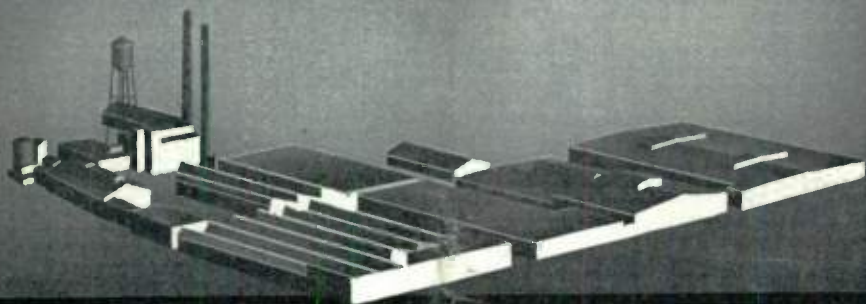


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RADIO SERVICE HINTS

Practical Suggestions on Solution of Radio Servicing Problems Encountered in Actual Experience by Servicemen Everywhere

This section, conducted by our servicemen readers, will be a regular feature of the C-D Capacitor, and is intended to provide other servicemen with helpful notes on testing, locating troubles in specific models of sets, repairing them, or any other suggestions to simplify service work.

Cornell-Dubilier will pay \$2.00 for each hint published in this section. Notes must be limited to 75 words, or less. Any number of hints may be submitted at one time. Unpublished items will not be returned. Be sure to give your name and mailing address. Send hints to: Editor, C-D Capacitor, Cornell-Dubilier Electric Corp., So. Plainfield, N. J.

Portables Using 1A7G Tubes

A number of the a.c.-d.c. battery portable receivers on the market which employ 1A7G or 1A7GT type tubes seem to have one common fault. The set will operate satisfactorily on batteries, but when used on the a.c. or d.c. line the results are not the same. This is of course the personal experience of the writer, and may be the same with other servicemen.

When this trouble arises, check oscillator performance characteristics. Try changing the 1A7G or 1A7GT tube regardless of how the tube checks in your tube tester.—*George A. Sudheimer, San Francisco, Calif.*

Midwest Model 16, '35

If this set becomes inoperative, check for a defective .002 mfd. mica capacitor in the plate and screen circuits of the 6D6 oscillator tube. This shorts the "B" voltage to ground at this point.

Another unusual source of trouble may be caused by the two capacitors connected in the cathode circuit of the 2A5 driver tube. A careful check for capacitors which become defective may reveal the source of trouble in this type of set as the writer experienced several cases. — *George J. Obenberger, Milwaukee, Wis.*

An Improvised Ballast

A 150-watt mazda electric light bulb makes a dandy ballast for many models of sets such as the Silver model 30. The writer uses an old 4-prong tube base and removes two of the prongs diagonally. Short flexible wire connections are then soldered from the bulb to the two prongs of the tube base. The bulb base is then carefully inserted in the tube base so that connections do not short, and held in place by filling with hot sealing wax.—*Clyde D. Kiebach, Washington, D. C.*

AC-DC Midgets Using 35Z5 Tubes

If the dial lights burn out in midget sets using this type of rectifier and the set stops operating, look for the trouble in the 35Z5. The filament of this tube is center-tapped and the dial lights are usually connected across one half of this filament. Often one half of the filament will burn out and the set will continue to function inefficiently, since the filament current of the tubes in the set are connected through the dial lights. In many tube checkers the 35Z5 will check O.K. but an ohmmeter will reveal the true condition of the filament.—*W. A. Holmin, Rockford, Ill.*



Testing Defective Line Cord

Here is a method employed by the writer to check resistance line cords for shorts while a set is in operation.

Connect a pilot lamp of equivalent ampere rating in series with the ballast connections in the set and the a.c. plug. By squeezing the line cord at various suspected places the short will be detected by the pilot light by going out completely or glowing brighter.

This method has in many cases been found to be even a better check than that by the usual ohmmeter method.—*M. R. Amitrano, Bellerose, N. Y.*

RCA Model 97-K

If this receiver is intermittent or will not play at all on dial tuning, replace C-27 4700 mmfd capacitor No. 31399. This tubular capacitor is wired in series with the oscillator section of the tuning condenser.

In this model the condenser gang is rubber mounted. This floating action puts a strain on the above mentioned capacitor leads with resultant intermittent contact within the capacitor.

When installing the new replacement, allow sufficient slack in the leads to prevent a recurrence of the intermittent.—*Joseph S. Napora, Uniontown, Pa.*

RCA M-34 Auto Radio

Weak volume in sets of this type may be caused from dozens of sources. However, after much time spent in realigning and checking all capacitors and resistors for trouble it was finally found that of the filter at power supply. By employing an electrolytic tubular type electrolytic capacitor between the voice coil of the speaker and ground, the set increased in volume almost 50%. The capacity of the capacitor used by the writer was 12 mfd. 150 volts.—*Wm. A. Hoffman, Glen Ridge, N. J.*

When You Move or Change Your Address

Be sure to notify the Mailing Dept. of "The C-D Capacitor," Cornell-Dubilier Electric Corp., South Plainfield, New Jersey, giving the old as well as the new address, and do this at least four weeks in advance. The Post Office Department does not forward magazines unless you pay additional postage, and we cannot duplicate copies mailed to the old address. We ask your co-operation.

