

# FOR REFERENCE ONLY

**Applicability:**

MOONEY  
M20, A, B, C, D, E, G, H, J, L,

**Drawing:** AFC-W311**Revision:** A**Date:** 12/01/04**Airwolf Parts List No. AFC-W311-A**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
01.	W-3000	AirSep Assy	(1)
02.	W-2008	Air Syphon Pump	(1)
03.	W-2018-1	Air-Tee, 5/8"	(1)
04.	AN816-5D	Straight Fitting, -5	(1)
05.	AN912-3D	Reducer Bushing	(1)
06.	W-2011	Bracket	(1)
07.	W-2029	Brace	(1)
08.	MS27039C-0808	Screw, #8 X 1/2" Long	(5)
09.	MS35333-38	Lock Washer, #8	(5)
10.	AN960-8	Flat Washer, #8	(5)
11.	A8K-75	Rivnut, #8-32 X 7/16" Long	(5)
12.	AN526C-1032R8	Screw, #10 X 1/2" Long	(4)
13.	AN960-10	Flat Washer, #10	(4)
14.	MS20365-1032A	Locknut, #10	(4)
15.	W-2034	Breather Tube	(1)
16.	MIL6000-1/4	Hose, 1/4" ID	(16")
17.	MIL6000-5/16	Hose, 5/16" ID	(12")
18.	MIL6000-5/8	Hose, 5/8" ID	(18")
19.	MIL6000-3/4	Hose, 3/4" ID	(18")
20.	MM-4	Hose Clamp, 1/4"	(2)
21.	MM-5	Hose Clamp, 3/8"	(5)
22.	QS100M10H	Hose Clamp, 5/8"	(4)
23.	QS100M12H	Hose Clamp, 3/4"	(2)
24.	QS100M24H	Hose Clamp, 1-1/2"	(1)
25.	QS100M72H	Hose Clamp, 4-1/2"	(1)
26.	W-2100	"C" Channel	(10")
27.	MS21919WDG-30	Adel Clamp, 1-7/8" Long	(1)
28.	CAT-7	Duct, 1-3/4" ID	(16")

# FOR REFERENCE ONLY

**Applicability:**

MOONEY  
M20K, [231]

**Drawing:** AFC-W311**Revision:** A**Date:** 12/01/04**Airwolf Parts List No. AFC-W311-B**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
01.	W-3000	AirSep Assy	(1)
02.	W-2008	Air Syphon Pump	(1)
03.	W-2018-1	Air-Tee, 5/8"	(1)
04.	AN816-5D	Straight Fitting, -5	(1)
05.	AN912-3D	Reducer Bushing	(1)
06.	W-2011	Bracket	(1)
07.	W-2029	Brace	(1)
08.	MS27039-0808	Screw, #8 X 1/2" Long	(5)
09.	MS35333-38	Lock Washer, #8	(5)
10.	AN960-8	Flat Washer, #8	(5)
11.	A8K-75	Rivnut, #8-32 X 7/16" Long	(5)
12.	AN526C-1032R8	Screw, #10 X 1/2" Long	(4)
13.	AN960-10	Flat Washer, #10	(4)
14.	MS20365-1032A	Locknut, #10	(4)
15.	W-2034	Breather Tube	(1)
16.	MIL6000-1/4	Hose, 1/4" ID	(16")
17.	MIL6000-5/16	Hose, 5/16" ID	(12")
18.	MIL6000-5/8	Hose, 5/8" ID	(18")
19.	MIL6000-3/4	Hose, 3/4" ID	(18")
20.	MM-4	Hose Clamp, 1/4"	(2)
21.	MM-5	Hose Clamp, 3/8"	(5)
22.	QS100M10H	Hose Clamp, 5/8"	(4)
23.	QS100M12H	Hose Clamp, 3/4"	(2)
24.	QS100M24H	Hose Clamp, 1-1/2"	(1)
25.	QS100M72H	Hose Clamp, 4-1/2"	(1)
26.	W-2100	"C" Channel	(10")
27.	MS21919WDG-30	Adel Clamp, 1-7/8" Long	(1)
28.	CAT-7	Duct, 1-3/4" ID	(16")

