

Sources of Boatanchor Manuals, Parts & Equipment to July, 1996

This represents about 18 months worth of posts on the Boatanchors mailing list regarding sources for BA manuals, parts, information, etc.

This compilation is not complete. Some posts undoubtedly got lost in the great Internet Black Hole and never reached me. Some I just left out. Many initial posts are deleted, because their questions are contained in the reply posts. The order is somewhat erratic and there is still some duplication.

Signature blocks have been deleted, unless they contained an e-mail address. Many folks don't include an e-mail address in their signature block, so remain somewhat anonymous! All headers have been deleted. Sometimes the date of the post has been added to the Subject: heading. (I changed my mind about including the date somewhere along the way!) The spelling has been cleaned up a bit, only so that I can use a search program without missing stuff because of odd spellings. A bit of editing has been done on some posts to shorten them. All errors and omissions are either the work of the original poster, or myself!

Inclusion in this compilation is NOT an endorsement in any way, shape or form! Caveat emptor!

This kind of information changes frequently. If you find things you know are wrong, please e-mail me at dma@IslandNet.com, and I'll update.

Subject: .206 jack source

>This sounds like the standard aviation microphone jack. They are
>three-wire, a little smaller than the usual quarter inch. Check with
>your local avionics shop.

Hmm, happen to have a aero parts catalog here at my desk, in fact. Here it is... Mike, 3-circuit, catalog #C-316-001, price \$4.99 in this catalog (exp. 8/11) Wag-Aero, Lyons, WI, 1(800)558-6868 or (414)763-9586

Hope that helps, 73, steve cornelius, aa7xv

Subject: 1.5 & 45 Volt Battery source

Thought you'all might like to know that Newark lists Eveready 1.5 Volt Lantern/Hobby (#735 = \$7.42) and 45 volt (#'s 415 [\$10.50] & 455 [\$17.16]) Electronic batteries. The 45 volt units are a different size than the stock BC-906 45 Volt dry cell. (2 1/2 x 1 x 3 3/4) but may fit...

Subject: 110 VDC PTT Relays 9 Feb 1996

Ok, you Johnson addicts, you want a new relay to add PTT to your Ranger or whatever? Here is your solution.

H&R, aka Herbach and Rademan, have P&B KA style open frame, 3PDT, single hole 6-32 screw mount relays for..... \$1.95, yes, \$1.95 each.

I bought five of them a few months ago, and they are new and unused. I put one of them in a Ranger, and it works great.

They carry KH, KUP, and KRP type relays also, plus lots of other stuff. H&R buys up surplus electronics and resells it. There are always good buys in their catalogs. Goodies like power transformers, resistors, etc.

What is their phone number, you say? 1-800-848-8001 They do have a minimum order of \$25, with a \$5 service fee for orders of less than \$25 merchandise total, so you might want to just call them and ask for a catalog first, so you can get your order up to \$25.

Jack, WB8BFS jackg@xetron.com

Subject: 1995 Allied electronics catalog

Well just got my mail, & shaZam my new 1995 catalog was there. 1,168 pages between the covers. and FREE too. If you want one the 800 number is: 800-433-5700 ask for catalog 956 they're free & so's the call OOPPS, forgot, they are now on the Internet, address as follows:

<http://www.allied.avnet.com>

robert

Subject: 3RP1 CRTs? 14 Feb 1996

>All this talk of CRTs has caused me to wonder about a good, low cost source for CRTs. 3RP1s in

>particular. Any ideas?

Try Video Display Corp. VDC - 800-241-5005 I've purchased a lot of CRT's there.

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

Subject: 6L6Gs

You can try TYPETRONICS its listed as \$ 9.00 @. I have ordered few time and has good prices. Hope this helps.

Charlie N9SOR
TYPETRONICS
FRED G SCHMIDT N4TT
P.O. BOX 8873
FT. LAUDERDALE, FL 33310
PHONE 305-583-1340 FAX 305-791-8337

Subject: Advice wtd stick p.i cores

My experience has been that unsticking these beasts is just about impossible...the slug usually fragments before it breaks loose. I have tried WD-40, acetone, alcohol, heat, cold, and voodoo...no joy. I usually send the sick puppy (along with the relevant portion of the schematic) to Jim Benedict at Lucas Transformer (616.229.4318) and let him work his magic. He's remanufactured three such coils for me and all have worked flawlessly.

73 de Walt

Subject: Air Force find-a-cable service

This past weekend I obtained a potentially useful military directory, known as...

SL-5995 Stock List, Cable, Cord, and Wire Assemblies

Communications Equipment

This rather thick book lists probably every bit of wire the Air Force used for radios up to 1959, the last revision date. The descriptions of the cables are quite detailed. In fact, one could construct replacement cables identical to the originals - wires, connectors, colors, lengths, diameters, finishes, materials, etc..

If anyone is trying to complete an old Air Force radio setup and they need a description of a cable, or has a military cable with a Federal Stock Number starting with 5995 (like 5995-123-4567) and would like it identified, let me know, and I will see if the book has the specs.

The directory does not only have aircraft radios of 1950's vintage. A quick look (lets face it, this thing is not good reading) revealed quite a few ground sets, as well as some much older sets still on the books, such as the first generation command set, the SCR-183. It also has some countermeasures (jamming!) sets, as well as a few test sets.

Truly a book only a hard-core military Boatanchor collector could love.

William Donzelli integrat@usr.com

Subject: Air wound coil stock 6 Apr 1996

H&R Company still carry air wound coil stock of various sizes and turns per inch. I ordered some myself awhile back. They have a catalog with all kind of goodies for the builder and experimenter. They have a \$25.00 minimum order or they charge a \$5.00 processing fee if the order is less than \$25.00. The info follows:

Herbach & Rademan
18 Canal Street
P. O. Box 122
Bristol, PA 19007-0122
Phone 215-788-5583 1-800-848-8001 Orders Only FAX 215-788-9577

Hope this is of help to all.

73, de Don KB4SA e-mail SFCN03A@prodigy.com

Subject: Aircraft control box rails 1 Dec 1995

The quarter turn fasteners used in control boxes, and the rails that attach to the aircraft panel, are made and patented by the DZUS Fastener company. This "rack mount" system is commonly referred to as a "DZUS rail" mount in the aircraft industry, and is still quite popular with the military and the corporate jet crowd. In my work, I have designed several products that use this system. Product literature is available from their main sales office:

DFS International (FL)
407-858-9848

The fastener in the unit is called a "stud", and for a .064 thick panel, the basic part number is PFSC35-38A. The strips that are used to mount to the airframe are sold in 10 foot sections for about \$100 apiece (some distributors may sell cut pieces). Part number for right angle mount is PR35 and for flush (back side) mount style the p/n is PR35-1.

Most any avionics shop would probably have some of this stuff, and they "might" sell you smaller pieces.

Some applicable military specs:

Stud: MIL-F-25173

Dimensional requirements for box: MS25212 originally approved 3 Feb 58, valid for current use per Notice 1 dated 9 Oct 91

Dimensional requirements for aircraft panel: MS25213 originally approved 3 Feb 58, last revised 10 Jul 68

The panel fasteners are always located on 3/8" multiple spacing. Center-to-center distance for the mounting rail holes is 5.365" +/- .005 per MS25212. Panel mount units are 5.75" wide and a multiple of 3/8" tall.

I can provide photocopies of the two MS drawings for an SASE. I can also replace the 1/4 turn "studs" in the units if anyone needs this service (not too many, please!). I have the special tooling that is required for his operation, or alternately, it could be fabricated if you have a lathe. Contact me by email for further details.

There are 5 stocking distributors as follows:

Barco Aviation, Los Angeles, CA 213-207-0481 fax: 820-6146
SW Anderson, Downers Grove, IL 708-964-2600 fax: 964-2696
SW Anderson, Eden Prairie, MN 612-934-2700 fax: 934-2716
Std. Parts & Equip., Ft. Worth, TX 817-336-2521 fax: 332-6833
Std. Parts & Equip., Wichita, KS 316-522-1516 fax: 522-5680
Gould Fasteners, Mississauga, Ontario 416-677-8253 fax: 677-8767

Factory and engineering support:

DZUS Fastener Company
425 Union Blvd.
West Islip, NY 11795-3183
Ph: 516-669-0494 fax: 516-669-0785

They also make some other BA looking hardware, such as toggle latches, pawl latches, other 1/4 turn fasteners, and a slide latch that looks like the ones on command set covers, but is about 5/8" wide.

73, Sheldon swheaton@sky.net <http://www.sky.net/~swheaton>

Subject: Aircraft Radio Ind.

I've dealt with Aircraft Radio Industries, and I can report that I've been satisfied with their services.

I got connectors and a mounting rack for an ART-13 from this firm. They are a bit pricey, but bear in mind that this is normal with any firm that deals with aviation customers who are restoring warbirds, and have budgets somewhat larger than ours; example, ART-13 connectors ran \$25.00 a pop when I dealt with them. Providing stuff to desperate hams who are restoring WW2 Boatanchor radios is strictly a sideline with them.

With that caveat in mind, I can recommend them.

73's, Mr. T.

Subject: Air-Wound Coils: Source! 3 Jan 1996

I read some postings a while back looking for B&W Air-Wound coils. This company has them (see below). I typed the chart from their latest catalog. Please call them to verify price and specs. (In case I screwed up something.) BTW=>They have a very interesting catalog; lot'sa power supplies, motors, switches, new surplus items, etc.

A-I-R W-O-U-N-D C-O-I-L-S

H&R Company, 18 Canal Street, Bristol, PA 19007-0122

Sales: 1-800-848-8001 FAX: 215-788-9577

H&R Dia Turns Wire Length Induct Price

P/N Inch per In Ga. Inches Henrys Each

B3-3004	1/2	32	24	2	12.0	2.50
B3-3036	1/2	6	18	2	0.40	2.50
B3-3009	3/4	4	16	3	0.62	2.50
B3-3042	3/4	6	18	3	1.4	2.50
B3-3044	3/4	24	22	3	23.0	2.50
B3-3015	1	16	20	3	17.0	2.50
B3-3045	1	6	18	3	2.4	2.50
B3-1032T	1-1/4	32	42	10	380.0	5.00
B3-3020	1-1/4	32	24	4	145.0	2.50
B3-1216T	1-1/2	16	20	10	134.0	5.00
B3-3055	1-1/2	16	20	4	50.5	2.50
B3-3024	1-3/4	32	24	4	270.0	2.50
B3-3060	1-3/4	24	22	4	150.0	2.50
B3-204T	2-1/2	4	12	10	32.0	15.00
B3-3029	2-1/2	6	12	10	51.0	20.00
B3-3064	3	4	12	10	32.0	20.00
B3-3033	3	6	12	10	71.0	20.00
B3-3034	3	8	14	10	125.0	20.00
B3-3035M	3	10	14	10	200.0	20.00

...73'JohnDilks,K2TQN

Subject: Aluminum chassis vendors 11 Apr 1996

Boatanchor builders can find aluminum chassis and enclosures from several sources:

1. Bud still makes them sold through dealers such as Allied, Newark, Ack, etc. Prices are quite high.

2. Hammond Mfg (Ray Shatzel W2XC) sells directly and through dealers. 716-631-5700.

3. Byers Chassis Kits (Charles Byers K3IWK) wants a #10 SASE for his free catalog.

5120 Harmony Grove Road
Dover, PA 17315 717-292-4901 Evenings/weekends

4. Sescom, Inc. probably has the best prices and a big catalog. Its free too!

2100 Ward Drive

Henderson, NV 89015-4249 800-634-3457 or 702-565-3400

Pricing for Chassis from 2, 3, and 4 is still surprisingly low.

73 Dave K4JRB thompson@mindspring.com

Subject: Another tube source 14 Dec 1995

Here's another source for tubes and related parts:

Vintage TV and Radio Supply

3498 West 105th Street

Cleveland OH 44111

(216) 671-6712

/scott robinson

Subject: Antenna Rotator Repair Parts 21 Aug 1995

>Anyone know of a source for repair part for a CDE CD-44 rotor?

>I am looking for the pot assembly for the rotator unit.

Call Norm Jeweler, K3LYW, Norm's Rotor Service, 5263 Argo Drive, Frederick, MD 21701, 301-874-5885. I've visited Norm's shop (he rebuilt my Tailtwister) and he can fix any CDR-type rotator. He can rebuild it for you relatively inexpensively too. That might be a good choice for you. Then you won't have to worry about some other part failing after you get the antenna up.

73, Tony K4KYO

Subject: Antenna Rotator Repair Parts

>Anyone know of a source for repair part for a CDE CD-44 rotor?

>I am looking for the pot assembly for the rotator unit.

Norm's Rotor Service (As above) Rotor overhaul is \$35 plus parts. One day service is standard. COD add \$5 Master Card, Visa Will call you with amount if you want to send check.

-- Roy -- morgan@speckle.ncsl.nist.gov

Subject: Antique Radio

Marc Ellis

Editor and Publisher, the Radio Collector

Answers to Commonly Asked Questions About THE RADIO COLLECTOR A New Publication For The Antique Radio Enthusiast

Radio Collector Publications

P.O. Box 1306

Evanston, IL 60204-1306

Voice (708) 869-5016 Fax (708) 869-5054 e-mail ellis@interaccess.com

What is The Radio Collector?

The Radio Collector is an independent national bi-monthly (6 issues per year) publication for antique radio collectors and restorers. It is a newsletter-style journal, 8 1/2" x 11" in size, and averages 10 pages in length. R.C. is drilled for convenient storage in any standard 3-ring binder.

Who publishes The Radio Collector?

R.C. is published and edited by Marc Ellis, who is also antique radio columnist for Popular Electronics Magazine and Restoration Editor for the Old Timer's Bulletin of the Antique Wireless Association.

When and why did this magazine begin publication?

During his work with the Popular Electronics column over the past nine years, Marc discovered that many of his readers were eager for more antique radio coverage than he could provide in the limited space available. Hence, R.C. was founded. Publication began with the January, 1994 issue.

Why does the world need another antique radio magazine?

The Radio Collector is one of the very few independent periodicals in the field. Most of the others are club newsletters which, as is appropriate, are edited for members varying widely in experience and sophistication. As an independent, The Radio Collector can be edited in accordance with the vision of its publisher.

So what is your vision?

We are devoted to exploring radio history, hardware, theory and restoration practices starting from first principles and in a systematic manner. That's why we're 3-hole punched. Save your issues of R.C. and you'll slowly build up a valuable encyclopedia of antique radio collecting lore.

How is R.C. Organized?

Every issue includes a feature article covering some fundamental aspect of radio collecting as well as columns on vintage radio restoration, history and reference materials. The Radio Collector also offers free classified ads for subscribers, free publicity for radio club functions and an open forum for the discussion of questions and answers.

Where do these articles and columns come from?

The feature article is normally written by Marc Ellis, who also conducts the correspondence and advertising columns. In addition, R.C. is fortunate in having a volunteer staff of very experienced writers -- all of whom are widely published in the antique radio and/or electronic hobby magazine press. "Play it Again," our column on radio history, theory and restoration, is provided by Ken Owens, who is well known for his carefully-written articles on the technical aspects of radio. Paul Bourbin, Board Chairman Emeritus of the California Historical Radio Society, draws on the resources of his vast library to write "Vintage Book Reviews." Julian Jablin, who puts together our "Mini Quiz," is a frequent contributor to amateur radio and electronics hobbyist magazines. Dick Mackiewicz takes time from his duties as board member for the New England Antique Radio Club, and an amazing variety of writing, collecting and construction projects, to contribute "Dick's Corner," a collection of "tips and tidbits" for the restorer and collector.

The Radio Collector is always looking for writers to contribute articles and columns, so if you're experienced and interested, please contact us!

Who should subscribe to The Radio Collector?

The Radio Collector is edited for the thoughtful and inquiring collector/restorer. We are attracting not only new collectors but also more seasoned ones. Both sets of readers appreciate R.C.'s systematic publishing approach. The veterans enjoy sharing their knowledge, and their helpful comments appear regularly on our pages.

Can you give me an idea of the specific content I can expect to find in The Radio Collector?

Following is a list of the major articles and columns that appeared in our pre-publication pilot and during our first year of publication. (we published monthly from January, 1994 through February 1995, then became a bimonthly).

FEATURE ARTICLES

Electrical Safety For Restorers

Evolution of the Broadcast Receiver

1. Crystal and Regenerative Sets
2. From "Three-Dialers" to Superhets
3. Radio Becomes a Home Appliance
4. Downsizing for the Depression
5. The A.C. - D.C. Set Comes of Age
6. Innovations in Tuning

Collecting Radio Peripherals

1. Service Literature
2. Service Literature (continued)
3. Books and periodicals
4. Vacuum Tubes
5. Accessories
6. Parts and Test Instruments

PLAY IT AGAIN A No-Nonsense Course on Radio History, Evolution and Repair

1. Setting the Stage 7. Vacuum Tube Characteristics
2. Early Radio Pioneers 8. Typical Vacuum tube Problems
3. The Vacuum Tube is Born 9. Basic Tools and Instruments
4. Vacuum Tubes of the 1920's 10. The Parts Problem
5. V.T. History - Conclusion 11. The Grid-Leak Detector
6. Basic V.T. Operation. 12. Regeneration/Amplification

VINTAGE BOOK REVIEWS

By Alfred A. Ghirardi

Radio Troubleshooter's Handbook

Modern Radio Servicing

Radio Physics Course

By John F. Rider ("Hour a Day" Series)

Resonance and Alignment

Automatic Volume Control

D.C. Voltage Distribution in Radio Receivers

Alternating Currents in Radio Servicing

Radio For All (Hugo Gernsback)

Radio Handbook (ICS)

Modern Radio Reception (Charles Leutz)--1925 and 1928 editions

The Wireless Experimenter's Manual (Elmer Bucher)

Mallory Radio Service Encyclopedia (1948 edition)

COMPANY CHRONICLES

Brief Biographies of Classic Radio Manufacturers

Philco Atwater Kent Browning Drake

Stewart Warner Garod Kolster

Sparton Steinite Freshman

Golden-Leutz Majestic Amrad

DICK'S CORNER

Tips and Tidbits from the World of Antique Radio Collecting and Restoring

Filling In White Lines New Book Explains 1920's Technology

Retrofit a Fuse! Don't Wash off Your Tube Numbers!

Leatherette Lore Easy Does it With Panels and Dials

Conference/ Auction News Protect your Phones and Speakers!

Quickie Tube Tester Radio Mysteries

Cord Caution

How can I become a subscriber?

