter adapter to the "B" port on the oil filter base per installation drawings and tighten hose fittings to 270-350 in/ lbs.
15. Install oil filter (21a) or (21b), torque per instructions on oil filter and secure with safety wire.
16. Run engine and check for leaks.
17. Determine weight and balance, initiate 337 form, and update the equipment list.

## Installation Instructions No. AFC-K008-II-F

Installation of the remote oil filter kit on the following engines using  
P/N 641574, 641575, 641639, 646253, 649217, 653489, or 653490 Oil Filter Adapters  
TSIO-360, A, B, C, D, E, F, GB, H, JB, KB, LB, MB - LTSIO-360, E, KB  
O/IO470 All  
IO-520B, C, M  
TSIO-520B, D, E, J, K, L, N, R, U, BE, VB, WB  
IO-550B, C and  
TSIO550

First Release 01/08/94  
Amended 10/01/02

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 existing spin on oil filter from rear of engine.
02. Clean oil filter base and gasket surface.
03. Verify oil filter stud in existing Continental oil filter base extends .375" above face of adapter. Using new oil filter adapter without O-ring installed as a reference, screw completely down onto existing stud and determine that new oil filter adapter bottoms out on existing Continental oil filter base. If not, trim oil filter stud to obtain this dimension.  
Remove new oil filter adapter.
04. Apply liberal amount of Dow Corning DC-4 silicon grease to Viton O-ring and place in machined groove in Adapter-Engine (01d) and reinstall onto the existing Continental oil filter adapter on rear of engine.
05. Screw adapter onto existing oil filter stud and position as required. Install fitting (07c), and O-ring (10) into Engine Adapter, torque to specifications and secure with .032 MS20995-C safety wire.  
  
**\*\*\*\*\* SEE WARNING (A) ABOVE \*\*\*\*\***
06. Using the horizontal oil filter mount (22a) or vertical oil filter mount (22b) as a drilling template, locate and drill mounting holes using a letter "F" drill.
- 07a. Secure vertical oil filter mount (22b) to Fwd side of firewall and doubler plate (23) to Aft side of firewall using bolts (24), washers (17), and locknuts (25).  
  

OR
- 07b. Secure oil filter base (18) to Fwd side of firewall and horizontal oil filter mount (22a) to rear side using bolts (16), washers (17) and secure with .032 MS20995-C safety wire.  
  
**\*\*\*\*\* SEE WARNING (B) ABOVE \*\*\*\*\***
08. Install any combination of fitting (19a), (19b), or (19c) into oil filter base (18). Mount to vertical oil filter mount (22b.) using bolts (16), washers (17), and secure with .032 MS20995-C safety wire.
09. Determine hose lengths and order appropriate hoses. Ex: P/N for a 24-7/8" long firesleeved hose with straight swivel fittings at each end of the hose is F13000010-0247.  
  
**\*\*\*\*\* SEE WARNING (C) ABOVE \*\*\*\*\***
10. Install 2 ea. hose assy's (26a) or (26b) connecting the "A" port on the filter adapter to the "A" port on the oil filter base and the "B" port on the filter adapter to the "B" port on the oil filter base per installation drawings and tighten hose fittings to 270-350 in/ lbs.
11. Install oil filter (21b), torque per instructions on oil filter and secure with safety wire.
12. Run engine and check for leaks.
13. Determine weight and balance, initiate 337 form, and update the equipment list.

**Installation Instructions No. AFC-K008-II-G**

**Installation of the remote oil filter kit on Boeing Model 75  
series aircraft with Continental W-670 radial engines.**

**First Release 01/08/94  
Amended 10/01/02**

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.
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) ABOVE \*\*\*\*\***
09. Install provided AN842-816D 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.
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) QS100M52H 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.

## Installation Instructions No. AFC-K008-II-K

### Installation of the remote oil filter kit on the following engines having oil cooler accessory pad C75, C85, C90, C125, O-200, IO240

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. Gain access to the engine compartment.
02. Remove the Oil Cooler Bypass Plate from the LH rear side of the engine case.
03. Clean gasket surface on the engine case.
04. Install new P/N 652070 gasket.
05. Install CON-16 Adapter, and secure with MS20365-542A locknuts & AN960-516 washers provided.
06. Install M83248/1-908 O-rings onto AN815-8D-SP fittings. Apply light film of oil onto O-Ring and insert into CON-16 Adapter. Once o-ring is seated, tighten fitting 1/2-3/4 turn.

NOTE: Do not overtighten fitting. Blue hex of fitting should not come in contact with CON-16 adapter.

