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# Audel Mechanical Trades Pocket Manual



## Synopsis

This tool needs no maintenance Fully revised and updated, this convenient guide covers the latest industrial equipment as well as all the tools and machines prevalent in older plants, even those from the early 1970s and before. Your complete reference tool \* Discusses machinery installation, welding, rigging, carpentry, basic electricity, and more \* Features a chapter on safety issues \* Covers belts, drives, transmissions, and bearings \* Examines automatic sprinkler systems \* Offers tips for preventive maintenance \* Includes coverage of piping and pipefitting \* Reviews shop mathematics, geometry, and trigonometry

## Book Information

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## Customer Reviews

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Thomas B. Davis (Newark, DE) is president of Maintenance Troubleshooting, a 25-year old technical trades book re-seller and consulting company. As a mechanical engineer, Tom provides

training in the preventive and predictive maintenance fields from the corporate boardroom to the maintenance break room on the shop floor. He has developed unique preventive maintenance products including a coupling alignment kit; a professional dynamic balancing kit, a hand-held balancing computer, and a vibration based tagging kit.

Keep this one in the tool box for fast references to many problems encountered by multi-craft maintenance men. This is great for training apprentices and helps those experienced mechanics by providing a handy pocket size reference book. IDEAL for company issue to craft trades.

I have been in the mechanical trades for forty years and this tome is in my tool truck. I still refer to it. A gift to my apprentice son. Gladly received. If you are not quite not sure, refer to this book and it will steer you in the right direction. All tool truck driving foremen in my company are issued this volume and required to keep it.

I have to agree with the other reviewers, this book is very handy, and easy to read. It covers quite a lot of ground for a pocket manual, which is great. There are fifty short chapters in the book, each focused on a different aspect of mechanical trades. Here's the table of contents from my copy of the book: 1. Safety. 2. The Basic Toolbox. 3. Power Tools-Portable. 4. Power Tools-Stationary. 5. Twist Drills. 6. Mechanical Drawing. 7. Electrical Drawing. 8. Isometric Drawing. 9. Single-Line Isometric Pipe Drawing. 10. Sketching. 11. Field Layout. 12. Machinery Installation. 13. Machine Assembly. 14. Use of the Torque Wrench. 15. Torque Specifications. 16. Measurement. 17. Plain Bearings. 18. Anti-Friction Bearings. 19. Life of Anti-Friction Bearings. 20. Installation of Anti-Friction Bearings. 21. Vibration Measurement. 22. Lubrication. 23. Mechanical Power Transmission. 24. Shafting. 25. Flat Belts. 26. V-Belts. 27. Positive-Drive Belts. 28. Chain Drives. 29. Gear Drives. 30. Shaft Couplings. 31. Screw Threads. 32. Mechanical Fasteners. 33. Gaskets, Packing, and Mechanical Seals. 34. Pumps. 35. Fans. 36. Basic Electricity. 37. AC Motors. 38. Preventive Maintenance of Equipment. 39. Structural Steel. 40. Welding. 41. Rigging. 42. Hand Signals for Cranes and Hoists. 43. Piping and Pipefitting. 44. Steam Traps. 45. Steam Piping. 46. Automatic Sprinkler Systems. 47. Carpentry. 48. Shop Mathematics. 49. Shop Geometry. 50. Shop Trigonometry.

I bought this book specifically for the section on mechanical seals, 8-9 years ago. I find myself referring to it in some way almost daily. This book has sections on... many things. Bearings, steel sizes, wire gauge... lots of useful things. It's clearly written, and in language that conveys the

concept while being informative. Interesting to leaf through, too -- there are obviously things I haven't had to work on yet, but it's good to know I have starting points, and this book is usually one I reach for in an unfamiliar application, too.

Fantastic gift for the machinist or engineer. Gives knowledge that is very useful to anyone who works in a job shop environment. Great book for engineers who may not know exactly how a machine shop works and will help with the development of drawings!

Packed with information I foresee this being a useful reference in my trade.

This is a handy book to keep in your tool box. It contains over 500 pages of useful information for the maintenance, machinist and electrician. It covers mechanical, electrical and isometric drawings, machine installation, torque specifications, different bearings, vibration, lubrication, belts, pumps, fans, electricity, AC motors, shop mathematics, geometry and trigonometry. None of the subjects are given in great detail, but limited to key information. But Audel has other pocket guides dedicated to specific trades that should come in handy for a certain craft.

I'm not the intended audience for such material, but having this as a general reference guide is helpful.

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