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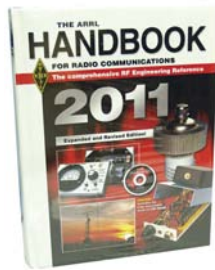
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ARRL Books

The ARRL 2011 Handbook for Radio Communications The Comprehensive RF Engineering Reference



Do-It-Yourself: Wireless Technology

The ARRL Handbook is part reference and part applied theory, filled with practical treatments of basic electronic fundamentals, RF design, digital and software radio technology, and antenna construction. It strikes the perfect balance between presentations of time-tested material and coverage of the expanding scope of Amateur Radio and the state-of-the-art.

For more than eight decades, The Handbook has empowered radio amateurs and professionals alike with its do-it-yourself approach, finding its way onto workbenches and operating desks, and into technical libraries and institutions.

New Topics:

- Schematic capture and Printed Circuit Board layout
- Amplifier tuning and maintenance, using surplus amp parts
- Restoring vintage equipment
- Remote station design

New Project Material:

- Microprocessor-based SWR Monitor-Meter by Larry Coyle, K1QW
- LTspice simulation files for basic electronic circuits
- Selecting the right battery for mobile operation

Expanded Content:

- New from Dr. Ulrich Rhode, N1UL: Oscillator and mixer circuit designs, HF mixer testing, VHF down-converter front end design, and RF circuit simulation
- 50% more on RF Interference, including digital TV, power-line noise, and automotive RFI
- Transmitting choke material consolidated for easy reference

CD-ROM Included! The CD-ROM at the back of the book includes all of the fully searchable text and illustrations in the printed book, as well as companion software, PC board templates and other support files.

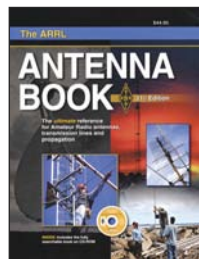
System Requirements: Windows® XP, Windows Vista® or Windows® 7, as well as Macintosh® systems, using Adobe® Acrobat® Reader® software. The Acrobat Reader is a free download at www.adobe.com. PDF files are Linux readable.

1416 Pages. 88th edition. © 2010, The American Radio Relay League, Inc.

Part #: TRAH11 • Price: \$49.95 Includes Book and CD-ROM.

The ARRL Antenna Book - 21st Edition

All the information you need to design your own complete antenna system.



Since the first edition in September 1939, radio amateurs and professional engineers have turned to The ARRL Antenna Book as THE source of current antenna theory and a wealth of practical how-to construction projects. Use this book to discover even the most basic antenna designs— wire and loop antennas, verticals, and Yagis—and for advanced antenna theory and applications. Many of the antennas in this edition benefit directly from advances in sophisticated computer modeling.

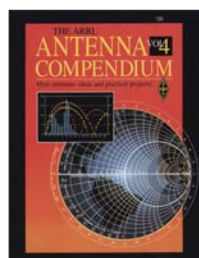
This 21st edition has been extensively revised to include information you can use to build highly optimized or specialized antennas. The book includes new content on Near Vertical Incidence Skywave (NVIS) techniques, phased arrays,

S-parameters as used in modern vector network analyzers (VNA), Beverage receiving antennas, mobile “screwdriver” antennas, ionospheric area-coverage maps, and much...much more. Fully searchable CD-ROM included!

Part #: AB21 • Price: \$44.95

Antenna Book on CD Part #: AB-CD • Price: \$34.95

Antenna Compendium - Volume 4



More antennas, ideas and practical projects!

Hams just love antennas...and they love to read about them, and write about them! This is the fourth in the popular ARRL Antenna Compendium series. You'll find 38 articles inside, covering a wide range of topics. There are simple, practical antenna projects, and there are heavy-duty, theoretical treatments of complex arrays. When the sunspots are low, head for the low-bands—seven articles are devoted to 80 and 160 meters, including some truly gargantuan arrays. Don't we hams love to dream about what rock-crushing low-band signals we'd have, if only we could get that new 200-foot tower? But what happens if we only have a 50-foot tower? There are articles for mobile work too. And, a section on

portable or temporary antennas that will get you thinking about Field Day in June, regardless of what time of year you read it.

Part #: ANTCOMP4 • Reg Price: \$20.00 • Special: \$18.95

Best of the New Ham Companion



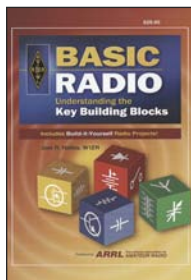
Selected QST articles on all aspects of ham radio from the beginners perspective.

