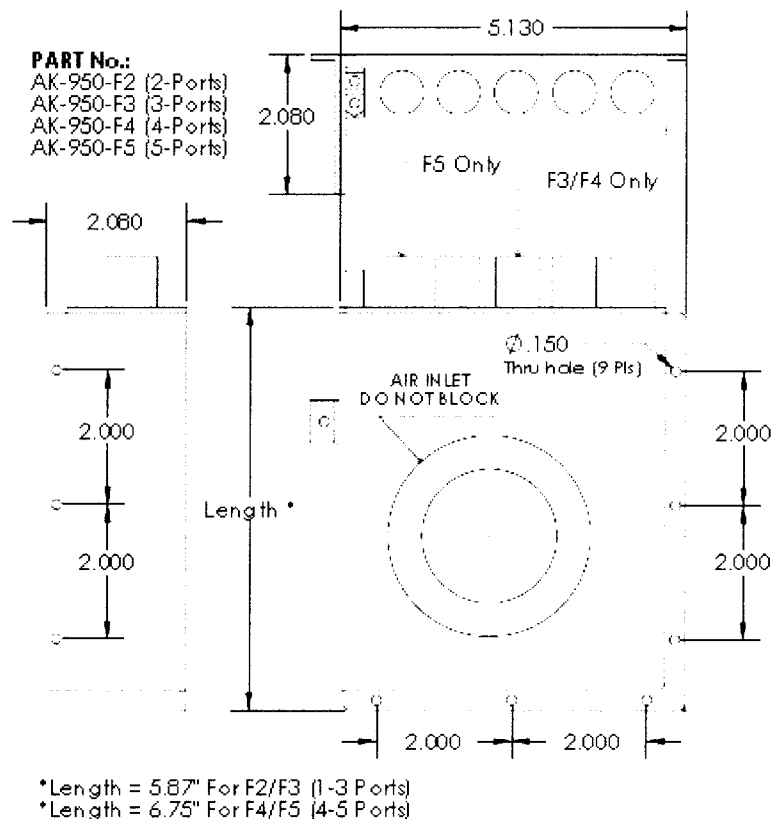


NOTE: "The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those desiring to install this article on or within a specific type or class of aircraft to determine that the aircraft operating conditions are within TSO standards. The article may be installed only if further evaluation by the applicant documents an acceptable installation and is approved by the Administrator." Source: FAA TSO-C129a.

The GPS/Avionics Cooling Fan, AK-950-F( ), is a GPS Accessory item. It delivers up to 26.6 CFM (Cubic Feet Per Minute) of Force Air Cooling to GPS/Avionics Receivers.



NOTES: All dimensions are in inches.

**1. FAA APPROVED: PMA / STC / TSO**

ENVIRONMENTAL TEST Cat's: A2D1/CA/MN/XXXXXXABBBATAXXX  
OPERATING TEMPERATURE: -20°C to +70°C.

**2. ACCESSORIES SUPPLIED:**

- Air Hoses: 5/8" I.D. Size
- Connector Kit:  
 Plug, 770069-1 AMP Inc.  
 Contacts, Female Socket 770146-5, (24-18) AWG AMP Inc.  
 (Crimping Tool, 90872-1 AMP Inc. should be used)

**3. WIRING DIAGRAM:**



NOTE: Power Reverse Polarity is protected.

**INSTALLATION INSTRUCTIONS:**

Mounting: Universal Remote Mounting.  
 Un-used outlets may be left open to prevent Reverse Air Flow.  
 Connect Hoses to Port Outlets as shown.  
 Cut hose lengths as short as practical, if stronger air flow is desired.

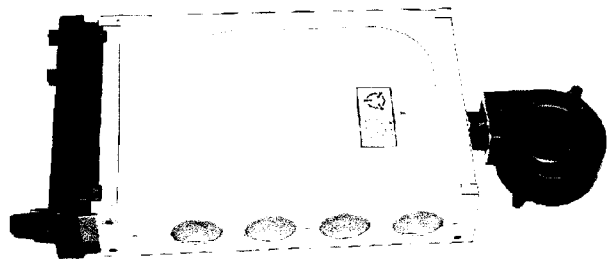
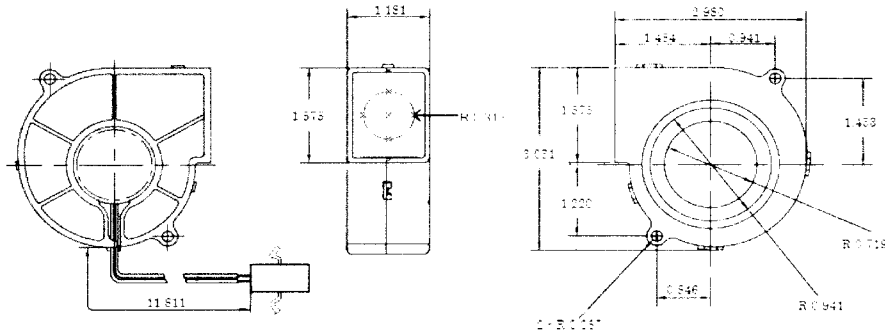
**4. ELECTRICAL SPECIFICATIONS:**