Silvertone Model 6230

Noisy resistor can be a particularly puzzling source of trouble to find in almost any type or model of receiver, but a one meg. resistor which became noisy in this particular circuit almost had the writer stumped. This is the resistor mounted on the back of the volume control in this set.

To remedy the trouble, the writer, of course, simply replaced this resistor with a one-watt unit of the same resistance value.—*John Link, Corryton, Tenn.*

Emerson Model 103

A loud high pitched whistle may develop in sets of this type, and is particularly annoying since it is much louder than the signal of the station being received.

To correct this trouble, use a lower value resistor in the grid circuit of the 33 tube, but not too low a value as to affect the efficient operation or alter characteristics of the circuit. A resistor of a few hundred ohms or less should do the trick.—*Morris C. Hellwig, White Plains, N. Y.*



A Free Market-Place for Buyers, Sellers, and Swappers.

These advertisements are listed FREE of charge to C-D readers so if there is anything you would like to buy or sell; if you wish to obtain a position or if you have a position to offer to C-D readers, just send in your ad.

These columns are open only to those who have a legitimate, WANTED, SELL or SWAP proposition to offer. The Cornell-Dubilier Electric Corp. reserves the right to edit advertisements submitted, and to refuse to run any which may be considered unsuitable. We shall endeavor to restrict the ads to legitimate offers but cannot assume any responsibility for the transactions involved.

Please limit your ad to a maximum of 40 words, including name and address. Advertisements will be run as promptly as space limitations permit.

WANTED—Rider's Service manuals 1, 2, 3, 5. Must be in good condition. Please state lowest prices asked. F. E. Stranard, 681 Arguello Blvd., San Francisco, Calif.

WANTED—Experimenter wants to compare notes, join experimenters club, collaborate on developments, etc. If you are an experimenter possibly we may have something in common where we can be helpful to one another. Address all communications to Sherman Rice, Mt. Olivet, Kentucky Star Route, Ky.

FOR SALE—Readrite model 432 tube tester, Riders manuals 4, 5, 6. Also have seven-jewel wrist watch, leather jacket, size 40, practically new. Will ship by C.O.D. subject to examination. L. V. Revermann, Melrose, Minn.

FOR SALE OR TRADE—2 Holmes 35 mm. silent projectors, A 1 condition. May be seen at any time. Want sound head for Kodascope Model "K" projector. Henry's Radio Service, 10 Fountain St., Newport, R. I.

FOR SALE OR TRADE—Have a self excited a.c. 110 volt generator, 500 watts, 1800 r.p.m. Will trade for something useful in radio work, or public address equipment. What have you? Geo. C. Ellwood, 90 Ocean View Ave., Santa Cruz, Calif.

FOR SALE—Precision model E-200 signal generator, A 1 condition. Will sell very reasonable. S. Green, 908 De Kalb Ave., Brooklyn, N. Y.

FOR SALE—Riders manuals vols. 8, 9, and 10. Just like new. Best offer takes them. Michael Lush, 7 Adams St., Holyoke, Mass.

POSITION WANTED—Young man 21 student of Nat. Radio. Inst., desires opportunity to put in practice knowledge of radio servicing. Prefer location in Wisconsin. Le Roy A. Scheinoh, Route 2, Edgar, Wisconsin.

SELL OR TRADE—6-watt amplifier with one speaker, Packard record changer. Also parts of all sorts. Want meters. All letters acknowledged. Richard G. Kuch, 714 Fremont Ave., South Pasadena, Calif.

WILL SWAP—Supreme 189 test oscillator Supreme 85 tube tester and Weston tube checker for a Webster Chicago model B-79 mobile public address system six volt type less mike and speakers. Shines Radio Shack, 69 West 23 St., Chattanooga, Tenn.

FOR SALE—Dayrad model 20 tube tester, 8 toggle test, d.c. volts 0-100-1,000 ohm test 0-5,000-50,000. Revamped last spring by Dayrad for all tubes. Perfect condition. Price \$12.50. Russum Radio Service, 1715 E. 33rd Ave., Denver, Colo.

FOR SALE—Rider's manuals 1, 3, 4 and 5, with indexes. All in good condition. Also have Ghirardi's "Modern Radio Servicing" with "Service Data Book," I.C.S. radio course complete, Rider's Aligning Philco Receivers, Readrite 850 capacity tester, etc. Harold Sibley, 1437 Golfe St., St. Clair, Mich.

FOR SALE OR SWAP—Ranger signal generator, \$7.00. Want good volt, ohm, milliammeter. Jewell a.c. meter, range to 800 v. and a phono motor, pick-up and turntable. What have you? A. B. C. Radio Service, 74 South St., Newburgh, N. Y.

