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when it s time to wire your car whether it s a restoration project race car kit car trailer or street rod don t be intimidated wire it yourself jim horner shares his years of experience and cuts through the technical jargon to show you how learn about basic electrical theory how various electrical components work and drawing circuit diagrams includes tips on using electrical test equipment and troubleshooting electrical circuits choose the right components build your own wiring harness and install them by following the step by step instructions profusely illustrated with over 350 photos drawings and diagrams suppliers list included

part of the basic automotive series automotive electrical and electronic systems can be used in any introductory course in automotive electronics and electricity the text opens with up to date coverage of electricity magnetism and semi conductors topics that follow include starting systems lighting systems power accessories and the latest electronic systems including speed controls and new to this edition automotive micro computers also new to this text are ignition and passive restraint systems the accompanying shop manual provides detailed coverage of specific repairs and service techniques using step by step procedures the text and its correlated shop manual help prepare students for automotive service excellence ase certification it also provides end of chapter questions that use a format similar to the ase tests the contents of both volumes are based on the competencies and standards set by the national institute for automotive service excellence

the eight chek chart series books directly correlate to the ase testing areas for certified automotive mechanics the entire series is job oriented especially designed for students who intend to work in the automotive service profession a student will be able to use the knowledge gained from these books and from the instructor to get and keep a job in automotive repair or maintenance learning the material and techniques in these volumes is a giant leap toward a satisfying rewarding career

includes index

this textbook comprehensively covers automotive electricity and electronics beginning at the basic circuit level building up to computer control and digital storage oscilloscopes dsos this is the only text with complete coverage of dsos including explanations with what they are when to use them how to set them up and how to read them good and bad patterns are evaluated and illustrated with actual fluke dso patterns the repair and testing of starting charging and ignition systems are emphasized

3rd edition as a result of rapid technological developments the use of electronic equipment in vehicles has increased immensely this book covers a wide variety of electric electronic systems and components ranging from alternators and starting systems to safety systems theft deterrence and navigation systems automotive electrics and electronics provides comprehensive easy to understand descriptions as well as numerous charts drawings and illustrations this third edition features a new section on lighting technology and updated information on starter batteries alternators starting systems spark ignition engine management diesel engine management and electromagnetic compatibility contents include vehicle electrical system and circuit diagrams electromagnetic compatibility emc starter batteries traction batteries alternators starting systems lighting technology washing and cleaning systems theft deterrence systems comfort and convenience systems information systems occupant safety systems driving safety systems spark ignition engine management diesel engine management comprehensive reference that makes complex electronic issues easier to understand

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