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

07. Using the horizontal oil filter mount (22a) or vertical oil filter mount (22b) as a drilling template, locate and drill mounting holes using a letter "F" drill.
- 08a. Secure vertical oil filter mount plate (22b) to Fwd side of firewall and doubler plate (23) to Aft side of firewall using bolts (24), washers (17), and locknuts (25).
- OR
- 08b. Secure oil filter base (18a) to Fwd side of firewall and horizontal oil filter mount (22a) to rear side using bolts (16), washers (17) and secure with .032 MS20995-C safety wire.

\*\*\*\*\* SEE WARNING (B) ABOVE \*\*\*\*\*

09. Install any combination of fittings (19f), (19g), or (19h) into oil filter base (18b). Mount to vertical oil filter mount(22b) using bolts (16), washers (17), and secure with .032 MS20995-C safety wire.
10. Determine hose lengths and order appropriate hoses (26a) or (26b). Last 2 xx' s in part number is the length of the hose in inches and the z is the length in eighths of an inch. Ex: P/N for a 24-7/8" long firesleeved hose with straight swivel fittings at each end of the hose is F13000010-0247. Most likely you will need hoses that have straight swivel fittings at one end and 90 ° fittings a the opposite end.

TIP: Aircraft hoses are measured tip to tip or flare to flare. The easiest way to properly measure a hose is take an old chunk of garden hose and touch one end of the hose to the fitting on the the engine adapter and one end of the hose to the fitting on the oil filter mount on the the firewall, and trim the hose to length until you have the routing the way you like it and enough extra for engine torque and vibration to be I/A/W AC 43.13-1B & 2A.. Measure this length of the sample garden hose and whatever it measures, this is the length you want to give to Airwolf or any hose shop in the world to have custom made TSO'd aircraft hoses built for your specific installation.

\*\*\*\*\* SEE WARNING (C) ABOVE \*\*\*\*\*

11. Install 2 ea. hose assy's (26a) or (26b) connecting the "A" port on the CON-16 adapter to the "A" port on the OFB-10 oil filter base and the "B" port on the CON-16 filter adapter to the "B" port on the OFB-10 oil filter base per installation drawings and tighten hose fittings to 270-350 in/ lbs.
12. Install oil filter (21a) or (21b), torque per instructions on oil filter and secure with safety wire.
13. Run engine and check for leaks.
14. Determine weight and balance, initiate 337 form, and update the equipment list.



## INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

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 91.409 inspection program for their aircraft. This is accomplished when a maintenance entry is made in the aircraft's maintenance record in accordance with section 43.9. This entry recorded the major alteration and identifies the original ICA location (e.g., Block 8 of FAA Form 337, dated 5/28/98) along with a statement that the ICA is now part of the aircraft's inspection/maintenance requirements.

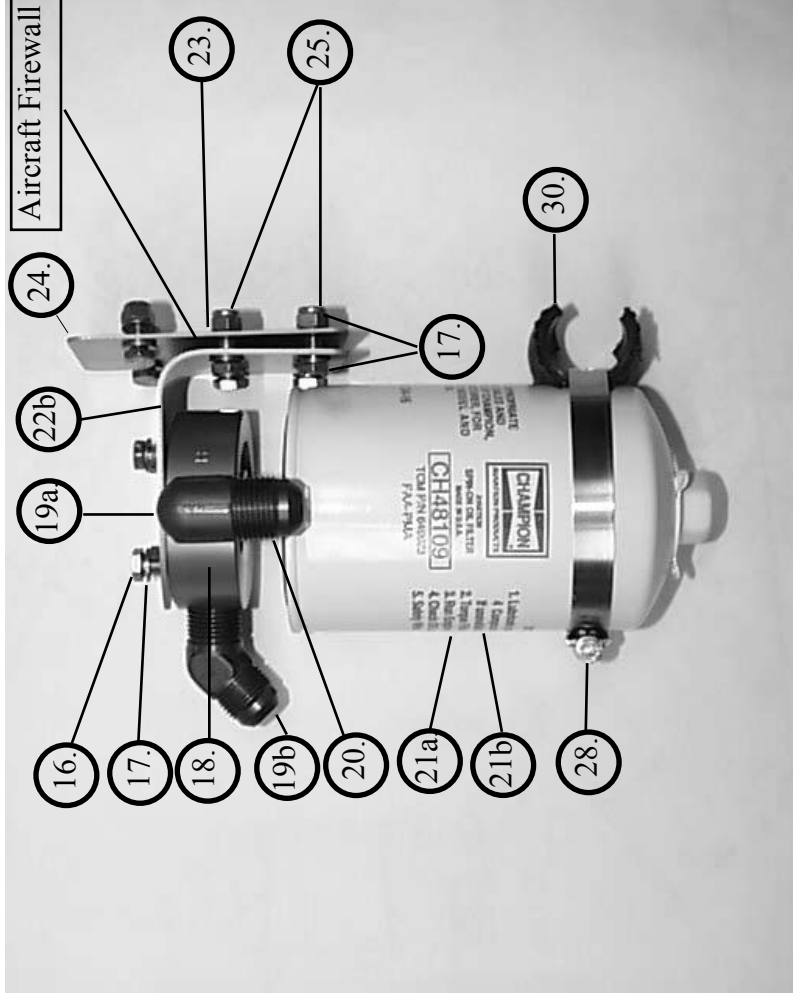
For major alterations performed in accordance with field approval on air carrier aircraft, the air carrier operator is responsible for ensuring that the ICA is made part of the applicable inspection/maintenance program for their aircraft. If a procedure is not currently included in the operator's manual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