(Continued on page 13)

NEW DIAL SETTINGS*

CITY	STA.	Ke.	CITY	STA.	Ke.
Aberdeen, S. D.	KABR	1420	Augusta, Ga.	WGAC	1240
Aberdeen, Wash.	KXRO	1340		WMWH	1450
Abilene, Texas	KRBC	1450		WRDW	1490
Ada, Okla.	KADA	1230	Augusta, Maine	WRDO	1400
Akron, Ohio	WADC	1350	Aurora, Ill.	WMRO	1280
	WAKR	1590	Austin, Texas	KTBC	1150
	WJW	1240		KNOW	1490
Alamosa, Colo.	KGJW	1450	Baker, Ore.	KBKR	1490
Albany, Ga.	WGPC	1450	Bakersfield, Calif.	KERN	1410
	WALB	1590		KPMC	1600
			Baltimore, Md.	WCAO	600
Albany, N. Y.	WABY	1400		WBAL	1090
	WOKO	1460		WITH	1230
Albany, Ore.	KWIL	1240		WFBR	1300
Albert Lea, Minn.	KATE	1450		WCBM	1400
Albuquerque, N. M.	KOB	1030			
	KGGM	1260	Bangor, Maine	WLBZ	620
Alexandria, La.	KALB	1240		WABI	1230
Allentown, Pa.	WCBA	1470	Batavia, N. Y.	WBTA	1490
	WSAN	1470	Baton Rouge, La.	WJBO	1150
Altoona, Pa.	WFBG	1340	Battle Creek, Mich.	WELL	1400
			Bay City, Mich.	WBCM	1440
Amarillo, Texas	KFDA	1230	Beaumont, Texas	KFDM	560
	KGNC	1440		KRIC	1450
Ames, Iowa	WOI	640	Beckley, W. Va.	WJLS	1240
Anchorage, Alaska	KFOI	790	Bellingham, Wash.	KVOS	1230
Anderson, Ind.	WHBU	1240			
Anderson, S. C.	WAIM	1230	Bend, Ore.	KBND	1340
Anniston, Ala.	WHMA	1450	Berkeley, Calif.	KRE	1400
Appleton, Wis.	WHBY	1230	Beverly Hills, Calif.	KMPC	710
Ardmore, Okla.	KVSO	1240	Big Spring, Texas	KBST	1490
Asbury Park, N. J.	WCAP	1310	Billings, Mont.	KGHL	790
			Binghamton, N. Y.	WNBF	1490
Asheville, N. C.	WWNC	570	Birmingham, Ala.	WBRC	960
	WISE	1400		WAPI	1070
Ashland, Ky.	WCMJ	1340		WSGN	1340
Ashland, Wis.	WATW	1400	Bismarck, N. D.	KFYR	550
Ashtabula, Ohio	WICA	970	Bloomington, Ill.	WJBC	1230
Astoria, Ore.	KAST	1230	Bluefield, W. Va.	WHIS	1440
Atchison, Kans.	KVAK	1450			
Athens, Ga.	WGAU	1340	Blytheville, Ark.	KLCN	1320
			Boise, Idaho	KIDO	1380
Atlanta, Ga.	WAGA	1480	Boone, Iowa	KFGQ	1400
	WATL	1400	Boston, Mass.	WEEL	590
	WGST	920		WHDH	850
	WSB	750		WORL	950
Atlantic City, N. J.	WBAB	1490		WBZ	1030
	WFPG	1450		WCOP	1150
Auburn, N. Y.	WMBO	1340		WNAC	1260
				WAAB	1440
				WMEX	1510

* By courtesy of "Radio Retailing."

CITY	STA.	Kc.	CITY	STA.	Kc.
Bowling Green, Ky.	WLBK	1340	Chicago, Ill.	WCBD	1110
Bozeman, Mont.	KRBM	1450		WMBI	1110
Brady, Texas	KNEL	1490		WJJD	1160
Bridgeport, Conn.	WICC	600		WCRW	1240
	WNAB	1450		WEDC	1240
Bridgeton, N. J.	WSNJ	1240		WSBC	1240
Bristol, Tenn.	WOPI	1490		WGES	1390
Brookings, S. D.	KFDY	790	Chico, Calif.	KHSL	1290
Brownsville, Texas	KGFI	1490	Cicero, Ill.	WHFC	1450
Brownwood, Texas	KBWD	1380	Cincinnati, Ohio	WKRC	550
Brunswick, Ga.	WMOG	1490		WLW	700
				WCPO	1230
Buffalo, N. Y.	WGR	550		WSAI	1360
	WBEN	930		WCKY	1530
	WEBR	1340	Clarksburg, W. Va.	WBLK	1400
	WSVS	1400	Clayton, Mo.	KFUO	850
	WBNY	1400	Cleveland, Ohio	WGAR	1480
	WKBW	1520		WHK	1420
Burlington, Vt.	WCAX	1230		WTAM	1100
Butte, Mont.	KGIR	1370		WCLE	610
Cairo, Ill.	WKRO	1490	Clovis, N. M.	KICA	1400
Calumet, Mich.	WHDF	1400	Coffeyville, Kans.	KGGF	690
Camden, N. J.	WCAM	1310	College Station, Tex.	WTAW	1150
			Colo. Springs, Colo.	KVOR	1300
Canton, N. Y.	WCAD	1250	Columbia, Mo.	KFRU	1400
Canton, Ohio	WHBC	1230	Columbia, S. C.	WIS	560
Cape Girardeau, Mo.	KFVS	1400		WCOS	1400
Carlsbad, N. M.	KLAH	1240			
Carthage, Ill.	WCAZ	1080	Columbus, Ga.	WRBL	1230
Casper, Wyo.	KDFN	1470	Columbus, Miss.	WCBI	1400
Cedar City, Utah	KSUB	1340	Columbus, Ohio	WOSU	570
Cedar Rapids, Iowa	WMT	600		WHKC	640
Centralia, Wash.	KELA	1470		WCOL	1230
Champaign, Ill.	WDWS	1400		WBNS	1460
			Cookeville, Tenn.	WHUB	1400
Charleston, S. C.	WTMA	1250	Cordele, Ga.	WMJM	1490
	WCSC	1390	Corpus Christi, Texas	KRIS	1360
Charleston, W. Va.	WCHS	580		KEYS	1490
	WGKV	1490	Corsicana, Texas	KAND	1340
Charlotte, N. C.	WBT	1110	Corvallis, Ore.	KOAC	550
	WSOC	1240	Cumberland, Md.	WTBO	820
Charlottesville, Va.	WCHV	1450			
Chattanooga, Tenn.	WAPO	1150	Dallas, Texas	WFAA	820
	WDEF	1400		KRLD	1080
	WDOD	1310		WRR	1310
Cheyenne, Wyo.	KYAN	1400	Dalles, Ore.	KODL	1230
	KFBC	1450	Dalton, Ga.	WBLJ	1230
			Danville, Ill.	WDAN	1490
Chicago, Ill.	WMAQ	670	Danville, Va.	WBTM	1400
	WGN	720	Davenport, Iowa	WOC	1450
	WBBM	780	Dayton, Ohio	WHIO	1290
	WLS	890		WING	1410
	WENR	890	Daytona Beach, Fla.	WMFJ	1450
	WAAF	950	Decatur, Ala.	WMSL	1400
	WCFL	1000			

