

Accessory Kit No. AK-111D
 (Supersedes AK-111C)

DATE: November 7, 1974
 TITLE: Hourmeter Accessory Kit
 MODELS AFFECTED: All Model AA-1 & AA-1A, AA1B-0001 through AA1B-0237 and AA5-0001 through AA5-0405
 WEIGHT AND BALANCE CHANGE:
 Weight Increase: .55 Lbs.
 Arm: 61.3 In.

Parts List - Accessory Kit No. AK-111D-1 (Affected two-place aircraft)

<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	771	Hourmeter
1	M-5600 (Alternate)	Hourmeter
1	2904-81-H	Pressure Switch
1	40558 (Alternate)	Pressure Switch
1	804005-503	Tube Ass'y
2	AN816-4D	Union
1	AN917-1D	Tee
1	402020-702	Fuse Box Ass'y
4	1604-0412	Rivet
1	51DF3	Wire
1	51DF2	Wire
1	51DF5	Wire
3	AA832-08	Terminal
2	BB8141	Terminal
1	60620-1	Pin
1	1-480305-0	Plug Connector
1	804005-506	Tube Ass'y

Parts List - Accessory Kit No. AK-111D-2 (Affected four-place aircraft)

Note: This kit includes all parts listed in AK-111D-1, except:

1	804005-506	Tube Ass'y (Delete)
1	804005-504	Tube Ass'y (Add)

Description of Installation

1. Installation of hourmeter, pressure switch and related electrical connections and hardware.
2. Estimated time to accomplish this installation is 3.0 man hours.

Installation Instructions (Refer to Figure 1.)

1. Cut hole in instrument panel royalite cover, drill (3) .147 dia. holes for mounting screws and attach hourmeter to instrument panel.
2. Remove existing oil line from firewall to oil pressure gauge. Pre-assemble the pressure switch and replacement oil lines, as shown in Figure 1, and attach to firewall bulkhead fitting and oil pressure gauge.
3. Fasten BB8141 and AA832-08 Terminals to the 51DF2 Wire and attach between hourmeter and pressure switch. Fasten (2) AA832-08 Terminals to the 51DF3 Wire and attach one end to the pressure switch. Ground opposite end of the 51DF3 Wire, by attaching to existing ground connection at the radio tray support. In the absence of a ground connection at the radio tray support, insure ground continuity and attach to other convenient ground source.
4. Fasten BB8141 Terminal to 51DF5 wire and attach to hourmeter. Route 51DF5 wire through firewall to engine compartment.

N O T E

ALL WIRES INSTALLED SHOULD BE SECURED TO PREVENT ELECTRICAL SHORTS AND INTERFERENCE WITH THE AIRCRAFT CONTROL SYSTEM. CHECK CONTROL SYSTEM FOR FREEDOM OF MOVEMENT.

5. Remove battery box and rivet 402020-702 Fuse Box Assembly to battery support, as shown in Figure 1.
6. Fasten 60620-1 Pin to 51DF5 Wire that was routed through firewall in Step 4 and position in center hole of the 1-480305-0 Plug Connector. Assemble plug connector to mating connector of fuse box assembly.
7. Attach 51LA1 Wire to the battery terminal side of the battery relay. (Route wire through existing boot on relay).
8. Secure all wires installed in engine compartment and reinstall battery box.
9. Check hourmeter for proper operation. Check pressure switch and lines for oil leaks.

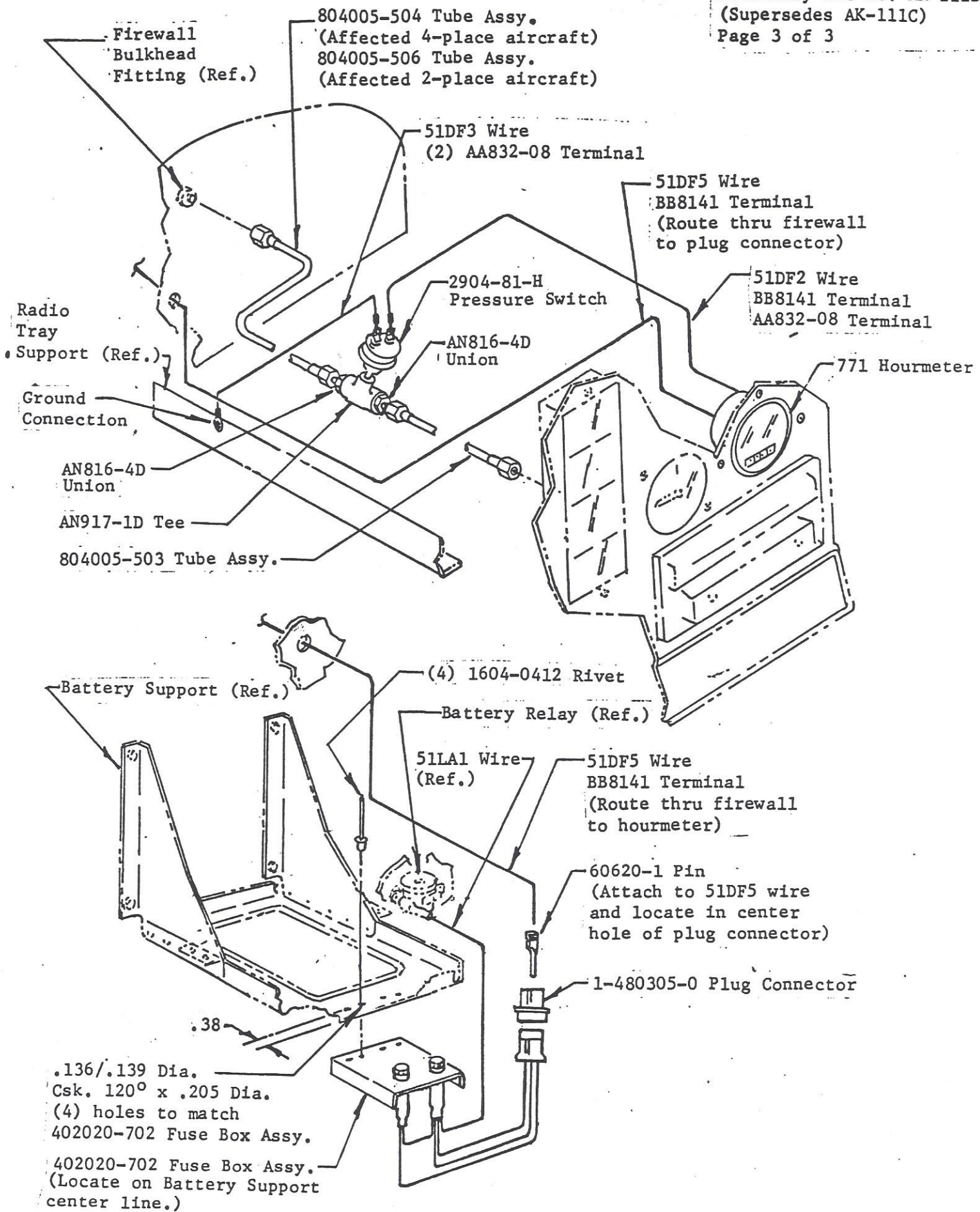


Figure 1. Hourmeter Installation