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

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

# ASSEMBLY DRAWING# AFC-D-0027

## VERTICAL INSTALLATION



**MATERIAL LIST**

Index	Part Number	Description	Qty
16.	AN4H-4A	Drilled Head Bolts	(4)
17.	AN960-416	Flat Washers	(16)
18.	OFB-11	Oil Filter Base	(1)
19a.	MS20822-10D	90° Fitting	(1)
19b.	MS20823-10D	45° Fitting	(1)
19c.	AN816-10D	Union	(Opt)
20.	OFS-10	Oil Filter Stud	(1)
21a. or	AFC-500	Std Oil Filter [Champion CH48108]	(1)
21b.	AFC-600	Long Oil Filter [Champion CH48109]	(1)
22b.	OFM-11	Vertical Oil Filter Mount	(1)
23.	DBL-10	Doubler Plate	(1)
24.	AN4-5A	Bolt	(6)
25.	MS20365-428A	Locknut	(6)
28.	MIL6000-3/4-2	Vibration Dampener	(1)
30.	QS100M52H	Dampner Clamp	(1)

## HORIZONTAL INSTALLATION



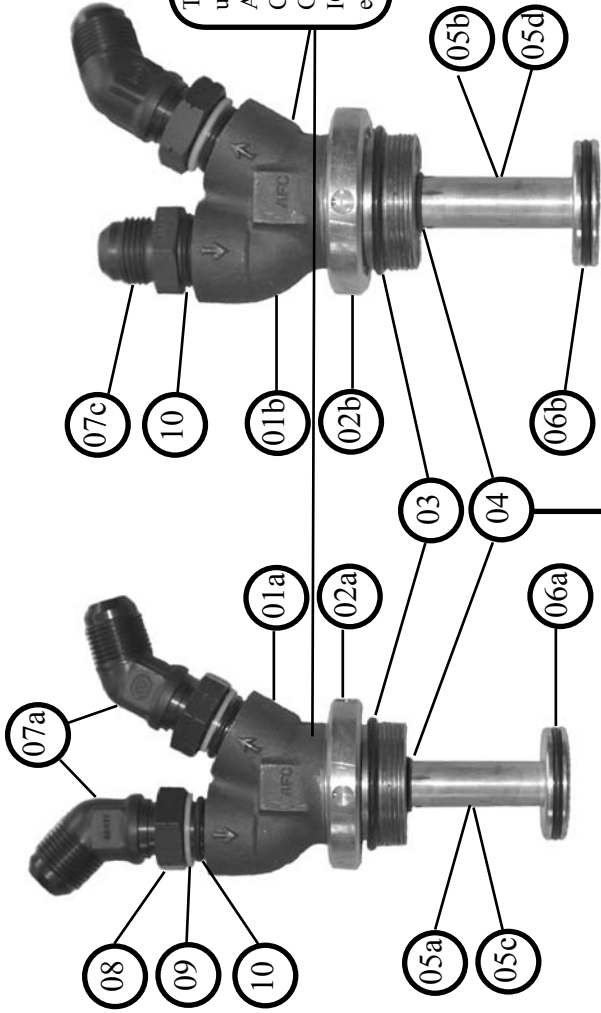
**MATERIAL LIST**

Index	Part Number	Description	Qty
16.	AH4H-4A	Drilled Head Bolts	(4)
17.	AN960-416	Flat Washers	(16)
18.	OFB-11	Oil Filter Base	(1)
19a.	MS20822-10D	90° Fitting	(1)
19b.	MS20823-10D	45° Fitting	(1)
19c.	AN816-10D	Union	(Opt)
20.	OFS-10	Oil Filter Stud	(1)
21a. or	AFC-500	Std Oil Filter [Champion CH48108]	(1)
21b.	AFC-600	Long Oil Filter [Champion CH48109]	(1)
22a.	OFM-10	Horizontal Oil Filter Mount	(1)