CITY	STA.	Kc.	CITY	STA.	Kc.
Decatur, Ill.	WSOY	1340	Fairbanks, Alaska	KFAR	610
Decorah, Iowa	KWLC	1240	Fairmont, W. Va.	WMMN	920
Deland, Fla.	WPER	1340	Fall River, Mass.	WSAR	1480
Denton, Texas	KDNT	1450	Fargo, N. D.	WDAY	970
Denver, Colo.	KLZ	560	Fayetteville, N. C.	WFNC	1370
	KVOD	630	Fergus Falls, Minn.	KGDE	1230
	KOA	850	Flint, Mich.	WFDF	910
	KPOF	910	Florence, S. C.	WOLS	1230
	KFEL	950	Fond du Lac, Wis.	KFIZ	1450
	KMYR	1340	Fort Dodge, Iowa	KVFD	1400
			Ft. Lauderdale, Fla.	WFTL	1400
Des Moines, Iowa	WHO	1040	Fort Myers, Fla.	WFTM	1240
	KRNT	1350	Fort Smith, Ark.	KFPW	1400
	KSO	1460			
Detroit, Mich.	WJR	760	Fort Wayne, Ind.	WOWO	1190
	WWJ	950		WGL	1450
	WXYZ	1270	Fort Worth, Texas	KGKO	570
	WMBG	1400		WBAP	820
	WJBK	1490		KFJZ	1270
Devil's Lake, N. D.	KDLR	1240	Frederick, Md.	WFMD	930
Dodge City, Kans.	KGNO	1370	Fredericksburg, Va.	WFVA	1290
Dothan, Ala.	WAGF	1400	Freemont, Neb.	KORN	1400
			Freeport, N. Y.	WGBB	1240
Dublin, Texas	KFPL	1340	Fresno, Calif.	KMJ	580
DuBois, Pa.	WCED	1230		KARM	1340
Dubuque, Iowa	KDTH	1370	Gadsden, Ala.	WJBY	1240
	WKBB	1490			
Duluth, Minn.	WEBC	1320	Gainesville, Fla.	WRUF	850
	KDAL	1490	Gainesville, Ga.	WGGA	1240
Durango, Colo.	KIUP	1400	Galesburg, Ill.	WGIL	1400
Durham, N. C.	WDNC	1490	Gallup, N. M.	KAWM	1490
East Lansing, Mich.	WKAR	870	Galveston, Texas	KLUF	1400
Easton, Pa.	WEST	1400	Garden City, Kan.	KIUL	1240
			Gary, Ind.	WIND	560
East St. Louis, Ill.	WTMV	1490	Gastonia, N. C.	WGNC	1450
Eau Claire, Wis.	WEAU	1070	Glendale, Calif.	KIEV	870
El Centro, Calif.	KXO	1490	Glenside, Pa.	WIBG	990
El Dorado, Ark.	KELD	1400	Globe, Ariz.	KWJB	1240
Elizabeth City, N. C.	WCNC	1400	Goldsboro, N. C.	WGBR	1400
Elk City, Okla.	KASA	1240			
Elkhart, Ind.	WTRC	1340	Grand Forks, N. D.	KFJM	1440
Elmira, N. Y.	WENY	1230	Grand Island, Neb.	KMMJ	750
El Paso, Tex.	KROD	600	Grand Junction, Colo.	KFXJ	1230
	KTSM	1380	Grand Rapids, Mich.	WGRB	1230
Emporia, Kans.	KTSM	1380		WASH	1300
Enid, Okla.	KCRC	1390		WOOD	1300
				WLAV	1340
Erie, Pa.	WLEU	1450	Grants Pass, Ore.	KUIN	1340
	WERC	1490	Great Bend, Kans.	KVGB	1400
Escanaba, Mich.	WDBC	1490	Great Falls, Mont.	KFBB	1310
Eugene, Ore.	KORE	1450			
Eureka, Calif.	KIEM	1480	Greeley, Colo.	KFKA	910
Evansville, Ind.	WGBF	1280	Green Bay, Wis.	WTAQ	1360
	WEOA	1400	Greenfield, Mass.	WHAI	1240
Everett, Wash.	KRKO	1400	Greensboro, N. C.	WBIG	1470

