



# Automotive Wiring and Electrical Systems (Workbench Series)

By Tony Candela

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**Automotive Wiring and Electrical Systems (Workbench Series) By Tony Candela**

Often, wiring and electrical work intimidate automotive do-it-yourselfers more than anything else. It's not mechanical, and therefore, it's unfamiliar territory. Electrons are invisible, and to an untrained enthusiast they can do unpredictable things. Finally, here is an enthusiast's guide that takes the mysteries and misunderstandings out of automotive electrical design, modification, diagnostics, and repair.

*Automotive Wiring and Electrical Systems* is the perfect book to unshroud the mysteries of automotive electrics and electronic systems. The basics of electrical principles, including voltage, amperage, resistance, and Ohm's law, are revealed in clear and concise detail so the enthusiast understands what these mean in the construction and repair of automotive electrical circuits. All the tools and the proper equipment required for automotive electrical tasks are covered. In addition, this in-depth guide explains how to perform more complex tasks, such as adding new circuits, installing aftermarket electronics, repairing existing circuits, and troubleshooting. It also explains how to complete popular wiring projects, such as adding late-model electronic accessories and convenience items to earlier-model cars, installing relay systems, designing and assembling multi-function circuits and harnesses, and much more.

With this book in hand, you will be able to assemble, design, and build single- and multi-function circuits and harnesses, troubleshoot and repair existing circuits, and install aftermarket systems and electronics. *Automotive Wiring and Electrical Systems* is the perfect book for wiring a hot rod from scratch, modifying muscle car electrical circuits for cooling fans and/or power windows, or adding a big stereo and other conveniences to modern performance cars.

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### Editorial Review

#### Review

"We love picking up the latest automotive performance and repair book as much as the next car person, but *Automotive Wiring and Electrical Systems* just went to the top of our list of 'must have' books in your reference library." (*Modified Mustangs and Fords* 2009-09-01)

"We have read this book and feel it is a great addition to the workshop." (*Model A Times* 2009-08-01)

"With this book as your guide, assembling, designing, and troubleshooting electrical systems is no longer an intimidating task." (Jim Hinckley *Cars & Parts* 2009-12-01)

"A non-brand-specific reference book that's an ideal teaching text for those who've never worked on electrical systems before -- or those who want to improve their skills. All of the tools and the proper equipment required for automotive electrical tasks are covered." (Scott Ross *Corvette Fever* 2009-09-01)

Winner of the 2009 IAMA Bronze Medal in the Technical/How-To Category (*IAMA Bronze Medal Award Winner* 2009-12-15)

#### From the Back Cover

For many enthusiasts, automotive wiring and electrical work has been shrouded in mystery and misunderstanding. This book removes the cloak of mystery surrounding automotive electrics and electronic systems, so you can easily diagnose problems, make repairs, and complete electrical projects. In clear and concise detail, this book reveals the basics of electricity principles, including voltage, amperage, resistance, and Ohm's law, so the enthusiast understands how to analyze, repair, and construct all automotive electrical circuits. All the tools and proper equipment required for automotive electrical tasks are covered. In addition, this in-depth guide explains how to perform more complex tasks, such as adding new circuits, installing aftermarket electronics, repairing complex circuits, and troubleshooting. It also explains how to complete popular wiring projects, add stereo head units, electric windows, and a range of electronic accessories. *Automotive Wiring and Electrical Systems* is the perfect book for wiring a hot rod, modifying muscle car electrical circuits, or installing modern conveniences on performance cars. With this book in hand, you will be able to quickly and confidently perform a variety of electrical procedures.

#### About the Author

Tony Candela has been in the automotive aftermarket electronics industry for 20 years and has held positions in installation, sales, management, manufacturer's sales representation, and regional sales management. During his tenure, he has worked for two aftermarket electronics manufacturers, Clifford Electronics and Rockford Fosgate. Candela has created and given hundreds of seminars on the topics of installation, application, wiring, and basic automotive electronics, and is the author of CarTech's best-selling *Automotive Wiring and Electrical Systems*.

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