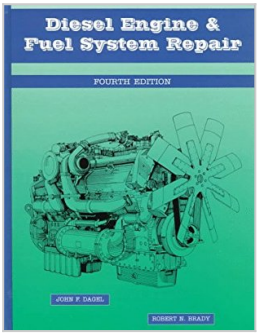

Diesel Engine and Fuel System Repair

By John F. Dagel, Robert N. Brady

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One of the only texts of its kind to devote chapters to the intricacies of electrical equipment in diesel engine and fuel system repair, this cutting-edge manual incorporates the latest in diesel engine technology, giving students a solid introduction to the technology, operation, and overhaul of heavy duty diesel engines and their respective fuel and electronics systems.

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Diesel Engine and Fuel System Repair By John F. Dagel, Robert N. Brady Bibliography

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Editorial Review

From the Back Cover
This cutting-edge manual incorporates the latest in diesel engine technology, giving readers a solid introduction to the technology, operation, and overhaul of heavy duty diesel engines and their respective fuel and electronics systems. Provides critical analyses on the operation, maintenance, service and repair of all types of fuel systems, clearly describing both mechanical and electronic fuel systems and governors. Presents a thoroughly updated chapter on electronic fuel injection, with detailed discussions on current operation, diagnostics, and troubleshooting of all major systems, such as Caterpillar, Cummins, Detroit Diesel, Mack, and Volvo. Analyzes electronic fuel injection and governors to meet diagnostics/ troubleshooting requirements, and integrates the latest technological information throughout. For automotive service technicians and engineers and diesel engine specialists. Also ideal for use in apprentice training programs and for journeyman upgrading courses.

About the Author

Robert N. (Bob) Brady has been involved in the automotive, heavy-duty truck/bus, and equipment field since 1959, having served a recognized indentured apprenticeship as both an automotive and heavy-duty truck/bus and equipment technician. He is a certified automotive, commercial transport, and heavy-duty equipment technician. A graduate of Stow College of Engineering, where he majored in the Thermodynamics of Heat Engines, he holds a degree in Mechanical Engineering Technology. He also holds a degree in Adult Education.

His experience includes positions as a shop foreman and service manager for a number of major heavy truck companies and OEMs, as well as a Fleet Maintenance Superintendent with a large North American truck fleet. Other experience includes positions as Manager of National Technical Training, Canada; Sales Application Engineer; Field Service Engineer for Detroit Diesel Corporation; Diesel Engineering and Diesel Mechanic /Technician college instructor; and Department Head of the program at Vancouver Community College, where he also served a two-year term as President of the Faculty Association.

He is a full member of SAE International (Society of Automotive Engineers), for which he has served as the chair of the British Columbia Section. Under his leadership in 1989-90, the section received an SAE Award of Merit for outstanding technical meetings. At the International level of SAE, he served three years on the worldwide Sections Board as Vice-Chair and then Chair. Other activities in SAE at the Sections Board level included chairing the Executive Committee, the Administrative Committee, the Brazil Ad Hoc Committee, and the International Sections and Affiliates Committee. He has also served as a member of the Sections Evaluation and Awards Committee. He served as a Regional Coordinator, where he worked with the B.C., Alberta, and Manitoba Sections in Canada, and was an acting RC for the NW /Spokane-Intermountain, Washington, and Oregon sections. He also served as a member of SAE's Total Quality Committee. He was elected to SAE's worldwide International Board of Directors, serving from 1994 through 1996, and was one of two SAE board of directors appointed to the Ad Hoc Committee that in March 1996 initiated the development and organization of the STS (Service Technicians Society), an affiliate of SAE International.

In 1987 he established his own company, HiTech Consulting Ltd., which specializes in technical training program design/implementation aimed specifically at heavy-duty, on- and off-highway equipment. He has delivered specialized training courses for engineers, service technicians, and maintenance personnel at a

number of companies and corporations. Other functions include fleet maintenance and failure analysis programs as well as equipment specing. He has appeared as an expert witness in a number of cases involving patent infringement and engine/ equipment failure.

He is the author of fourteen textbooks for Prentice Hall dealing with automotive fuel injection and electronics/computers, diesel, and heavy-duty trucks. A member of the TWNA (Truck Writers of North America), he writes monthly technical/maintenance articles for two of Canada's major newspaper/magazines: *Trucknews,* Canada's National Trucking Newspaper and Equipment Buyer's Guide, and *Grainews,* a national farmer's monthly newspaper distributed in both Canada and the United States, where his monthly articles deal with truck and equipment maintenance.