CITY	STA.	Kc.	CITY	STA.	Kc.
Greensburg, Pa.	WHJB	620	Ithaca, N. Y.	WHCU	870
Greenville, Miss.	WJPR	1340	Jackson, Mich.	WBIM	1450
Greenville, N. C.	WGTC	1490	Jackson, Miss.	WJDX	1300
Greenville, S. C.	WFBC	1330		WSLI	1450
	WMRC	1490	Jackson, Tenn.	WTJS	1390
Greenwood, Miss.	WGRM	1240	Jacksonville, Fla.	WJAX	930
Griffen, Ga.	WKBU	1450		WJHP	1320
Grove City, Pa.	WSAJ	1340		WMBR	1400
Gulfport, Miss.	WGCM	1240	Jamestown, N. D.	KRMC	1400
Hagerstown, Md.	WJEJ	1240	Jamestown, N. Y.	WJTN	1240
Hammond, Ind.	WJOB	1230	Janesville, Wis.	WCLO	1230
	WHIP	1520	Jefferson City, Mo.	KWOS	1340
Harlan, Ky.	WHLN	1450	Jerome, Ariz.	KCRJ	1340
Harrisburg, Ill.	WEBQ	1240	Jersey City, N. J.	WAAT	970
Harrisburg, Pa.	WKBO	1230		WHOM	1480
	WHP	1460	Johnson City, Tenn.	WJHL	910
Harrisonburg, Va.	WSVA	550	Johnstown, Pa.	WJAC	1400
Hartford, Conn.	WTIC	1080	Joliet, Ill.	WCLS	1340
	WTHT	1230	Jonesboro, Ark.	KBTM	1230
	WDRC	1360	Joplin, Mo.	WMBH	1450
Hastings, Neb.	KHAS	1230	Juneau, Alaska	KINY	1460
Hattiesburg, Miss.	WFOR	1400	Kalamazoo, Mich.	WKZO	590
Hazleton, Pa.	WAZL	1450	Kalispell, Mont.	KGEZ	1340
Helena, Mont.	KPFA	1240	Kansas City, Kans.	KCKN	1340
Herrin, Ill.	WJPF	1340	Kansas City, Mo.	WDAF	610
Hibbing, Minn.	WMFG	1240		WHB	880
Hickory, N. C.	WHKY	1400		KMBC	980
High Point, N. C.	WMFR	1230		KCMO	1480
Hilo, Hawaii	KHBC	1230		KITE	1590
Hobbs, N. M.	KWEW	1490	Kearney, Neb.	KGFW	1340
Holyoke, Mass.	WHYN	1400	Keene, N. H.	WKNE	1290
Honolulu, Hawaii	KGMB	590	Ketchikan, Alaska	KGBU	930
	KGU	760	Kilgore, Texas	KOCA	1240
Hopkinsville, Ky.	WHOP	1230	Kingsport, Tenn.	WKPT	1400
Hot Springs, Ark.	KWFC	1340	Kingston, N. Y.	WKBY	1490
Hot Sp'gs.Nat.Pk.,Ark	KTHS	1090	Kinston, N. C.	WFTC	1230
Houston, Texas	KPRC	950	Klamath Falls, Ore.	KFJI	1240
	KTRH	1320	Knoxville, Tenn.	WROL	620
	KXYZ	1470		WNOX	990
Huntington, W. Va.	WSAZ	930		WBIR	1240
Huntsville, Ala.	WBHP	1230	Kokomo, Ind.	WKMO	1400
Huntsville, Texas	KSAM	1490	Laconia, N. H.	WLNH	1340
Hutchinson, Kans.	KWBG	1450	La Crosse, Wis.	WKBH	1410
Nr. Hyannis, Mass.	WOCB	1240	Lafayette, Ind.	WBAA	920
Idaho Falls, Idaho	KID	1350	Lafayette, La.	KVOL	1340
Indianapolis, Ind.	WIBC	1070	La Grande, Ore.	KLBM	1450
	WFBM	1260	La Grange, Ga.	WLAG	1240
	WISH	1310	La Junta, Colo.	KOKO	1400
	WIRE	1430	Lake Charles, La.	KPLC	1490
Iowa City, Iowa	WSUI	910	Lakeland, Fla.	WLAK	1340
Ironwood, Mich.	WJMS	1450	Lamar, Colo.	KIDW	1450

