

# ARRL Periodicals Archive – Search Results A membership benefit of ARRL and the ARRL Technical Information Service

**ARRL Members:** You may print a copy for personal use. Any other use of the information requires permission (see Copyright/Reprint Notice below).

Need a higher quality reprint or scan? Some of the scans contained within the periodical archive were produced with older imaging technology. If you require a higher quality reprint or scan, please contact the ARRL Technical Information Service for assistance. Photocopies are \$3 for ARRL members, \$5 for nonmembers. For members, TIS can send the photocopies immediately and include an invoice. Nonmembers must prepay. Details are available at www.arrl.org/tis or email photocopy@arrl.org.

**QST on CD-ROM**: Annual CD-ROMs are available for recent publication years. For details and ordering information, visit www.arrl.org/qst.

**Non-Members:** Get access to the ARRL Periodicals Archive when you join ARRL today at www.arrl.org/join. For a complete list of membership benefits, visit www.arrl.org/benefits.

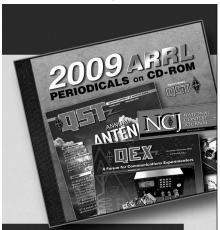
### Copyright/Reprint Notice

In general, all ARRL content is copyrighted. ARRL articles, pages, or documents-printed and online--are not in the public domain. Therefore, they may not be freely distributed or copied. Additionally, no part of this document may be copied, sold to third parties, or otherwise commercially exploited without the explicit prior written consent of ARRL. You cannot post this document to a Web site or otherwise distribute it to others through any electronic medium.

For permission to quote or reprint material from ARRL, send a request including the issue date, a description of the material requested, and a description of where you intend to use the reprinted material to the ARRL Editorial & Production Department: permission@arrl.org.

QST Issue: Nov 2000 Title: The Hallicrafters S-1 Author: John H. Dilks III, K2TQN

Click Here to Report a Problem with this File



## 2009 ARRL Periodicals on CD-ROM

ARRL's popular journals are available on a compact, fully-searchable CD-ROM. Every word and photo published throughout 2009 is included!

- QST The official membership journal of ARRL
- NCJ National Contest Journal
- QEX Forum for Communications Experimenters

SEARCH the full text of every article by entering titles, call signs, names—almost any word. SEE every word, photo (including color images), drawing and table in technical and general-interest features, columns and product reviews, plus all advertisements. PRINT what you see, or copy it into other applications.

System Requirements: Microsoft Windows™ and Macintosh systems, using the industry standard Adobe® Acrobat® Reader® software. The Acrobat Reader is a free download at www.adobe.com.

# 2009 ARRL Periodicals on CD-ROM

ARRL Order No. 1486 **Only \$24.95**\*

\*plus shipping and handling

Additional sets available:

2008 Ed., ARRL Order No. 9406, \$24.95 2007 Ed., ARRL Order No. 1204, \$19.95 2006 Ed., ARRL Order No. 9841, \$19.95 2005 Ed., ARRL Order No. 9574, \$19.95 2004 Ed., ARRL Order No. 9396, \$19.95 2003 Ed., ARRL Order No. 9124, \$19.95 2002 Ed., ARRL Order No. 8802, \$19.95 2001 Ed., ARRL Order No. 8632, \$19.95



# OLD RADIO

### The Hallicrafters S-1

One of the best known and respected names in ham radio is Hallicrafters. Founded in 1932 by William J. Halligan, the company name was chosen as a composite of the two words: "Halligan" and "handcrafted." "Handcraft Makes Perfect" was the first logo of his enterprise.

In 1933 Halligan acquired the use of the bankrupt Silver-Marshall company's name, factory, and most important, the use of their RCA license. With the help of Kendall Clough, former engineer from Silver-Marshall, they designed the first of a new line of ham radio receivers. First announced in the April 1934 issue of Radio News, the "S-1 Skyrider" sold for \$39.95, about the same price as popular kit radios. A few were built in small production runs of 50 or 100 sets. Each one was handcrafted and signed by the assembler.

To become a successful manufacturer in the Depression, cost had to be kept to a minimum. The 4-tube circuit was a tried and well-tested design. It had one stage of tuned RF (using a 6D6), a regenerative detector (another 6D6) and two stages of resistive-coupled audio (a 6C6 followed by a 42 in the output). The set was built in a small cabinet complete with a speaker and a built-in ac power supply using an 80 tube.

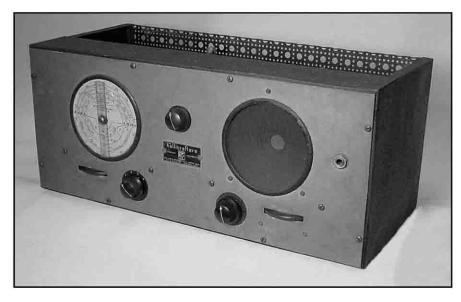
The S-1 introduced several innovations into ham radio receivers. Most receivers up until then had plug-in coils. Alternatively, the S-1 offered band switching. Four positions covered from 1.6 to 22 MHz.

Micro-vernier, anti-backlash tuning was introduced with a reduction ratio of 18:1. Tuning was accomplished by turning the lower left horizontal tuning knob with your left thumb, the rest of your hand wrapped around the left side of the cabinet. It is a comfortable tuning position for a righthanded person. This allowed the other hand to be used for adjusting the dual controls for RF sensitivity and audio gain.

The antenna input circuitry was designed for use with standard antennas, or to utilize the advantages of "doublet" antennas. An additional ground wire was provided for easy attachment.

Because so few S-1s were built, not many survive today. I'm happy to tell you that my Old Radio Museum will have the S-1 on display starting late this fall. For more information, you can read a radio magazine

05T-



engineering report on the S-1, see additional photos and some early Hallicrafters S-1 advertising on my Web site: http:// www.eht.com/oldradio/arrl/index.html.

The S-1 model was quickly followed by the S-2, which added a bandspread control and a send-receive switch to the front panel. The S-1 through S-6, made in small quantities, took Hallicrafters into 1935. By late 1935, they started producing communications receivers with the name "Hallicrafters" in their new factory. The 1935-36 SX-9 "Super Skyrider" was the first model to be produced in significant quantities. By 1938, Hallicrafters had produced 23 different models.

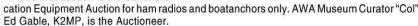
My thanks to Chuck Dachis, author of Radios by Hallicrafters, for his personal help with the history of this radio and the Hallicrafters company.—K2TQN

#### **Old Radio Auction**

Every so often, you hear about radio auctions. This is a short report on

I just returned from the annual Antique Wireless Association meet near Rochester, New York. It is held every year around Labor Day. You will always find a large 3-day flea market, interesting radio presentations, an old equipment contest, seminars and two auctions there.

The first auction is the Communi-



Radios and their selling prices in the accompanying, are from left: an RCA ACR-136 went for \$70; the National NC-57 with the slant base and meter went for \$22 and the Howard 663 went for \$47. That's Ed taking the bids in the accompanying photo.

The second auction is the main auction, held in three parts. First, there is a vacuum tube auction, then a paper collectables auction, and last, the general auction. Here you will find rare and expensive items, as well as early ham radio gear.

If you are interested in the results, check my Web page.