Subscriptions to The Radio Collector should be sent to P.O. Box 1306, Evanston, IL 60204-1306. Annual rates are \$20.00 (U.S.); \$21.50 (Canada--U.S. funds); \$35.00 (via air to other countries--U.S. funds).

All subscriptions to R.C. are backed by a no-questions-asked money-back guarantee. If you are not satisfied with the first issue keep it as a gift and notify Marc. Your money will be immediately refunded in full.

Is it still possible to obtain all back issues of The Radio Collector?

All back issues are still available. The Volume 1 package (including the twelve 1994 issues plus pre-publication pilot) is priced at \$35.00 postpaid. 1995 issues (January, February, and

our first two bimonthly issues: March-April and May-June) are available on an individual basis at \$3.50 each postpaid._

Subject: Any 829-B Tubes Available 9/16/95

>I am looking for a couple of new 829-B tubes. Does anyone know of a
>source of them at a reasonable price?

Quest Electronics in Denver lists 829-B tubes at \$11.26 new and \$9.00 used (pulled from service - test good). Quest claims to have 50,000 tubes in stock, and have had everything I've asked for in the last few months. Their number is (303)264-7545, and can be reached via E-mail at questusa@ix.netcom.com.

John N0GH

Subject: Any info on "Daka-Ware"?

Yes, but under the name of Davies, 350 E Kehoe Blvd, Carol Stream, IL 60188. The unfortunate part is that you have to buy large quantities of their knobs like 250 or so as a minimum order. Knobs are not cheap. Typical price is \$10.00 for the fluted knobs. If you need more information, contact me.

Dave, W3BJZ

Subject: Attention to all vintage SWL people

If you are the proud owner of older SWL gear like the infamous Drake R7A and others...there's good news. The original manufacturer of bandwidth filters known as Network Sciences is thinking of producing various models again. I recently spoke with the owner, Darryl Kemper, and he said the demand for these filters is very high...especially the Drake and Collins gear. Soon there will be ads in QST, Monitoring Times, and Pop Comm asking readers to send in a reply coupon as to what your needs would be. Network Sciences needs feedback from everybody so they know what amount of each series of filter to produce. Just to let you know... these guys built ALL the American made filters for Drake, Sherwood Engineering (the highly prized 3Khz one!) and Gilfer. Imagine being able to buy the 6, 4, 3, 2.3, 1.8, etc. filters from the original mfg directly!

Darryl said that crystal technology has come a long way since the early 80's. Please contact them by FAX or mail ONLY. Please don't call their regular number because they don't want to tally using this method. Contact:

Network Sciences

3382 West Osborn Road

Phoenix AZ 85017 or by Fax @ 602-278-7033

John Berenyi jberenyi@cc.weber.edu)

Subject: Audio Chanalyst and A.G. Tannenbaum

I talked with A.G. Tannenbaum today, and he's got a manual for the 170-A RCA Audio Chanalyst. Makes me feel super-fortunate, because I thought I was going to wear out a set or two of ohmmeter batteries finding out what all 13 tweaks on that box do. Happiness is not working your way through a divider switch on a VTVM.

A.G. Tannenbaum has moved from Long Island (be sure you pronounce the "g") to Ambler Pa. His new address:

PO Box 386, Ambler, Pa. 14002. Telno 215-540-8055.

Hank van Cleef vancleef@bga.com vancleef@tmn.com

Subject: BA attractions

>I'm heading for Oregon soon and wonder if there are any not-to-be-missed BA
>attractions anywhere within reasonable range of I-5? I'm looking for the
>usual: places that sell BAs, radio museums and of course any particularly
>obsessed colleague and reader of this list who might like to talk BAs for a
>bit.

As Dick Dillman's is the second posting in this vein I've come across this morning, I'd like to remind people that I'm compiling for distribution to this group a list of places around the country that sell BAs and related gear. Please forward any interesting finds to me (or the listserver).

Sorry Dick, I don't have anything for Portland-Salem-Eugene.

Regards,

John Michael michael@ecs.umass.edu

Subject: BA Sighting 28 Jun 1995

>I saw a couple of things at Radio Recyclers (414)771-7121 in
>Milwaukee:

I've done business with Neil on several occasions and have found him to be honest and fair. He has always accurately described everything I've bought from him down to the tiniest flaw.

73, Tony K4KYO

Subject: BA test equip wanted (tube stuff)

Pomona Electronics still has a few of their tube test sockets in their catalog. It was essentially their first product, a real anachronism in the current catalog! The TVS-7, -8, and -9 are still there, for 7 & 9 pin miniature and octal tubes. However, the miniature ones are around \$15 each, the octal ones are \$20.

That's damn pricey! On the other hand, they have nice big lugs that you can hang a scope probe on. The MIL-surplus ones (Fair radio) have flat plates with a tiny hole in the middle, no way I can hook a Tek P6006 scope probe on that.

Of course, I got my set of Pomona adapters quite affordably at ham fleas, also including the rare noval, magnoval, compactron, and 10-pin miniature!

Subject: Battery Adapter Units 21 Jan 1996

While searching for some documents, I ran across something which may be of interest. The following company, according to the 1991 data sheets, makes battery adapter units for many of the popular US surplus military radios:

TNM Enterprises

P.O. Box 2330

Anaheim, CA 92814-0330

Since I don't know if they are still in business, I won't bother to list the entire inventory here. Some of the sets listed include the AN/PRC 6,8,9,10,25,28,77,93 series.

Jerry Proc VE3FAB jproc@worldlinx.com

Subject: BC BA' s Schematics 18 Jan 1996

I have a Ryder volume of most popular radios from 1926-1938. It has a bunch of schematics from radios of that era: if you happen to be working on something from that time and need a schematic let me know - I might have it in the book and can send you a copy.

73, Al N5AIT modsteph@acs.eku.edu

Subject: Bendix RA-1

If you're in need of a manual for the RA-1 series, Fair Radio has the book on the RA-1B, I, and J units. It was just the ticket for my "B" and Fred Raper's "J". Locating the connectors was far more difficult than finding a manual, but that was finally solved as well. They're nifty-looking receivers, with the twin "turrets" for the bandswitch and main tuning knobs, both of which could be operated from a remote using splined cables. (That's why the bandswitch lacks the normal detents.)

Now, all I need is to wait until after 1 October (my retirement from Civil Service) and I should have time to get this jewel back on the air!

73.....Ray, W6RIC <rmote@rain.org> (805) 985-6048

Subject: Boatanchor listings 27 Feb 1996

Another great source for Boatanchor listings is the new Ham Traders Express, which is published every two weeks for only \$15 for 24 issues. The address is P.O. Box 1693, Byron, GA 31008. Free 20 word ad with subscription. The format is similar to the "YellowSheet," but HTE is printed on light green paper.

Personally, I prefer this publication over Yellow Sheets because of the quality of the listings. Thank you.

David A. Knepper, W3BJZ

Subject: BOATANCHORS digest 61 - tube sources

I would like to submit the following list of potential vacuum tube sources from my Rolodex. I have experience with a few, but nowhere near all. One old TV guy also suggested using the Sam's Index as a reference for sources, though I have never seen one of these.

Antique Electronic Supply
6221 S. Maple Av.
Tempe, AZ 85283 602-820-5411
Behind The Times
PO Box 8683
Chattanooga, TN 615-899-1058
Data Mountain Industries
47 Hazel Dr.
Mt Lebanon, PA 15228 412-344-0956
Fair Radio Sales
1016 E. Eureka St.
PO Box 1105
Lima, OH 45802 419-227-6573 419-223-2196
GTE Electronics
New York, NY, 800-874-1765
Herb Ratner
3542 Westminister Ct.
Holiday, FL 34691 (813)937-7452
Linear Electronics
109 Hammond St.
Waltham, MA, 617-894-7300
Steinmetz Electronics
7519 Maplewood Av.
Hammond, IA, 219-931-9316
Tritronics
301-676-7300, 800-638-3328 (orders)
TV Supply
Medford, MA, 617-395-9440 800-762-0880

Subject: Boatanchors Places in Portland 6 Dec 1995

Here in Portland we have R5-D3 Surplus Electronics in the Southeastern part of Portland. The address is:

6111 SE 82nd Avenue; phone number (503) 774-6560

The owners name is Bob Lee, and his store sometimes has some great items depending what people bring in to him from time to time. If you need more information, let me know.

Liles Garcia liles@bitinc.com

Subject: Buying manuals from the government 11 Feb 1996

Here are two techniques I've used to buy manuals direct from the government.

TECHNIQUE #1

- Call 800/352-3572 and ask them to mail you a copy of form DD-2345, the "Militarily Critical Technical Data Agreement".

- Fill out the form and mail it back to the specified address. In section 4, where it asks for "DESCRIPTION OF RELEVANT BUSINESS ACTIVITY", a buddy of mine wrote "for hobby activity" and got the form signed.

- Assuming that the powers-that-be find you an acceptable risk, you'll receive the original DD-2345 back in a few weeks, signed by some U.S. and some Canadian functionaries.

When you want to buy a manual, make a copy of the signed original DD-2345, sign the new copy, and send the new copy in with the your manual request. If fortune smiles on you, the manual will be available and they'll quote you a price.

Apparently, these 'Joint Certification' folks are mostly worried about sensitive data finding it's way beyond U.S. & Canadian borders. In 1991, I used this form to buy (from McClellan AFB in Sacramento) a set of manuals for a TSC-15 radio shelter, a unit designed in the late 1950's. All the books came to me with all the front pages stamped in red ink with a verbose 'NOT FOR EXPORT' warning. In 1993, I saw about 200 lbs of the *same* manuals inside some TSC-15s at a Sacramento scrapyard - no doubt destined for Taiwan or Korea...

Of course, the trick is to find out just what government facility has the book you're after... I haven't dealt with her in several years, but this lady at McClellan AFB was quite helpful - try her at: Dorothy Voxland at 916/643-4380 or 916/643-4381 or 916/643-2111.

Various Air Logistics Centers are 'prime' for different electronic systems, and McClellan ALC is prime for most any radio shelter in the Armed Forces - they even fix shelters for the Marine Corps. They are a reasonable place to start. If McClellan doesn't work on a particular electronic system then they can't supply you with the book for it, but they can generally refer you to the facility which does work on it.

TECHNIQUE #2

- Send this letter, substituting the desired TM-11 # and unit nomenclature:

TO:

Commander, USACECOM

ATTN: AMSEL-IM-PI-E

Fort Monmouth, NJ 07703-5000

In accordance with AR25-55 and the Freedom of Information Act, I request one (1) copy of TM 11-5840-365-12 for my personal use. This manual covers the AN/PPS-15B radar set. I agree to pay reasonable charges for processing this request and for the manual.

I'm told that the text is critical - the above verbiage did work for me. About three weeks after sending the letter, I received a notice telling me that they were considering my request, and about three days after that I received the manual. Never did get a bill for the thing, though. Being an Army operation, this probably works only for Army books, like those with a TM-11 prefix.

Dave Ross KA6EPI ross@hypertools.com

Subject: Central Electronics Parts 10 Jun 1996

The remaining inventory, parts/manuals/sheet metal from the Central Electronics business is in Louisiana with a close personal friend and a fellow engineer of the original owner, Wes Schum. If you need something contact.....

Dominic (Nick) Tusa

19 Augusta Drive

Covington, LA 70435

(504) 892-7348 voice (504) 892-2075 24 fax nicktusa@aol.com

Nick also has a small manufacturing capability. Broadcast band tx for antique radio collectors, CE modules and a broadband amp (8877 based) using the CE style output networks. The amp is still a prototype, but works well.

Happy hunting! 73, gary gharmon@txdirect.net

Subject: Chain Drive for controls 6 Dec 1995

I don't know if it would be the right size to fit, but I have a catalog from a company called 'Small Parts, Inc.' in Miami Lakes, FL which shows small roller chain, 1/4 inch pitch, available in stainless steel (\$12.84 /foot) or plastic (\$9.35 /foot). Nylon fiberglass-reinforced sprockets of various sizes to match also are offered. Small Parts' phone number is 305-557-8222. This is from their catalog # 14.

73, John Martin jmartin@hrlban1.aircrew.asu.edu

Subject: Chain Drive for controls 6 Dec 1995

I was just recently inside my Kenwood T599A and found exactly what you are describing. Unfortunately the length is more on the order of 8 to 10 inches for each of these controls. Your friend might be lucky and find that Kenwood has raw stock that they cut to size. Failing that it might be possible to slice together several lengths to make a workable repair until he can find a REAL source.

Ray Mack WD5IFS mack@mails.imed.com

Subject: Chain Wire 6 Dec 1995

Gary, this is what I found about wire chain last year when I had to find a replacement tuning chain for my R-1051H military receiver. It is called roller chain. There are several sources:

McMaster Carr, phone 708-833-0300, p. 1504-1505 in their catalog 98 lists a number of sizes;

Small Parts Inc, phone 305-557-8222, p. 261 in catalog 15 lists plastic and stainless 1/4 inch pitch roller chain and sprockets;

C & H Sales Co., phone 800-325-9465 lists a number of 1/4 inch pitch chain and sprockets on p. 26 of catalog fall 95.

Chain is described by pitch, i.e. the space between the teeth that fit into the chain. For instance 1/4 inch pitch uses four links per inch. To make a long story short, I never did find the exact match to my R-1051H (7 links per inch I think it was) so I went begging to Fair Radio and they pulled a chain off a parts R-1051B receiver which uses the same pitch chain. I hope this helps.

73 Stan, K8RPA, flegler@pilot.msu.edu

Subject: CIA Radio Info Wanted 5 Jul 1995

>I have a Watkins-Johnson 'Tunable Filter' Model 232-2. Appears to be a
>WWII type surveillance RX. Tunes 2-30 Mhz, triple conversion, voltage
>controlled. I would like to geet a schematic for it. I have contacted the
>U.S. Archives but they say they have nothing. Does anyone have any
>suggestions? Has anyone had this type of radio before?

Suggest you contact Watkins-Johnson Co. 700 Quince Orchard Rd. Gaithersburg, Md. 20878 301-948-7550 FAX 301-921-9479 They just might have some info. in their archives. I have in the past gotten instructions books for old equipment (but not that old) from them.

73 Jim K4CGY

Subject: Coaxial relays

If you want to pay the price, talk to Henry Radio. They have relays of a far eastern origin that are quite good. A couple old DowKeys back to back with one having external contacts will work fine at h.f.. I tried this on my half gallon 2 meter amp and found loss to be quite noticeable. I went to the double relay from Henry and loss is gone. The single 8930 now gets 500 peak to the Wattmeter on the other side of the relays. Old Dowkeys have been running \$10 to 25 bux and higher at the local fests the last few years.

Good Luck 73 de KS0F Mike

Subject: Collins 618T need control head

Fair Radio in Lima, Ohio 419-223-2196 has xerox copies of the 618T1-2 manual for \$35. They have a control box for the ARC-112 that they claim is similar to that for the 618T (but with a different rear connector) for \$45 with a 618T purchase. I suspect you might be able to talk them into selling you one by itself if you ordered the manual also. Another possibility to try is Surplus Materials, Inc., Lakeside, CA 619-561-2726, or murphy@crash.cts.com (they look at their E-mail frequently).

73 and good luck, Stan K8RPA, flegler@pilot.msu.edu

Subject: Collins 32V-2 help (Meter Repair)

Try:

Ram Meter

1903 Barrett

Troy, Mich. 48084

Ph. 810-362-0990

They've always been good about repair on the meters I've sent in..

robert fowle.....the Hammarlund Guy

Subject: Collins Guide!

At our local hamfest this weekend, there was a display for The Pocket Guide to Collins Amateur Radio Equipment. I got a chance to eyeball some of the material and it is fantastic. It is 108 pages of digitally scanned photographs of every piece of Collins amateur equipment made from 1947 to 1980. There is descriptive information including tube charts, rear panel diagrams, mechanical filter diagrams, etc... It is laminated and has lay flat, wire binding.

I have a copy of their order sheet and here's the info: \$19.95 + \$3.00 s/h

Sound Impressions

833 Denmark Drive

Mesquite, TX 75149

Voice: (800) 233-0484, FAX: (214) 216-9994

Texas residents add \$1.55 sales tax.

Chuck Rippel crippel@exis.net

Subject: Collins Journal

Would like to tell all my friends about the monthly Collins Journal. Free ads, tidbits, technical articles and more. Only \$15 domestic, \$20 Canada, \$25 Overseas. Now in our second year. Call Dave, W3BJZ (814) 487-7468 or W3BJZ AOL

Subject: Collins Mech Filters, Yes

>>anyone aware of any surplus mechanical filters readily available that are .5 kHz or narrower ? I don't care what the center freq is.<<

I have collins mech filters in 300 Hz, 1.0 KHz and 6 KHz with CF of 455 KHz. New, removed from unused equipment. Ur adr brings data sheet. They are \$25 each. Ed Gable, 187 Lighthouse Rd Hilton NY 14468

emg@rfc.comm.harris.com

Subject: Collins plugs was SB-34 Mic Plugs

>Famous PJ068 used by Collins on the 32S-1's etc. Apparently Collins and others

>used them in aircraft communications equipment because an aviation friend of

>mine says they are still in use. They are hard to find. The only source I

>know is Surplus Sales of Nebraska, \$12 each, telephone 800-244-4567.

Ron Follmar
332 Camino Real
Kerrville, TX 78028
210-896-8830

I think he charges \$3 for them. He also has other collins parts,etc.
Phil Mills, AB5TH pmills@cyberhouse.com

Subject: Collins Rcvr Info Needed 23 Feb 1996

>>Murphys Surplus had an ad in alt.radio.swap last month listing
>>R-1051's for \$225 - I was tempted...
>Thanks for the info, John. I don't have a news reader yet. If it
>isn't too much trouble maybe you could find/post his number.

Murphy's Surplus Warehouse
401 N Johnson Ave.
El Cajon CA 92020
(619)444-7717 Fax (619)fff-6750

Subject: Collins Rx Screws 20 May 1996

>Anyone have a good source for quality hardware? They usual electronic suppliers don't carry

>much any more.

Small Parts Inc., of Florida, sells a quite impressive array of, well, small parts. Plenty of screws -- mostly stainless steel. No minimum order, either.

As of January 1992, Small Parts Inc. was at:

13890 N.W. 58th Court
P.O. Box 4650
Miami Lakes, FL 33014-0650
Phone +1-305-557-8222 FAX 1-800-423-9009

They have all sorts of screws. Mostly stainless steel, also brass, nylon, even titanium.