CITY	STA.	Ke.	CITY	STA.	Ke.
Lancaster, Pa.	WGAL	1490	Mandan, N. D.	KGCU	1270
Lansing, Mich.	WJIM	1240	Manhattan, Kans.	KSAC	580
Lapeer, Mich.	WMPC	1230	Manitowoc, Wis.	WOMT	1240
Laredo, Texas	KPAB	1490	Mankata, Minn.	KYSM	1230
Las Vegas, Nev.	KENO	1400	Mansfield, Ohio	WMAN	1400
	KFUN	1450	Marinette, Wis.	WMAM	570
Laurel, Miss.	WAML	1340	Marion, Ohio	WMRN	1490
Lawrence, Kans.	KFKU	1250	Marquette, Mich.	WDMJ	1340
	WREN	1250	Marshalltown, Iowa	KFJB	1230
Lawrence, Mass.	WLAW	680	Marshfield, Ore.	KOOS	1230
Lawton, Okla.	KSWO	1150			
Lewiston, Idaho	KRLC	1400	Martinsville, Va.	WMVA	1450
			Marysville, Calif.	KMYC	1450
Lewiston, Maine	WCOU	1240	Mason City, Iowa	KGLO	1300
Lexington, Ky.	WLAP	1450	Mayaguez, PuertoRico	WPRA	790
Lihue, Hawaii	KTOH	1490	McComb, Miss.	WSKB	1230
Lima, Ohio	WLOK	1240	Medford, Ore.	KMED	1440
Lincoln, Nebr.	KFAB	1010	Medford, Wis.	WIGM	1490
	KFOR	1240	Memphis, Tenn.	WREC	600
Little Rock, Ark.	KARK	920		WMC	790
	KGHI	1230		WHBQ	1400
	KLRA	1420		WMPS	1460
Logan, Utah	KVNU	1230	Merced, Calif.	KYOS	1080
Logan, W. Va.	WLOG	1230			
			Meridian, Miss.	WCOC	910
Long Beach, Calif.	KGER	1390	Miami, Fla.	WQAM	560
	KFOX	1280		WIOD	610
Longview, Texas	KFRO	1370	Miami Beach, Fla.	WKAT	1360
Longview, Wash.	KWLK	1400	Midland, Texas	KRLH	1450
Los Angeles, Calif.	KMTR	570	Miles City, Mont.	KRJF	1340
	KFI	640	Milwaukee, Wis.	WTMJ	620
	KECA	790		WISN	1150
	KHJ	930		WEMP	1340
	KFWB	980	Minneapolis, Minn.	WLB	770
	KFVD	1020		WCCO	830
	KNX	1070		WDGY	1130
	KRKD	1150		WTCN	1280
	KFSG	1150		WLOL	1330
	KGfJ	1230			
	KFAC	1330	Minot, N. D.	KLPM	1390
Louisville, Ky.	WINN	1240	Missoula, Mont.	KGVO	1290
	WAVE	970	Mobile, Ala.	WMOB	1230
	WHAS	840		WALA	1410
Lowell, Ariz.	KSUN	1230	Modesto, Calif.	KTRB	860
Lowell, Mass.	WLLH	1400	Monroe, La.	KMLB	1230
Lubbock, Texas	KFYO	1340	Monterey, Calif.	KDON	1240
Lufkin, Texas	KRBA	1340	Montgomery, Ala.	WCOV	1240
Lynchburg, Va.	WLVA	1230		WSFA	1440
Macon, Ga.	WMAZ	940	Moorehead, Minn.	KVOX	1340
	WBML	1240	Morgantown, W. Va.	WAJR	1230
Madison, Wis.	WHA	970	Moultrie, Ga.	WMGA	1400
	WIBA	1310	Muncie, Ind.	WLBC	1340
Manchester, N. H.	WMUR	610	Muscle ShoalsCity, Ala.	WMSD	1450
	WFEA	1370	Muskegon, Mich.	WKBZ	1490