# Airwolf Filter Corp.

Assembly Drawing.  
 OFM-10 Oil Filter Mount Plate - Horizontal,  
 OFM-11 Oil Filter Mount Plate - Vertical,  
 DBL-10 Doubler Plate & OFB-11 Oil Filter Base

# ASSEMBLY DRAWING# AFC-D-0028



Typical assemblies in aircraft using Continental A50, A65, A75, A80, C75, C85, C90, C125, O200, C145, O300, GO300, IO360, O470, IO470, IO520, TSIO520, & GTSIO520 engines.

O-Ring must be firmly installed into machined groove inside nose of engine adapter (01a) or (01b) and oiled lightly to ease insertion of oil screen adapter (05a), (05b), (05c), or (05d).

Oil Temperature Probe shown for illustration only.

Optional assembly used in aircraft using A50, A65, A75, A80, C75, C85, C90, C125 & O-200 Continental engines keeping oil temp probe at present location. If relocating the oil temp probe to drain plug of oil tank, see above (3) drawings for fitting choices.



Index	Part Number	Description
01a.	CON-10	Engine Adapter - [1-3/4"-16 Threads]
01b.	CON-11	Engine Adapter - [1-13/16"-16 Threads]
02a.	RNG-10	Sealing Ring [1-3/4"-16 Threads]
02b.	RNG-11	Sealing Ring [1-13/16"-16 Threads]
03.	M83248/1-223	Sealing Ring O-Ring
04.	M83248/1-016	Nosepiece O-Ring
05a.	EXT-10	Oil Screen Adapter
05b.	EXT-11	Oil Screen Adapter
05c.	EXT-12	Oil Screen Adapter
05d.	EXT-14	Oil Screen Adapter
06a.	M83248/1-126	O-Ring, Use w/EXT-10 & EXT-12 Adapter
06b.	M83248/1-128	O-Ring, Use w/EXT-11 & EXT-14 Adapter
07a.	AN837-10D	45° Bulkhead Fitting
07b.	AN833-10D	90° Bulkhead Fitting
07c.	AN815-10D	Union
08.	AN6289-10D	Bulkhead Nut
09.	MS28773-10	Boss Gasket
10.	MS9387-10	O-Ring
11.	AN776-10D	90° Fitting
12a.	TPA-775	Temp Probe Adapter
12b.	TPA-776	Temp Probe Adapter & Gasket
13.	MS35769-18	Temp Probe Adapter Gasket
14.	OTA-527	Oil Temp Adapter
15.	MS35769-11	Oil Temp Adapter Gasket

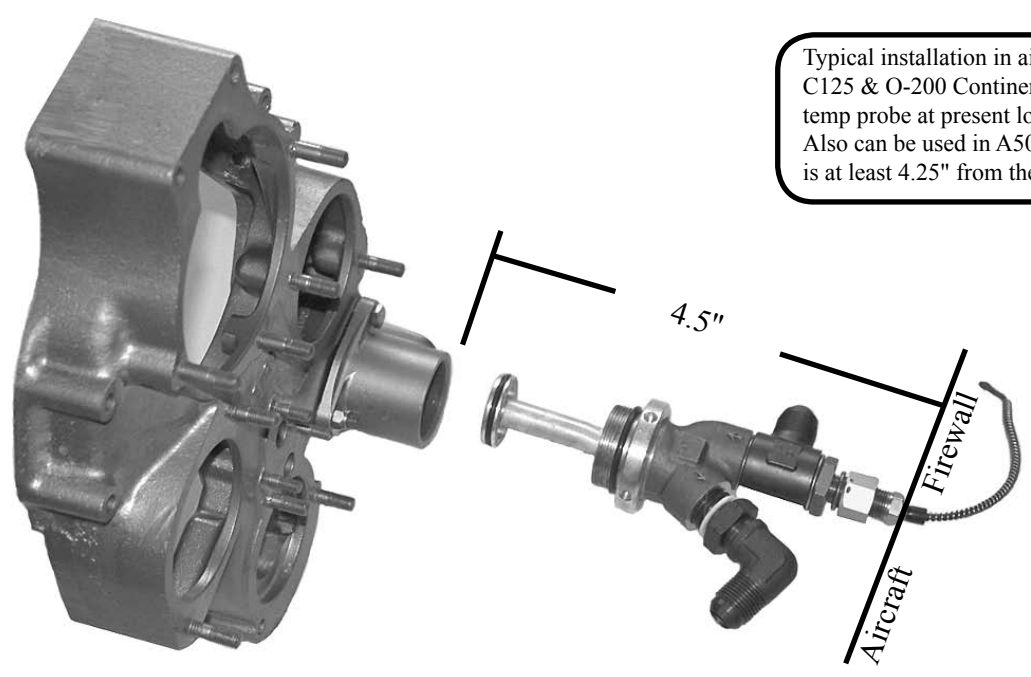
## Airwolf Filter Corp.

