

FOR REFERENCE ONLY

Applicability: NAVION (L-17A)
 NAVION A (L-17B), (L-17C)
 Equipped with "E" Series Continental Engines

Drawing: AFC-W319
Revision: B
Date: 06/01/05

Airwolf Parts List No. AFC-W319

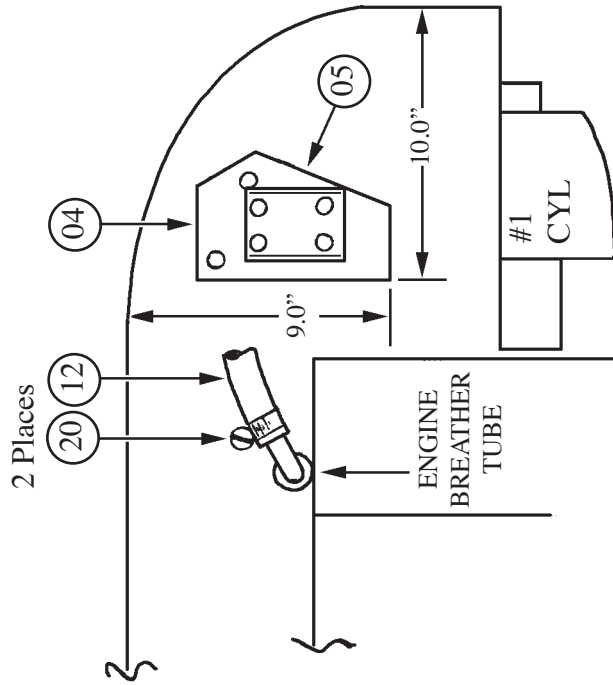
<u>Index</u>	<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
01.	W-3002	AirSep Assy	(1)
02.	W-2008	Air Syphon Pump	(1)
03.	W-2018	Air-Tee	(1)
04.	W-2021	Doubler	(1)
05.	W-2011	Bracket	(1)
06.	W-2028-1	Tube	(1)
07.	Deleted		
08.	Deleted		
09.	Deleted		
10.	MIL6000-1/4	Hose, 1/4" ID	(34")
11.	MIL6000-5/16	Hose, 5/16" ID	(32")
12.	MIL6000-3/4	Hose, 3/4" ID	(9")
13.	Deleted		
14.	MIL6000-1/2	Hose, 1/2" ID	(14")
15.1	MIL6000-1/2	Hose, 1/2" ID	(2")
15.2	MIL6000-1/2	Hose, 1/2" ID	(2")
16.	Deleted		
17.	Deleted		
18.	MM-4	Hose Clamp, 1/4"	(4)
19.	MM-5	Hose Clamp, 3/8"	(6)
20.	QS100M10H	Hose Clamp, 5/8"	(2)
21.	QS100M24H	Hose Clamp, 1-1/2"	(1)
22.	QS100M72H	Hose Clamp, 4-1/2"	(1)
23.	W-2100	"C" Channel	(10")
24.	Deleted		
25.	AN526C-1032R10	Screw, #10 X 5/8" Long	(6)
26.	Deleted		
27.	AN970-3	Flat Washer, #10	(6)
28.	Deleted		
29.	Deleted		
30.	MS20365-1032A	Locknut, #10	(6)
31.	Deleted		
32.	Deleted		
33.	CAT-7	Duct, 1-3/4" ID	(28")
34.	AN821-5D	Fitting	(1)
35.	AN912-6D	Bushing	(1)

