1 Theory And Practice

1.1 Troubleshooting

1.2 Questions to Ask Before Proceeding

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1.3 General Troubleshooting Tips

1.3.1 Prior Occurrence

1.3.2 Recent Alterations

1.3.3 Function vs. Non-Function

1.3.4 Hypothesize

1.4 Specific Troubleshooting Techniques

1.4.1 Swap Identical Components

1.4.2 Remove Parallel Components

1.4.3 Divide System into Sections and Test Those Sections

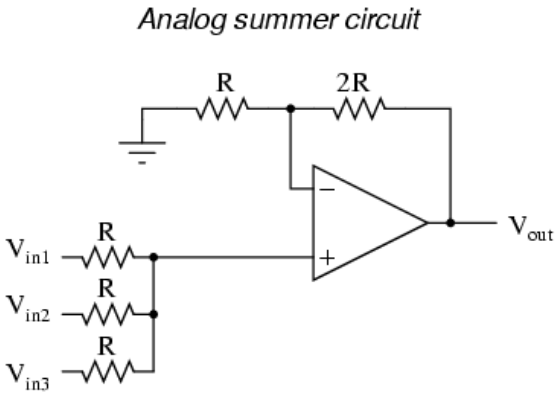

Figure 1.1 Schematic
Analog Summer Circuit

1.4.4 Simplify And Rebuild

1.4.5 Trap a Signal

1.5 Likely Failures in Proven Systems

1.5.1 Operator Error

1.5.2 Bad Wire Connections

1.5.3 Power Supply Problems

1.5.4 Active Components

1.5.5 Passive Components

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1.6 Likely Failures in Unproven Systems

1.6.1 Wiring Problems

1.6.2 Power Supply Problems

1.6.3 Defective Components

1.6.4 Improper System Configuration

1.6.5 Design Error

1.7 Potential Pitfalls

1.8 Contributors