Assembly Drawing:  
 CON-10 Adapter - Engine, Full Flow  
 CON-11 Adapter - Engine, Full Flow  
 Assembly Options

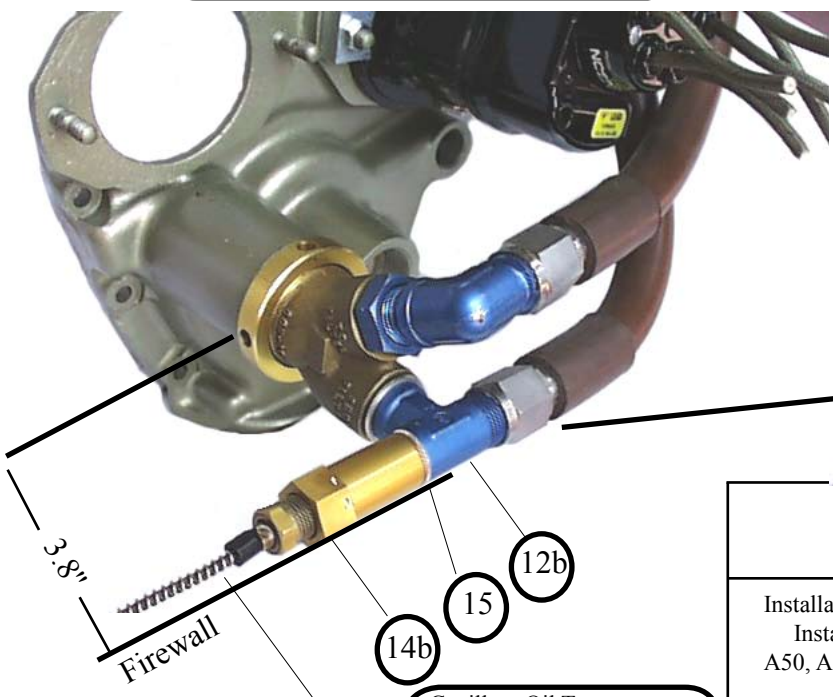


# INSTALLATION DRAWING# AFC-D-0029

Typical installation in aircraft using C75, C85, C90, C125 & O-200 Continental engines keeping oil temp probe at present location. Also can be used in A50-A75 engines where there is at least 4.25" from the accy case to the firewall.



Typical installation in aircraft using A50, A65, A75, & A80, Continental engines where clearance to the firewall is very tight. [Luscombe, Aeronca, Taylorcraft]