# FOR REFERENCE ONLY

**Applicability:**

**MOONEY  
M20M**

**Drawing: AFC-W311  
Revision: A  
Date: 12/01/04**

**Airwolf Parts List No. AFC-W311-C**

<b><u>Item</u></b>	<b><u>Part Number</u></b>	<b><u>Description</u></b>	<b><u>Quantity</u></b>
01.	W-3000	AirSep Assy, 3/4" Breather, 1/2" Vacuum	(1)
02.	W-2008	Air Syphon Pump	(1)
03.	W-2018-1	Air-Tee, 5/8"	(1)
06.	W-2011	Bracket	(1)
07.	W-2029	Brace	(1)
08.	MS27039C-0808	Screw, #8 X 1/2" Long	(5)
09.	MS35333-38	Lock Washer, #8	(5)
10.	AN960-8	Flat Washer, #8	(5)
11.	A8K-75	Rivnut, #8-32 X 7/16" Long	(5)
12.	AN526C-1032R8	Screw, #10 X 1/2" Long	(4)
13.	AN960-10	Flat Washer, #10	(4)
14.	MS20365-1032A	Locknut, #10	(4)
15.	MIL6000-1/4	Hose, 1/4" ID	(16")
16.	MIL6000-5/16	Hose, 5/16" ID	(12")
17.	MIL6000-5/8	Hose, 5/8" ID	(18")
18.	MIL6000-3/4	Hose, 3/4" ID	(18")
19.	MM-4	Hose Clamp, 1/4"	(2)
20.	MM-5	Hose Clamp, 5/16"	(2)
21.	QS100M10H	Hose Clamp, 5/8"	(4)
21.	QS100M12H	Hose Clamp, 3/4"	(2)
22.	QS100M24H	Hose Clamp, 1-1/2"	(1)
23.	QS100M72H	Hose Clamp, 4-1/2"	(1)
24.	W-2100	"C" Channel	(10")
25.	MS21919WDG-30	Adel Clamp, 1-7/8" Long	(1)
26.	CAT-7	Duct, 1-3/4" ID	(16")

# FOR REFERENCE ONLY

**Applicability:**

MOONEY  
M20R, S

**Drawing:** AFC-W311**Revision:** A**Date:** 12/01/04**Airwolf Parts List No. AFC-W311-D**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
01.	W-3000	AirSep Assy	(1)
02.	W-2014	Air Syphon Pump	(1)
03.	W-2018-1	Air-Tee, 5/8"	(1)
04.	W-2155-2	Shroud Tube, 5/16" Inlet	(1)
05.	655705	TCM Rocker Cover Gasket	(1)
06.	630286	TCM Pushrod Tube Seal, Outer	(1)
07.	534610	TCM Pushrod Tube Seal, Inner	(1)
08.	W-2011	Bracket	(1)
09.	W-2029	Brace	(1)
10.	MS27039-0808	Screw, #8 X 1/2" Long	(5)
11.	MS35333-38	Lock Washer, #8	(5)
12.	AN960-8	Flat Washer, #8	(5)
13.	A8K-75	Rivnut, #8-32 X 7/16" Long	(5)
14.	AN526C-1032R8	Screw, #10 X 1/2" Long	(4)
15.	AN960-10	Flat Washer, #10	(4)
16.	MS20365-1032A	Locknut, #10	(4)
17.	MIL6000-1/4	Hose, 1/4" ID	(16")
18.	MIL6000-5/16	Hose, 5/16" ID	(12")
19.	MIL6000-5/8	Hose, 5/8" ID	(18")
20.	MIL6000-3/4	Hose, 3/4" ID	(18")
21.	MM-4	Hose Clamp, 1/4"	(2)
22.	MM-5	Hose Clamp, 3/8"	(2)
23.	QS100M10H	Hose Clamp, 5/8"	(2)
24.	QS100M12H	Hose Clamp, 3/4"	(4)
25.	QS100M24H	Hose Clamp, 1-1/2"	(1)
26.	QS100M72H	Hose Clamp, 4-1/2"	(1)
27.	W-2100	"C" Channel	(10")
28.	MS21919WDG-30	Adel Clamp, 1-7/8" Long	(1)
29.	CAT-7	Duct, 1-3/4" ID	(26")