Subject: Connector Corporation - tube sockets

I received a nice catalog in the mail recently for tube sockets from Connector Corporation. I had evidently sent in a bingo card from a magazine ad a month or so ago. With the catalog was the business card of Philip B. Clark, a sales engineer with Connector Corporation. I called him the day before yesterday to ask some questions about his company's products. I explained that my interest was for hobby use rather than industrial use, but unlike with many companies I have dealt with in the past, Connector Corporation was more than willing to talk to me. In fact, Phil and I had a nice long conversation.

Connector Corporation evidently sells a broad line of electronic components: electronic connectors, switches, fans, speakers, cable assemblies, battery holders and connectors, transformers and inductors, potentiometers, LEDs and lamps, sockets, crystals, and capacitors. The connectors and sockets are American made, and from the catalog, they appear to be well-made. The catalog I received covered conventional septar and noval (7 & 9 pin) sockets; decal, novar, and magnoval sockets; and 9, 11, and 12 pin octal style sockets. The sockets come in several varieties of insulating material (general purpose or mica filled phenolic, glass filled high temperature polyester), contact materials (brass, phosphor bronze or beryllium copper) and platings (electro tin, nickel, silver). Several variations are also available in mounting style (flange above or below chassis, printed circuit, etc.). Matching plugs are also available.

The catalog mentions that tube and relay sockets are available from 4 to 16 pins, in molded or laminated construction, printed circuit or chassis mount with a metal or molded saddle. Nuvisor, Nixie, Compactron and transmitting tube sockets are also available.

Phil told me that he has been selling a lot of the sockets to manufacturers in the vacuum tube audio market as well as to importers of vacuum tubes. Also many of the sockets and matching plugs are used in other audio applications. Some typical prices he quoted me seemed reasonable, perhaps not as low as hamfest prices of old stock but not exorbitant either. He said Connector Corporation has a \$250 minimum order (which is actually fairly low for most manufacturers today). I asked him if he was selling into the amateur radio market. When he said he was not sure, I asked about companies like Antique Wireless Supply. He evidently already has them as a customer but he was happy to take some suggestions from me for other companies who might be willing to stock and resell his products.

Phil is not a ham but he recently bought a scanner and enjoys it. I told him about the fine art of restoring boatanchors, and he said this was something he might enjoy and something his company would be happy to endorse.

We ended our conversation with Phil suggesting that our membership write, call or fax for catalogs. He knows that this is a hobby for us, but like a good salesman, he also knows that many of us buy other parts for our regular jobs. If you do ask for a catalog, mention your hobby of boatanchors and suggest any retailers of parts you think might stock sockets for us. Evidently many of the importers of Russian and Chinese tubes are already customers of Connector Corporation.

Philip B. Clark and Connector Corporation can be reached at:

Connector Corporation Tel. 708/969-3400

4720 Yender Avenue Fax. 708/969-3545

Lisle, IL 60532 Internet - soon!

As I mentioned in the beginning of the post, I ran across this company and thought the group might like to request their catalogs. I have no personal connection with or financial interest in Connector Corporation. I do think it would be a good idea for a number of us to request catalogs and perhaps suggest retailers for Phil to contact. If we want hollow state electronics to survive, we need sockets as well as tubes.

73, Barry WA4VZQ ornitz@eastman.com

Subject: Couplates

I've wondered about these little early hybrid circuits that inhabited my Globe King 500, and ran across the internal connection, and component values of these things in a 1959 Centralab catalog (what? Doesn't everyone have one!? :-))

If you're interested in tweaking your Globe King audio, or have broken your Couplate (ouch!) drop a line.

/john wb5oau/4

Subject: Cover-Your-Glass perservative

At last -- I just recovered from Pinball Expo '95 and got the current address of the dealer of the liquid acrylic perservative I highly recommend for radio dials and any other piece of glass with designs printed on the back side of it. This includes some Gonset RXs and many classic home radios, some antique American clocks, and of course pinball backglasses.

If the ink is starting to flake off, CYG will prevent further deterioration. If it hasn't gone bad yet, CYG will guarantee it never will. Just don't get it colder than 10 degrees F. Get the "Lite" version, not regular. About \$18 per quart can plus shipping. One quart will do a couple dozen radio glasses.

This stuff is great. Just be sure to get the glass REALLY LEVEL before proceeding. Use the supplied eyedropper.

The Pinball Resource

Steve Young

37 Velie Road

La Grangeville, NY 12540

(914)-223-5613 Fax-7365

PS: Any Ham yet suffered a case of PMI (Pinball Machine Interference)? The neighbor's electronic pinball goes TILT when you key the mike?

73, mike k w9nrd

Subject: CRT rebuilder in Iowa 15 Jun 1996

There's a firm in Des Moines, IA which rebuilds picture tubes, CRTs for scopes and wierd monitors- it is:

Hawkeye Picture Tube Mfg

724 Scott Ave

Des Moines, Ia (zip unknown)

515-288-8567

They've been around for a long time. If you guys contact 'em, post the results- I'm sure more folks will be interested.

Paul Nelson KB0WOV DrHydro@ames.net

Subject: Crystals 29 Feb 1996

Peterson Radio, a crystal manufacturer is still in business. One of the Collins group recently did some business with them with excellent and reasonable (pricing) results.

Here is the phone number: (712) 323-7539

-73- Chuck Rippel crippel@exis.net

Subject: C-W Crystals still there? 16 Jan 1996

This is the correct address and they are still in business, I got there catalog a few months ago and they even send you some schematics for one and two tube transmitters.

73' Jake KK5HY

>C-W Crystals

>570 N. Buffalo St.

>Marshfield, MO 67506

>The ER note said they have a catalog for \$1.00.

Subject: D104 ELEMENTS 22 Jan 1996

D-104 elements are available form the factory for under \$20.00. I usually buy 20 - 25 at a time for around \$12.00 each. Get several local hams together and order a bunch and save some bucks.

73 Lon K5JV

Subject: Dave Ishmael' s book

no e-mail address:

DWI Engineering

p.o. box 3611

costa mesa, ca.

92628-3611 Ph. & fax # 714-979-5858

Subject: Dial drum needed

I think "dial cord drum" is the right term - you know, that pulley type thingie that is often found on revr tuning caps and which has the ends of the dial cord attached to it in some manner that can never be replicated except with great difficulty and many curses.

You know, the circular widget where that spring jumped from, the one you never found but which is probably lurking in the depths of some other radio you had on the bench at the time....

----- End Included Message -----

If you just need the spring (doubt it), Radio Shack sells replacement dial cord, with three springs included, for 99c. I can't find the darn thing in the catalog now, but I bought one there earlier this year. Had enough cord to restrung both halves of the S-38B.

--Andy wallace@mc.com

Subject: Drake "A" twins, what about them - R They OK?

>Would anyone know what the above mods are for the R-4C

>and where to find them?

Sherwood Engineering --

1. 600Hz First IF Filter (6-pole) and switch (between stock 8KHz and 600)
2. 250Hz Second IF filter - 8-pole, low loss
3. Revised audio output stage
4. Solid State 3rd Mixer
5. Improved Product Detector
6. Improved power supply

Sherwood Engineering was still in business in early 1994, but I have heard some comments recently that no one is answering the phone. 303/722-2257, 1268 So. Ogden St., Denver, CO 80210. Assuming they're still there, he has a catalog which describes these changes in some detail. Some of these changes, particularly the power supply mod, require significant surgery and demand a stout heart ... :-)

My own R4-C has nos. 3-6 installed. Plays well, VERY smooth SSB, very low drift (reduced heat generated by old audio amp and power supply near the PTO) . but too much hiss in the audio. I haven't attempted yet to track down the noise source, so don't know if it is attributable to these mods or not. The Sherwood audio output stage is very high gain (40dB), and may simply need some high frequency rolloff applied.

The stock radio has a lot of filter blow-by with the 250Hz CW filter. Addition of the 600Hz filter in the first IF is supposed to cure that, but not having tried it, I can't attest from personal experience.

Grant -- NQ5T us007699@interramp.com

Subject: E.H. Scott Resource

As a result of ordering a manual for an E.H. Scott RCK receiver, I discovered the technical expert for the E.H. Scott Radio Society. By permission, he allowed me to release his name to the BA fourm. His name and E-mail address is:

Kent King KAK@csi.compuserve.com

Kent only specializes in E.H. Scott radios and nothing else.

Jerry Proc, VE3FAB jproc@worldlinx.com

Subject: Electric Radio and Hollow State Newsletter

Tony Stalls (K4KYO) wrote:

>ELECTRIC RADIO HOLLOW STATE NEWSLETTER

>P.O. Box 57 5910 Boulevard LP SE

>Hesperus, CO 81326 Olympia, WA 98501

The above HSN address is of the Editor, Publisher(subscription) address is

P.O. Box 1831

Perris, CA 92572-1831.

The latest issue is No.35, which includes "R-390A filter - mod2" by D. Lankford and "R-390A Contract Orders - An update" by L. Locklear.

Takashi

Subject: FRC-93 manuals

I guess I got lucky. One day last year while visiting a neighboring community with a mil installation, I found a gentleman selling about a dozen of the FRC 93 manuals. They all use heavy paper stock inside and almost a cardboard (lightweight) cover. They are definately not locally reproduced items. The ones I have are as follows.

TM 11-5820-554-34-2, Control, Radio Set C-6118/FRC-93 and C-7515/FRC-93

TM 11-5820-554-34-6 Regulator, Voltage CN-1146/FRC-93

TM 11-5820-554-12 Operators and Organizational Maintenance Manual Radio Set AN/FRC-93 (V)1,2,3,4,5,6,7

TM 11-5820-554-24P-1 Amplifier, Radio Frequency AM-3979/FRC-93

The -24p-1 manual is on the 30L-1, the 34P-2 covers the 312B-4, the 34-2 appears to be the directional coupler and the 34-6 covers the Sola Electric voltage regulator.

I had also the manuals on the KWM-2 and a couple of others but sold them last year at a swap meet. (I need a gun, rope or poison for PIA relief and a sure cure for stupidity).

Hope some of this info helps someone somewhere.

Larry W00GH@ix.netcom.com

Subject: KWM-1 Power Supply Connectors

Yes these connectors are available. Call Glen at Electronic Dimensions, 206-272-1061. They are used in the aircraft industry on older radios like the Wilcox 807, which is a 2-30Mhz transmitter and the Collins 618T, which is a VHF 118-138 transceiver. Glen's prices vary depending on his source. He has a few available for \$58 each. He said he can get more but can not guarantee the same price. Considering that ITT Cannon wants \$465.00 each Glen should be congratulated for not passing the inflated price on to us.

Glen said that he specializes in all types of connectors and there is very little that he doesn't have or can not find.

I wonder in any of the BA restoration meisters on the list might comment about the 2 aircraft radios that use these connectors. It would be interesting to know more about why the connectors are so special and difficult to find. The connector is a DPA2432-33S.

Joe AA6WG

Subject: FT-243 / HC-6/U CRYST

WA>Yes, Jan charges \$25 for crystals in an FT-243 can, but they also sell

WA>HC-17 crystals, which are simply a different style can, but same pin

WA>spacing, for \$11. The HC-17 will work fine in place of an FT-243.

WA>The only difference is that the HC-17 is a slightly smaller, sealed
WA>enclosure whereas the FT-243 can be readily opened up.

The holders for FT-243 are pretty expensive now and are harder to work with. One way to get people to stop ordering them is to jack the price out of sight. Works for me :). HC-17 is an HC-6 with larger pins and works in place of an 243. I can't find find the brochure that I got in the last couple of weeks (what?..My shack messy?-never!) but you can STILL get xtals from Peterson Radio in Council Bluffs. Think that ham band xtals in HC-17 are about \$8.00.

Mike...K6SQJ

Subject: FYI: Source of re-plating materials Fri, 14 Jun

For those who are contemplating a need to re-plate any BA parts, bug/key parts, etc., the following outfit can supply you with about everything you need for home plating of small items in copper, nickel, silver, or gold:

Texas Platers Supply
2453 W. Five-Mile Parkway
Dallas, TX 75233
(214) 330-7168

The nickel-plating set is \$12 postpaid and will do 3 handguns (or a whole passel of bug parts). It includes copper and nickel plating compounds, two clips w/leads, and a plating brush. Remember that ***EVEN WITH BRASS PARTS*** you will have to plate with copper ***FIRST***, then plate with nickel, for best durability. Full instructions included with tips on cleaning, polishing, satin finishing, etc.

The silver and gold sets are more expensive. They can also supply replacement jars of plating compound if you run out of it whilst trying to nickel-plate an entire TBK just to make it "look pretty." ;-)

NOTE: They ***DO NOT*** supply chrome plating kits, as chrome plating is (apparently) a different process. And no, I don't own any stock in the outfit, I'm just a satisfied customer.

73/ZUT, Paul, K4MSG

Subject: FYI: Source of re-plating materials Fri, 14 Jun (Was J-36 plating)

The plating on the J-36 should be nickel, not chrome. Anyway, chrome plating can NOT be done using the brush plating method. I bought a brush plating kit from Texas Platers Supply recently, with the intent of re-plating some steel parts on an old Les Logan Speed-X bug. I was kind of surprised that the dot/dash contact supports, the damping wheel support, and all of the knurled nuts were made of steel, not brass like Vibroplex bugs. This was an old pre-war Speed-X bug. I have another one that was probably made during or after the war in which all the above-mentioned parts are nickel-plated brass.

Anyway, the kit produces an unbelievable finish. It looks as good as if it were done professionally by dipping. It does not take long to plate the parts; however, the parts must be perfectly clean: free of all oxidation and greases.

Cleaning the part before plating is the most time consuming part of the job. Clear distilled vinegar is a really good degreaser. Also, you will want to get some distilled water to keep the brush clean during plating.

I found that brass is about the easiest material to plate, because it is easy to clean with Brasso, or other metal polishes. Steel requires much more elbow grease to remove any oxidation or pits caused by oxidation. Also, steel must be plated with copper before being nickel plated, because nickel is a porous metal, and moisture from the atmosphere will cause the steel to rust right through the nickel. This is what happened with my old Speed-X key. It took me weeks to polish two parts to get them ready for plating. I found that a metal polish called PEEK works pretty well at polishing steel once it has been smoothed out with emory cloth.

Again, the kit works great. It only costs \$10. You will be amazed at the results if you take your time and properly prepare the part.

If anyone wants the address for Texas Platers Supply, send me an E-mail. Also, I have an article from a gun magazine that gives more detailed instructions on how to brush-plate.

73 Doug Palmer, KF4GI palmerdo@plhp002.comm.mot.com

Subject: Garolite panel stock info.

A few weeks ago the topic of bakelite sheets for front panels of old BAs was discussed, and I promised information on the 'Garolite' sheet stock offered by McMaster-Carr. Their latest catalog No. 101 arrived today, and here's the data.

"Garolite (phenolic) is a uniformly dense and solid material formed from layers of paper, cotton fabric, or glass cloth impregnated with a synthetic resin under intense pressure and heat. All grades are lightweight (about half the weight of aluminum), dense, structurally strong, and won't significantly soften under the reapplication of heat. Garolite is resistant to most corrosive solutions, acids, alkalais, solvents, and salt solutions." Sheets available in

Grade XX - Paper Phenolic, Grade C - Canvas Phenolic, Grade LE - Linen

Phenolic, Grade G-10/FR4 - Glass Epoxy.

Colors: Grade XX: natural tan/brown or black (black costs about 1% more).

All other grades available in 'natural' color only. Sheet thickness available in all grades range from 1/16" up to 1" (and 2" in the case of Grade C). Sheet sizes and costs for Grade XX Black are as follows:

12"x12", 3/16" thick.... \$8.92

1/4" thick.... \$11.98

3/8" thick.... \$17.95

12"x24", 3/16" 16.74

1/4" 22.50

3/8" 33.61

24"x24" 3/16" 27.87

1/4" 37.45

3/8" 51.62

24"x36" 3/16" 30.48

1/4" 40.85

3/8" 61.80

36"x48" 3/16" 52.55

1/4" 70.42

3/8" 97.51

All this is on page 2610 in their catalog. Their phone no. is (310) 692-5911.

73, John Martin jmartin@hrlban1.aircrew.asu.edu

Subject: General Radio 7 Jul 1996

Those looking for General Radio schematics and such info can try calling the new company that split off from GR to handle small equipment like this. It's called Qaud-Tech, and is near Boston, I think in Marlboro. Phone number (508)-485-3500. GR itself makes large things like PC board testers now. If Quad-Tech can't help, try calling GenRad themselves in Concord, MA, which is in 617- territory.

Raymond J. Cote

Subject: Germanium power devices and a bad sunburn

Anyway, I have recently had occasion to examine some Germanium power transistors, $I_{cmax}=30A$ variety. The interesting thing was that the usual ohmmeter junction tests gave a false reading of a short. The junction area on these devices (2N2156/7) is apparently large enough to show a leakage current of ~ 8 ma at 1.5 V, thus giving the false reading. The best way to check these kind of power devices is with a curve tracer... or home brew equivalent. I will be wary of testing power Silicon devices in the future as well, despite the higher bandgap.

I have also had cause to track down replacement Germanium devices recently. A customer support rep at a major semiconductor company, no longer in the business, gave me the following list of possible suppliers. I have had personal experience with Germanium Power Devices - good guys, but watch out for the \$100 min order if you are buying small quantities. They are right down the street from me - I have met "King Oliver Germanium" in his parking lot if anyone remembers that ad campaign in the trade rags. Time for a disclaimer: I have no idea what Raytheon thinks of any of these guys; my experience is personal, only, and I have not tried out any of the other sources.

Germanium Device Sources

American Micro

201-377-9566

Crimson Semi

212-947-3147

Germanium Power Devices

300 Brickstone Sq. York St., Box 3065 SVS

Andover, MA 01810-3065

508-475-5982 (\$100 min order)

Rick Kassiotis Bill Dawson Oliver O. Ward, President Rufus Ward

Semi Inc.

407-842-0305

John P. Wendler, P.E. e-mail: wendler@tomcat.adc.ray.com

Subject: Germanium Power Devices (Oliver Germanium)

In case particular parts are needed, I have a large collection of germanium devices including a number of high power devices like those used in many DC-DC supplies for later model tube rigs.

Germanium Power Devices is an excellent company to work with. I still have a number of their ads featuring "Oliver Germanium". In case this austere group wonders just how ugly I am, I could pass for Oliver's twin brother. A number of friends who saw the ads thought it was me.

I always liked his sense of humor, for example the ad that said "Sales agents throughout the free world - and in many right-wing dictatorships."