- POWER: 28 VDC @ 0.4A  
 14 VDC @ 0.6A
- AIR FLOW: 26.6 CFM @ 0 mmAg
- MTBF: 50,000 Hours @ 25°C

**INSTALLATION AND OPERATION MANUAL, MODEL AK-950  
DOCUMENT NO.: IM-950, REV D**

NOTE: "The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those desiring to install this article on or within a specific type or class of aircraft to determine that the aircraft operating conditions are within TSO standards. The article may be installed only if further evaluation by the applicant documents an acceptable installation and is approved by the Administrator." Source: FAA TSO-C129a.

The GPS/Avionics Cooling Fan, AK-950-F1, is a GPS Accessory item. It delivers up to 13.37 CFM (Cubic Feet Per Minute) of Force Air Cooling to GPS/Avionics Receivers.



NOTES: All dimensions are in inches.

**INSTALLATION AND OPERATION MANUAL, MODEL AK-950  
DOCUMENT NO.: IM-950, REV D**

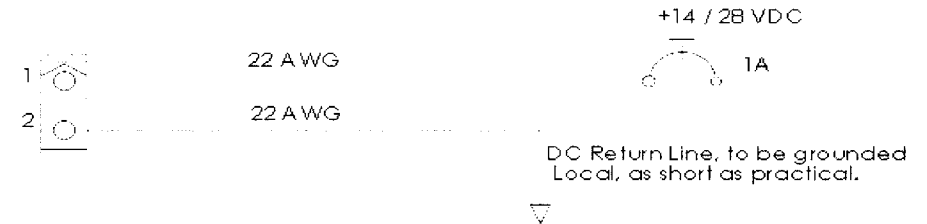
**1. FAA APPROVED: PMA / STC / TSO**

ENVIRONMENTAL TEST Cat's: A2D1/CA/MN/XXXXXXABBBATAXXX  
OPERATING TEMPERATURE: -20°C to +70°C.

**2. ACCESSORIES SUPPLIED:**

- Air Hoses: 5/8" I.D. Size
- Connector Kit:  
Plug, 770069-1 AMP Inc.  
Contacts, Female Socket 770146-5, (24-18) AWG AMP Inc.  
(Crimping Tool, 90872-1 AMP Inc. should be used)

**3. WIRING DIAGRAM:**



NOTE: Power Reverse Polarity is protected.

**INSTALLATION INSTRUCTIONS:**

Mounting: Direct mounting as follows:

The Fan outlet Port may be directly mounted at the back of the Avionic Radio Tray. Keep the distance between the Fan Outlet Port and the Tray Inlet Port, less than 1 Inch (or as short as possible.) The Air Flow from this Outlet Port will cool the Radio, located inside the Tray.

NOTE: The Fan may also be mounted remotely if space behind the Avionic tray is not allowed.

**4. ELECTRICAL SPECIFICATIONS:**

- POWER: 28 VDC @ 0.24A  
14 VDC @ 0.46A
- AIR FLOW: 13.37 CFM @ 0 mmAg
- MTBF: 50,000 Hours @ 25°C

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURING APPROVAL

**Ameri-King Corporation**  
**17881 Sampson Lane**  
**Huntington Beach, California 92648**

**PMA NO. PQ2350NM**  
**SUPPLEMENT NO. 1**  
**DATE March 29, 2001**

<u>PART NAME</u>	<u>PART NUMBER</u>	<u>APPROVED REPLACEMENT FOR PART NUMBER</u>	<u>APPROVAL BASIS AND APPROVED DESIGN DATA</u>	<u>MAKE ELEGIBILITY</u>	<u>MODEL ELEGIBILITY</u>
GPS Navigation Switching / Annunciator Panel	AK-950		STC No.SA00279LA  <u>DWG No:</u> AK-950 <u>REV:</u> A <u>Date:</u> March 15, 2001 or later FAA approved revisions	See Attached FAA Approved Model List	See Attached FAA approved Model List
GPS Cooling Fans	AK-950-F1 AK-950-F2 AK-950-F3 AK-950-F4 AK-950-F5		" "	See Attached FAA Approved Model List	See Attached FAA approved Model List
RFI DC Filters	AK-950-FTR AK-950-FTR1		" "	See Attached FAA Approved Model List	See Attached FAA approved Model List