Part #: NHC

Reg. Price: \$12.00 • Special: \$11.40

Basic Radio

Understanding the Key Building Blocks - by Joel Hallas, W1ZR



FINALLY - an introduction to radio FOR EVERYONE!

Basic Radio reveals the key building blocks of radio: receivers; transmitters; antennas; propagation and their applications to telecommunications; radionavigation; and radiolocation. This book includes simple, build-it-yourself projects to turn theory into practice, helping reinforce key subject matter. Basic Radio brings the magic of radio to life!

Basic Radio builds upon knowledge of elementary electronic concepts as presented in ARRL's Understanding Basic Electronics or a similar course. This book will provide the foundation in radio theory and practice necessary for anyone undertaking more advanced topics such as those presented in The ARRL Handbook for Radio Communications.

Part #: BR • Price: \$29.95



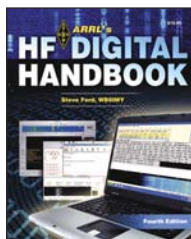
Experimental Methods in RF Design

EMRFD explores wide dynamic range, low distortion radio equipment, the use of direct conversion and phasing methods as a serious communications architecture, and a hands-on embracing of digital signal processing.

The amateur bands up to 2 meters are considered, and are illustrated with CW and SSB gear. The book uses some mathematics where appropriate. It is, however, kept at a basic level.

This work is successor to the widely popular Solid-State Design for the Radio Amateur, published in 1977. CD-ROM included with design software, listings for DSP firmware, and supplementary articles. 528 pages.

Part #: EMRFD • Regular Price: \$49.95 • Special: \$43.95



HF Digital Handbook - 4th Edition

— by Steve Ford, WB8IMY

ARRL's HF Digital Handbook is your guide to understanding the most active HF digital communication modes in use today.

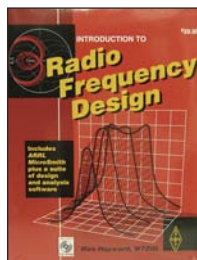
There is something here for every radio operator—beginners and more advanced operators alike. And, as this technology rapidly advances, your increased understanding of digital communication techniques will make certain that you stay in the race as new modes and methods unfold.

This fourth edition book includes expanded station setup information, discussion of PSKMail and other varieties of PSK,

new content on Olivia, DominoEX, HF digital voice and image modes, and Automatic Link Establishment. Just getting started? All it takes is your sound-card-equipped computer and your HF transceiver. ARRL's HF Digital Handbook will guide you through the rest!

Part #: HFDIGIT • Price: \$19.95

ARRL Books



Introduction to Radio Frequency Design

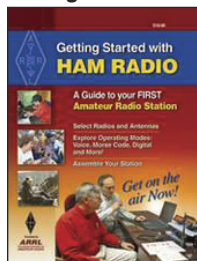
A thorough treatment of the fundamental methods of radio frequency design using mathematics as needed to develop intuition for RF circuits and systems.

You'll find emphasis on applications of simple circuit models whenever possible. Prepares readers to actually design HF, VHF and UHF equipment. Book includes a CD-ROM with ARRL MicroSmith Smith® Chart simulation software, and a suite of design and analysis software.

• Wes Hayward, W7ZOI • 400 pages, 1.5 lbs.

Part #: ITRFD • Price: \$39.95

Getting Started with Ham Radio



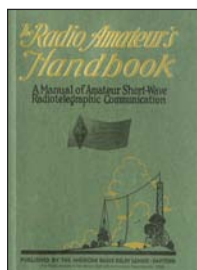
Get on the air now! A guide to your first Amateur Radio station.

Your First Radio. Advice on choosing a transceiver and power supply that fits your budget and operating style. The Antenna—The Most Important Part of Your Station. Practical information to help you choose and install economical, yet effective, antennas. Propagation—The Science of How Signals Travel. Get the most from your station by understanding how HF and VHF signals travel. Using Your Voice on the HF Bands. Advice on making your first voice contacts. Code Conversations. Advice on using Morse code on the air. The Digital Universe. How to set up a station for digital operating. Chasing Contacts and Wallpaper (awards). Enjoying the sport of on-the-air contesting. Also, earning awards such as DXCC, WAS and more. FM: "No Static at All." How to operate FM on the VHF and UHF bands (including repeaters). "Weak" Signals and the World Above 50 MHz. Operating SSB, CW and digital modes above 50 MHz.