# FOR REFERENCE ONLY

**Applicability:**

MOONEY M20K [Rocket Conversion]  
Cont TSIO520-NB

**Drawing:** AFC-W311**Revision:** A**Date:** 12/01/04**Airwolf Parts List No. AFC-W311-E**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
01.	W-3025	AirSep Assy, 3/4" Breather, 1/2" Vacuum	(1)
02.	W-2014	Air Syphon Pump	(1)
03.	W-2018	Air-Tee	(1)
04.	W-2154-1	Shroud Tube, 5/16" Inlet	(1)
05.	655528	Gasket	(1)
06.	630286	Pushrod Tube Seal, Outer	(1)
07.	534610	Pushrod Tube Seal, Inner	(1)
08.	W-2011	Bracket	(1)
09.	W-2029	Brace	(1)
10.	MS27039-0808	Screw, #8 X 1/2" Long	(5)
11.	MS35333-38	Lock Washer, #8	(5)
12.	AN960-8	Flat Washer, #8	(5)
13.	A8K-75	Rivnut, #8-32 X 7/16" Long	(5)
14.	AN526C-1032R8	Screw, #10 X 1/2" Long	(4)
15.	AN960-10	Flat Washer, #10	(4)
16.	MS20365-1032A	Locknut, #10	(4)
17.	MIL6000-1/4	Hose, 1/4" ID	(16")
18.	MIL6000-5/16	Hose, 5/16" ID	(12")
19.	MIL6000-1/2	Hose, 1/2" ID	(18")
20.	MIL6000-3/4	Hose, 3/4" ID	(18")
21.	MM-4	Hose Clamp, 1/4"	(2)
22.	MM-5	Hose Clamp, 3/8"	(4)
23.	QS100M10H	Hose Clamp, 5/8"	(4)
24.	QS100M12H	Hose Clamp, 3/4"	(4)
25.	QS100M24H	Hose Clamp, 1-1/2"	(1)
26.	QS100M72H	Hose Clamp, 4-1/2"	(1)
27.	W-2100	"C" Channel	(10")
28.	MS21919WDG-30	Adel Clamp, 1-7/8" Long	(1)
29.	CAT-7	Duct, 1-3/4" ID	(16")

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

**WARNING: ALL HOSES SHALL BE LOCATED AT LEAST 4.0" FROM ANY HEAT SOURCE LIKELY TO CAUSE VAPORIZATION OF THE OIL.**

01. Remove all existing breather tube components from the engine breather fitting aft.
02. Locate a point .25" down from the horizontal bend in the upper firewall, and 2.0" inboard of the right side cowling. Using a #11 drill bit, drill a hole at that point and install a Rivnut (Item 11) in the hole.

**CAUTION: While drilling hole, avoid damage to components & wiring behind the firewall**

03. Screw the W-2029 brace in place with #8 screws. Match drill the other 3 holes and install the #8 Rivnuts .
04. Assemble the W-2011 Bracket to the W-2029 brace using 4 ea of #8 screws, washer and lockwashers with the heads of the screws facing aft, and the notches of the Bracket up.
05. Install the W-2011 Bracket assy to the firewall using 4 ea of #8 screws, washer and lockwashers.
06. Install the AirSep onto the W-2011 bracket and point the 3/4" inlet tube to the left. Secure with the 4-1/2" clamp.
07. Connect the W-2034 breather Tube to the engine breather and secure to the hose with 3/4" clamps.
08. Connect a 3.25" long piece of 3/4" hose between the W-2034 breather tube and the 3/4" inlet to the AirSep. Secure both ends with 3/4" clamps.
09. Install a 6" piece of 1/2" hose from the 1/2" inlet of the AirSep, to the Air-Tee and secure with 1/2" clamps.