73, Barry WA4VZQ ornitz@eastman.com

Subject: Germanium transistors, w

AES stock about five kinds of Ge transistors, in bags of five for small \$. Call them at 602-820-5411

73, Scott

Subject: GET BOATANCHORS BA.HAUNTS.N.AMERICA (1/1) 28 Apr 1996

NOTE: This is in the BA Archives: Archive BOATANCHORS, file ba.haunts.n.america.

SOURCES OF USED ELECTRONIC COMPONENTS IN NORTH AMERICA, BY STATE, PROVINCE

ARIZONA

ARE Surplus

2000 S 12th Ave

South Tucson, AZ 85713

520-629-9927

Open Tuesday through Saturday. A good-sized collection of BA parts, e.g, switches, connectors, knobs, gears, electrolytics, capacitors, resistors, etc. A fair collection of BA test equipment. An occasional BA radio probably crosses their threshold, but doesn't stay long, and I wouldn't go looking for one there. Prices on parts are generally very reasonable, and proprietor has been known to haggle. I usually check here first before heading over to one of the *new parts* places when I need something.

NORTHERN CALIFORNIA

Mike Quinn

Oakland (at the airport)

Sacramento Electronic Supply Co.

1219 S St.

Sacramento, Ca. 95814 (800) 376-8800

South Bay

Halted Specialties

SW corner of Central expressway and Lawrence expressway.

Used to have a whole bunch of tubes in the rear.

Halted Specialties

3500 Ryder Street

Santa Clara, CA 95051

Surplus Stuff (Curtis Trading)

Fremont

Weird Stuff Warehouse

1190 Kern Avenue

Sunnyvale CA 94086

(408) 746-1100

Off Lawrence, near Halted

R & A Surplus

San Jose off de la Cruz Avenue.

Haltek Electronics

1062 Linda Vista Avenue

Mountain View, CA 94043 (415) 969-0510

Near 101 and Shoreline Blvd.

Alltronics

2300 Zanker (between Brokaw and Trimble)

San Jose, CA 95131

(408) 943-9773

Advanced Component Electronics (ACE)

3479 Kiefer Road - Santa Clara

1534 Berger Drive - San Jose

On Kifer: go out the back way from Halted; they're on the corner of that street and Kifer.

Anchor Electronics

2040 Walsh Avenue
Santa Clara, CA
(408) 727-3693

HDB Electronics

2860 Spring Street
Redwood City, CA 94063
(415) 368-1388

Southern California

Marvac Dow Electronics

Pasadena

Has a very good selection of parts for fixin' old radios, according to Dave Barts.

C & H Surplus

Pasadena

On south side of Colorado, west of Sierra Madre Blvd.

Apex Electronics

8909 San Fernando Road

Sun Valley, CA 91352.

(213) 875-1308 or (818) 767-7202.

Old man Slater, the owner, still has the truck he drove out here in the fifties, buried under all the stuff out in the yard. (Michael Moore)

Inglewood Electronics

4701 W. Century

Inglewood, CA (310) 674-2366

Had some 1L6's available for \$27!

Gateway Electronics

San Diego

No BAs as such, but a nice supply of resistors, transformers, connectors, meters; according to Tom Bridger.

Electronic Town

San Diego, CA

A door or two away from Gateway. My first visit and lo ... right there in plain sight were 5 R390 line level (Vu) meters.

Murphy's Surplus Warehouse

401 N. Johnson Ave.

El Cajon, CA 92020

(619) 444-7717, Fax 444-6750

There is a back and front area at Murphy's. You want the back area and to speak to Michael himself, if possible.

California Metals

San Diego, CA

With the help of a local ham who knew the place inside and out, I was able to find and buy an R-390A in a cabinet. As Randy said, plenty of BA treasures are at this place, but finding them is a big, Big job. You'll need about a half-day to get through it all. Wear your boots, carry a flashlight, and wear gloves and long pants.

California Surplus

Just over and down the street from CM. A great place for transformers, connectors, and resistors.

Anker Electronics

San Diego, CA

Literally took me 1 hour to find this place, even with Murray giving me instructions every 15 minutes when I'd get lost. Was only able to spend less than an hour and found 2 R-390A meters and a new or refurbished mech gear section for an RF deck. Murray has a ton of old and new stuff spread out in two big storage areas. You need about an afternoon to weed through it all.

COLORADO

OEM Parts

3029 Hancock

Colorado Springs, CO 80907 (719) 635-0771

All sorts of older stuff, including tubes and filament and high voltage transformers.

J B Saunders Electronics

4700 Sterling

Boulder, CO 80302 (303) 442-1212

Lots of parts, bu they don't do mail order. Located just east of Foothills Parkway, about a block sout of Valmont Ave.

Quest Electronics

5715 W 11th Ave.

Denver, CO 80214 (303) 274-7545 or questusa@ix.netcom.com

ICs, caps, resistors, transistors, and tubes. They are mostly mail order, but you can also come in and browse. From I-25 take 6th Ave. west about 2 miles to the Sheridan exit. Go north 5 blocks to 11th Ave. Turn left on 11th and go a long block. Look for the big building with the flag pole.

IDAHO

Hi-Tech Surplus

Boise (208) 375-7516

Computer parts, audio gear, components, test equipment.

ILLINOIS

Radio TV Labs

One of two known surplus/boatanchor dealers left in the Chicagoland area. It's in Irving Park Road, just west of Central Avenue. It is literally packed to the roof with stuff, according to Mike Kana (AA9IL).

JB Electronics

3446 Dempster Street

Skokie IL 60076 (708) 982-1973

The other surplus test equipment outfit. Jack Burg will share his opinions about damn near anything with you until your eyes begin to glaze, perhaps longer. He has lots of Tek and HP test equipment; not, however at flea market prices.

American Science and Surplus (formerly JerryCo)

3605 Howard Street

Skokie IL 60076 +1-708-982-0870

Has lots and lots of surplus -- not necessarily electronics: WWII gun cameras, laser disk chassis, 6 volt VW wiper motors, LEDs, rubber brains, you name it, they've had it.

Triode Electronics

Chicago (312) 871-7459

Good place for multisection can electrolytics, according to Lahlum Ross KB9JJR

Ham Radio Toy Store

In Wheaton on Wesley Street between Main and Hail streets. Wheaton is 40 miles west of Chicago on Roosevelt Rd. The RR tracks are a few blocks north of Roosevelt, and the store is a couple blocks north of the tracks, maybe a 3 block walk from the train station. Great place for antenna, League pubs, antenna tuners, and riceboxes. (Michael Knudsen)

IOWA

Collins Radio corporate surplus outlet

Cedar Rapids

KANSAS

Associated Electronics

Overland Park 800 497-1457

Had a couple of R42 or R44 speakers, but the guy couldn't find them.

MARYLAND

Wood's TV

Mechanicsville (301) 884-3788

Has a good supply of dial cord and, according to k1zat, still has a lot of tubes on the shelf.

MASSACHUSETTS

Electronics Plus

Littleton, MA

They seem to have a nice selection of chassis, some Jim-Pak, and some current and obsolete Radio Shack stock. I picked up a 50 uA meter there. Some prices were OK, some not.

Electronic Super Store

16 Normac Road

Woburn, MA (617) 932-6800

You can see their big sign from 128 south from 93 and 128 junction. It is the first exit, Washington street.

Eli Heffron & Sons

Cambridge

Maybe it's now:

ELI Incorporated

139 Hampshire Street

Cambridge, MA (617) 547-4005

Linear Electronics

109 Hammond Street

Waltham, MA (617) 894-7300

Had some 1L6s awhile back.

Young Engineering

Shetland Industrial Park (near Pickering Wharf)

Salem, MA

They are located in a HUGE warehouse, and though they don't stock any true BA's they have a MASSIVE collections of OLD and NEW test gear, scopes, generators, meters, PARTS galore, wire, and all kinds of strange devices that are certainly VERY HEAVY. It's a great place to look around and ogle the old stuff that they buy off companies that go out of business. Some useful stuff too.

MICHIGAN

Purchase Radio

327 E. Hoover Ave.

Ann Arbor, MI 48104 Phone 313-668-8696

I knew I was in a "real" radio store immediately - by the smell...There was a good assortment of regular and fairly modern parts, but the real stuff was on the used equipment shelves and up on high shelves around the ceiling...a vast assortment of mainly broadcast receivers from 50's vintage back through the 20's arranged in no particular order I could determine. Some older microphones, too. Upstairs - apparently open by invitation only - was

a very large inventory of tubes. Mostly sorted by type number too. More BC receivers and other odd bits up there too. Contact them if you're having a hard time finding a particular tube.

The counterman - Daniel McCollough, VP & General Manager, was very friendly and made me feel immediately at home, especially after I mentioned I'd come from California to see his shop. Clearly, he's a man who enjoys radios, his job, and meeting people. I give it a rating of three stars, worth going out of your way to visit.

Surplus Trading Co.

2700 N. M-63

Benton Harbor, MI 49022 (616)849-1800

Lots of surplus from Heath Company and Zenith Data Systems.

Pat Walsh

Bendon Harbor - Just off Main Street.

Open only on Saturday mornings. Good deals on old Heath and ZDS stuff (he gets what Surplus Trading doesn't).

MINNESOTA

Antique & Amateur Radio Consignment Center

St. Paul.

This is possibly a potential dream come true. It is a used radio store of tube type gear.

AxMan Surplus - chain of 4 stores, original at:

1639 University Avenue

St. Paul (612) 646-8653

Has all sorts of parts and stuff. No radios, but some BA test gear and lots of parts.

Asset Recovery Corporation

1907 Charles Avenue

St. Paul (612) 641-0789

ABC Electronics

317 7th Avenue North

Minneapolis, MN (612) 332-2378

This place is in the warehouse district in Minneapolis. Small, but packed with stuff, mostly components. Sometimes they close on Saturdays, and sometimes not. If you go there, call ahead to make sure they are open.

Midwest Surplus & Electronics

124 12th Avenue South

Minneapolis, MN (612) 339-9533

Mostly a junk shop, but has some good stuff buried in.

Acme Electronics

Minneapolis, MN

It's an old store, with some stock that goes back a ways, [including] some boatanchor power transformers.

Radio City

Minneapolis, MN

Dexis Corporation

9749 Hamilton Road

Eden Prairie, MN (612) 944-7670

MISSOURI

STARKE ELECTRONICS *Wholesale Supplier of Surplus Communications Equipment.

Dennis Starke, Owner

The "Military Radio Collector"

In-house Museum, Public Welcome!

Box 95, Hwy. 65

Cross Timbers, MO 65634 Ph. 417-998-6517

Electronics Exchange

St. Louis

On St. Charles Rock Rd a couple blocks west of I70. All surplus, consignment. Old 50's and some fairly new test equipment. Best prices in SL area.

Gateway Electronics

St. Louis

On Page near Midland. About 20% used/surplus, rest new stuff. All stuff is in open bins where you can examine it. Best ham stuff in SL.

NEBRASKA

Surplus Sales

Omaha

There has been a thread about problems people have had dealing with this firm. However, they have a showroom, which is their stock room, where one can wander around, turn on lights, etc.

NEVADA

Radio World

1656 Nevada Highway

Boulder City, NV 89005 (702) 294-2666

The name is appropriate as one can find everything from marine to CB and from the most modern ham equipment to BAs at Radio World. None of this impersonal buying of a sealed box and goodbye stuff one finds at the large amateur chain stores. The place is run by BA list

member Dave Floyd who makes you feel immediately at home. Four stars, worth a special trip just for the hospitality.

NEW HAMPSHIRE

Electronic Surplus Service

186 Granite Street

Manchester, NH Tel: (603) 624-9600

Store hours: M-F 10-6, Thursday 10-8, and Saturday 9-5 Directions: 293 North to exit 5, right on Granite St. right on Commercial St. Electronic Surplus Service is on the right.

13 Main Street

Hillsboro NH 03244. (603) 464-5625

Chuck and I were not quite prepared for what we saw - right there in the middle of town was a shop window filled with boatanchor ham radios - a Collins KWM-2, Collins TCS, HRO-5, Drakes and many other great classics. Owner Chris Sieg is very knowledgeable about these old pieces of radio history and this is clearly a labor of love. (Michael Crestohl)

NEW MEXICO

Unknown

In E. Albuquerque near the UNM campus In east Albuquerque, out the street that runs on the south side of the UNM campus is a surplus/neat stuff kind of store. It's pretty far out east, almost to where the street (Candelaria Street????) meets I-40. If you exit off I-25 going east along the south side of campus, you'll come to a 'Y' intersection. Take the south fork and go out to 7800 or so (maybe 7500? I haven't been there in a while) and look for metal rack cabinets in front. The store is in a six-store building about 100 feet back from the street.

Electronic Salvage

9012 Central Avenue SE

Albuquerque (506) 296-6389 Maybe the same place?

L. A. Salvage Co.

Los Alamos

NEW YORK

The Antique Lover

RT 30 - Mayfield, N.Y 12117 (near Newburgh)

518-661-6424

Dick and Terry Peters, owners. Dick is a ham and BA collector. Mayfield is in Upstate New York, and those of us who have lived in Syracuse and Utica do not bandy that term about lightly. (Sorry, New York City, Westchester County *does not* qualify!) Dick is located about 40 minutes north of the Amsterdam Thruway exit. He is an old time gent, and frequently has old radio magazines and service manuals. (He was reading a 1937 Popular Mechanics when I came in the door, so that will give you a feel...). I spotted a big box Simpson VTVM with 1" diameter probe, several 1940's broadcast table radios, some boy's radio stories, and a "frequently needed" TV schematic collection as well.

The Radio Room

North Massapequa, NY 11758 (Long Island)

516-795-9371

Specializes in used amateur equipment.

OHIO

Mendelson's Electronics

Dayton (800) 344-4465

A good place to visit while at the hamfest. Barry Ornitz found some R-390 style meters and boxes of knobs.

Fair Radio Sales Co.

1016 E. Eureka St.

Lima 45802 (419) 223-2196

This is, of course, the mecca of BA collectors, especially the military electronics group.

Vintage TV and Radio Supply

3498 West 105th Street

Cleveland, OH 44111 (216) 671-6712

Play Things of the Past

3554 West 105th Street

Cleveland, OH 44111 (216) 582-3094

Gary Schneider's store; good luck finding it open.

ONTARIO

Globe Electronics

3585 Keele Street

Downsview, Ontario M3J 3H5 (416) 631-7770

Electronic Surplus Industries

1191 Lawrence Ave West

Toronto Ont. M6A 1E2 Phone (416) 787-1837

Owner: Sid Lipkowitz

Toronto Surplus and Scientific

608 Gordon Baker Rd.

Willowdale Ont. M2H 3B4 Phone (416) 490-8865 FAX (416) 785-7955

Owner: Mike Employee: Graham

OREGON

R5-D3 Electronic Surplus

6111 SE 82nd Ave
Portland, OR (503)774-6560

REJUVENATION, Inc.

1100 SE Grand Avenue
Portland, OR 97214, USA (503) 238-1900.

A leading producer of Victorian and Arts & Crafts lighting fixtures, all from original tooling. Vast range of period (second-hand) and repro accessories, including carbon filament pip-ended Edison light bulbs.

Cascade Surplus Electronics

8221 N. Denver Avenue
Portland, OR 97217 (503) 285-0832

Always shuttered, so still try and enter even when it looks shut. They're open TH,F,SA 10:00 am - 5:00 pm; SU noon - 4:00 pm.

Zero-Gee Electronics

1890 SW 3rd Street
Corvallis, OR 97333 (503) 754-9422

Zero-Gee started out as a used bookstore years ago, until a Jameco rep talked the owner into putting in a rack of electronic Jim-Pak parts. It was so successfult he got ride of the books and went into electronic surplus and new parts.

TENNESSEE

Hardware Etc.

Nashville

Mr. Grossman has, among other sets, a RAL-7 and RAK-7 with power supplies and original manuals. They show signs of storage but seem to really be in excellent condition, though I did not take time to look inside.

TEXAS

Altex Electronics

Austin 512 832 9131

Rich Herndon was there recently and found some old-style Eveready blue and red "B" batteries with cat and the "9" on the front.

Tucker Electronics

Dallas

Has a selection of BA's with display and for sale items at usually ridiculous prices. They're in Garland 1 block off Jupiter RD across from Esystems. Take Jupiter off 635 cross Miller RD and watch the left side. If you go past Esystems at 1200 Jupiter you've gone too far.

City Electronics

Bellaire (Houston) (713) 663-6066

He has fun stuff like high wattage pots and tube sockets. He also has the more modern stuff like toroids (a *really* good selection), a good selection of things like plate chokes for BA rigs, and miniature pots for things like your HT. Good assortment of knobs which might be of interest to the BA folk. He might also be a source for BA transformers. He even has speaker grill cloth. He is, unfortunately, only open 9 to 5 Mon-Fri. (Ray Mack)

UTAH

R. J. Silk

906 S. 1900 E.

Salt Lake City, UT. (801) 583-6616

VIRGINIA

Cain Electronics

(804) 855-3394.

Owner is a vintage radio collector. Has a museum and, more to the point, two 7' X 3' cabinets full of old multisection electrolytics, as well as a supply of other old parts. Ask for Joe.

WASHINGTON

Electronic Dimensions

Puyallup Avenue

Tacoma

A wide variety of stuff from the 1940's to the present: test equipemnt, radio components.

Radio Steve's Old Technology Shop

Aurora North, just north of Green Lake, in Seattle.

Boeing Surplus scrap yard

Kent, WA

Sells wire by the pound; decent prices on tools. Real pot luck.

Radar Electric

By the Seattle Center

Best place in town for electronics tools. (MZ)

WISCONSIN

Radio Recyclers

7730 W. National Ave.

West Allis, WI 53214 (414) 771-7121

MTWF: 10-5 Sat: 10-3 Voice mail type answering machine that has updated listings of equipment for sale by category (ie HF, VHF/UHF, HTs, etc). BTW, he also has a big stock of NOS parts: tubes, inductors, odds & ends.

American Science & Surplus

6901 W. Oklahoma Ave.

Milwaukee, WI (414) 541-7777

They have science stuff, some military items, and some test equipment. Not worth a trip into the city for, but if you are here (not too far from Radio Recycler, BTW) it can be a source for some of those little "weird" project parts.

Superior-Racine

1006 State Street

Old fashioned tv/radio parts store that still has boxes of old and surplus items to browse through. I worked there 25 years ago and went back for some parts last month. Except a bit dustier, it was the same as 1969.