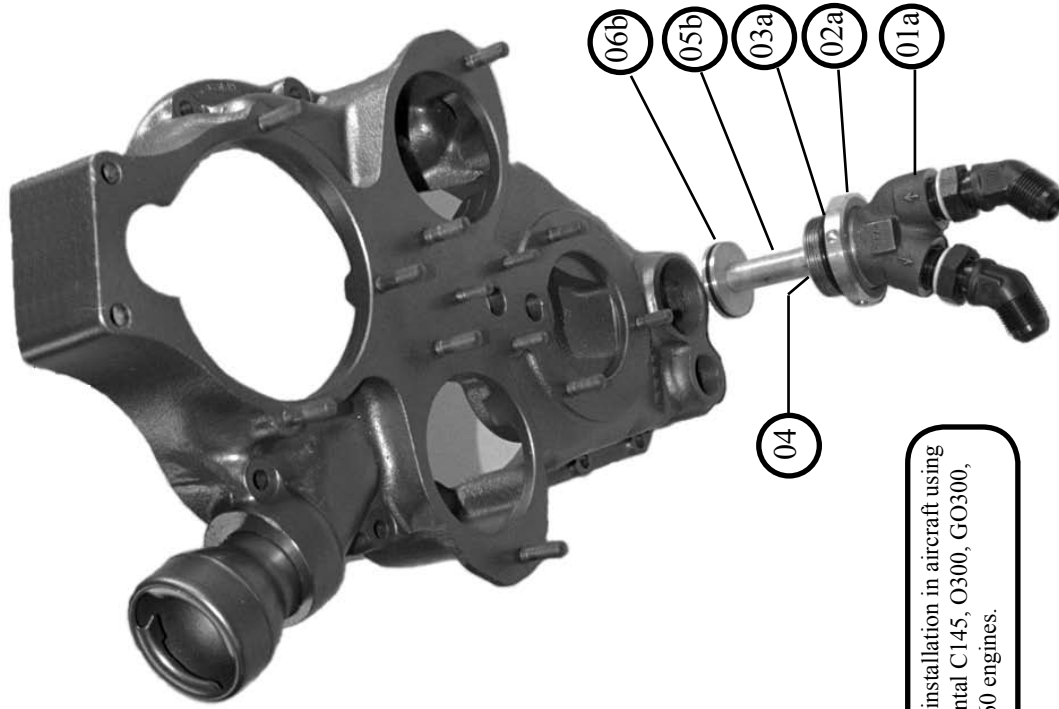


## Airwolf Filter Corp.

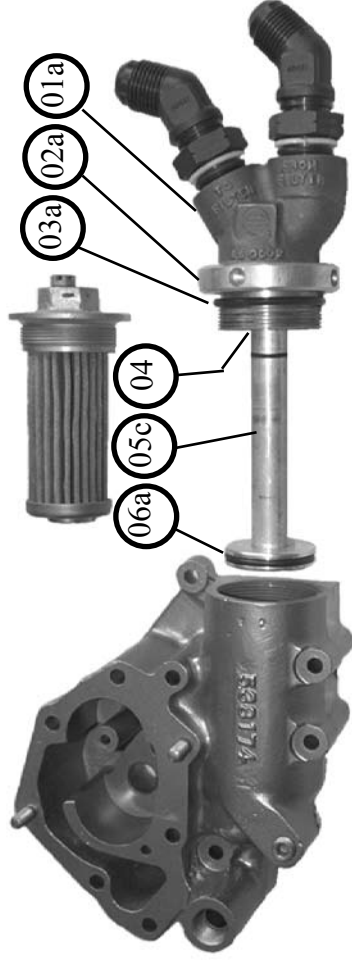
Installation Drawing.  
Installation of assembled CON-10 adapter in Continental A50, A65, A75, A80, C75, C85, C90, C125, O-200, IO240 engines

Capillary Oil Temperature Probe shown for illustration only.


# INSTALLATION DRAWING# AFC-D-0030

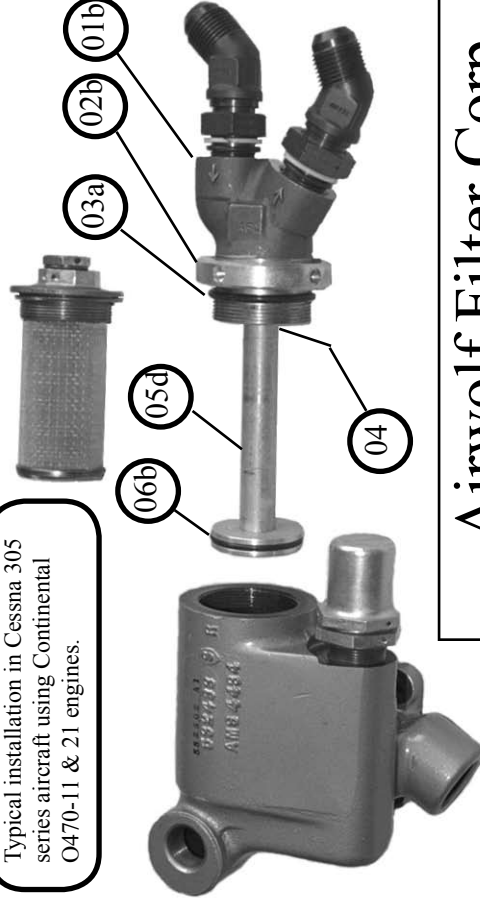


Typical installation in aircraft using Continental C145, O300, GO300, & IO-360 engines.



Typical installation in aircraft using Continental O470, IO470, IO520, TSIO520 & GTSIO520 engines

Typical installation in Cessna 305 series aircraft using Continental O470-11 & 21 engines.