CITY	STA.	Ke.	CITY	STA.	Ke.
Muskogee, Okla.	KBIX	1490	Ogdensburg, N. Y.	WSLB	1400
Nampa, Idaho	KFXD	1230	Oklahoma City, Okla.	WKY	930
Nashville, Tenn.	WSIX	1240		KOCY	1340
	WSM	650		KTOK	1400
	WLAC	1510		KOMA	1520
New Albany, Ind.	WGRC	1400	Okmulgee, Okla.	KHBG	1240
Newark, N. J.	WHBI	1280	Olean, N. Y.	WHDL	1450
	WOR	710	Olympia, Wash.	KGY	1240
New Bedford, Mass.	WNBH	1340	Omaha, Neb.	WOW	590
New Britain, Conn.	WNBC	1410		KOWH	660
Newburgh, N. Y.	WGNV	1250		KOIL	1290
New Castle, Pa.	WKST	1280		KONB	1490
			Opelika, Ala.	WJHO	1400
New Haven, Conn.	WELI	960			
New Kensington, Pa.	WKPA	1150	Orlando, Fla.	WDBO	580
New London, Conn.	WNLC	1490		WLOF	1230
New Orleans, La.	WNOE	1450	Ottumwa, Iowa	KBIZ	1240
	WJBW	1230	Owensboro, Ky.	WOMI	1490
	WDSU	1280	Paducah, Ky.	WPAD	1450
	WWL	870	Palestine, Texas	KNET	1450
	WSMB	1350	Pampa, Texas	KPDN	1340
Newport News, Va.	WGH	1340	Panama City, Fla.	WDLP	1230
New York, N. Y.	WMCA	570	Paris, Texas	KPLT	1490
	WEAF	660	Parkersburg, W. Va.	WPAP	1450
	WJZ	770	Pasadena, Calif.	KPPC	1240
	WNYC	830	Paterson, N. J.	WPAT	930
	WABC	880	Pawtucket, R. I.	WFCI	1420
	WINS	1000	Pecos, Texas	KIUN	1400
	WHN	1050	Pensacola, Fla.	WCOA	1370
	WOV	1130	Peoria, Ill.	WMBD	1470
	WNEW	1280	Petersburg, Va.	WPID	790
	WBBR	1330	Philadelphia, Pa.	WFIL	560
	WEVD	1330		WIP	610
	WBNX	1380		WPEN	950
	WLTH	1430		KYW	1060
	WVFW	1430		WCAU	1210
	WBBC	1430		WHAT	1340
	WARD	1430		WTEL	1340
				WDAS	1400
	WQXR	1560			
	WCNW	1600	Phoenix, Ariz.	KOY	550
	WWRL	1600		KTAR	620
Niagara Falls, N. Y.	WHLA	1290		KPHO	1230
Norfolk, Neb.	WJAG	780	Pierre, S. D.	KGFX	630
Norfolk, Va.	WTAR	790	Pine Bluff, Ark.	KOTN	1490
Norman, Okla.	WNAD	690	Pittsburgh, Kans.	KOAM	810
Northfield, Minn.	WCAL	770	Pittsburgh, Pa.	KDKA	1020
North Platte, Neb.	KGNF	1460		WCAE	1250
Oakland, Calif.	KLX	910		WJAS	1320
	KROW	960		KQV	1410
	KLS	1310		WWSW	1490
Ocala, Fla.	WTMC	1490	Pittsfield, Mass.	WBRK	1340
Ogden, Utah	KLC	1430	Plattsburg, N. Y.	WMFF	1340

CITY	STA.	Kc.	CITY	STA.	Kc.
Pocatello, Idaho	KSEI	930	Rochester, Minn.	KROC	1340
Ponca City, Okla.	WBBZ	1230	Rochester, N. Y.	WHAM	1180
Ponce, Puerto Rico	WPAB	1370		WSAY	1240
	WPRP	1520		WHEC	1460
Pontiac, Mich.	WCAR	1130	Rockford, Ill.	WROK	1440
Poplar Bluff, Mo.	KWOC	1340	Rock Island, Ill.	WHBF	1270
Port Arthur, Texas	KPAC	1250	Rock Springs, Wyo.	KVRS	1400
Port Huron, Mich.	WHLS	1450	Rocky Mount, N. C.	WEED	1450
Portland, Maine	WGAN	560	Rome, Ga.	WRGA	1490
	WCSH	970	Roseburg, Ore.	KRNR	1490
Portland, Ore.	KGW	620	Roswell, N. M.	KGFL	1400
	KOIN	970	Royal Oak, Mich.	WEXL	1340
	KWJJ	1080	Rutland, Vt.	WSYB	1490
	KEX	1190	Sacramento, Calif.	KROY	1240
	KALE	1330		KFBK	1530
	KBPS	1450	Safford, Ariz.	KGLU	1450
	KXL	1450	Saginaw, Mich.	WHAL	980
Portsmouth, N. H.	WHEB	750		WSAM	1230
Portsmouth, Ohio	WPAY	1400	St. Albans, Vt.	WQDM	1420
Poughkeepsie, N. Y.	WKIP	1450	St. Augustine, Fla.	WFOY	1240
Powell, Wyo.	KPOW	1230	St. Cloud, Minn.	KFAM	1450
Poynette, Wis.	WIBU	1240	St. Joseph, Mo.	KFEQ	680
Prescott, Ariz.	KYCA	1490	St. Louis, Mo.	KSD	550
Presque Isle, Maine	WAGM	1450		KXOK	630
Price, Utah	KEUB	1450		WEW	770
Providence, R. I.	WPRO	630		KMOX	1120
	WEAN	790		WIL	1230
	WJAR	920		KWK	1380
Provo, Utah	KOVO	1240	St. Paul, Minn.	WMIN	1400
Pueblo, Colo.	KGHF	1350		KSTP	1500
Pullman, Wash.	KWSC	1250	St. Petersburg, Fla.	WSUN	620
Quincy, Ill.	WTAD	930		WTSP	1380
Racine, Wis.	WRJN	1400	Salem, Mass.	WESX	1230
Raleigh, N. C.	WPTF	680	Salem, Ore.	KSLM	1390
	WRAL	1240	Salina, Kans.	KSAL	1150
Rapid City, S. D.	WCAT	1230	Salina, N. Y.	WAGE	620
	KOEH	1400	Salisbury, Md.	WBOC	1490
Reading, Pa.	WEEU	850	Salisbury, N. C.	WSTP	1490
	WRAW	1340	Salt Lake City, Utah	KUTA	570
Red Bank, N. J.	WBRB	1240		KSL	1160
Redding, Calif.	KVCV	1230		KDYL	1320
Reno, Nev.	KOH	630	San Angelo, Texas	KGKL	1400
Rice Lake, Wis.	WJMC	1240	San Antonio, Texas	KTSA	550
Richmond, Ind.	WKBV	1490		WOAI	1200
Richmond, Va.	WRNL	910		KONO	1400
	WRVA	1140		KMAC	1400
	WBBL	1240		KABC	1450
	WMBG	1380	San Bernardino, Calif.	KFXM	1240
Roanoke, Va.	WDBJ	960	San Diego, Calif.	KFSD	600
Roanoke Rapids, N. C.	WCBT	1230		KGB	1360
	WSLS	1490		KFMB	1450