Part #: GSWHR • Price: \$19.95

The Radio Amateur's Handbook

Eighthieth anniversary reproduction of the original Radio Handbook from 1926



This is a copy of the First Edition and includes:

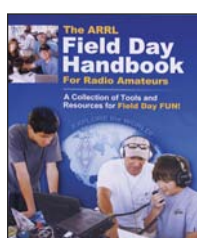
1. Getting Started
2. Fundamentals
3. Building a Station
4. Operating
5. Experimenter
6. Original ads from that time period

Part #: TRAH-RED

Price: \$6.95

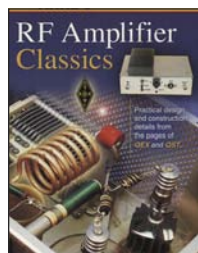
The ARRL Field Day Handbook for Radio Amateurs

Get active, get outdoors and get on-the-air!



ARRL Field Day is the largest on-the-air operating event in Amateur Radio. It draws tens of thousands of radio amateurs to the airwaves each year, bringing new and experienced ham radio operators together. By setting up in parking lots, parks, malls, emergency centers, and at home, hams develop skills to better serve the Amateur Radio Service and their communities. This book features content from QST magazine and other ARRL publications, and includes everything you need to participate in this annual event: rules, log sheets, band charts, antenna projects and more. Use these tips and references to gear up for ARRL Field Day and join in the fun!

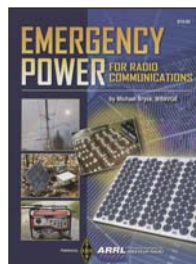
Part #: FDH • Reg. Price: 19.95



RF Amplifier Classics

Practical design & construction from the pages of QEX and NCJ. Planning to build an amplifier compares well to the work of a cook searching for a recipe and all the ingredients. Find the right design, and then locate the parts and components to begin building.

Part #: RFAC • Price: \$19.95



Emergency Power for Radio Communications

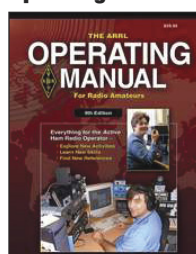
When all else fails... how will you communicate?

With Emergency Power for Radio Communications, you will explore the various means of electric power generation—from charging batteries, to keeping the lights on.

This book covers the foundation of any communications installation—the power source. Use this book to plan ways to stay on the air when weather or other reasons cause a short-term or long-term power outage. Find ways to reach beyond the commercial power grid. Identify methods for alternative power generation that will work best in your particular situation, perhaps taking advantage of possibilities already on hand.

Part #: EP • Price: \$19.95

Operating Manual for Radio Amateurs – 9th Edition



The ARRL Operating Manual for Radio Amateurs is the most complete book about Amateur Radio operating. It was written to help guide you through the dozens of ways hams communicate, and contains information that every ham needs:

Beginners – explore the broad range of ham radio activities, practices and events.

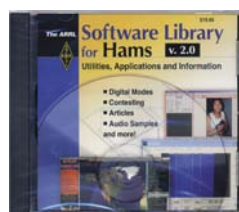
Intermediate hams – sharpen your skills, earn awards and participate in contests.

Experienced hams – find frequently needed references, details on new technology, and new ways to enjoy your favorite activities.

Part #: OM • Price: \$29.95

Software Library for Hams CD-ROM, Version 2.0

Quick access to utilities, applications and information:

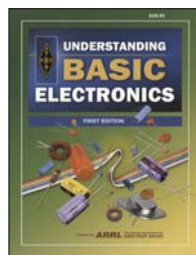


- Book excerpts and articles from QST magazine
- Contesting software, including N1MM Logger
- Jason low-frequency digital software
- Weather Satellite software
- WinDRM digital voice software
- HF digital software for PSK31, MFSK16, MT63, Slow-Scan TV, Digital SSTV, RTTY and more
- WSJT software for meteor scatter and moonbounce

You'll also find programs for APRS, Winlink 2000, packet radio and satellite tracking. Plus, handy software tools for

calculating transmission line loss, creating custom DSP audio filters, and more. Minimum System Requirements: A 400 MHz Pentium PC with 256 MBytes of RAM and Microsoft® Windows® XP or Windows 2000.

Part #: SLH-CD • Price: \$19.95

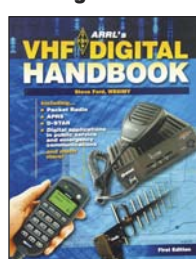


Understanding Basic Electronics

Written in an easy to understand style for electronic beginners; as well as those who want to brush up on electronics principles. Starting with math skills, the book progresses to dc and ac electronics principles. It concludes with clear, simple explanations of how components like diodes, transistors & integrated circuits work. Perfect for students, hams & everyone with an interest in the electronics side of ham radio.

