

Accessory Kit No. AK-105B
 (Supersedes Accessory Kit No. AK-105A
 dated March 11, 1971)

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DATE: November 26, 1974
 TITLE: Heated Pitot Tube Accessory Kit
 MODELS AFFECTED: All Model AA-1, AA-1A and AA-1B aircraft
 WEIGHT AND BALANCE CHANGE:
 Weight Increase: Negligible
 Arm: Negligible

Parts List - Accessory Kit No. AK-105B-1 (All Model AA-1 and AA-1A)

<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	26-000-100	Switch (Chicago Switch)
1	AGC-15	Fuse
1	HKP	Fuse Holder
2	BB-8111	Terminal
1	MS24694-S48	Screw
1	AN3115-1	Terminal
1	804007-502	Pitot Assy.
1	732RTV	Sealant

Parts List - Accessory Kit No. AK-105B-2 (AA1B-0001 thru AA1B-0237)

NOTE: This kit includes all parts listed in AK-105B-1, except the HKP Fuse Holder and AGC-15 Fuse.

<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	HKP	Fuse Holder (Delete)
1	AGC-15	Fuse (Delete)

Parts List - Accessory Kit No. AK-105B-3 (AA1B-0238 and up)

NOTE: This kit includes all parts listed in AK-105B-1, except the HKP Fuse Holder, AGC-15 Fuse and 26-000-100 Switch.

<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	HKP	Fuse Holder (Delete)
1	AGC-15	Fuse (Delete)
1	26-000-100	Switch (Delete)
1	TA-201-TB-W	Switch (Add)

Description of Installation

1. Removal of existing non-heated pitot tube and installation of heated pitot tube assy. and related hardware.
2. Estimated time to accomplish this installation is three (3) man hours.

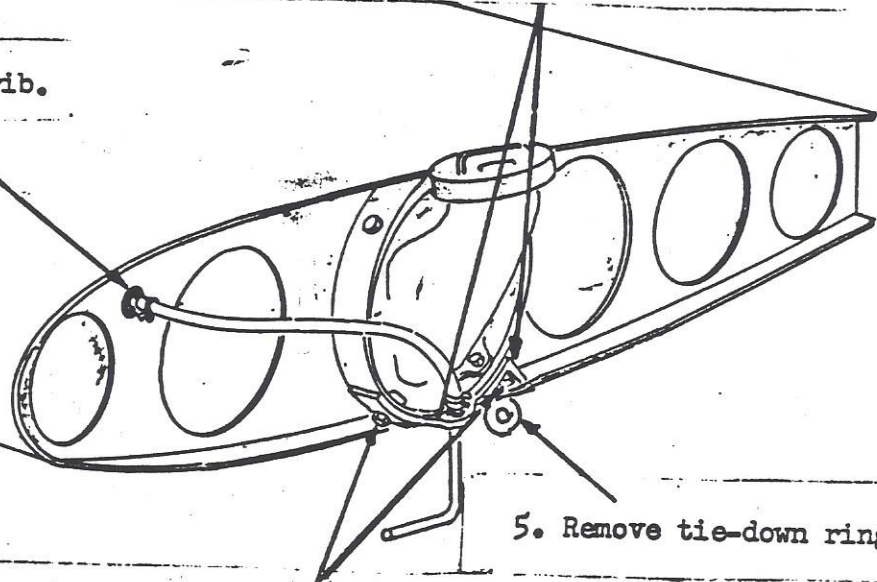
Installation Instructions

Install the heated pitot assy. as instructed on Figure's 1 through 5.

NOTE: Revision "B" identifies this kit, as revised and rewritten.

8. Carefully remove pitot tube and tie-down ring bracket. Reinstall tie-down ring bracket, nut and tie-down ring. Install washers between bracket and rib to take up space left by removal of original pitot tube.

