

How to Diagnose and Repair Automotive Electrical Systems (Motorbooks Workshop)

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In *How to Diagnose and Repair Automotive Electrical Systems*, author and ASE (Automotive Service Excellence) Certified Master Technician Tracy Martin explain the principles behind automotive electrical systems and describes how they work, with a focus on cars of collectible and classic eras. Now, readers no longer need fear that jumble of wires beneath the dash or hood of their vehicle.

Automotive electrical systems can seem a mystery, if not a black art, to the weekend mechanic and even to a number of experienced pros. From Ohm's Law and an explanation of 12-volt systems to specific electrical scenarios and more, Martin thoroughly dissects the automotive electrical system and explains the various tools needed for diagnoses and repairs, such as multimeters, voltmeters, timing lights, coil testers, lab scopes, and more. Also included:

- Storage batteries
- Charging and starting systems
- Ignition systems
- Fuel injection
- Reading wiring diagrams
- Troubleshooting

When it comes automotive electrics, readers need never fear being lost in the dark again. Whether you have a bad ground, an amp draw, or some other gremlin, *How to Diagnose and Repair Automotive Electrical Systems* is the best tool available for understanding and diagnosing electrical problems.

Tracy Martin (tracyamartin.com) is the author of five Motorbooks Workshop series books, including, *How To Use Automotive Diagnostic Scanners*, *How To Diagnose and Repair Automotive Electrical Systems*, *Motorcycle Electrical Systems Troubleshooting and Repair*, *How to Tune and Modify Motorcycle Engine Management Systems*, and *How to Troubleshoot, Repair and Modify Motorcycle Electrical Systems*. He also co-authored the Motorcycling Safety Foundation's *Guide to Motorcycling Excellence*.

Tracy is a regular contributor to several national magazines, including, *Motorcycle Consumer News*, *RoadBike*, *American Iron Dealer News*, and others. Tracy's automotive career began as a high-school auto shop teacher and he has been a consultant for Sun Electric, Nissan of North America, Snap-On Tools, and other automotive aftermarket companies. When he's not writing he teaches advanced motorcycle skills and plays the banjo.

Other Books

Popular Mechanics, *Popular Mechanics* inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

❓ ❓ ❓ ❓ ❓ . The old one goes into the small Dakota pickup, the new one into the vans and,

eventually , into cars. ... The 3.9 intake manifold has a water ' passage around the exhaust crossover passage to preheat it, hopefully pre- j venting exhaust ..."