

# The AeroElectric Connection

Information Service and Guide  
to  
Theory, Operation, Design and Fabrication  
of  
Aircraft Electrical Systems

Published by: Bob Nuckolls  
AeroElectric Connection  
6936 Bainbridge Road  
Wichita, Kansas 67226-1008  
Phone/Fax: 316-685-8617  
Email: [nuckolls@aeroelectric.com](mailto:nuckolls@aeroelectric.com)  
Website: [www.aeroelectric.com](http://www.aeroelectric.com)



# Table of Contents

Chapter	Topic
1	D.C. Fundamentals
2	Batteries
3	Engine Driven Power Sources
4	Voltage Regulators
5	Grounding
6	Over Voltage Protection
7	Electrical System Instrumentation
8	Wire Selection and Installation
9	Wire Termination and Connectors
10	Circuit Protection
11	Switches, Relays and Contactors
12	Lighting and Lighting Controls
13	Antennas and Feedlines
14	Temperature Measurement
15	(reserved) Pressure Measurement
16	Electromagnetic Compatibility (Noise)
17	Electrical System Reliability
Appendix Z	Power Distribution Diagrams

## List of Effective Pages

As the 'Connection grows, new material will be added and old material will be updated. To assist in the revision process, any new materials will be accompanied by this page which replaces previous versions. This list describes the complete set of pages which make up the latest revision to the AeroElectric Connection. When revised pages are issued, the old pages they replace may be discarded.

Effective Pages for Revision 10	
Page Number(s)	Revision Date
<b>Cover</b>	<b>November 2001</b>
<b>i through ii</b>	<b>November 2001</b>
<b>1-1 through 1-13</b>	<b>November 2001</b>
2-1 through 2-12	August 1998
3-1 through 3-9	None (original issue)
4-1 through 4-9	None (original issue)
5-1 through 5-7	April 2000
6-1 through 6-8	None (original issue)
7-1 through 7-21	June 1992
8-1 through 8-16	None (original issue)
9-1 through 9-8	None (original issue)
10-1 through 10-5	April 2000
11-1 through 11-23	August 1998
12-1 through 12-18	None (original issue)
13-1 through 13-28	None (original issue)
14-1 through 14-25	None (original issue)
15-1/15-2	August 1998
16-1 through 16-16	July 1997
17-1 through 17-14	April 2000
<b>Z-1 through Z-22</b>	<b>November 2001</b>
<b>Items in bold type were generated or changed with Revision 10, November 2001</b>	