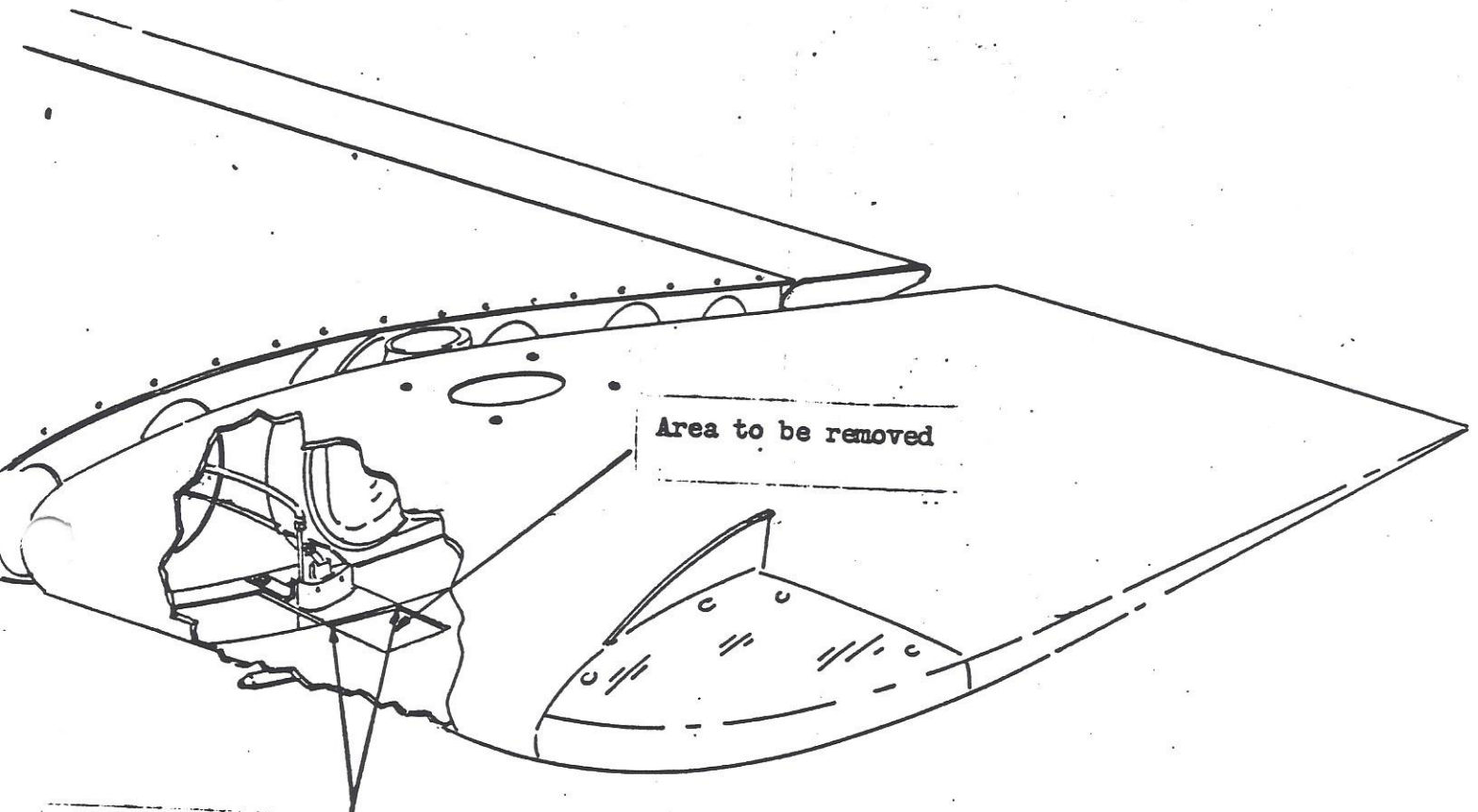
7. Disconnect tubing at rib.



5. Remove tie-down ring.

6. Remove the two lower nuts from bottom of spar being careful not to disturb tank seal. Remove Pro-seal around nut and bolt heads only.

Figure 2. Conventional Pitot Tube Removal.



11. Slide wing tip on until tip contacts edge of cover plate. Mark forward and aft edges of cover plate for slot to be cut in tip.

12. Measure cover plate to determine slot depth required, remove tip and cut slot. Make first cut to a conservative depth and trim in after refitting. Clearance between tip and cover plate should be .03 ins. Refer back to figure 3.

Figure 4. Slot for pitot cover plate.

