

# RADIO FLYER No. 1



Random notes from  
Modern Radio Labs., June  
PO Box 1477-F  
Garden Grove,  
Calif., 92642 1982

Revised JAN. 1985

A quick-print between CAT. revisions to go out with all mailings. Send self-addressed-stamped-envelope to get any other mailings between orders.  
**No postcards, please!**

**Bold type for easy reference.**  
**Add post.-ins. to all orders.**

MRL Written Literature must be raised in price - last time in the 40's. Refer to "Tab" books and other sources and see how many HBs you get at \$1.00 each! Section in CAT.

A 14 MRL Handbooks \$1 Ea... 14.00  
HB-2 temp. out of print.  
D 3 DP Files, each 2.50.... 7.50  
B-D 6 Data Sheets at 60¢... 3.60  
C 2 Elec. Science at 35 Ea. .70  
C 5 REBH at 35¢ each ..... 1.75  
D 1 MRL Detail print 74.... .20

5-5-Whole library 27.75  
All DPs 20¢ except 19/19A .40  
All plus postage/insurance.

Place in C-1 of CATALOG.

**SASE - Self addressed-stamped envelope.** We furnish our time; U help on the postage. OK?

**CRYSTAL SETS.** You mention them to the average guy and he thinks of the ones sold by Radio Shack and toy stores - that will play around town. Our's are professionally built to get lots of DX if you have a big Ant., a good ground and not near a hi-powered station. When I operated on Oil tankers in the 20's - they were standard receivers. With a whopping big Ant. and whole ship for ground we could easily work 1000 mi. at nite - and several hundred miles most days. We've been building and improving them from 1920 - so know something about them! What do you think?

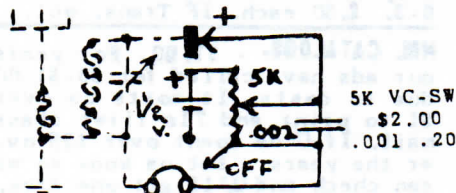
**SOME 2 and 2-A REPORTS.** E.W., Paauilo, Hawaii (no. of Hilo) gets most Ha. stations plus HBC London (7200 mi.) regularly, and Walnut Creek, Cal. (2500). W.K., Houlton, Me. gets Moscow (4000) every nite on #2. W.B.B., Export, Pa. got Taipei, Taiwan (8000) one nite. Bushels more on file at MRL.

**SETS vs KITS.** Our kits are furnished with lots of info. and detailed plans so almost anyone can build them. Rarely someone sends one back, to do over - but PLEASE don't do this because it will cost you more, plus postage as it's harder to do it over. If not sure - order a built-up kit. The "wise guys" order a kit and a set so you can't lose. A kink you may check - some put wires under cond. screws - which will short set. Solder to lugs only. Get all joints tight.

**CRYSTAL SET SUPPLIES.** Here are latest revised prices. Suppliers keep going up!

K/D stands hard to get. 9-14. \$1.  
Assembled stand/Xtal 19-17.1.75  
Bases. 9-15. .15. Caps 9-16 .15.

## CARBORUNDUM OR SILICON BOOSTER.



CARBORUNDUM or SILICON  
DETECTOR POWER BOOSTER

Carborundum requires it. Silicon is usually better - but usually works better with it. You may try the booster on others, too. Our HB-3 shows how best operating voltage will suddenly up the change in signals.

**FREE HARDWARE BOTTLES.** We have lots of plastic bottles we can throw in your box for screws, etc. if postage allows, but only with orders, please!

**WHEN YOU MOVE** go to your postal office you have been using and fill out card Form 3575 and give to clerk, or mail it in to them. They will then forward ur Mail for one year.

## AERIAL AND GROUND SUPPLIES.

#14 solid enamel. 1-4. foot .05  
7/26 str. bare. 1-8. 50 ft. 2.25  
Lead in str. insul. 1-11. Ft. .05  
3" screw-in standoffs. 1-27. .10  
Egg insulators. 1-23 .50  
Neon lamps A-G tests 20-18. .15



A NEW ASSEMBLING VISE.