In the United States, a recently conducted detailed study of over a hundred highly skilled professions by the GAO (General Accounting Office) determined that the needed skill levels of both automotive and diesel technicians were on a par with X-ray technicians and computer programmers! To be successful, they projected that a minimum of a high school diploma with emphasis on math, science, physics, English, and computer literacy accompanied by a preferred one to two years of college training in their specific technical field be viewed as prerequisites.

The technological advancements in internal combustion engines and equipment, with their high degree of electronics controls, demand that tomorrow's technicians be vigilant to lifelong learning techniques and the continual absorption of new knowledge. In this, the fifth edition of *Diesel Engine and Fuel System Repair,* Prentice Hall and I have contacted a number of readers and instructors to review the suggested new material to solicit their views, thoughts, and ideas of what a revised textbook in this subject area should offer. It is never an easy task to incorporate all of the required preferences that individuals would like to see, due to the size and cost limitations of the finished product.

The major key elements and subject matter finally chosen were based upon the necessity to offer and comply with both the ASE (Automotive Service Excellence) and TQ (Trade Qualification) test areas. As a base, I have incorporated information that is relevant to ASE's medium/heavy truck and diesel engines testing areas. Consequently, detailed subject material not included in ASE testing areas such as mechanical diesel fuel injection and governor major overhaul, phasing, and calibrating was not deemed necessary, although we do describe the function, operation, and troubleshooting of these specific systems. The various fuel injection shops and technicians who are members of ADS (Association of Diesel Specialists), and who are tested and certified in this highly specialized area, are the best personnel to handle this type of repair.

Each chapter was reviewed, updated, and added to where appropriate to reflect the latest technology. A wide range of new illustrations and photographs in two-color format was chosen to accentuate the technical descriptions, and also to improve the visual interpretation aspects under discussion. The new material added highlights the latest technology currently in use by all of the major diesel engine OEMs worldwide, particularly the new designs of engine component parts, electronic fuel injection systems, and electronic governor controls. Several new chapters dealing with engine run-in and dyno testing, engine diagnosis and troubleshooting, and an excellent simplified chapter description/coverage of the basic theory, operation, and diagnosis of diesel electronic fuel injection systems will prepare the reader to successfully challenge those specific areas of ASE and/or TQ testing.

To support technician professionalism, ASE-type task lists, test specs content areas, and ASE-type review questions facilitate your study habits, and provide a structured guide for both technician trainees and technical instructors. Liberal use of suggested repair or replacement flowcharts throughout the book chapters

will promote decision making as to the most effective and efficient method to follow when conducting repairs. The incorporation of appropriate website addresses offers a library of additional knowledge quickly available to the reader and instructor to expand and support their study habits and to obtain specific repair instructions and diagnostic/troubleshooting tips and advice. Appropriate sidebars, technical tips, and diagnostic examples accompanied by frequently asked questions support and encourage the readers' understanding of the text under discussion.

No textbook of this type can truly reflect all of the wishes and needs of everyone within the diesel industry, but through the support, encouragement, and assistance I received from many of my colleagues, I trust that the finished product is reflective of their commitment to the highest standards of excellence, and that you, the reader, are pleased with the approach and material contained in this new edition. I wish you well in your pursuit of new knowledge, since your study of this book, coupled with hands-on tasks, will enhance your ability to understand, service, and diagnose the latest electronically controlled diesel engines, equipment, and systems. These skills will make you a valuable employee, and will provide you with a rewarding, challenging, and fulfilling career for many years to come. Many of you will become tomorrow's supervisors, shop foremen, lead-hands, service managers, fleet maintenance directors, business owners, OEM field service representatives, and service engineers. Take advantage of the material contained within this publication and whet your appetite for new knowledge by accessing in-house employer training programs, OEM training, local community college courses, and information/data readily available on the web. Exchange ideas and technical knowledge with your colleagues in broadening your skills library, and treat others with respect. Remember, we were all rookies at one time or another in our careers. The difference between a great technician and a good technician is one who is always open to new ideas and suggestions, and is willing to exchange thoughts, ideas, and tips with colleagues. A great technician is also hungry for knowledge and respects customers and their equipment concerns.

Finally, your thoughts, ideas, and constructive criticism about the material presented in this textbook is a valuable resource to me and other users. We gladly solicit and listen to your comments in attempting to improve the quality of the information and data that we deliver.

You can write to me through the publisher's address contained at the front of the book.

Thank you for your interest!

R. N. (Bob) Brady

Users Review

From reader reviews:

Maribel Davenport:

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