*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 the existing breather tube assy from the rear baffle down to the cowl flap.
02. Remove the existing vacuum pump breather exhaust components from the vacuum pump down to the cowl flap.
03. Locate a point on the right rear baffle, 9.0" down from the top and 10.0" inboard of the lower right edge.
04. Align the lower left corner of the doubler (Item 4) at the above mentioned point, and clamp it horizontally and vertically square on the rear baffle. Match drill the (4) holes through the baffle.
05. Assemble the doubler and the Universal Bracket (Item 5) to the rear baffle using 4 each of Items 25, 27, & 30, as shown in figure 2.
06. Match drill the remaining two holes through the doubler and rear baffle.
07. Slide the clamp (Item 22) under the universal bracket, just below the notches in the flanged edges.
08. Secure the bracket with the remaining 2 each of Items 25, 27, & 30.
09. Install the AirSep to the Universal Bracket as shown in figure 1 & 3. Do not overtighten clamp.
10. Choose the most suitable drain point from the figures A, B, C in figure 3.
LOCATION A: Left side accy housing; Remove the 1/2" pipe fitting and replace it with the bushing (Item 34) and fitting (Item 35)
LOCATION B: Right side accy housing, pump pad block-off plate; Modify per instructions in Fig. B.
LOCATION C: Right side accy housing; same as LOCATION A above.
11. Install the Air Syphon Pump (Item 2) on the drain fitting installed above.
12. Install the hose (Item 12) between the 3/4" inlet to the AirSep and the existing engine breather tube. Secure it with 2 each of Item 20.
13. Install the hose (Item 15) between the 1/2" inlet to the AirSep and the tube (Item 6). Secure it with 2 each of Item 19.
14. Install the hose (Item 15) between the tube (Item 6) and the Air-Tee (Item 3). Secure it with 2 each of Item 19.
15. Install the hose (Item 14) between the remaining end of the Air-Tee and the vacuum pump exhaust fitting. Clamp it with (2) each of Item 19.
- 16.* Install the hose (Item 11) between the 5/16" diagonal tube of the Air-Tee and the 5/16" inlet to the Air Syphon Pump. Clamp it with (2) each of item 18.
- 17.* Install the hose (Item 10) between the Airsep drain tube and the 1/4" diagonal inlet to the Air Syphon Pump. Clamp with (2) each of Item 18.
18. Install the duct (Item 33) to the 1-3/4" outlet of the Airsep. Clamp it at the AirSep with Item 21.
19. Secure the lower end of the duct using good shop practices. The duct should not extend into the cowl flap area or aircraft slipstream.

* When using the oil return at points B or C, cut hoses to length.