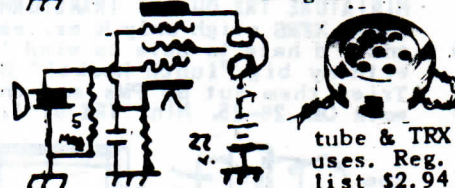
Handy tool for holding small parts as U solder. 3 in stock.

Each \$5.00 plus post.

8-119 EXTENDER/COUPLER bushing is brass; extender is wood. Takes place of 8-97 and 8-99. 8-120 is still plastic and wood. 45¢ each

## CRYSTAL MICROPHONE CARTRIDGE.

New 1" plastic case 7/16 deep 18" tw. cord. Freq. 100-10K Hz; Sen. 65 Db  
Diagrams show



tube & TRX  
uses. Reg.  
list \$2.94

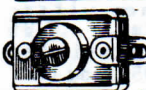
12-25- Xtal Mike Cartridge .75

**NEW 2 MEG. VOLUME CONTROL** less switch. Many uses as var. grid leak, tone control, etc. Special buy by us. 2 Meg. VC, no sw. .75

**MAGNET WIRE.** Only m-o house in the U.S. selling it by 100' feet. Enameled only. Add post/ins.

#14 CAT. 7-71. Per foot .05  
No. CAT. 100 ft. No. CAT. 100 ft.  
20 7-74. 1.35 30 7-79. .30  
22 7-75. .90 32 7-80. .25  
24 7-76. .70 34 7-81. .25  
26 7-77. .45 36 7-82. .25  
28 7-78. .35 40 7-84. .25

All wound on spools - good measure. No tangled wire!



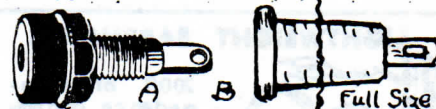
CAPACITY TRIMMERS

Market prices out of sight. MRL closeouts. New. Porcelain

SINGLE SECTION above. 180 pf. 3 leaf. CAT. 8-114. 25¢ each.

DOUBLE SECTION same as above but 2 sec. 180 pf. Ea. 8-123. .50

**INSULATED PHONE TIP JACKS.** Have 2 types in stock. (A) is a very



neat job, well made in bright Bakelite. Mounts in 5/16" hole. 17-27. Red. .75; 17-28 black .75. (B) is 1/2" red on front panel. Fits into 5/16" hole and compression washer squeezes over it for tight fit. 17-33. Spec. .35 Both drawn full size. Price Each



AUDIO TRANSFORMERS

They are getting so scarce now that it's hard to find a picture of them. We find various types with several windings that may be put to use. Usually marked in voltages, but one is usually 115 v. Try different combinations for audio trans. Smaller v. may be used in TRX circuits. May be put in impedance audio with .01 and 1/2 meg. on grid side. Tube audios are not critical. With a 6.3 v. fil. trans. may be made into an isolation trans. May be made into chokes. Lots of uses. 24-18. Combination Audio Trans. Shipping wt. 1 to 2 lbs. 5.00

K6MDJ started with MRL Xtal set in 50's. Sub. op., Tech. Aero-sp Ind., Com'l ticket and big jobs!

## MINIATURE AIR TYPE VARIABLE CAPACITORS



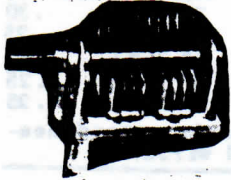
Stearite insulation. Has high leakage resistance, and resistance to temperature, moisture and vibration effects. Straight line capacitance. Air gap is 0.015" nominal. Supplied with 1/4" round shaft x 7/8" FMS. Furnished with two 4/40 mounting screws, 11/16" mounting centers.

Hammarlund type. Brand new. 6.7 to 150 mmfd. 40 plates. Frame 1" x 1/4 x 2" long. Shaft 1" long. Our competitor wants 12.95 for his! At MRL 8-3. 4.95.