Part #: UBE • Price: \$29.95

VHF Digital Handbook – by Steve Ford, WB8IMY



Today's Amateur Radio operators are using digital radio applications for fun, technical achievement, and public service. And it's no wonder. Getting started often requires little more than a VHF radio and a computer.

Without complicated "owners manual" jargon—ARRL's VHF Digital Handbook presents the material through a unique how-to approach and friendly, conversational style. Readers will understand how to setup and operate their equipment and software, and make the best use of their VHF digital station.

Part #: VHFDIG • Price: \$19.95

Technical Books



ON SEMICONDUCTOR™ MECL Data

Technical data for a broad line of MECL integrated circuits.

- DL122/D, Rev. 7, 471 pgs.

Part #: MECL • Price: \$5.95



ON SEMICONDUCTOR™ Power MOSFETs

Power MOSFETs data sheets, application notes, case outlines and package dimensions.

- DL135/D, Rev. 7, 1420 pgs.

Part #: TMOS • Price: \$9.00

- Rev. 6

Part #: TMOS-6 • Special: \$6.95

Limited Supply



RADIO FREQUENCY TRANSISTORS

Principles and Practical Applications

Written by experienced RF design engineers from Motorola's Semiconductors Product Section, this book is devoted to specific designs of circuits such as amplifiers, oscillators, switches, pulsed power, state-of-the-art devices, and design techniques. Includes coverage of various modulation methods, i.e. FM and SSB.

- 235 pages, 1.5 lbs.
- Norm Dye and Heldge Granberg

Part #: RFT2 • List Price: \$68.95 • RFP Special: \$59.95

EXTENDING TRANSMITTER TUBE LIFE

A Carefully followed program of filament voltage management can substantially increase the life expectancy of AM/FM Broadcast transmitter power grid tubes.

Reprint of CPI/Eimac Application Bulletin #AB-18.

Part #: E TTL • Price: \$1.00

Tube Books



G.E. Tubes - Essential Characteristics

A comprehensive listing of modern vacuum tubes including receiving and "sweep" tubes.

- 14th edition
- 473 pages
- 1 lb.

Part #: GETUBE • Price: \$13.95



Extending Transmitter Tube Life

Eimac Application Bulletin Number 18.

Part #: EAB18 • Price: \$1.00



RCA Receiving Tube Manual RC-30

Technical Series RF-30. A high quality reprint of the 1973 RCA Receiving Tube Manual (Technical Series RC-30).

Includes tubes not found in RC-19. For example: 6CA6/EL34, 7591 and the 7868 to name a few. Also includes picture tubes and industrial receiving tubes.

- 755 pages • 2 lbs.

Part #:RC30 • Price: \$24.95

Hobby Books



TEXAS STAR SERVICE MANUAL

Service Manual for Amp Series MOD-V, MOD-P, DX250, DX250HDV, DX350HDV, DX400, DX400V, DX500, DX500V, DX667, DX667V, DX1200 and DX1600.

Full circuit board component layouts, with detailed schematics for CW transmitter to amplifier conversions.

- 50 pages

Part #: TEXAS1 • Price: \$24.95



CB Tune Up Manual

Volume 2 — Information on popular transceivers.

Part #: CBTUP2 • Sale Price: \$19.95

Volume 3 — More of the same.

Part #: CBTUP3 • Sale Price: \$19.95

Volume 5 — Latest equipment and new ideas.

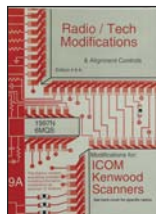
Part #: CBTUP5 • Sale Price: \$19.95

Volume 6 — More of the same.

Part #: CBTUP6 • Sale Price: \$19.95

Volume 7 — The latest information.

Part #: CBTUP7 • Sale Price: \$19.95



Radio / Tech Modifications

- 200+ pages, 1 lb.
- Modifications, alignments, diagrams, etc.

Volume 9A — Kenwood, ICOM, Scanners, etc.

- By William V. R. Smith • Paperback, 224 pages
- Published by Artsci (1997) • 1.2 lbs.

Part #: RTM9A • Sale Price: \$14.95

Volume 14A — Kenwood, ICOM, Scanners, etc.