Chester Electronics

Sheridan Road

Kenosha, WI 53140

Repair parts for radio/tv repair shops, some consumer goods. Still has a large stock of NOS parts and connectors.

NOTE: The following excerpted from the BOATANCHORS FAQ. It originally appeared in the June 1992 QST Lab Notes Copyright 1992 American Radio Relay League, Inc. All rights reserved.

Alinco Electronics, Inc

438 Amapola Ave

Suite 130

Torrance, CA 90501 tel 310-618-8616

Supplies Alinco manuals only.

Amateur Wholesale Electronics

PO Box 224

1040 Industrial Dr

Watkinsville, GA 30677 tel 404-769-8706 (technical service and orders)

Manuals and replacement parts for Azden Radios.

Antique Audio

41560 Schoolcraft

Plymouth, MI 48170

Older factory manuals for RCA, Zenith (including Transoceanics) and several others. Riders volumes 1 through 22, Sams Photofacts 1 through 600, Beitman's volumes 1 through 10 and Sams Transistor Service Manuals volumes 1 through 90. The price is \$5 per schematic up to 8 pages. Fifty cents for each additional page. Written inquiries for schematics preferred.

Antique Electronic Supply

6221 South Maple Ave

Tempe, AZ 85283 tel 602-820-5411

Antique Electronic Supply supplies pre-1960 service manuals for many electronic products, including communications receivers. The cost is \$4.50 each. A catalog of antique radio parts and books is also available. They offer reprints of some older service manuals, tube manuals, a tube substitution guidebook and even a ballast tube manual. [LOTS of tubes!! /john]

Ardeo Electronics

PO Box 95

Berwyn, IL 60402

Manuals for 95% of the Hallicrafters product line. The company was founded by Anthony Dambrauskas, the Hallicrafters service manager, when Hallicrafters went out of business in 1978. Today, the business is being carried on by his son Robert. Manuals range in price from \$7 to \$20.

Brock Publications

PO Box 5004

Oceanside, CA 92052

Manuals for for all amateur equipment sold by Swan Electronics. Also stocks manuals for Cubic Communications, Astro and Siltronix products. Brock Publications is a home business owned by Grace Brock who retired from Swan Electronics/ Cubic Communications in 1990.

Cardwell Condenser Corporation

80 East Montauk Highway

Lindenhurst, NY 11757 tel 516-957-7200 FAX 516-957-7203

Manuals for Hammarlund equipment. In addition, they also have a limited supply of components for Hammarlund receivers and transmitters. They also manufacture roller inductors and variable capacitors.

Center For Legislative Archives

National Archives

Washington, DC 20408 tel 202-501-5350

(Record Group 287) US Army Technical Manuals for radio equipment manufactured from 1940 to 1979. Photocopies can be obtained at a cost of 25 cents per page and a \$6 minimum order. A "Reproduction Service Order" must first be completed by the National Archives to determine the cost of the specific manual you desire. The manual on this form must be identified by its proper Army Technical Manual number. If this number is not known, contact your nearest US Government Depository Library for assistance. (These are usually the main public libraries in large and medium-sized cities.) A booklet entitled Indexes and Lists to Army Technical and Administrative Publications 1940-1979; The National Archives Microfilm Publications Pamphlet Describing M1641, also available from the Archives, describes this procedure.

Dean K Kidd, W7TYR

27270 SW Ladd Hill Rd

Sherwood, OR 97140 tel 503-625-7363

Manuals and data for older Tektronix test equipment.

Eico Electronics Instrument Co, Inc

363 Merrick Rd

Lynbrook, NY 11563 tel 516-599-5744

Eico manuals for the last 25 years. Calls are accepted on Monday, Wednesday and Thursday from 8:30 AM to 2:30 PM Eastern time.

Fair Radio Sales Co, Inc

1016 East Eureka

PO Box 1105

Lima, OH 45802 tel 419-223-2196

Manuals for surplus equipment. Also some Tektronix manuals and vacuum tube data. Catalog available.

Hi-Manuals

PO Box 802

Council Bluffs, IA 51502

Extensive collection of manuals from the mid-30s to the 70s. Amateur Radio equipment is included. You must order from a current catalog and "dropped list." The cost is \$3 for both. Many Heathkit manuals in stock. They also supply vacuum tube data from the RCA Receiving and Air Cooled Transmitting Tube manuals and the Rider #35 Tube Substitution Guide. The cost is \$5 per tube plus a business-size SASE. Your check will be returned if the tube data is not available. Hi-Manuals cannot accommodate technical correspondence, quote requests or telephone calls.

Howard W. Sams & Co

2647 Waterfront Parkway East Dr

Indianapolis, IN 46214-2041 tel 800-428-7267 tel 800-428-5331

You can order Sams Photofacts through your local distributor (saves postage and handling costs), by mail or by phone. Sams covers most consumer electronic items manufactured since 1945. A photocopy service for manufacturer's manuals and Rider's data is also available.

ICOM America, Inc

2380 116th Ave NE

PO Box C-90029

Bellevue, WA 98009-9029 tel 206-454-7619

Manuals and parts for ICOM products. Call for prices. Most service manuals cost around \$25 for base and mobile units; \$20 for hand-held units.

Kenwood (East Coast)

East Coast Transistor Parts, Inc

2 Marlborough Rd

W Hempstead, NY 11552 tel 800-637-0388 (orders only)

Kenwood (West Coast)

Pacific Coast Parts Distributors, Inc

15024 Staff Ct

Gardena, CA 90248 tel 800-421-5080 (Outside CA) 800-262-1312 (CA only)

Kenwood product manuals only

Japan Radio Company

Service manuals are available from JRC dealers. The three companies likely to have JRC manuals in stock are:

Electronic Equipment Bank

323 Mill Street NE

Vienna, VA 22180 tel 800-368-3270

Gilfer Shortwave

52 Park Ave

Park Ridge, NJ 07656 tel 800-445-3371

Universal Shortwave

6830 Americana Parkway

Reynoldsburg, OH 43068 tel 800-431-3939

Jim Farago

4017 42 Ave South

Minneapolis, MN 55406-3528

A complete set of Riders, Volumes 1 through 23, covering radios from 1924 to 1954. The cost is \$3 per copy plus SASE. The customer must provide the unit name, brand name and model number.

Land Air Communications

95-15 108th Street

Richmond Hill, NY 11419 tel 718-847-3090

Authorized dealer for Kenwood, ICOM and Yaesu manuals. Also carries Collins, Johnson, Hallicrafters, National and other manuals. Can provide schematics on most equipment dating back to 1945.

Musty Manuals

HamHeaven Communication Corp

645 Wheeling Rd

Wheeling, IL 60090 tel 708-634-6467

An extensive collection of owners manuals, service and maintenance manuals, catalogs, magazines and other technical facts on all types of early and late model radio equipment--including ham gear. Manuals come with updates or articles, product reviews and other tidbits of information. Catalog available.

MECCA

1132 Conway Dr

Newark, OH 43055 tel 614-522-4944

Used manuals for test equipment, amateur equipment and early receivers. Prices range from \$5 to \$35. Send an SASE with your request for price and availability.

Olde Tyme Radio Company

Suite 317

2445 Lyttonsville Road

Silver Spring, MD 20910 tel 301-585-8776

Some RCA Tube Manuals and Riders for sale. Catalog available.

Puett Electronics

PO Box 28572

Dallas, TX 75228 tel 214-321-0927 or 214-327-8721

Schematic diagrams "for nearly any radio receiver." Cost is \$5 with manufacturer and model number; \$15 plus drawing and description if the manufacturer or model number is unknown. Reproduction manuals, Rider's indexes, RCA Vacuum Tube Manuals, and many other service/instruction manuals for classic radios and related equipment are available. Some amateur equipment manuals including Collins. Test equipment manuals include Hewlett Packard, Tektronix, Hickock and others. Also supplies recordings of old radio shows as well as tubes and other antique radio components. Catalog available.

Alton H. Bowman

4172 East Ave, RD 2

Canandaigua, NY 14424

A large collection of manuals and schematics for Amateur Radio equipment and other electronic products from 1920 to 1970--many unusual. Welcomes requests for odd-ball material with and without model numbers or labels. Prices are \$5 for schematics and \$7.50 to \$10 for manuals. An SASE is appreciated. Alton emphasizes that this service is his hobby and not a business.

R. L. Drake Company

230 Industrial Drive

Franklin, OH 45005 tel 513-746-6990

Drake product manuals only.

Robot Research Inc

5636 Ruffin Rd

San Diego, CA 92123 tel 619-279-9430

Robot manuals only.

Slep Electronics Co

PO Box 100

Otto, NC 28763-0100 tel 704-524-7519

Operation and service manuals; schematic service for old and new amateur radios, commercial and military surplus test equipment, commercial and surplus military radios, antique radios and equipment manuals. Catalog not available due to large stock. Send an SASE for price and availability. Include make and model of each unit.

Sony Publications

PO Box 20407

Kansas City, MO 64195 tel 816-891-7550, extension 33 (Customer Service)

Manuals for Sony shortwave receivers and other products.

Steinmetz Electronics

7519 Maplewood Ave

Hammond, IN 46324 tel 219-931-9316

Schematic copies from a complete set of Rider's and Beitman books, some older manufacturer's manuals (consumer radios only) and Sams Photofacts. The cost is \$3 for the first schematic copy, \$2.50 for the second and \$1.50 for each additional copy. Include an extra dollar for research if the model number is unknown (SASE preferred). Also carries vacuum tubes and other parts. Catalog available.

Surplus Sales of Nebraska

1502 Jones St

Omaha, NE 68102 tel 402-346-4750 Stocks a complete line of manuals for Collins amateur equipment and partial collection of commercial equipment. Call or send an SASE for price and availability. Collins parts are also available.

Ten-Tec, Inc

PO Box 8010

Sevierville, TN 37864 tel 800-833-7373

Manuals for Ten-Tec products only. Most older manuals are available and they will make photocopies. Call or write for specifics.

US Army Military History Institute

Carlisle Barracks, PA 17013-5008 tel 717-245-3611

Technical manuals for military radio radio equipment. If possible, include the manual number with your request. If this is unknown, include a complete description of the equipment including the model name, model numbers and the time period in which the equipment was in use, if known. Once a specific manual is identified, it may be obtained in one of two ways. If the Institute possess three or me copies, one may be borrowed through interlibrary loan procedures. This process must be initiated at the your local library. Alternately, photocopies can be purchased. The minimum cost is \$6 for up to ten pages. Each additional page is 25 cents. Each patron is allowed up to 300 pages per calendar year. Selected bibliographies of Institute holdings are available through interlibrary loan.

Varian Associates, Inc

301 Industrial Way

San Carlos, CA 94070-2682 tel 800-432-4422

EIMAC tube data for tubes from 1-kW to 1.5-kW plate dissipation including all glass-envelope tubes. 200-watt, 800-watt and larger tubes are manufactured in Salt Lake City, Utah. You can use the telephone number shown above to access either plant for data on any EIMAC tube.

VISTA Technology Inc

3041 Rising Springs Ct

Bellbrook OH 45305 tel 513-426-6700

Newly published manuals for selected models of Rockwell/Collins Amateur Radio equipment. Authorized by Rockwell International.

Western Nebraska Electronics

HC-84, Box 1

Potter, NE 69156 tel 308-879-4552

A complete collection of Collins manuals. The cost is \$12.50 for a reprint copy, or \$35 for a printed copy. Also carries a large supply of Collins parts.

Yaesu USA

17210 Edwards Rd

Cerritos, CA 90701 tel 310-404-2700

Owners and service manuals for Yaesu products. Also sells components.

Subject: Glyptal Cement

In my discussions with both General Electric & Glyptal, Inc. about a year ago, as part of my "real world" job, I was informed that Glyptal was originally a GE product, and the division was allowed to separate from GE, and start a new company, called Glyptal, Inc. (1). The company makes hundreds of "paint" products, and the old standby "Glyptal", is officially called "#1201 Red Enamel". Elsewhere in their literature, it is referred to as an alkyd paint. It was originally developed as an insulating paint for coils & armatures, but the company now markets the product as a "do-anything" substance, claiming applications as a primer, sealer, adhesive, and more. Dielectric strength is specified to be 1500 volts per mil. It is sold in quarts and larger sizes. 1201A is a spray can version, and 1201B is a thicker version for thread sealing, etc. The product has been made "for over 30 years". It meets mil-spec MIL-E-22118.

The GC Electronics (2) (formerly General Cement Mfg. Co.) product is called "Red Glypt Insulating Varnish", and is also claimed to be a Alkyd-based compound. [I suspect it is not just re-packaged Glyptal from the Glyptal company, since it is rated for 121 deg. C vs. 135 for the Glyptal.] No dielectric strength is specified. The GC p/n for a 2 oz. bottle with brush is 10-9002 (or 10-9003 mounted on a display card). National Stock No.: (NSN 5970-00-901-5331).

GC was founded in 1930, and their 1st product was an all-purpose glue used by radio repairmen to fix cabinets and tears in speaker cones. In 1986, it was merged with Thorsen Tool Co. of Dallas, to become GC Thorsen. In 1989, GC Thorsen was purchased by Elgin National Industries, however to my knowledge, the name "GC Electronics" is still used.

73, Sheldon KC0CW

footnotes:

(1) Glyptal Inc., 305 Eastern Ave., Chelsea, MA 02150 Tel. 617-884-6918 or 800-457-1201 fax: 617-884-8376

(2) GC Electronics, Rockford, IL (Retail sales are made exclusively via a network of over 1600 distributors. For nearest distributor, call 815-968-9661)

swheaton@tyrell.net

Subject: Grid Dip Meter (Millen Co.) 11 Jun 1996

Millen is now The James Millen Co., POB 4215 BV, Andover, MA 01810, phone (508) 975-2711, fax (508) 474-8949.

--Bobbi

Subject: HANDY LIST WWII Surplus Conversion Articles 28 Apr 1996

If you want copies of any of the articles listed below, reply with the ones you need. I will quote you the charge for copying & mailing (varies greatly w/ nr pages). Payable in advance.

73, Mike, K2ENN/6

From long out of print "Surplus Radio Conversion Manual" Vol. 1&2, by R.C. Evenson & O.R. Beach. Vol 1 Third Ed. 1960, Vol 2 First Ed. 1948.

WWII Surplus Conversion Articles

VOLUME 1

BC-221 Frequency Meter

BC-342 Receiver

BC-312 Receiver

BC-348 Receiver

BC-412 Radar Oscilloscope

BC645 Transmitter/Receiver (420 Mc)

BC-946B Receiver (Conversion to Auto Receiver)

SCR-274N Transmitters, 457A Series (Conversion to VFO)

SCR-522 Transmitters, BC-625 (2 Meters)

SCR-522 Receiver, BC-624 (2 Meters)

TBY Transceiver (10 and 6 Meters)

PE-103 Dynamotor

BC-168A/1161A Receiver (2 Meters)

Electronic Surplus Index

Cross Index of A/N Tubes Versus Commercial Types

VOLUME 2

BC-454 or ARC-5 Receivers, Conversion to 28 Mc
BC-457 or ARC-5 Transmitters, Conversion to 28 Mc
AN/APS-13 Transmitter/Receiver, to 420 Mc
Selenium-Rect. Selenium Rectifier Power Units
ARC-5 VHF Transmitter/Receiver, Operation
GO-9/TBW Transmitter, Conversion include. 28 Mc
BC-357 Marker Receiver, to Capacity Relay
BC-946B Receiver to High-Fidelity Tuner
BC-375 Transmitter, Use with Ext. V.F.O.
TA-12B Transmitter Conversion, also TA-12C
AN/ART-13 Transmitter to A-C power and 28 Mc
Coil Data Simplified Winding Charts
AVT-112A Transmitter for Light Aircraft
AM-26/AIC Interphone Amplifier to 9-Watt Amp.
LM Frequency Meter
Rotators Surplus Beam Rotating Mechanisms
Power Chart Primary Power Requirements Chart
ARB Receiver, Diagram only.

Subject: Headphone (tinsel) cord source!

Those needing authentic tinsel cords for keys, old headphones, etc should
Phoneco, Inc.
207 East Mill Road
PO Box 70
Galesville, WI 54630 608.582.4124 Phone 608.582.4593 FAX

This firm specializes in BA telephones and parts from the candlesticks to the 60s trimlines. In addition to phone cord sets of all types, they sell complete phones such as the 1940s and 50s Western Electric 300 and 500 series sets- y'all know, the ones you can slam the handset down to crack walnuts and far more "RFI proofable" than the consumer junk they're selling today (today's ham hint for all you AM operators)...bill wkleros@csn.net

Subject: Heathkit Manual IT-28 29 Oct 1995

>I just picked up an IT-28 and need the manual. Do you have an address
>for W7FG Manuals? The 800 number seems to be US only.

That hardly seems fair! But seriously, I suppose since the 800 number holder pays the bill, it's probably his prerogative to set limits. Oh well...

Gary's regular number is 918-333-7893 and his address is 3300 Wayside Drive, Bartlesville, OK 74006

73, Tony

Subject: Heathkit Paints

TWO possible Heath paint sources.

Just got my latest issue of the Collins Journal. There is an ad for Heath refinishing service. They might have the paint available. The ad was submitted by Ron, AB5WG 115 First Street, Sugar Land TX 77478 or (713-491-7823 after 6 PM CSDT.

Also in same issue THE HAMMARLUND MAN has Heath green. Robert Fowle, 1215 Winifred, Jackson, MI. 49202-1946 or 517-789-6721.

Also, would someone send to me Dave Knepper's e-mail address. He is the Collins Journal editor.

Thanks, Tim WA0TSY thaake@bsm2ee1.attmail.com

Subject: Heathkit parts availability 10 Feb 1996

- >I finally dove into my Heathkit SB400 last night to try and figure out
- >why 80M wasn't working. It didn't take much detective work to find the
- >plate tuning coil that was burned to a crisp. My question is where do
- >I find something like this and are they unique in style to the Heathkits?
- >The only identification I can find for it is #40-601 which I assume is a
- >Heathkit part number.

Heath Company still will sell parts and manuals if you can give them a correct part number.

Same with RL Drake. Drake will even refurb their equipment. There are companies such as Alabama Radio, Charles Talbott, K3ICH, and Ed Daihnault WA1LJY that do sometimes have parts.

Dave K4JRB Editor 1996 Amateur Radio Mail Order Catalog and Resource Directory, ARRL Order #5242.

From: spr@earthlink.net (Scott Robinson)

Subject: Heathkit Parts

Some Heath parts are still available. You can contact:

Heath Co.

Parts Dept.