## MATERIAL LIST

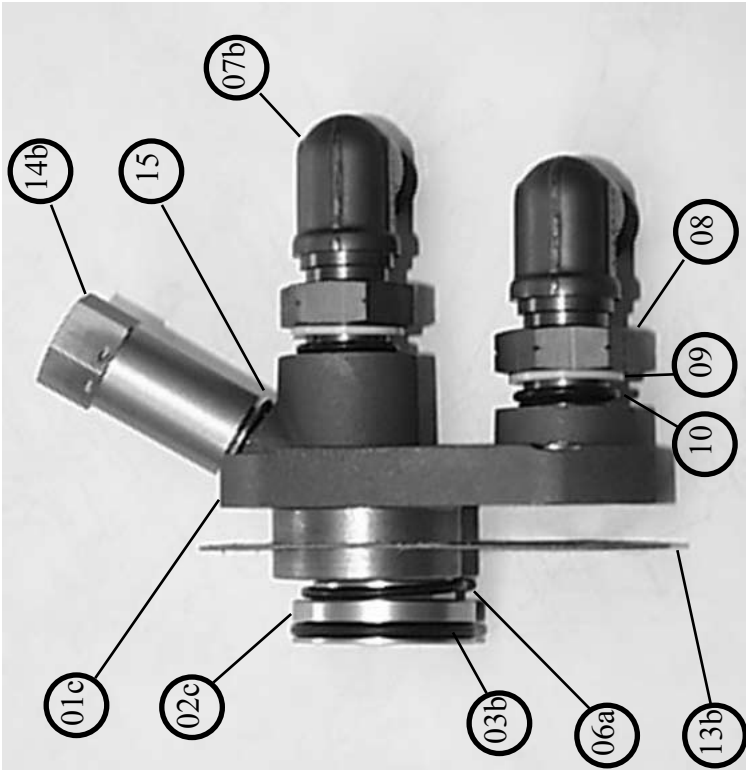
Index	Part Number	Description
01a.	CON-10	Engine Adapter - [1-3/4"-16 Threads]
01a.	CON-11	Engine Adapter - [1-13/16"-16 Threads]
02a.	RNG-10	Sealing Ring [1-3/4"-16 Threads]
02a.	RNG-11	Sealing Ring [1-13/16"-16 Threads]
03a.	M83248/1-223	Sealing O-Ring
04.	M83248/1-016	O-Ring, Nosepiece
05b.	EXT-11	Oil Screen Adapter - C145/O-300/GO-300/IO-360
052.	EXT-12	Oil Screen Adapter - O470/IO470/IO520
05b.	EXT-14	Oil Screen Adapter - O470-7/11/13
06a.	M83248/1-126	O-Ring, Use w/EXT-12
06b.	M83248/1-128	O-Ring, Use w/EXT-11 & EXT-14 Adapter

## Airwolf Filter Corp.

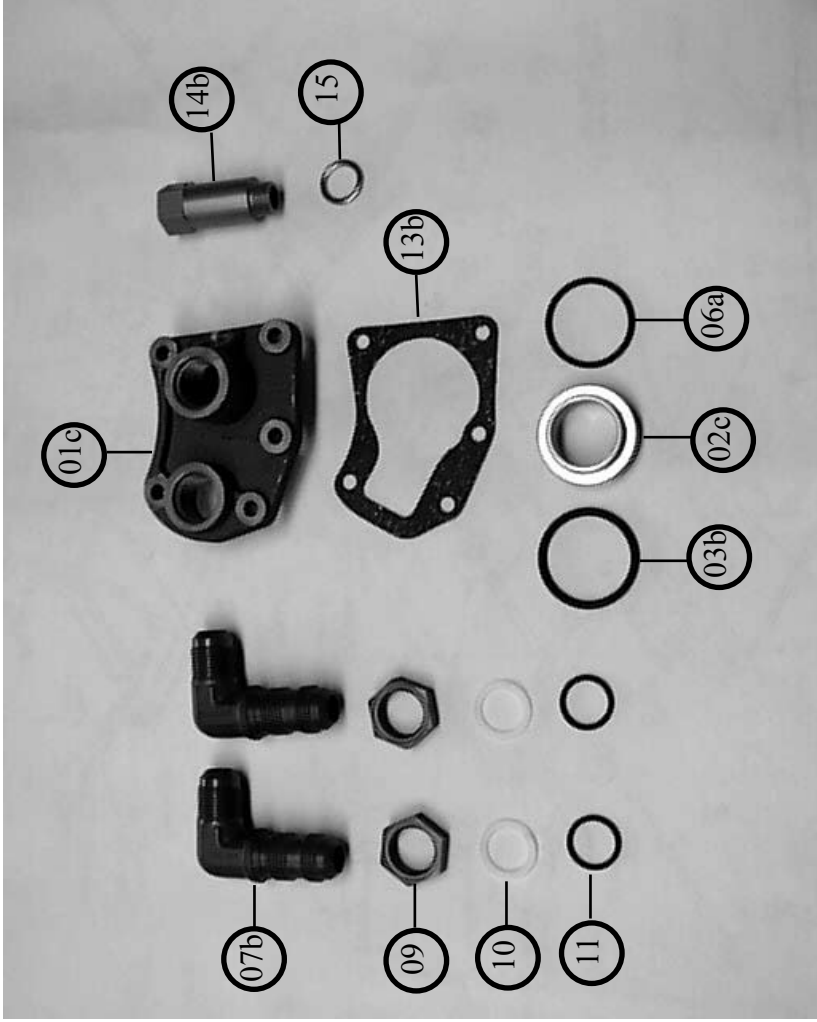
Installation of assembled CON-10 adapter in C145, O300, GO300, IO360, O470, IO470, IO520, TSIO520 & GTSIO520 Continental engines, and  
 Installation of CON-11 adapter in O470--11 & 15 Continental engines,