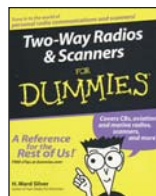
- By William V. R. Smith • Paperback, 200+ pages • Published by Artsci

Part #: RTM14A • Price: \$19.95

Volume 14B — Yaesu, Alinco, Standard, etc. .

- By William V. R. Smith • Paperback, 200+ pages • Published by Artsci (2002)

Part #: RTM14B • Price: \$19.95

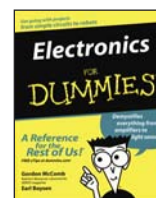


Electronics for Dummies

by Gordon McComb, Earl Boysen

- Fundamental concepts such as circuits, schematics, voltage, safety, and more
- Tools of the trade, including multimeters, oscilloscopes, logic probes, and more
- Common electronic components (e.g. resistors, capacitors, transistors)
- Making circuits using breadboards and printed circuit boards
- Microcontrollers (implementation and programming)

Part #: EFD • Sale Price: \$21.99

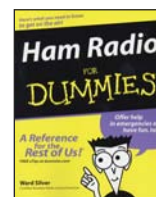


Ham Radio for Dummies

by Ward Silver, NOAX

You can be a lifesaver while you make new friends. Find out about ham radio and join the fun! Hams do cool things like talking to folks around the world and helping with communications during emergencies. Here's the scoop, including licensing requirements and how to set up a station. And if you're already licensed, this book will help you start sounding (and feeling) like a pro!

Part #: HRFD • Sale Price: \$21.99



Two-Way Radios & Scanners for Dummies

by H. Ward Silver, NOAX

Discover how to:

- Choose and operate different types of radios
- Get a license if you need one
- Use the appropriate radio jargon
- Communicate in emergencies
- Program a scanner
- Tune in signals from public service action to sporting events
- Install radios safely and effectively

Part #: TWRFD • Sale Price: \$21.99

Service & Owners Manuals

ALPHA 76A, PA & CA

Service/Owners Manual
 • 2 KW Linear Amplifier, two & three 3CX400A7 tubes.
 • Copy of original manual.
Part #: SMA76 • \$8.00

ATLAS 210X/215X

Service/Owners Manual
 • Schematics, voltage readings, operation, etc.
Part #: SMA210X • \$15.00

ATLAS TX-110

Installation and Operation Manual
Part #: SMATX110 • \$6.50

CLEAR CHANNEL

AR RANGER 3300/3500 Service Manual
 • Ranger 10M Transceiver.
Part #: SMAR • \$10.00

CYBERNET

Service Manual
 • For "Export" Radios
Part #: SMCVEX • \$15.00

DENTRON CLIPPERTON L

Operating Manual
 • Copy of original manual.
Part #: DCL • \$8.00

DENTRON

DTR-2000L LINEAR
 • Conservatively rated 2 KW PEP. 160-15 meter (modifiable to 10m). Uses 8877/3CX1500A7 tube.
 • Copy of original manual.
Part #: SMD20 • \$7.00

DENTRON 160-10L

Service/Owners Manual
 • Uses four 572B tubes.
 • Copy of original manual.
Part #: SMD160 • \$7.00

DENTRON MLA1200

Service/Owners Manual
 • Uses one 8875 tube.
 • Copy of original manual.
Part #: SMD12 • \$12.00

DENTRON MLA2500

Service/Owners Manual
 • Uses two 8875 tubes.
 • Copy of original manual.
Part #: SMD25 • \$25.00

GALAXY

Service Manual
 • Second Edition.
 • See our website for a list of included models.
Part #: GSMCBC • \$20.00

GONSET

GSB201 Linear Service/Owners Manual
 • Uses four 811A tubes.
 • Copy of original manual.
Part #: SMHGSB • \$6.00

HAFSTROM LK-2000HD

Instruction Manual
 • Linear Amplifier and DL-2000 Dummy Load.
 • Copy of original manual.
Part #: SMHLK2000 • \$5.00

HALLICRAFTERS

HT-41 Linear Service/Owners Manual
 • Uses two 7094 tubes.
 • Copy of original manual.
Part #: SMHT41 • \$7.00

HAMMERLUND

HXL-ONE Linear Service/Owners Manual
 • Uses two 572B tubes.
 • Copy of original manual.
Part #: SMHXL1 • \$9.00

HEATHKIT

AC Power Supply HP-23A Assembly & Operating Manual
 • Copy of original manual.
Part #: AMHP23A • \$4.50