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End of Listing

**Note: Minor design changes (reference 14 CFR part 21 §§ 21.93 and 21.95) must be submitted in a manner as determined by the ACO. Major Design changes (reference 14 CFR part 21 §§ 21.93 and 21.97) to drawings and specifications are to be handled in the same manner as that for an original FAA-PMA.**



Christopher B. Bergen  
 Manager, Los Angeles Manufacturing  
 Inspection District Office

# *FAA Approved Model List (AML)*

*Number* SA00279LA

Ameri-King Corporation

For

Installation of Ameri-King AK-950 Global Positioning System Navigation  
Switching / Annunciator and Associated Equipment

Issued Date: November 13, 1996

Amended Date: March 19, 2001

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Item	Aircraft Make	Aircraft Model	Type Certificate Number	Certification Basis for Alteration	FAA Approved Master Drawing List		FAA Approved Rotorcraft Manual Supplement		AML Approval Date
					Number	Revision/Date	Number	Revision/Date	
1	Aeronca Inc.	KCA, 50-C, S-50-C, S-65-C, 65-CA, S65-CA	A-675	Aero Bulletin 7A	MDL-950	NC/11-13-1996	FMS-950	NC/11-13-1996	11-13-1996
2	Aeronca Inc.	50L, 50-LA, 65-LA, 65-LB	A-702	CAR Part 4a	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
3	Aeronca Inc.	15AC, S15AC	A-802	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
4	American Champion Aircraft Corp.	7 Series	A-759	CAR Part 4a	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
5	American Champion Aircraft Corp.	8KCAB, 8GCBC	A21CE	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
6	American Champion Aircraft Corp.	11AC, S11AC, 11BC, S11BC	A-761	CAR Part 4a	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
7	American Champion Aircraft Corp.	11CC, S11CC	A-796	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
8	American Champion Aircraft Corp.	402	A3CE	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001

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9	Bellanca	17-30A, 17-31A, 17-31ATC	A18CE	FAR Par 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
8	Cessna Aircraft Company	120, 140	A-768	CAR Part 4a	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
9	Cessna Aircraft Company	150	3A17	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
10	Cessna Aircraft Company	172()	3A12	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
11	Cessna Aircraft Company	182()	3A13	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
12	Cessna Aircraft Company	206()	A4CE	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
13	Cessna Aircraft Company	207()	A16CE	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
14	Cessna Aircraft Company	208()	A37CE	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
15	Cessna Aircraft Company	525	A1WI	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
16	Cessna Aircraft Company	500, 550, S550, 552, 560, 560XL	A22CE	FAR Part 25	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
17	Cessna Aircraft Company	650	A9NM	FAR Part 25	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001

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18	Cessna Aircraft Company	750	T00007WI	FAR Part 25	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
19	Cirrus Design Corp.	SR20	A00009CH	FAR part 25	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
20	Commander Aircraft Company	112, 112TC, 112B, 112TCA, 114, 114A, 114B, 114TC	A12SO	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
21	Commonwealth Aircraft Inc.	Rearwin 175, 180, 180F, 185, 190F	A-729	CAR Part 4a	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
22	Maule Aerospace Technology Corp.	M4, M5, M6-265, MX-7-180( ), MXT7-180( ) MT-7-235( ) MT-7-260( ) M-7-235 ( ) M-7-260	3A23	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001

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23	Mooney Aircraft Company	M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K, M20L, M20M, M20R	2A3	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
24	Mooney Aircraft Company	M22	A6SW	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
25	Raytheon Aircraft Company	19A, B19, M19A 23, A23, A23A, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R	A1CE	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001

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26	Raytheon Aircraft Company	35, A35, B35, C35, D35, E35, F35, G35, 35R 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC	3A15	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
27	Raytheon Aircraft Company	99, A99, A100 Series,	A14CE	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
28	Raytheon Aircraft Company	B200, B300 Series	A24CE	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
32	Piper Aircraft Inc.	PA34-200, -200T, -220T (III), -220T (IV)	A7SO	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001

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33	Piper Aircraft Inc.	PA-36-285, -36-300, -36-375	A9SO	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
34	Piper Aircraft Inc.	PA-32-260, -32-300, -32S-300, -32R-300, -32RT-300, -32RT-300T, -32R-301(SP), 32R-301(HP), -32R-301T, -32-301, -32-301T	A3SO	CAR Part 3	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
35	Piper Aircraft Inc.	PA-46-310P, -46-350P	A25SO	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	03-19-2001
36	Piper Aircraft Inc.	PA-44-180, -44-180T	A19SO	FAR Part 23	MDL-950	A/03-19-2001	FMS-950	NC/11-13-1996	

FAA Approved:   
Project Manager, Systems and Equipment Branch  
Los Angeles Aircraft Certification Office