**Note B: Assure proper direction of Air-Tee (see drawing).**

10. Install a 12" piece of 1/2" hose to the remaining end of the Air-Tee and connect the other end to the outlet of the vacuum pump. Secure both ends with 1/2" clamps
11. Remove the 3/8" NPT" pipe plug in the lower right accy. housing, near the engine mount, and install the AN912-3D reducer and the AN816-5D fitting.
12. Install the AirSyphon Pump to the AN816-5D fitting with the diagonal tube rotated aft.
13. Install the 5/16" hose from the 5/16" diagonal tube of the Air-Tee to the 5/16" end of the Air Syphon Pump. Secure with 5/16" clamps.
14. Install the 1/4" hose from the 1/4" AirSep drain tube to the 1/4" branch of the Air Syphon Pump. Secure with 1/4" clamps

**Note C: Assure proper connection of hoses to Air Syphon Pump (see drawing)**

15. Locate a point on the right rudder pedal box 1.5" from the right side and 1.0" up from the horizontal bend. Drill and install a #8 Rivnut.
16. Install the 1-3/4" duct to the bottom of the AirSep and secure with a 1-1/2" clamp.
17. Secure the 1-3/4" duct at the rudder box with a -30 Adel clamp, and a #10 screw, washer and locknut.
17. Determine weight & balance, initiate Form 337, and update the equipment list.

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

**WARNING: ALL HOSES SHALL BE LOCATED AT LEAST 4.0" FROM ANY HEAT SOURCE LIKELY TO CAUSE VAPORIZATION OF THE OIL.**

01. Remove all existing breather tube components from the engine breather fitting aft.
02. Locate a point .25" down from the horizontal bend in the upper firewall, and 2.0" inboard of the right side cowling. Using a #11 drill bit, drill a hole at that point and install a Rivnut (Item 11) in the hole.