HEATHKIT

Linear Amplifier SB-200 Assembly & Operating Manual
 • Uses two 572B tubes.
 • Copy of original manual.
Part #: AMSB200 • \$12.00

HICKOK

MODEL 600 Tube Tester Operating Instructions
 • Copy of original manual.
Part #: SMH600 • \$7.50

MAGNUS

MA1000B Linear Service/Owners Manual
 • KW Mobile Amp. Includes schematics, parts list, etc. Uses 8 power transistors.
 • Copy of original manual.
Part #: SMMA • Price: \$16.00

NATIONAL NCL 2000

Service/Operating Manual
 • Two 8122 tubes. 1000 watt average, 2000 watt PEP input, 80-10M.
 • Copy of original manual.
Part #: NCL2000 • \$9.95

PALOMAR 90A

Service Manual
 • Schematics, voltages, operation, parts list, pictures.
 • Copy of original manual.
Part #: SMP90A • \$5.00

PALOMAR 350Z Manual

• Schematics, voltages, operation, parts list, pictures.
Part #: SMP350Z • \$15.00

PRIDE DX300

Service Manual
 • All schematics, tuneup, parts list, etc. Uses 4CX250B.
 • Copy of original manual.
Part #: SMDX300 • \$12.95

PRIDE KW-1

Service Manual
 • All schematics, tuneup, parts list, etc. Uses 4CX250B.
 • Copy of original manual.
Part #: SMPKW1 • \$12.95

PRIDE TF1000 Counter

Service/Owners Manual
 • Schematics, basic repair info.
 • Copy of original manual.
Part #: SMTF1000 • \$6.50

RAYTHEON RAY-1000

Owners Manual
 • For 1000W output HF Amplifier
 • 4CX1500B.
 • Schematics, parts lists, etc.
Part #: RAY1000 • \$7.95

RCI-2950/2970

Service Manual
 • Revision F
 • 10M Transceiver, includes new "SMT".
Part #: SMRC129 Reg. \$40.00 • Sale: \$35.00

RCI-2950DX/2970DX

Service Manual
 • 10M/12M Transceiver.
Part #: SMRC129DX • \$10.00

RCI-5000/7000/9000

Service Manual
 • VHF Marine H.T. Transceiver.
Part #: SMRC320 Reg. \$25.00 • Sale: \$21.95

RCI-5500/6500/8500

Service Manual
 • VHF Marine Transceiver.
Part #: SMRC155 • \$17.75

SILTRONIX Model 1011B

Installation, Operation & Maintenance Manual
 • Copy of original manual.
Part #: SIL1011B • \$10.00

SILTRONIX Model 1011C

Installation, Operation & Maintenance Manual
 • Copy of original manual.
Part #: SIL1011C • \$10.00

SWAN CYGNET 270

Service/Owners Manual
 • Copy of original manual.
Part #: SMS270 • \$12.50

SWAN CYGNET 270B

Service/Owners Manual
 • Copy of original manual.
Part #: SMS270B • \$12.50

SWAN Model 350

Service/Owners Manual
 • Copy of original manual.
Part #: SMS350 • \$15.00

SWAN Model 350C

Service/Owners Manual
 • Copy of original manual.
Part #: SMS350C • \$15.00

SWAN Model 500C

Service/Owners Manual
 • Copy of original manual.
Part #: SMS500C • \$15.00

SWAN Model 700-CX

Operation & Maintenance Manual
 • Copy of original manual.
Part #: SMS700CX • \$10.00

SWAN 1200-X LINEAR

Service/Owners Manual
 • Uses four 8950 tubes.
 • Copy of original manual.
Part #: SMS1200 • \$7.50

SWAN MARK II

Linear Amplifier Operation & Maintenance Manual
 • 2 KW Input 80 through 10 meters. Uses two 3-500Z tubes. Complete with schematics.
 • Copy of original manual.
Part #: SMSMKII • \$7.00

TEXAS STAR

Service Manual
For Amp Series: MOD-V, MOD-P, DX250, DX250HDV, DX350HDV, DX400, DX400V, DX500, DX500V, DX667, DX667V, DX1200 and DX1600.
Part #: TEXAS1 • \$24.95

UNIDEN HR-2510

Service Manual
 • 10M Transceiver.
Part #: SMHR25 • \$17.50

UNIDEN

HR-2510 & HTX100
 • High Power modification using MRF497. Reprint from "73 Magazine".
Part #: HR2510MOD Price: FREE with order

UNIDEN HR-2600

Service Manual
 • 10M Transceiver.
Part #: SMHR26 • \$17.50