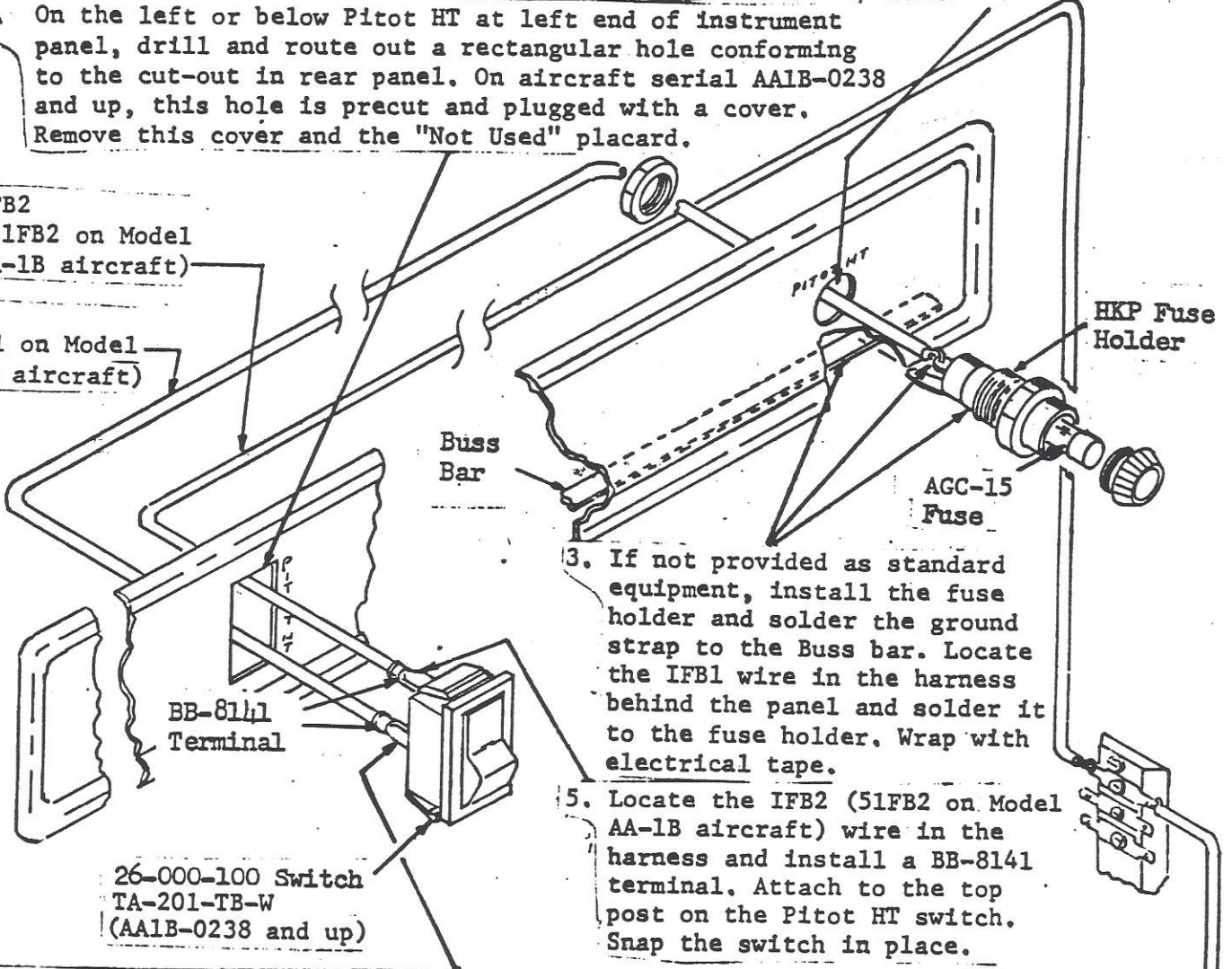
1. On Model AA-1 and AA-1A aircraft, drill a 1/8 in. hole under Pitot HT (right lower instrument panel) exactly in line with existing fuse holders. Using a small router or the side of a 1/4 in. drill bit, route out the hole to match the cut-out in rear panel.

- NOTES: 1. On aircraft serial AAL-0180 thru AAL-0459 remove the two screws and buss bar cover from lower instrument panel. Reinstall cover and screws after completion of step 3 below.
2. On Model AA-1A aircraft, the right hand vent airbox will have to be removed. Reinstall after completion of step 3 below.
 3. On Model AA-1B aircraft, the Fuse Holder and Fuse are installed as standard equipment. On AALB-0238 and up, remove the "Not Used" placard.

2. On the left or below Pitot HT at left end of instrument panel, drill and route out a rectangular hole conforming to the cut-out in rear panel. On aircraft serial AALB-0238 and up, this hole is precut and plugged with a cover. Remove this cover and the "Not Used" placard.

IFB2
(51FB2 on Model
AA-1B aircraft)

IFB1
(51FB1 on Model
AA-1B aircraft)



3. If not provided as standard equipment, install the fuse holder and solder the ground strap to the Buss bar. Locate the IFB1 wire in the harness behind the panel and solder it to the fuse holder. Wrap with electrical tape.

5. Locate the IFB2 (51FB2 on Model AA-1B aircraft) wire in the harness and install a BB-8141 terminal. Attach to the top post on the Pitot HT switch. Snap the switch in place.

4. At the left end of the instrument panel, locate the other end of the IFB1 (51FB1 on Model AA-1B aircraft) wire. Remove the plugged end and attach a BB-8141 terminal. Attach to the bottom post of the Pitot HT switch.

6. If not provided as standard equipment, install the AGC-15 Fuse in fuse holder. Turn master switch on; place switch in "on" position and check pitot tube for proper operation. Check pitot system for leaks per Service Manual.

Figure 5. Pitot heat switch and fuse holder installation.