**CAUTION: While drilling hole, avoid damage to components & wiring behind the firewall**

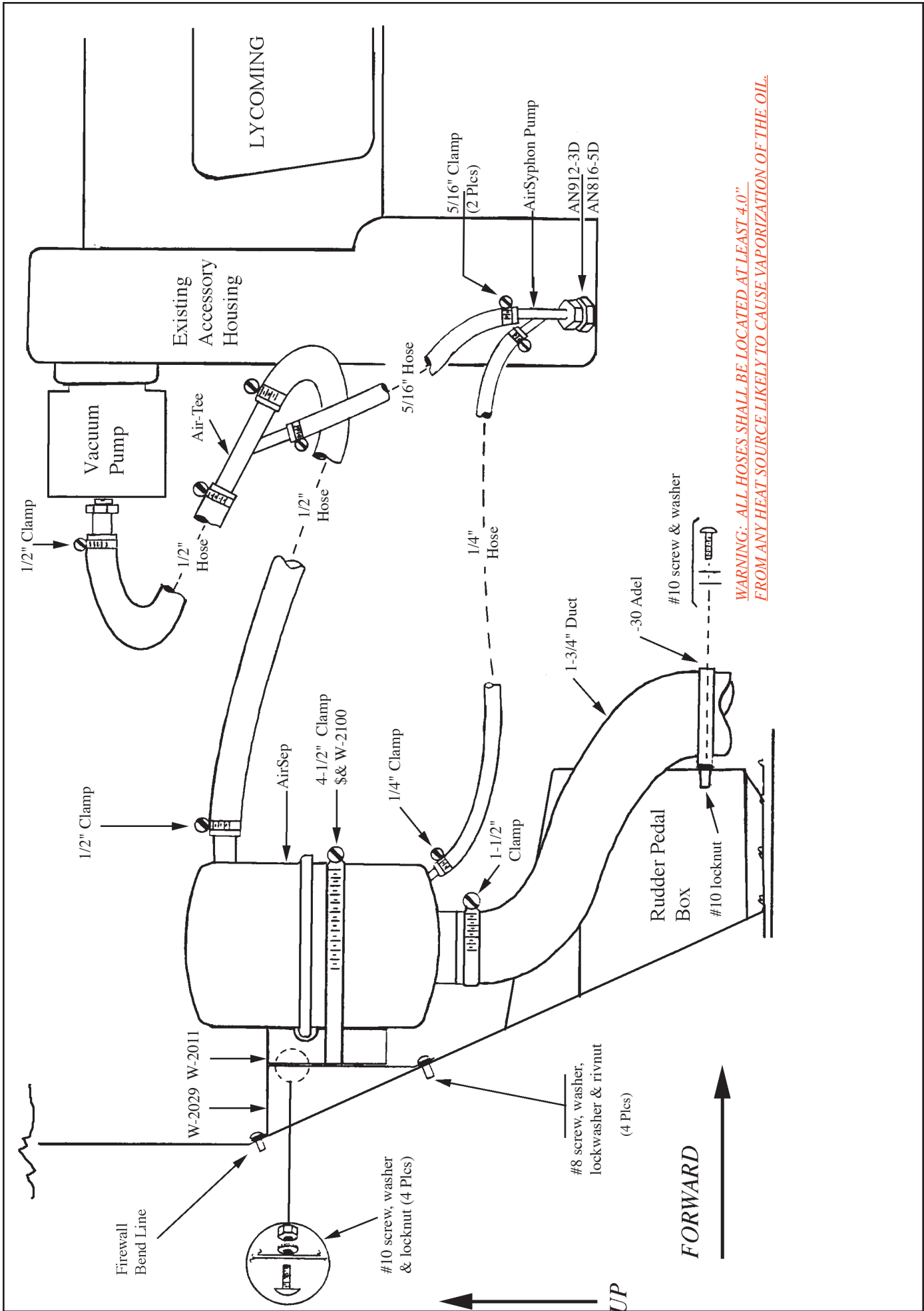
03. Screw the W-2029 brace in place with #8 screws. Match drill the other 3 holes and install the #8 Rivnuts .
04. Assemble the W-2011 Bracket to the W-2029 brace using 4 ea of #8 screws, washer and lockwashers with the heads of the screws facing aft, and the notches of the Bracket up.
05. Install the W-2011 Bracket assy to the firewall using 4 ea of #8 screws, washer and lockwashers.
06. Install the AirSep onto the W-2011 bracket and point the 3/4" inlet tube to the left. Secure with the 4-1/2" clamp.
07. Connect the W-2034 breather Tube to the engine breather and secure to the hose with 3/4" clamps.
08. Connect a 3.25" long piece of 3/4" hose between the W-2034 breather tube and the 3/4" inlet to the AirSep. Secure both ends with 3/4" clamps.
09. Install a 6" piece of 1/2" hose from the 1/2" inlet of the AirSep, to the Air-Tee and secure with 1/2" clamps.

**Note B: Assure proper direction of Air-Tee (see drawing).**

10. Install a 12" piece of 1/2" hose to the remaining end of the Air-Tee and connect the other end to the outlet of the vacuum pump. Secure both ends with 1/2" clamps
11. Remove the 3/8" NPT" pipe plug in the lower right accy. housing, near the engine mount, and install the AN912-3D reducer and the AN816-5D fitting.
12. Install the AirSyphon Pump to the AN816-5D fitting with the diagonal tube rotated aft.
13. Install the 5/16" hose from the 5/16" diagonal tube of the Air-Tee to the 5/16" end of the Air Syphon Pump. Secure with 5/16" clamps.
14. Install the 1/4" hose from the 1/4" AirSep drain tube to the 1/4" branch of the Air Syphon Pump. Secure with 1/4" clamps

**Note C: Assure proper connection of hoses to Air Syphon Pump (see drawing)**

15. Locate a point on the right rudder pedal box 1.5" from the right side and 1.0" up from the horizontal bend. Drill and install a #8 Rivnut.
16. Install the 1-3/4" duct to the bottom of the AirSep and secure with a 1-1/2" clamp.
17. Secure the 1-3/4" duct at the rudder box with a -30 Adel clamp, and a #10 screw, washer and locknut.
17. Determine weight & balance, initiate Form 337, and update the equipment list.