P.O. Box 1288

Benton Harbour, Michigan 49023-1288 Phone (616) 925-5899

Jerry Proc VE3FAB Email: jproc@worldlinx.com

Subject: Help Wanted (Omron)

OMRON ELECTRONICS

708-843-7900 FAX 708-843-7787

1 E. COMMERCE DR

SCHAUMBURG, IL. 60173

OMRON MFG OF AMERICA

708-513-0400 FAX 708-513-1027

3705 OHIO AVE

SAINT CHARLES, IL. 60174

HOPE THIS HELPS CHARLIE N9SOR

Subject: HELP! INFO NEEDED ON C.E.I. EQUIPMENT

- >Does anyone out there have a catalogue from the mid-sixties from
- >a company called Communications Equipment Inc. (C.E.I.)? I am interested
- >in finding out more about their radios, products, prices, etc.
- >I am mildly interested in early Watkins-Johnson catalogues, but my main
- >interest is C.E.I.

CEI was bought out by Watkins-Johnson Co., and became the CEI Division at Gaithersburg. This division was merged with another division in the '80s to become the CET Division.

You might consider writing to W-J at the following address, telling them of your interest, and perhaps they can answer questions regarding the history of CEI. They used to have pretty good archives (I worked there in 1990).

The address is: Watkins-Johnson Co.

CET Division

700 Quince Orchard Road

Gaithersburg, MD 20878-1794 (301) 948-7550

73, Paul, K4MSG

Subject: Herbach and Rademan Phone Number and Address

H&R's phone number is 1-800-848-8001, and their address is 18 Canal St., PO Box 122, Bristol, PA 19007-0122.

I have CC'ed this to the BA list because even though they don't have BA stuff, they have stuff BA type folks would like. Nice surplus catalog.

73, Ben BHall88620@aol.com

Subject: House of Color Follow-Up

The custom loaded spray paint I ordered to paint my CY-979A/URR (R-390A) cabinet arrived from the House of Color today. It'll be Thursday before I can do the job, but the color samples are identical to the chips off the cabinet. If you recall, I told them that my cabinet was made by Andrews, Inc., in Philadelphia, and they had the color in their database.

They are changing their company name to Northwest Paint and Supplies and their toll free phone number is 800-742-2535 and their FAX number is 360-532-5209.

A catalogue was included and it's amazing. Here are some specific colors available in spray cans:

Green #23 (WWII USMC San Diego)

Flat Olive Drab (WWII US Armed Forces 1944-45, (3-173))

Gloss Olive Drab (Ft Meyer Motor Pool)

Cremeweiss (WWII German panzer interior)

And so on...

They have specialized finishes too, like a prep and paint for vinyl and plastic prep and primer. As I've said before, they are used to dealing with folks who are restoring military equipment, so they understand the problems. If you're going to do some homebrew refinishing, these folks might be able to help with good advice in addition to exactly what color match you are looking for..

73, Tony K4KYO

Subject: HQ-145 dial covers and clock scales 11 Jul 1996

Below I have appended the list of dial scale and (in one case) dial cover suppliers I have discovered over the last couple of years. I expect one or more of them can furnish these things. Good hunting!

You're out of luck on the dial bezel, at least for the present. **HOWEVER**, the dial scale is probably available from

The address now is:

Clinton Blais

Antique Radio Restorations

109 S. Oak St.

O'Fallon, IL 62269-2000 Telephone is: (618) 632-7423 or -6423.

He makes the most terrific dial scale reproductions that are possible. He has probably reproduced the one you want. He is making parts for Zenith shutter dials. He also makes many Philco, RCA, and Zenith dial scales, and all of his stuff is superb.

The only plastic work I know of Doyle doing is dial lenses. He advertises in ER and/or ARC, and can be reached at:

Doyle Roberts

HC63, Box 236-1

Clinton, AR 72031 501.745.6690

Two more places (near San Francisco):

Retro-Repro

(510) 862-0419

Bob Malin

56-7 Drysdale Drive

San Jose CA 95124 (408) 267-1396

I have drum overlays for the Collins 51J series. They are printed on buff colored adhesive backed paper. Bands 2 & 3 are red. J-1 and J-2 have the ham bands indicated with a green bar. Band alignment is near perfect.

Ron Hankins rh8421@gate.net

Painted glass dials and other painted dials:

Don Patterson

636 Cambridge Road

Augusta GA 30909 (706) 738-7227 voice (706) 721-9197 fax

Regards, Scott Robinson spr@earthlink.net

Subject: Inexpensive classic radio books

Gang - Just received a book catalog from Lindsay Publications. Incredible - simply incredible. They, like Dover, take out-of-print classics and reprint them at very cheap prices (again, just like Dover). Here's a list of their classic radio books:

HAMMARLUND SHORTWAVE MANUAL - 3RD ED. This contains 12 SW rcvr plans from the Hammarlund radio parts company. 32p, no.4937, \$4.95

1001 RADIO QUESTIONS AND ANSWERS - 1926. From Radio News Magazine, their best questions to the editors. 96p, no.21001, \$8.95

OFFICIAL 1934 SHORT WAVE RADIO MANUAL, by Hugo Gernsback and HW Secor, with new chapter by TJ Lindsay. Circuit diagrams of simple high-performance SW rcvrs of the 20s and 30s, plus info of manufactured rcvrs of 1934 (SW-58, SW-56 'Thrill Box', deForest KR-1, Hammarlund 'Comet Pro', and more). Lindsey says "Best old time radio book I've ever seen." 260p, no.4643, \$15.95

POPULAR RADIO HANDBOOK NO.1 - HOW TO BUILD YOUR RADIO RECEIVER. 1924 Popular Radio magazine articles. "Technological history! Early radio at its best." 104p, no.20951, \$8.95

WIRELESS EXPERIMENTER'S MANUAL, Elmer E. Bucher. 1920 construction manual. 350p, no.20854, \$13.95

HENLEY'S 222 RADIO CIRCUIT DESIGNS. Spark, CW, AM, super regens, too much to write about. "Relive the days of radio when circuits were simple and components were hot and heavy. Absolutely great circuit book!" 271p, no.20323, \$11.95

VACUUM TUBES IN WIRELESS COMMUNICATION, by Elmer Bucher. Over 140 circuits. Handbook of 1919. "This is a great collection of very unusual radio history..." 208p, no.20412, \$12.95

THE HOWS AND WHY OF RADIO APPARATUS, by HW Secor. 1922. Radio parts, spark gaps, direct-reading wave meter, too much to write about. 160p, no.21133, \$8.95 (yes, that's \$8.95!) Not classic books but still of interest:

BUILD A UNIVERSAL COIL WINDING MACHINE. 24p, 386, \$8.95

RADIOS THAT WORK FOR FREE. Crystal sets. 138p, no.314, \$9.95

CRYSTAL SET HANDBOOK. Reprints from the Crystal Set Society. Also, Volumes 2, 3, and 4, of the CSS newsletter.

70 YEARS OF RADIO TUBES AND VALVES - A GUIDE FOR ELECTRONIC ENGINEERS,

HISTORIANS, AND COLLECTORS, by John Stokes. 247p, no.3024, \$25.95

EXPLODING WIRES - PRINCIPLES, APARATUS AND EXPERIMENTS. How to vaporize foil and wires in a blinding flash accompanied with a sonic shock wave (no joke!). 11p, no.3006, \$7.95

Lindsay Publications Inc

PO Box 538 Bradley IL 60915-0538

815-935-0538 Fax: 815-935-5477

Jeff NH6IL

Subject: International Crystal

>From the RF Design Product Directory:

International Crystal Manufacturing

PO Box 26330

Oklahoma City, OK 73126-0330 800-725-1426

I got my Drake WARC crystals from these guys. They had the specs on hand; I just gave them the frequency. Took about 3-4 weeks, like they told me right up front.

John

Subject: Isoplethics

Just thought I'd drop a quick note about a fine source of BA-type parts; I have ordered a nice 6/36:1 Jackson Brothers vernier dial (similar to a National ICN by description) from Isoplethics in the UK; while the dial hasn't arrived yet (soon I hope!), they sent a few Jackson Brothers catalogs and a price list for customers outside the EU.

Very nice stuff--the classic 4489/C dial and drive (similar to a National AM, though the dial is flat and may be reversed for a customer-applied custom scale *and* it includes a hairline cursor which the AM lacked and needed) is about US\$29 including shipping, and a *wide* variety of good variable condensers, at prices ranging from some nice small receiving-type & bandspread caps (approx US\$10) up to 2-3kV transmitting types (~US\$23), and for the VLF/wide-range transmatch fan, how about a 4-gang, 532pF per section

variable? It's not cheap (US\$70), but it sure beats not being able to find one when you really need it!

Some Jackson Bros. parts are available in the US, most notably from Radiokit (who could use the business--P.O. Box 973; Pelham NH 03076); but if they don't have it, Isoplethics (13, Greenway Close; North Walsham; Norfolk NR28 0DE; UK) is certainly the outfit to look to! Nice motto, too: "Real Radio Resources."

73, --Bobbi

Subject: Jackson Bros. vernier

The Jackson Brothers 6/36:1 vernier drive and dial arrived last week from Isoplethics in the UK; I'd been meaning to make a short report but hadn't got round to it.

First, neither the Royal Mail nor the US Postal Service managed to smash it--looks like they didn't even try! (An off day for them, perhaps?)

Second, it's **very** nice. Rather than a "pop-out" gearshift as seen in some dual-ratio drives, or two concentric knobs, JB uses a split-fork arrangement, which allows about 11 divisions of 36:1, and then engages the 6:1 drive. So large excursions call up the coarser ratio, you zoom across the band, and then back up to interesting signals at the fine ratio. Not a bad system!

The scale is good, very like the middle-sized of National's -CN series. Like them, JB provides two scale cards, each with three blank arcs and a 0-100 calibrated arc. (As a general rule, make copies and file them somewhere--you'll need them eventually).

It doesn't come with a knob! When they say "drive and dial," they mean it. (I half-expected that; the '71 edition of ARRL's "How To Become A Radio Amateur" features a receiver that uses this mechanism, and it's clearly got a user-supplied knob). Since the shaft is a garden-variety 1/4", it's not a problem.

Overall fit & finish is excellent.

Both this unit (4103/A) and Jackson Brothers 4489/C, which is a round-scale drive & dial assembly supplied with a 2.25" knob, similar to the National AM are well-suited to BA projects. They also offer a wide range of drives in addition to the 6:1 unit most often seen, including some boatanchorish anti-backlash gear drives offering up to 125:1 ratios.

It's good to know such things are still available off-the-shelf! They're: not cheap--both of the dial & drives cited above are approximately US\$30--but they're well worth it.

73, --Bobbi

Subject: Johnson Paint

The fellow listed below was selling spray cans of Johnson maroon paint at Dayton this year. A friend of mine bought one and it gives a very good match to the dark maroon. I think he was getting about \$10 per can.

Kim Herron

16141 24th Av

Coopersville, MI 49404 616-677-3706

73 Emil

Subject: JW Miller Coils 21 Sep 1995

>Anybody know where I can get JW Miller parts? Is there someone with a stock? I need slug tuned inductors

J.W. Miller Division /Bell Industries

19070 Reyes Ave

P.O.Box 5825

Rancho Dominguez, CA 90224 1-310-515-1720

Ask for Catalog's. 73 Jim K4CGY

Subject: JW Miller Coils

I have their catalog in my hands: Call 310 515 1720 and I am sure they can point you to the nearest distributor

73/john wb5oauR

Subject: Powdered Iron coil cores

Try Micrometals in CA (1-800-356-5977). They make powdered iron cores and slugs and may be able to help. I don't know if they supply metric threaded cores, but they might be able to tell you how to machine blank cores to the proper size.

73, John WA1HNL

Subject: Lafayette Manuals Source/Heath also! 18 Mar 1996

Here is address for The Lafayette Manual Man:

Pete Markavage

27 Walling St.

Sayreville, NJ 08872 (908)238-8964

Pete sez "If I don't have it...they never printed it"

His list is strong also on Heathkit, Clegg. Pretty good on National, Kenwood and the usual suspects. Cheaper than Gary, no fancy cover

List free with SASE

Subject: LC Connectors

If you are really desperate for those type LC connectors, they are listed in the Pasternack Enterprises Catalog for an outlandish price. Model No. PE4192 LC Female Panel Mount connectors run \$44.95, 1-24. Model PE4323 LC Male, Clamp attachment for RG-218, RG-219 Series Coax sells for \$145 in 1-24 quantities. Pasternack has a \$100 minimum order. (Other things there are more reasonable, like Model PE4010 BNC Female Panel Receptacle, \$2.95, 1-24.)

They are:

Pasternack Enterprises

PO Box 16759

Irvine, CA 92713-6759

Phone 714-261-1920 FAX 714-261-7451

Jim, W8KGI

Subject: Library Loan of TM Manuals 12 Feb 1996

I was turned on to this process by Dr. Richard Bingham at Fort Monmouth. Ask your local liberrian if you can participate in the inter-library loan program. If the answer is yes, then just drop off the TM number with the library and wait 14 days. You will get your hot hands on just about whatever TM you may want to browse, copy, etc. (except keep).

Sort of a try it program. In my town, we can do it by phone.

73 de tom

Subject: Looking for ETE 14 Dec 1995

>I'm looking for ETE (Electron Tube Enterprises), a place in Vermont that sells tubes.

Electron Tube Enterprises

Box 8311

Essex, VT 05451 Phone: 802-879-0611 Fax: 802-879-7764

73, AI - N3FRQ

Subject: Loosening screws

>The following technique has worked well for me on both flat blade and

>Philips screwdrivers. Should work well with Allen wrenches.

> Dip the tip of the tool in valve-grinding compound,

> available at some auto parts houses. The grit pro-

> vides a lot of extra bite from the tool to the

> screw.

I'm not sure what the "active ingredient" is in the following but I have seen it sold at local hardware stores. Here's the description from MCM (hey, they sell tubes, too :-)

"Drive Grip"

"* Increases grip-strength between screwdriver and screw by 400%"

"* Used on all types of screws including Phillips, Allen, slotted, etc"

"* Reduces need for special screwdrivers"

"* Reduces fatigue"

"* Prevents slippage of driver"

Part #20-1365 and damage is \$4.29

Comes in what looks like a metal toothpaste tube. Made by ND Industries.

MCM contact info is:

MCM Electronics

650 Congress Park Drive

Centerville OH 45459-4072 +1-800-543-4330 +1-800-824-TECH (product questions)

+1-513-434-6959 (FAX)

Minimum \$20 (\$25 for charge cards, and they don't take personal checks), handling \$1.95 + shipping. Oriented toward repair technicians, really heavy on VCR parts and somewhat overpriced doodads, lots of useful stuff not easily found elsewhere.

Subject: Loosening screws

>Drive Grip"

>Increases grip-strength between screwdriver and screw by 400%"

I just recently (yesterday) picked up "Screw Medic" (and yes, I'll leave that one alone :-)
from Wal-Mart. \$1.94 for 1/2 oz - sounds like the same stuff.

Haven't tried it out yet...

THANKS & 73 de WB5KXH wier@bobcat.etsu.edu

Subject: Low Freq. GDO coils/Millen was: arcy sparky Hammarlund IF cans

>For Millen, low freq coils were available---you can wind your own or

>use an air core RF choke. A Colpitts oscillator uses a single untapped

>coil.

Has anyone had any correspondence with the "new" James Millen Electronics company located in Andover, MA? I sent them a FAX about 3-4 weeks ago inquiring whether they still had a particular low freq. coil for the Millen GDO and have never heard a response.

They occasionally have had ads in a few publications since about 1989 offering tube and ss dippers, spare 9002's and accessory coils.

I only have a PO Box address and telephone and Fax numbers for them. Tel: 508-975-2711 Fax: 508-474-8949

I'm in need of one of the coils--I have the others. It is the model 46704 which covers 325-600 KiloCYCLES. ...Yeah, I know, a pretty popular frequency is smack-dab in the middle.

If anyone out there has local access to those numbers, I'd like to know if they can be contacted and whether they still have that coil available. If any of you are hoarding an extra 46704 and want to give it a good home, I'm willing to adopt it!

Lynn, N8AJ -- lstolz@tekelec.com

Subject: Luminescent paint source

If anyone needs luminescent paint for restoring meters or dial/panel markings on BAs, I've found a company called 'Banaire' in Banning, CA that carries small cans of it. (They call it 'phosphorescent' paint. I honestly don't know if it glows on its own, or fluoresces under UV light.) It's military surplus, non-radioactive, and I believe it's the stuff used on aircraft gauges.

Half a pint costs \$16.95. They also sell mil-surplus plastic polishing compound for 'taking out' scratches on plastic windscreens and canopies of aircraft, which might be useful for meter covers. FWIW.

73, John Martin jmartin@hrlban1.aircrew.asu.edu

Subject: Manual & BA Source

Military Marketing Inc, Box 741, Norcross, GA 30091, run by Gene, Kd4YIZ, has listed a bunch of manuals in this week's SHOTGUN NEWS including:

TM 11-233

TM 11-235

TM 11-242

TM 11-281 (SCR-399 - BC-610, et al)

TM 11-289

TM 11-296

TM 11-300

TM 11-337

TM 11-611

TM 11-630

TM 11-703

They're all listed in VG to new condition. That's the good news. The bad news is that they ain't cheap. Gene has some good BA stuff from time to time. I got my unaltered BC-348 from him.

73, Tony K4KYO

Subject: Manual for KWM-2A?

I don't have an extra copy, but the military TM for the KWM-2A is TM 11-5820-554-34-3 and has most of what you need if you can find a copy.. try Fair Radio sales.

73 bill N5LMX

Subject: Manual Source

Just received a manual for my Tek 516 scope from Manuals Plus, Spanaway, WA.

They deal only in test equipment manuals from all the manufacturers. And no photocopies: if they got it, you get the real thing. It was shipped priority mail, and I had it 2 days after calling. The book is in good shape, as described. Phone 206 531-8031.

Richard N6NAE

Subject: Manual Sources

My favorite and most successful source for OLD test gear manuals and data is Alton Bowman, 4172 East Avenue, Canandaigua, NY 14424-9564. You should write with specific

requests and include an LSASE. His "catalog" which is also available for an LSASE is pretty incomplete... Most manuals are \$5- \$10 each.

For Tek and HP gear of more recent vintage (1950's-present) I don't think Manual Maseda can be beat. He has many original Tek manuals less than \$15.

I don't have a current address but his ad is in the Test Equipt section of every issue of Nuts & Volts.