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FIGURE 2

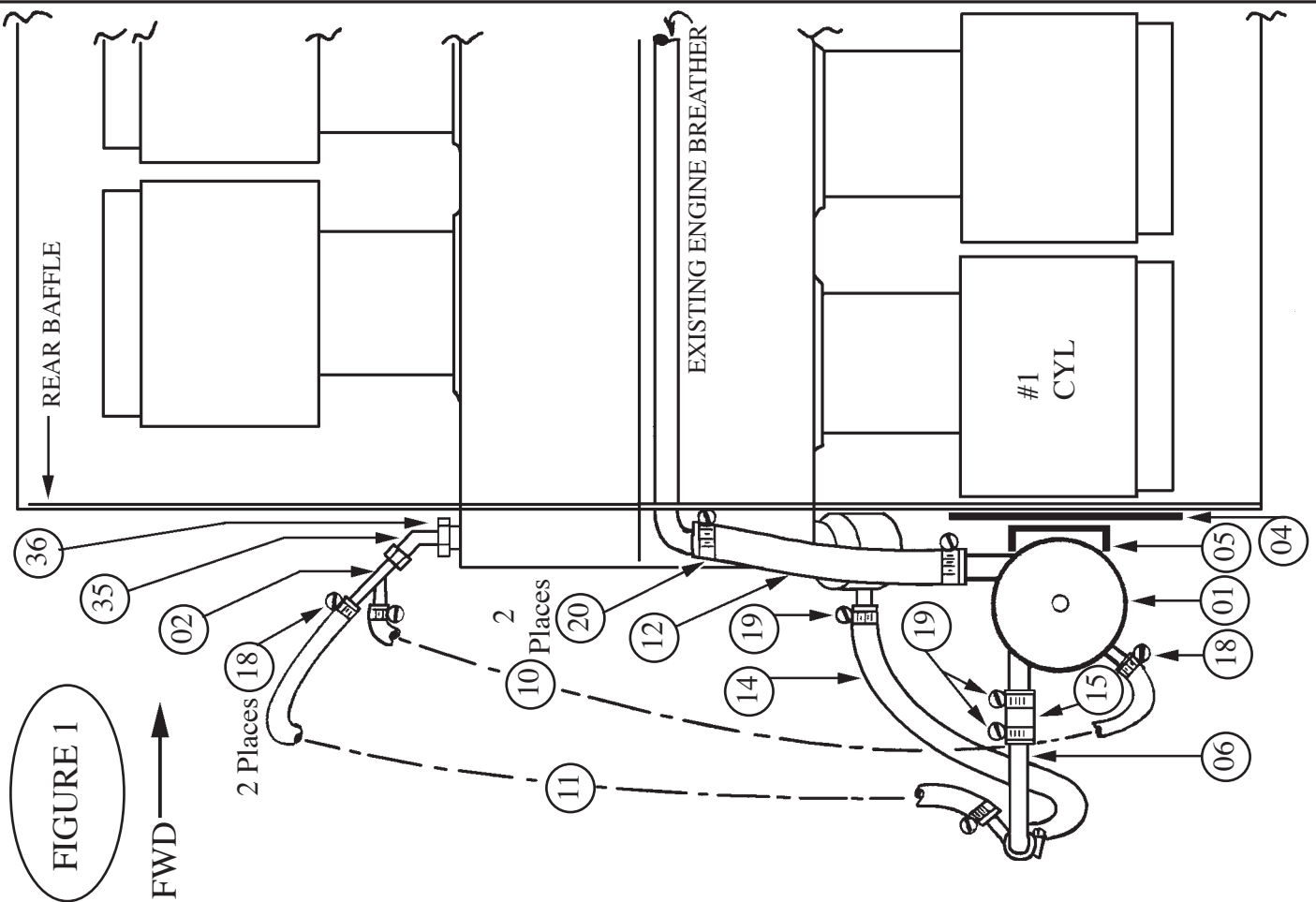


FIGURE 1

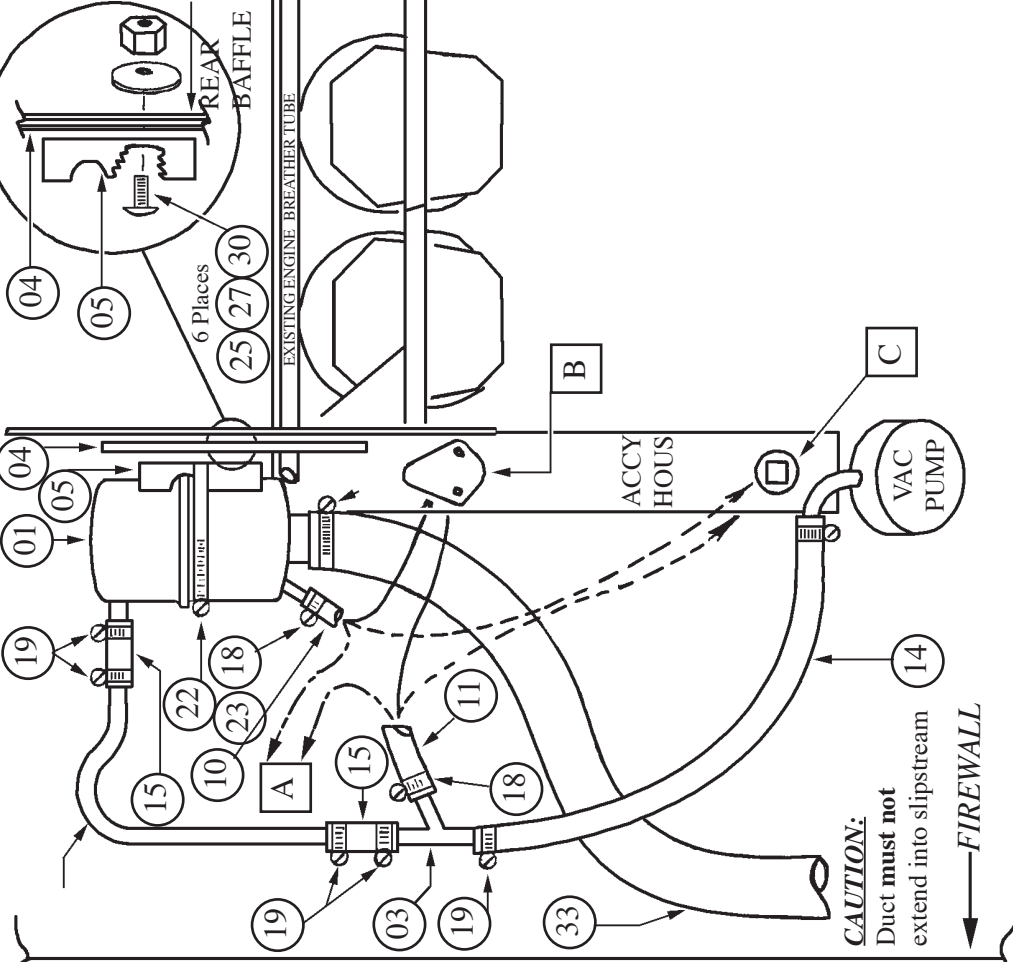


FIGURE 3