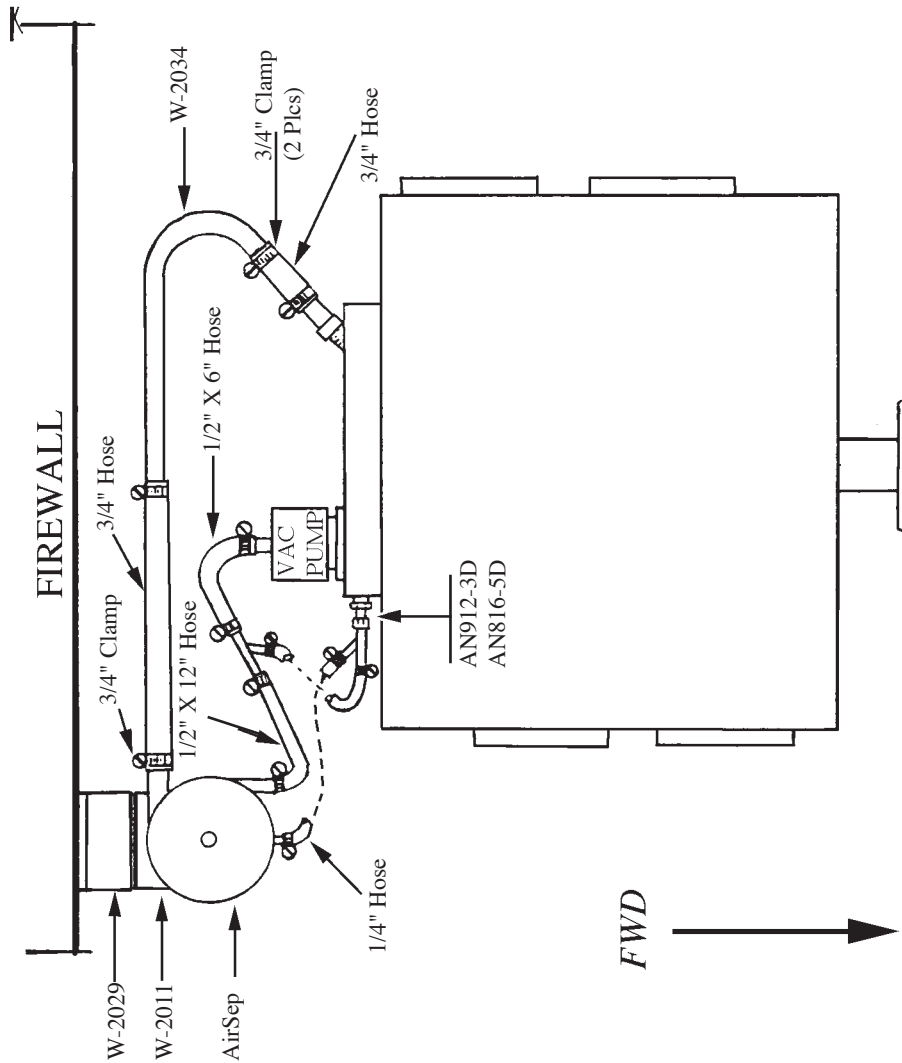
**WARNING: ALL HOSES SHALL BE LOCATED AT LEAST 4.0" FROM ANY HEAT SOURCE LIKELY TO CAUSE VAPORIZATION OF THE OIL.**

Drawing: AFC-W311  
 Revision: A  
 Date: 12/01/04

Applicability: MOONEY  
 M20, A, B, C, D, E, G, H, J, L,



**WARNING: ALL HOSES SHALL BE LOCATED AT LEAST 4.0" FROM ANY HEAT SOURCE LIKELY TO CAUSE VAPORIZATION OF THE OIL.**



Applicability:

MOONEY  
M20, A, B, C, D, E, G, H, J, L,

Drawing: AFC-W311  
Revision: A  
Date: 12/01/04

## AIRWOLF 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 Air/Oil Separator**

Airwolf Filter Corp  
15369 Madison Rd  
Middlefield, OH 44062



ITEM	CHECKLIST INFORMATION
1.	<p><b>Introduction:</b> 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><b>Comment:</b> _____ <b>with Lycoming</b> _____  <b>engine.</b> _____ Aircraft Model _____ Engine Model _____</p>
2.	<p><b>Description:</b> Of the major alteration, it's function including an explanation of it's interface with other systems, if any.</p> <p><b>Comment: Installation of Airwolf Air/Oil Separator P/N AFC-W311</b></p>
3.	<p><b>Control:</b> Operation information: Or special procedures if any.</p> <p><b>Comment: __N/A</b></p>
4.	<p><b>Servicing information:</b> Such as types of fluids used, servicing points, and location of access panels, as appropriate.</p> <p><b>Comment: __N/A</b></p>
5.	<p><b>Maintenance Instructions:</b> 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><b>Comment: Inspect for security at each annual or 100 hr. inspection. In the event of a vacuum pump failure, disassemble Air/Oil Separator, thoroughly clean it and all lines, hoses and fittings with "Stoddard Solvent" or other suitable solvent and remove any traces of vacuum pump debris. Reassemble and lightly torque top nut only enough to prevent top and bottom can from rotating and center gasket to seal to prevent any leakage.</b></p>
6.	<p><b>Trouble shooting information:</b> Information describing probably malfunctions, how to recognize those malfunctions, and the remedial actions to be taken.</p> <p><b>Comment: If any oil is seeping out of center seam of AirSep can, replace center gasket and lightly torque top nut only enough to prevent further leakage. If breather oil is found on the belly of the aircraft, check that outlet duct is located as per the installation instructions and is not located in or near the high velocity airstream.</b></p>
7.	<p><b>Removal and replacement information:</b> 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><b>Comments: __N/A</b></p>
8.	<p><b>Diagrams:</b> Of access plates and information, if needed, to gain access for inspection.</p> <p><b>Comment: __N/A</b></p>
9.	<p><b>Special inspection requirements:</b> Such as X-ray, ultrasonic testing, or magnetic particle inspection, if required.</p> <p><b>Comment: __N/A</b></p>
10.	<p><b>Application of protective treatments:</b> To the affected area after inspection and/or maintenance, if any.</p> <p><b>Comment: __N/A</b></p>

## AIRWOLF INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

11.	<p><b>Data: Relative to structural fasteners such as type, torque, and installation requirements if any.</b></p> <p><b>Comment:</b>__N/A</p>
12.	<p><b>List of special tools:</b> Special tools that are required, if any.</p> <p><b>Comment:</b>__N/A</p>
13.	<p><b>For commuter category aircraft:</b> The following additional information must be furnished, as applicable:</p> <ul style="list-style-type: none"> <li>A. Electrical Loads</li> <li>B. Methods of balancing flight controls.</li> <li>C. Identification of primary and secondary structures&gt;</li> <li>D. Special repair methods applicable to the airplane.</li> </ul> <p><b>Comment:</b>__N/A</p>
14.	<p><b>Recommended overhaul periods:</b> 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."</p> <p><b>Comment:</b>__N/A</p>
15.	<p><b>Airworthiness Limitation Section:</b> 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."</p> <p><b>Comment:</b>__N/A</p>
16.	<p><b>Revision:</b> 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.</p> <p><b>Comment:</b>__ 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.</p>

**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.

# Supplemental Type Certificate

*Number* SA3859WE

*This Certificate issued to* Airwolf Filter Corp.  
15369 Madison Road  
Middlefield, Ohio 44062-8404

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3\* of the Civil Air Regulations.* \*Certification basis is set forth on Type Certificate Data Sheet 2A3, Revision 24.

*Original Product Type Certificate Number :* 2A3

*Make :* Mooney

*Model :* M20C and M20D

*Description of Type Design Change:*

Installation of an air/oil separator in accordance with FAA-sealed Walker Engineering Company Master Drawing List No. DLW-3000-11, Revision "N/C", or later FAA-approved revisions.

*Limitations and Conditions:* The approval of this change in type design applies basically to the above listed models only. This approval should not be extended to other specific airplanes of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of the above listed airplanes. A copy of this STC must be included in the permanent records of the modified aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator*

*Date of application :* September 29, 1978

*Date reissued :* September 28, 2001

*Date of issuance :* March 12, 1979

*Date amended :*

*of the Federal Aviation Administration.*



*By direction of the Administrator*

*[Signature]*  
(Signature)

*PON* Manager, Technical and Administrative  
Support Staff

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.