# INSTALLATION DRAWING# AFC-D-0030-A

Revisions



Typical installation as used in Continental E165/E185, E205 & E225 engines.



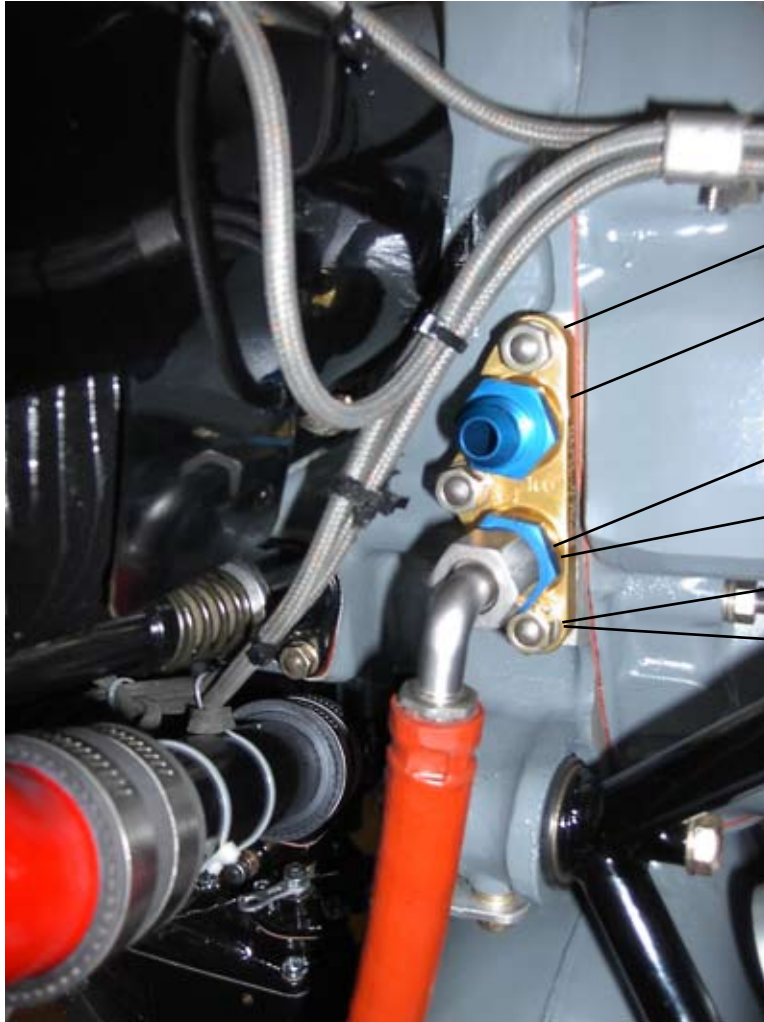
MATERIAL LIST	
Index	Description
01c.	Engine Adapter - "E" Series
02c.	Oil Diverter Ring, "E" Series
03b.	O-Ring, Oil Diverter Ring
06a.	O-Ring, Oil Diverter Ring
07b.	90° Bulkhead Fitting
08.	Bulkhead Nut
09.	Boss Gasket
10.	O-Ring
13b.	Engine Adapter Gasket
14b.	Oil Temp Adapter
15.	Oil Temp Adapter Gasket

## Airwolf Filter Corp.

Installation of CON-12 adapter in E165, E185, E205, & E225 Continental engines.

01/28/97	Dwg# AFC-D-0030-A			John P. Kochy

INSTALLATION DRAWING# AFC-D-0030-B



01d

13c

07d

10d

17b

25b

MATERIAL LIST

<u>Index</u>	<u>Part Number</u>	<u>Description</u>
01d.	CON-16	Engine Adapter
07d.	AN919-15D-SP	Fitting
10d.	M83248/1-910	O-Ring
13c	652070	Gasket
17b.	AN960-513	Washer
25b.	MS20365-524A	Nut

**Airwolf Filter Corp.**

Installation of CON-16 adapter in C85 - IO240 Continental engines,