**FLYER PRICES** often change. Bits are corrected each time we re-print 100 by "Quick-Print."



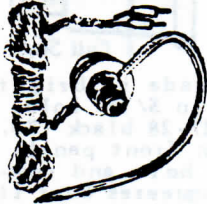
**BUD MC-1855. VARIABLE CAPACITOR.** Brand new; in original box. 14 plates. 7-100 mmfd. Steatite insulation. Frame 1 1/4 x 1 1/4 x 2 in. deep. 1/4" shaft 1/2" long. 1 hole mtg. plus rear bracket. Plates brass and Cad. plated. Front &



rear bearings make them ultra-efficient, 8-70. Bud Cap. 3.95 Drawing is close as possible. Competitor's price 9.95-similar.

**COVERED MAGNET WIRE WANTED.** If U have an amount of cotton or nylon covered magnet wire sizes 28 to 32 please advise. Give size, wt., covering, and what you'd want for it - in cash or credit.

### LIGHTWEIGHT EARPHONES



2000 ohms impedance dynamic Crystal ear phones for TRX Xtal and tube set listening. Phone tips fit reg. tip jacks and 2 1/4" cords.

Hooks direct to output or series cond. Has earplug and holder. 17-4. 2K Dynamic earphones 2.50.

**15 OHM DYNAMIC XTAL HEADPHONES,** and 20' of cord that hooks to voice coil of TV set. Has plug and ear holder. Also miniature phone plug to fit in min. jack. 17-7. 15 ohm Dynamic Xtal 2.50

**FREE ALUMINUM PLATES.** We have thin litho. plates 10x13" you may use for shielding, etc. The copy, on one side may be washed off with lac. thinner. Furnished only when ordering goods.

**1-TUBER BACK STRIPS** at 25¢ include paper scale and drilled. Scales by themselves - 5¢.

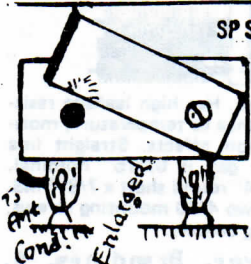
### MRL ANTENNA ELIMINATOR.

Plug into 110 line. Safe. Use ground on set also, if required. Directions furnished. Much improved from original. Sturdily built. Use one or more. 1-20. MRL Antenna Elim. 2.00



### SPST COND. SWITCH

Hooks to lugs of superhet. cond. Antenna cond. to small sec. Sw. adds lge. section. Effective in adding range to tuning.



8-69. MRL SPST Cond. Switch. 1.00

**LOOPSTICK CORES.** Several sizes but 7/16" in diameter Ferrite iron cores plus a long slotted 6-32 threaded brass shaft. Give length of core wanted. EACH 25¢

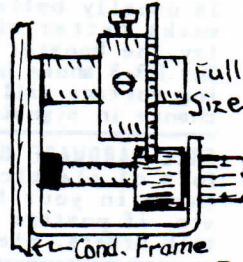
### E-4, 5. SOME CHANGES IN PRICES

It is impossible to show all of the changes in MRL CAT. AC-DC coils 7-44 Ant. 1.50. 7-45. 1.35 Variocoupler 7-172 5.00; Variometer 7-194 5.50; QRM Coil 7-42 1.50; Loopsticks out; 2 1/4 4 sec. Chokes 6-3. 1.50 each. IF Trans. out.

**MRL CATALOGS.** - \$1.00. For years our ads have called for 50-\$1.00 due to costs. It costs us over \$1 to print and 71¢ first class mail. If U've spent over \$25 over the years - let us know so we can check and U'll get one free, but \$1 always appreciated. Give present and previous addresses. Send letter - postcards get lost.

### PLANETARY DRIVE VERNIER

Ur shaft may be 1" long 4 best results. Screws onto cond. with 2 screws. Use a small knob 2 tune. Fashion a pointer. 10-5. Vernier .50 complete.



### MRL GROUND CLAMP.

Fits most pipes for a good ground. Fahnstock clip and L/W makes a tight grip. 1-18. MRL Ground Clamp/strap. 75

**LOOPSTICKS.** We had to hold up on these for awhile. We Got going with a better mounting arrangement - but when we came to the coil - it took a basket/wound but our machine only did HC. So maybe later. So much stuff is no longer made now - and old EO has to improvise as each item ties in with others to complete jobs.