Don, N3RHT 71333.144@compuserve.com

Subject: MANUALS

Per a lead found here on Boatanchors I called Manuals Plus for documentation on my Sierra Voltmeter. They had the original manual and sent it to me priority mail. Let me tell you that I have never been treated this well by any other manual supplier.

Manuals Plus

P.O. Box 937

Spanaway, WA 98387-0937 Telephone 206-531-8031 FAX 206-536-1121

Tim WA0TSY thaake@bsm2ee1.attmail.com

Subject: Manuals

Sorting through my books and came across "Vintage Manuals". Now, most of you probably know about this but for those that do not; try:

The Manual Man

Pete Markavage

27 Walling St.

Sayreville, NJ. 08872-1818 908-238-8964

I found what I needed and I noticed there is a manual for the R-390.

Richard

Subject: Manuals needed

The BEST source of high quality manual copies that I have found is Pete Markavage at the Manual Man. I have purchased 3 manual from him, and his copies are first class.

I have purchased copies from another popular service and was sent a lousy copy of a lousy copy. The pages were not centered, and no attempt was made to clean up the images. I received a refund, although I have to wonder why the product was sent out in the condition it was.

OTOH, Pete's copies were clearly off the original, with very clean and useable pictures.

If you have a choice, call Pete 908 238-8964

Subject: Manuals

Also have used this source:

Manuals for Amateur, Audio and test equipment.

P.O. box 110

East Rockaway, NY 11518 516-887-0057

Richard

Subject: Max Powell Surplus

In a recent posting by Don Whitty about Max Powell Surplus, I followed up and contacted him. He sells from both Florida and Newfoundland although the bulk of the business is done in Florida. Currently, he doesn't have a published inventory, but he's working on it. (If anyone is looking for a Loran receiver indicator, R-65/APN-9, then Max has it).

For anyone wishing to make enquiries, Max can be contacted in Florida at :

Phone (305) 745-2928 FAX (305) 745-9156

Jerry Proc VE3FAB E-mail: jproc@worldlinx.com

Subject: Meter Repair

A few days ago someone asked about meter repair. I've recently been in contact with a company that anyone with meter repair needs should know about:

Standard Meter Laboratory

236 Rickenbacker Circle

Livermore, CA 94550 Phone: 510-449-0220

I called for repair information on an old Simpson 260 I retrieved from a abandoned radio repair shop. They were willing to take it on, no sweat. My earlier contact with them was in the 80s when they were located in San Francisco. I brought them the rudder position meter from the Greenpeace ship Rainbow Warrior (the one later blown up by the French). Not only was the meter old, it was English to boot. "No problem, we'll have it for you within the week." And they did.

I trust they have kept that same standard of capability. I'll let you know what they say about the Simpson, which was the victim of the dreaded leaking battery syndrome.

Dick Dillman WPE2VT N6VS ex-WA2BJK <ddillman@igc.apc.org>

Subject: Mic Connectors [was SBE-34]

Several have asked for a source/who makes the small phone plug used by Collins, Drake, Halli, SBE, et al. Switchcraft still makes that item and it's 90 degree offset brother [used on a Drake TR-3/4 series radio] I purchase them locally, even though I have to order them. They are listed in Allied electronics [I think] or possibly Mouser. They are the 1/4 inch phone plug number preceded by an S [S-260 for example]. They are, however, not cheap. I presume that's why many radios with them get converted to 1/4" plugs and jacks. You might check with any local supplier that handles Switchcraft and see if they can order them for you. they are listed in Switchcraft's general line catalog. They are the .206 dia. plug and jack, even though they are grouped with 1/4" stock.

KIM

Subject: Mil-Commercial RX Xref

Raymond Cote asked about cross-referencing military numbers with commercial receiver types. AWA published such a list about 3 years ago. If you send me a simple #10 SASE, I will send you a copy.

My address is Don Merz, 47 Hazel Drive, Mt. Lebanon, PA 15228.

Don, N3RHT 71333.144@compuserve.com

Subject: Military BA Paint Source

I've bragged on how nice the folks at House of Color (423 West Market Street, Aberdeen, WA, 98520, 206-532-5242) were before. I have more.

After discovering that the auto paint shop wanted \$175 to paint my R-390 cabinet (CY0979A), I started shopping for spray cans. I called the HOC and tried to describe the color and they were giving me example colors like US Navy gray - Pearl Harbor, US Navy gray - Jacksonville, etc. I casually mentioned that the cabinet was made by Andrews, Inc., in Philadelphia. Guess what, they had Andrews colors on file and for \$9.50 each, they are custom-loading spray cans for me! (Minimum order is 3 cans for custom loading.) Can you believe it? Wow!

73, Tony K4KYO

Subject: More Sources for BAers

Fertik's Electronics

5400 Ella St.

Philadelphia, Pa 19120 215-455-2121

This place has an amazing variety of stuff including BA test equip. manuals. He has tubes but no 1L6s.

D.N.F.

6690 7 mile rd.

So. Lyon, Mi. 48178 313-437-1063

A great mixture of stuff including tubes. They have answering machine but I seem to get better results from inquiries by mail.

Cornell Electronics Co.

4217 University Ave.

San Diego, Ca 92105 619-281-9792

Tubes. Pretty pricey but they have a list of 89 cent tubes (they have \$.89 6AG7s). Worthwhile!

Each place has a catalog which you can get on request. I have no interest in these places other than being a satisfied buyer of some good stuff.

73 de Pete WA5JCI

Subject: National NC-120 manuals needed

An ad in ATR for national. i have delt with max before, he is very nice and has an excellent selection on National. He was at one time one of the biggest National distributors.

ad:

National Radio manuals and selected NCL-2000 parts. List SASE:

Maximillan Fuchs, KA1OC

11 Plymouth lane

Swampscott MA. 01907

if you call information for swampscott ma, you can get his phone number. all are copies, with a few originals left. (the last i talked to him)

robert

Subject: Neat source

I thought I'd post the neat place that I came up with that '44 Handbook:

The Antique Lover

RT 30 - Mayfield, N.Y 12117

518-661-6424

Dick and Terry Peters

Dick is a ham and BA collector. I also picked up '52, '54, '61, '68, '70 Handbooks; Supreme Publishing's MOST OFTEN NEEDED RADIO DIAGRAMS 1926-38 and 1942; a GE TECH MANUAL (Metal and Glass Type Receiving Tubes), and the Receiving Tube Substitution Guide Book (1st Edition) by H.A. Middleton, Rider Publishing, 1950. The last is a *real* gem; it not only gives you plug compatible substitutions, but tells you how to rewire a socket to use a similar but differently pinned tube! Sorry, no Alfred Morgan; Dick even checked his personal library for me!

Mayfield is in Upstate New York, and those of us who have lived in Syracuse and Utica do not bandy that term about lightly. (Sorry, New York City, Westchester County *does not* qualify!) Dick is located about 40 minutes north of the Amsterdam Thruway exit. He is an old time gent, and frequently has old radio magazines and service manuals. (He was reading a 1937 Popular Mechanics when I came in the door, so that will give you a feel...)

I spotted a big box Simpson VTVM with 1" diameter probe, several 1940's broadcast table radios, some boy's radio stories, and a "frequently needed" TV schematic collection as well.

John

Subject: New Zenith and kudos for Alan Jesperson

Today we received a beautifully restored Zenith 12-tube chairside from Alan Jesperson at Great Northern in Minneapolis, MN. Alan had discussed the set with my wife (who bought it for me for Father's Day), and had sent pictures that showed a very nicely restored set. When the radio arrived and we removed the cocoon of cardboard and bubble wrap, it turned out that he had performed additional restoration that made it as close to new as possible...a really beautiful job.

Alan shipped the radio in two packages, having removed and separately packed the chassis to prevent its rattling around in the cabinet. The chassis, while not perfectly recapped (caps hang by wires and the like -- NOT done by Alan!), was exactly as he described it. The radio works beautifully...I have a nice winter's weekend worth of work to clean things up (half the fun, eh?).

BTW, Alan shipped the radio via Delta air freight from Minneapolis to San Francisco overnight. This 68#, two-box shipment cost only \$58 and a short ride to SFO. This has to be the best deal around, and because of the minimum handling, guarantees the best chance of arrival in as-shipped condition.

I thought I'd let y'all know that Alan and his cohorts at Great Northern are highly recommended and should be consulted if you're looking for quality Zenith, RCA, and other nice old radios. They can be contacted at PO Box 17338, Minneapolis, MN 55417. Phone +612.727.2489, 0800-2000 CST. The usual disclaimers apply.

Walt Novinger waltn@earthlink.net wnovinger@shl.com CI\$: 73340,2015

Subject: Nixie Sockets

Lee Gleason asked about unusual sockets for Nixie tubes.

If all else fails, you might try what I have done in the past... I used my printed circuit CAD program to lay out the hole patterns as defined by the JEDEC standards (which may not apply to Nixies). I then used miniature IC socket pins in the holes to make the custom sockets.

The Mill-Max Preci-Dip pins are now stocked by Digi-Key. About \$1 per 10 pins is unfortunately about as cheap as these get.

If anyone is interested, I have a copy of the full JEDEC outlines for all standard tube sizes.

73, Barry WA4VZQ_ornitz@eastman.com

Subject: NTIS/ Govt manuals

Well.. curiosity got the best of me so Wednesday I sent a fax to NTIS trying to buy TM 11 5820 529 15 (KWM2a). Try to imagine my reaction to a fax today that wouldn't shut off for a three item request. 8 pages later.... here is a condensation of that fax.

The above manual is NLA. It has been replaced by at least 20 manuals. Talk about paperwork reduction in reverse. Anyway, the KWM2A is the RT718 part of the FRC 93 "system". The key manual is now TM 11 5820 554 34 3 DIRECT SUPPORT AND GENERAL SUPPORT MAINTNEANCE MANUAL: RECEIVER TRANSMITTER, RADIO RT 718/FRC (COLLINS KWM2/2A NSN 5820 00 082 4080) (52 pages) and, as previously mentioned in posts to BA's, Restricted distribution--- ie we can't buy it!

However, the depot manual for the 30L1 is still available! (Govt wisdom). This manual is TM 11 5820 554 1 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE FOR THE AMPLIFIER, RADIO FREQUENCY AMPLIFIER COLLINS MODEL 30L1 (NSN 5820 00 082 4081) \$17.50

Though one cannot buy the RT 718 manual, the system FRC 93 manual is available for \$27 and is 161 pages. "OPERATORS AND ORGANIZATIONAL MAINTENANCE MANUAL: RADIO SET AN/FRC 93(V)1.....V2,V3,V4,V5,V6,V7.

All other manuals are available from the power supplies (several), ant couplers, Waters rejection, etc. If one is really interested, just send the fax request to 703 487 4841 and request the price of the top mentioned manual that is NLA. YOU get the big picture after that one with all the

current info.

I also requested the availability of the Navy R-1051B manual and it came back saying to call NPFC at 215 697 3217.

Finally, about two years ago I bought the TRD15 system of direction finding TM 11 5825 231 24 because it is the only source of a manual for the R725. Remembering that the 725 was the NSA R390A with the older 390 6 can IF strip, it probably hasn't been used in a few years. Imagine my suprise when that is now RESTRICTED! This TM only contains about 5 pages on anything useful on the R-725 and always refers to the 390 and 390A manuals for the good stuff. Any ideas-- maybe Saddam is trying to buy it?

I hope this didn't ramble on too long but I thought it might be interesting. Lastly, I intend on sending a letter the Secretary of the Army requesting help in obtaining this manual. I think it is a little absurd to be selling boatloads of the unit for surplus and keep the manual on restricted status.

Wait about 6-12 months and I'll post an answer to that one if they ever respond. Its so much fun dealing with the government. I intend on stating something in the letter like... "before I contact my Congressman, can you forward this to the person in charge?" Thats always an attention getter to govt types.

73's dave metzd@cfw.com

Subject: Our tax dollars at work!

I asked Larry Mills ("our man at NTIS" - lmills@ntis.fedworld.gov) to run a search on TV-2 manuals. He faxed me back a list within 30 minutes! Here's the info:

TM 11-6625-316-12 "Operator's and Organizational Maintenance Manual: Test Sets, Electron Tube, TV-2/U, TV-2A/U, TV-2B/U and TV-2C/U (Reprinted w/ basic incl C2-3)" \$19.50

TM 11-6625-316-35 "Field and Depot Maintenance Manual for Test Sets, Electron Tube, TV-2/U, TV-2A/U, TV-2B/U and TV-2C/U {To 33A21-4-12} (Reprinted w/ basic incl C1)" \$19.50

TM 11-6625-316-20P "Organizational Maintenance Repair Parts and Special Tools List for Electron Tube Test Sets, TV-2/U, TV-2A/U, TV-2B/U and TV-2C/U (FSN 6625-669-0263)" \$9.00

TM 11-6625-316-34P "Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools): Electron Tube Test Sets, TV-2/U, TV-2A/U, TV-2B/U and TV-2C/U (FSN 6625-669-0263)" \$27.00

Steve Byan internet: steve@hi.com

Subject: Overseas manuals/schematics

There where some postings a few weeks ago for schematics / manuals for some British and Canadian military radio sets. I have a couple of sources that might yield what your

looking for. These came out of a British bi-monthly publication that deals with older BA type sets. It's called Radio Bygones:

Savoy Hill Publications

Seven Ash Cottage

Seven Ash

Combe Martin

North Devon EX34 OPA

England

Mauritron Technical Services

8 Cherry Tree Road

Chinnor

Oxon OX9 4QY

England

Here is a advert for a place that claims it's a "Ex WW2 Aladdins Cave" of WW2 equipt. with "thousands of plugs and sockets for all types of radio equipt. used in aircraft".

Methodical Enginners Limited

Manor Trading Estate

4 / 6 Armstrong Road

Benfleet

Essex SS7 4PW

England

Hope this might be of some help to those working on overseas gear.

Paul N6FEG Paul.Thekan@pgtp.varian.com

Subject: Panel corrosion

J.C.Whitney catalog carries a rust converter liquid that turns iron oxide into iron phosphate which is impervious to oxygen. Just wire brush away any dirt and loose scale but don't clean down to bare metal. It goes on milky white and dries flat black. It can be painted over. I did my whole truck frame with it and it really works. Try it, it comes in pint bottles and doesn't cost much.

73 Gary N9ZSV gpewitt@execpc.com for the headerless.

Subject: Panel Refinishing

Received my freshly refinished SP600 panel via UPS today. The refinishing was done by Ron Eisenbrey (AB5WG) in Sugarland, TX. ((713) 491-7823 after 6 PM CDSI.)

All I can say is that it is ABSOLUTELEY STUNNINGLY gorgeous. Perfect, flawless, first class work. This is your basic plug -- Ron does professional quality work.

I set the panel up against the freshly refinished cabinet and have been just sitting here staring at it, marvelling at how that "grungy old radio" (quoting my wife) is going to be a real live make-'em-envious eye-popper when its all back together. Even my wife was impressed with the overall result -- and that's the highest compliment the work can get, considering her general attitude of totally ignoring all the radio stuff :-). At least as good (and probably better) looking than the day it walked out of the Hammarlund plant 10 those many years ago.

Grant Youngman -- NQ5T gyoungma@gtetel.com

Subject: Parts source

Although a lot of his small parts are prone to EMP's (Dan's Small Parts & Kits, Box 3634, Missoula, Montana 59806-3634, 1-406-258-2782), some of his stuff might be useful to BAers or homebrewers. He has Jackson Bros. ball drives, shaft couplers, coil forms, variable caps and a lot more, all at a reasonable rate.

No connection here, other than being a satisfied customer.

73 de Pete WA5JCI

Subject: Parts Sources

New source:

M.P.Jones & Assoc.

P.O Box 12685

Lake Park FL 33403 1-800-652-6733

Catalog 96-3 BA stuff:

p.65 Knobs. Very convincing knockoffs of Hammarlund, RCA broadcast/AR/ACR, Collins *spinner*(7504-KN), R390 diallock(7502-KN), also Waldom, also originals.

p.23-27 Fans out the Kazoo, cool those 811as in the KWM/30L1!

p.20-21 Toroids dakine cheap also 30A EMI filter, clamshells,hashp. 19 Isolation xfrms, filament, 600ohm line,

p. 98-100 RF connectors, cross-series adapters (N to IEEE-1284?)

p.86-87 excellent small cap+trim listingp.85 metallic film and power resist

p.77 couple good BA 'S' meter

p.68 EMI braid- Harris Engineers take note

p.46 running time meter cheap

p.35 Reed Switches (rotator, Heathstuff)

Oops...Electric Radio just arrived..gotta QSY...

Jim Dillon

Subject: Parts Suppliers, Mail Order

>I have used Mouser many times for BA and non-BA projects, and I have

>always had good service. The catalog seems to be free, and is updated
>every quarter.

I want to second that statement. Mouser will even provide technical help on their 800 number. Orders have always been shipped the same day to me and there is no Minimum order!

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

Subject: Petersen Radio

O.K. I knew if I shoveled, i mean looked, deep enough I would find it: Petersen Radio, 2735 Avenue 'A', Council Bluffs, Iowa 51501 712-323-7539. Amateur xtals \$8.00 and in Z-17 (HC-17/U) \$8.50. (+postage) I remember buying Petersen xtals in the fifties. Orange label and only a couple of bucks.

Subject: Phone number for Eimac

>Has anybody got a current address and phone number for Eimac? My catalogue
>is dated 1973 so that address might just be Mercury Parcel Service today.

Varian

power grid & x-ray tube products

301 Industrial Way

San Carlos, CA 94070-2682 1-800-544-4636 (from 1-800 information, I did not verify)

Sean McCarthy, WX8L wx8l@vtc.tacom.army.mil

Subject: Pomona

Pomona Electronics

1500 E. Ninth Street

P.O. Box 1767

Pomona, CA 91769 (714)623-3463

In 1991 catalog, tube socket adapters were

TVS-7 \$15.70

TVS-8 \$20.05

TVS-9 \$18.30

Subject: QCWA has 1930' s Logbooks for sale 12 Jul 1995

>I don't have their national office adr. with me at work, but they have
>the reproductions of old ARRL Logs for sale. I think it was a bit more
>than the new ARRL log however! Nostalgia comes at a price!

You can reach the QCWA's web page at: <http://www.efn.org/~qcwa>

Subject: Rack rails for R390A?