**LARGE FILTER CONDENSERS.** Here is approx. new stock. TW - twisted prong, metal. PT - pig tails. CAP. TW

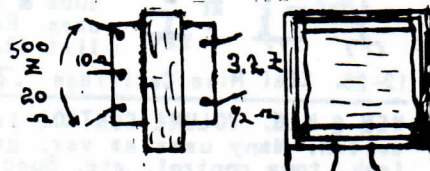
No. PT Cap. - volts - size. 1 TW 15x15-250; 20-25. 1"x2" 1g. 5TW 10x10-300

Order by CAP. #, each at 75¢

"QST" GRAB BAG! What a find! 160 pounds of them. Excellent condition. 50¢ EACH plus book postage. We can't pick dates - any are a steal at this price, 4 any date.

4X 450 v. Caps. #8-68. 1.50

**MINIATURE TRX OUTPUT TRANSFORMER** These XFERS weigh only 1/4 oz. each and I'd hate to have to wind 'em with my big "lunch hooks!" Hi. Tried them out on PMs and they work OK. 24-25. Min. TRX OT 1.50



DON'T FORGET POSTAGE.

Tinned lug. OK for ground lead on tiny rfgs. 26-31. Each .05

### BINDING POST DEPT.



B-Full Size C-Full

(B) 8-32 np. Screws both ends. Co. raised price of stems - so now 4-2. 8-32 Binding posts .35 (C) Now beautiful alum. BP Heads with 3/8" bore take 4.40 screws. 4-31. 4-40 Alum. BP heads Ea. 15

**THOUSANDS OF TUBES** Send list & SASE for latest quotes. Prices change daily. Prompt reply. Here are comparisons between competitor's prices and MRL for tubes U may use in the 1-tuber without wiring change. Just be careful of filament voltages.

1.4 v. fil. Compet. MRL	Supply
1A5	2.90 1.50 lots
1C5	3.50 2.50 fair
1Q5	7.19 3.00 lots
1T5	5.21 1.50 fair

3 volt filament supply.

305 3.50 3.00 lots

40% more output than a 1Q5.

6.3 v. AC filament transformer.

6F6 4.98 4.50 few

6K6 2.15 2.00 lots

6U6 none 2.00 fair

6V6gt 5.73 3.00 fair

6N6gt 2.90 2.00 fair

All plus postage and insurance

### MRL 4 AND 5 PRONG TUBE SOCKETS.

Unknowingly we ran out of 4 & 5 prong MIP sockets, so we went to a local "Thief" and he quoted \$1.50 Ea. in 50 lots. I'd have to sell them for \$2 - outrageous! So the OM started making them. They hold your tubes & coils well and don't bust pins or Ur arm pulling them out. Fit holes in base mtg. Lots of work to making them. Not wafer, nor MIP but MRL. Order one to see how they work. Recently improved. 25-32 MRL 4 Prong Tube Sox. .75 25-33 MRL 5 Prong Tube Sox. .75



**SPEAKERS.** We have gathered up quite a collection of old and new ones. All tested out. 3" Dynamic 3K field. 21-1. 2.00 4" 400 21-3. 2.75

4" oval PM 2-3/4 x 4-1/4. includes Output transfr. 3.50

7" PM 3.00; 3" PM 2.50

2" Mini PM new 2.50

3 1/2" PM slightly used 2.00

### NEW PHONE PRICES:

ACME 4000, double, No Longer Made. 17.52. 8.00

1/8 x 1/8 Eyelets now back in stock. 13-16L Per dozen .25

3/8 x 1/4 Brass tubing for various uses. 8-115. Per inch .25

**0-2 BOOKS.** Next big job is making up 0-2 with big, new list of books from our library. Send an SASE and U'll get your copy later.

**LARGE, COMPLICATED ORDERS** now R running about 30 days delay. We will do the best we can. Adios.