THE RAILS YOU SEEK CAN BE HAD FROM :

Premier Metal Products

East coast 718-993-9200 West coast 909-829-3089

Ask them to send you their catalog. Price is anywhere from 14.58pr to 20.66pr in actuality you will use either the 14.58 or 15.77pr

CSA-16 14.58 PR 14.25" long fit to 18" deep

CSA-18 15.77 PR 16.25" long fit to 18" deep

This company made all the cabinets for Hammarlund. They just about any hardware for rack systems you'd want..

Robert

Subject: Radio Recyclers

I saw a couple of things at Radio Recyclers (414)771-7121 in Milwaukee:

Radio Recyclers

7730 W. National Ave.

West Allis, WI 53214 (414)771-7121 MTWF: 10-5 Sat: 10-3

Voice mail type answering machine that has updated listings of equipment for sale by category (ie HF, VHF/UHF, HTs, etc). BTW, he also has a big stock of NOS parts: tubes, inductors, odds & ends, etc.

73 de Dennis, N9VSL/aa

Subject: Seattle/Portland BAs

>Any good places to look for BAs in the Seattle to Portland corridor?

There are a couple of worthwhile places to visit in Portland, but I don't know about Seattle or places in between:

R5-D3 Electronic Surplus

6111 S.E. 82nd Avenue

Portland, OR (503) 774-6560

Cascade Surplus Electronics

8221 North Denver

Portland, OR (503) 285-0832

Wacky Willy's Surplus (two locations)

417 S.E. 11th

Portland, OR (503) 234-6864

and

Wacky Willy's Surplus

2900 S.W. 219th Avenue
Hillsboro, OR (503) 642-5111

Just thought of one more in Tacoma, WA, but I have never been there so I don't know what you might find:

Electronic Dimensions
424 Puyallup Avenue
Tacoma, WA 98421 (206) 272-1061 Hours: W-F 10-6, Sat 10-3
Stan W7NI@teleport.com

Subject: Seattle/Portland BAs

Here's my list:

In PDX the standard venues are:

1. Ham Radio Equipment - 590-4736 10-5 Tues-Sat

In Tigard (western burbs - 30 min from downtown)

A fellow who has used ham gear. Runs out of his garage, but is a professional business. Mostly later model, but the guy likes Collins and frequently there are some choice items. Equipment always excellent condition, price fair for condition.

2. Radar Electronics - 232-3404

704 SE Washington.

A retail/wholesale commercial industrial supplier. Also in Seattle. New, expensive retail but they have a very large collection of new excess stock of parts, and a few scrap chassis at very good prices. You can browse the excess stock - it is self-serve. Great for capacitors, connectors and small hardware.

3. Al Smith Company - 234-7877, 800-542-7877

3422 N.E. Halsey, Portland, OR 97232

Funky, weird place - nice fellow runs it out of his home. Literally you walk through the living room and kitchen to get stuff. Dunno how they stay in business, really, considering the limited stock. But they have a pretty good collection of n.o.s. - especially capacitors, old semiconductors, and tubes. Good prices.

Randy Zelick

Subject: Sherwood Engineering

In June of this year, I wrote a letter to Bob Sherwood and requested information regarding the availability of parts for the R4C. I received a current catalog in return.

Sherwood Engineering

1268 South Ogden Street

Denver, CO 80210 (303) 722-2257 9:00AM - 5:00 PM Monday-Friday

Fax (303) 744-8876 (Full time service)

600Hz 6-Pole 1st IF

Custom front panel switch& custom AF/RF gain knob set

250 Hz 2nd IF filter

Several "Front End" antenna filters

FS-4 Interface circuit

T-7C transformer mod.

R4C Audio amplifier mod.

Solid State 3rd mixer

R-4C Product detector

R4C Power Supply improvement kit

"NO COMPROMISE" Mobile antenna systems

7 Line 2nd IF filters

2200 and 2700 Hz 8-Pole SSB filters for the Atlas rigs.

SE-3 High-Fidelity Phase-Locked AM Product Detector

JRC Radio distributor.

Also has prices for SERVICE and MODIFICATION installations in the R4C's.

Sounds to me like he's still in business

Mike Stover, KB9VU

Subject: Ship Shape & Bristol Fashion

>A while ago I believe there was a discussion in these pages about

>where to obtain the Bristol (spline) wrenches necessary for the

>R-390A. I didn't pay attention then, not being a '390 owner at the

>time, but one of these beauties now graces my radio room. Can

>someone please advise me what size wrenches I should add to my tool

>kit and where I might find them? Right now all I need to do is

>tighten up a front panel knob.

Bristol wrenches and other weird tools can be ordered from

Ames Supply Co.

2537 Curtiss St

Downers Grove, Il 60515

Call them for a catalog or an order at 1-800-323-3856. They carry something that all us mechanics should have and that is the little know **G A S L I N E P L I E R S**. These have been invaluable to me in the past. They will grip anything. Cost is about \$15 but certainly worth it.

This company used to be the biggest supplier of typewriter repair tools. I manage the department here at this bank that services computers and formerly typewriters. My, how things change!! Just read in this mornings paper how Smith Chrona had declared bankruptcy.

73 Steve n4lq@iglou.com

Subject: Sidney Arotsky & Aircraft Radio Industries, Inc.

I talked to Sidney and found that he has gone out of business -- the profit/loss equation switched sign and he had to get out after 51 years. He is currently negotiating with a New York company (Avitronic Associates, of Mount Vernon) to buy the inventory. Although he's out of business, he said that phone calls should have been routed to his home phone: (203) 933-6559. He is willing to take calls, and can at least tell you if what you wanted was in the building. He didn't have the Avitronic phone number when I called, but may have it handy at home in a day or so.

He mentioned that he does have a complete AN/CRT-3 (later version Gibson Girl), complete with all accessories, in his basement at home. Didn't ask how much he wants for it, but you can call if interested. I think he also has a spare transmitter (no accessories).

Apparently, Avitronic Assoc. covers the entire airframe, etc., so it is broader in scope than Sidney's business which was electronics only. The owner is a "nice young man who has taken over his parents' business and trying very hard to make a go of it". I believe his name is Philip (didn't get the last name).

73.....Ray Mote, W6RIC <rmote@rain.org>

Subject: Small Parts Inc. - Phone Number

- >Another alternate would be to get hold of the "Small Parts
- >Inc." catalog. These folks have a vast selection of specialty hardware in both
- >SAE and Metric. They have a \$15.00
- >minimum order which isn't that bad really. They also have a big selection of
- >small gears, rack and pinions, pulleys, couplers (have you tried finding new
- >1/4" shaft couplers lately?), flexiable shafts and universal joints. Their
- >catalog should be on every BA's refurbishers shelf.

I did get the new number for Small Parts which is (305) 751-0856. I called and confirmed that this one is indeed for them. So those of you who want a catalog can now request one.

73 Don N900 d.buska@aaiate.com

Subject: Snappy Crackle (Pop!) Finishes

Go to any Harley Davison Motorcycle Shop and ask for a spray can of wrinkle finish paint. Motorcyclists use this stuff on their manifolds, etc. Readily available.

Dave, W3BJZ

Subject: Source for boatanchor manuals

The source for copies of Hallicrafters manuals is

Ardco Electronics P.O.
Box 95, Berwyn, IL 60402
73, Bruce WD9GHK haffner@mcs.com

Subject: Source for Crystals

>I'm seeking a source for crystals to add the WARC bands to my Drake
>T4XC/R4C. Anyone have a phone number or address for a suitable vendor?

Try:

JAN Crystals
2341 Crystal Drive
Ft. Meyers, FL 60017 813-936-2397

I ordered WARC xtals for a Drake 2B and they still have all of the records for older equipment. Had them in about 2 weeks.

73, Dave N7RK davidh@getnet.com

Subject: Source for Instrument Lacquer

Possibly the best known manufacturer of telegraph apparatus in the U.S. was J.H. Bunnell & Co. in New York. When the company finally closed its doors many years ago, most (if not all) of its remaining inventory was purchased by Dr. Joe Jacobs. Among the items that are available from him are bottles of Bunnell Golden Lacquer. I have used this to protect refinished keys, and can verify that this is exactly what you're looking for. Here's how to reach him:

Dr. Joe Jacobs
60 Seaview Terrace
Northport, NY 11768
516/261-1576
Good luck. jclark@asu.edu (Jim Clark)

Subject: Source of Fans to Cool BA finals

>If you don't have the Mendelson Electronics Company, Inc., (MECI)
>catalogue, maybe you should consider calling them at 800-344-4465 and
>getting one. They have lots of wonderful goodies that include, among a
>lot of other things, two pages of various types of equipment fans with
>only about a half dozen costing more than \$10 and none over \$14.95. They
>also have two pages of thermal switches at about fifty cents each too, so
>you can make the fan kick it at a specified temp too.

Those who live in the Pacific Northwest should look in the surplus department of the Radar, Inc. store nearest you (stores in Seattle, Portland, Spokane, and the Tri-Cities). They

always have several surplus batches of cooling fans of various sorts (at least their Seattle store does).

David Barts N5JRN davidb@ce.washington.edu

Subject: Super-Pro Front Panels

I don't mind giving a plug to Ron Eisenbrey, AB5WG who has been refinishing panels and cabinets using power coatings. He did my two Rangers and I must say they were gorgeous. CALL him at 713-491-7823 in the evenings. He is now on refinishing Heathkit panels and cabinets. He take special orders.

Dave, W3BJZ

Subject: Surplus, UK

Johns Radio

Whitehall Works

84 Whitehall Road East

Birkenshaw

Bradford, BD11 2ER Phone (01274) 684007 Fax(01274) 834465

Large collection of receivers, especially RACAL including RA-17 and later models, test equipment and vast amounts of other goodies. Ask for Pat. Caution: the filling of orders can take a very long time.

M&B Radio Ltd

86 Bishopsgate Street

Leeds, LS1 4BB Tel: +44 113-243 5649 Fax: +44 113-242 6881

Strong on ex-broadcast equipment, test gear in general. Not noted for low prices.

Anchor Surplus Ltd

The Cattle Market

Nottingham, NG2 3GY Tel: +44 115-986 4902 Tel: +44 115-986 4041 Fax: +44 115 986 4667 Open: 09.00-18.00 Monday-Friday, 08.00-16.00 Saturday, middle of the day Sunday. Several large sheds of mainly military surplus: electronics and optical items, mechanical engineering and furniture (boring stuff!). Electronics section is strong on military radio, test gear and weird lenses. Not as good as it used to be but perhaps the quality merchandise is harder to find. Good items sell very fast here. Some bargains but not many.

Bull Electrical

250 Portland Road

Hove, Sussex BN3 5QT Tel: 01273 203500 Fax: 01273 323077

A nice mail order shop which has lots of electronic bits. They also have a shop at this address (opposite the Gala bingo hall), but I have not been there personally. Sells some 'decent' components (ask for their main catalogue), but has a regular newsletter (ask to be put on their mailing list) of surplus stuff, including vaguely illegal stuff like video senders, radar blockers, air rifles etc, together with other interesting bits (most of which are of the

"10-million of them for a pound" variety), like lasers, geiger counters, steam models, old "innovations" items.

Subject: Surplus/BA' s in Lost Wages, NV

- >I was wondering if there are any good surplus electronic stores or
- >BA dealers in good ol' Sin City? I think there is a ham fest in the
- >AES parking lot on the first weekend of the month (?). I think my
- >money will be better spent on boatanchors than feeding the slots.

Greetings. Speaking of which [smile]... I have been referred to this list because I'm currently working on a list of surplus places in the USA (and world, really - some UK and CA entries) for the sci.electronics FAQ. The list is about 32KB so I'm not sure I want to post it here but I'm looking for any additions and corrections. The FAQ for this list is not that clear on what to do in this case but... if you feel that you want to see this list, e-mail me (or, better yet) get it yourself with the WWW->email interface by sending the request:

SEND <http://alpha.smi.med.pitt.edu:9000/TEMP>

This will give you the main menu. For ease of use, the 3 links on that page can be obtained with the following SEND commands:

US List: SEND http://alpha.smi.med.pitt.edu:9000/TEMP/F_surplus_us.html

Canada List: SEND http://alpha.smi.med.pitt.edu:9000/TEMP/F_surplus_ca.html

UK List: SEND http://alpha.smi.med.pitt.edu:9000/TEMP/F_surplus_uk.html
filipg@paranoia.com

Subject: SWAN 250

W7FG Vintage Manuals has the Swan 250 manual for \$16. Call 800-807-6146
73, Tony K4KYO

Subject: Trip to Fair Radio Sales

I spent the day yesterday with a friend at Fair Radio Sales, in Lima, Ohio. Most BAers have heard about FRS, but I thought some of you who have never seen the place would be interested in a capsule description. FRS is an old family run business. It is housed in several large (and mostly unheated!) warehouses, maybe three or four acres total storage space. It is truly an unbelievable place, with electronics boxes of every conceivable purpose and vintage stored on racks, pallets, and shelves perhaps 20 feet high. To give you an example, I inquired whether they had an HP 8601A sweep generator for sale, and I was given a flashlight, sent into a freezing, drafty warehouse to a shelf at the end of a long dark corridor stacked high with equipment, and there sat about forty 8601As, ranging in condition from poor to good.

FRS has one service technician, named Don, who has worked there for decades. Don has a cardtable-sized "workbench" with an ancient scope, nixie tube freq counter, and DVM has his disposal. When FRS "checks out" a radio, a KWM2 for instance, Don plugs it in, sees that it lights up without smoke, and trys it for power output. That's about as far as the checkout goes. Sometimes he mixes and matches circuit board from various units to get one that appears to work.

I get the impression Don spends more time on R390As, which they sometimes "restore" by installing meters and slathering paint on the cabinets, but if you get one don't count on it being in good alignment. Don hasn't the expertise or time to really go through a radio.

I know there is lots of interest in the KWM2s, 30L1s and 30S1s that FRS has been selling. Most of them were in pretty rough condition, but in any case they are now pretty much all gone. I saw a couple of parts radios, which appeared to me to already have been stripped of meters, knobs, escutchens, cover plates and cabinets. I saw no 516F2s or other accessories.

There were many shelves filled with military communication gear, but that's not an interest of mine so I can't say whether there were any goodies. Just so you won't feel disappointed, one pristine-looking R392 sitting by its lonesome on a shelf did catch my eye. (For those of you who know about such things, the serial number was in the 6000s and ended with the suffix R.) I swear it looked brand new, so if you're looking for one you might give them a call. I didn't inquire about the price but Phil, the owner, is no dope about such things so don't expect to steal it for a couple hundred bucks.

There are barrels of loose components, so I'd definitely give them a call if you need a special tube, tube shield, connector or panel meter. If you're going to the Dayton Hamvention, you might want to stop in first to look around. I'm told it's quite crowded then, so be forewarned. (Last year a tour bus of Japanese bargain hunters stopped there just before the Hamvention!)

73, Jim W8ZR

Subject: Tube source

Yet another place for BA tubes and things.

Surplus Trader: 510-670-8966

Richard@Sacramento,Ca.

Subject: Tube Tester Bulb 24 Aug 1995

> The meter was creamed on this tester, but I just happened to find

> a replacement in a local Electronics junk shop! How's that for

> luck!

That's Electronic Surplus, 9012 Central Av. SE, Albuquerque phone 505-296-6389.

Jim

Subject: Tubes

If by chance you don't get all the tubes you need for your rig, there is a dealer out there that loves to cater to the hams with small orders.

Try Electron Tube Enterprises. Contact them at etetubes @ aol.com or tel: 802-879-1844. They will be glad to send you their 1996 catalog.

Jeff KH2PZ

Subject: TV-7 question

>>I need to test a 3E29/829B on my trusty TV-7 tube tester. The manual gives

>>the settings and then adds this cryptic note: use adapter E105
>>Anyone know what this is?
>Yes, adapter E105 is a special plug in adapter that came with the TV-7
>but was often lost/removed from the sets. It was used to match the base
>of 3E29 etc with one on the TV-7 for testing.

Thanks to John Shriver, John Martin, and Joseph Pinner, who responded to my question. Fair Radio does indeed carry this adapter, as well as the 104 and 107, for those of you who may also be lacking them.

John Michael michael@ecs.umass.edu

Subject: URM-25D

Raymond asked about a source for URM-25D manuals. I got mine from:
MTM Enterprises
P.O. Box 794
Pleasanton, CA 94566-0794
Navy manual is: NAVSHIPS 0967-187-50
Army manual is: TM 11-5551-D
Lenox, WA50VG

Subject: W.J. Ford Surplus URL

W.J. Ford is on the WWW at <http://www.falls.igs.net/~testequipment/>
Tom Bryan tbryan@mailstorm.dot.gov

Subject: Where to find..... 8 Jul 1995

>Can anyone direct me to a source of 9 pin, I believe they are called
>"Loctal" plugs and sockets? Like the 8 pin tube type but with 9 pins. The
>ones that are used in Johnson equipment for accessory connections.

Those are called Novals. They are as scarce as hen's teeth these days, but you might try Connector World, 988 Glasco Tpk., Saugertigs, NY 12477, 914-246-3850. If they don't have them, get back to me. I may have another source in my "archives" somewhere.

Tony K4KYO

Subject: Wrinkle Paint

I spoke to a representative at Seymour's Paint one of the largest paint manufacturers in the USA last week. I have used their HotRod Black Wrinkle for some years. This paint is packaged under different brands.

He informed me that Seymour's located in Sycamore, IL, will be discontinuing their black wrinkle paint since there is no demand. I want all of you to know that it may be more difficult to find wrinkle paint in the future so you may want to stock up now. Your local

Harley Davidson motorcycle dealer does carry black wrinkle paint in a spray can for about \$8.00. Incidentally, if anyone knows where one can buy wrinkle paint by the gallon, please let me know. Seymour's would sell it by the 100 gal. drum!

There is no reason why one cannot mix his own. The ingredients are tung oil and cobalt dryer. Perhaps, some paint chemist on Boatanchors will step forward.

Oh, by the way, you can take Saint James Gray (Collins used this shade on their 75A-1 through 4 series etc.) and dilute it with paint thinner to apply to your cabinets etc, I dip a rag in the can that I am mixing with and apply to the surface. If you have thinned the paint sufficiently well, the finish is like the original shade. No need to overspray. Works great for bringing back the Saint James finish.

Incidentally, I am now going to supply all the Collins colors in small touch up bottles like Testors does for a nominal price. More information will appear in the Collins Journal. If you need more information, post Collins.

Dave, W3BJZ

Subject: Wrinkle paint source 19 Apr 1996

My local Pep Boys auto center has Plastikote brand black wrinkle paint in a spray can for \$4.99. I have used this for some projects and it turned out well.

/john wb5oau/4

October 09, 2000