CITY	STA.	Ke.	CITY	STA.	Ke.	
San Francisco, Calif.	KSFO	560	South Bend, Ind.	WSBT	960	
	KFRC	610		WFAM	1230	
	KPO	680	Spartanburg, S. C.	WSPA	950	
	KGO	810		WORD	1400	
	KJBS	1100		Spokane, Wash.	KHQ	590
	KYA	1260	KFPY		920	
	KSAN	1450	KFIO		1150	
San Jose, Calif.	KQW	740	Springfield, Ill.	KGA	1500	
San Juan, Puerto Rico	WKAQ	620		WTAX	1240	
	WNEL	1320		WCBS	1450	
San Luis Obispo, Cal.	KVEC	1230	Springfield, Mass.	WSPR	1270	
Santa Ana, Calif.	KVOE	1490	Springfield, Mo.	WMAS	1450	
				KWTO	560	
Santa Barbara, Calif.	KTMS	1250	Springfield, Ohio	KGBX	1260	
	KDB	1490		WIZE	1340	
Santa Fe, N. M.	KVSF	1340	Sterling, Colo.	KGEK	1230	
Santa Rosa, Calif.	KSRO	1350		WSTV	1340	
Saranac Lake, N. Y.	WNBZ	1320	Stevensville, Ohio	WBL	930	
Sarasota, Fla.	WSPB	1450	Stevens Point, Wis.	WLBL	930	
Sault Ste. Marie, Mich.	WSEO	1230	Stockton, Calif.	KGDM	1130	
Savannah, Ga.	WTOC	1290	Suffolk, Va.	KWG	1230	
	WSAV	1340		WLPM	1450	
Schenectady, N. Y.	WGY	810	Sumter, N. C.	WFIG	1340	
Scottsbluff, Neb.	KGKY	1490	Sunbury, Pa.	WKOK	1240	
Scranton, Pa.	WQAN	910	Superior, Wis.	WDSM	1230	
	WGBI	910	Sweetwater, Texas	KXOX	1240	
	WARM	1400	Syracuse, N. Y.	WSYR	570	
Seattle, Wash.	KIRO	710	Tacoma, Wash.	WFBL	1390	
	KXA	770		WOLF	1490	
	KOMO	950		KVI	570	
	KJR	1000	Tallahassee, Fla.	KMO	1360	
	KRSC	1150		WTAL	1340	
	KTW	1250	Tampa, Fla.	WFLA	970	
	KOL	1300	Temple, Texas	WDAE	1250	
	KEVR	1400		KTEM	1400	
	Sedalia, Mo.	KDRO	1490	Terre Haute, Ind.	WBOW	1230
	Selma, Ala.	WHBB	1490	Texarkana, Texas	KCMC	1450
Sharon, Pa.	WPIC	790	Thomasville, Ga.	WPAX	1240	
Shawnee, Okla.	KGFF	1450	Toccoa, Ga.	WRLC	1450	
Sheboygan, Wis.	WHBL	1330	Toledo, Ohio	WTOL	1230	
Shenandoah, Iowa	KFNF	920	Topeka, Kans.	WSPD	1370	
	KMA	960		WIBW	580	
	Sheridan, Wyo.	KWYO	1400	Traverse City, Mich.	WTCM	1400
Sherman, Texas	KRRV	910	Trenton, N. J.	WTNJ	1310	
Shreveport, La.	KWKH	1130	Troy, N. Y.	WTRY	980	
	KRMD	1340	Tucson, Ariz.	WHAZ	1330	
	KTBS	1480		KVOA	1290	
Siloam Springs, Ark.	KUOA	1290	KTUC	1400		
Sioux City, Iowa	KSCJ	1360	Tulsa, Okla.	KVOO	1170	
	KTRI	1450	KTUL	1430		
Sioux Falls, S. D.	KSOO	1140	KOME	1340		
	KELO	1230	Tuscaloosa, Ala.	WJRD	1230	

CITY	STA.	Ke.	CITY	STA.	Ke.
Tuscola, Ill.	WDZ	1050	Wilmington, Del.	WDEL	1150
Twin Falls, Idaho	KTFI	1270	Wilmington, N. C.	WMFL	1450
Tyler, Texas	KGKB	1490	Wilson, N. C.	WMFD	1400
Uniontown, Pa.	WMBS	590	Wilson, N. C.	WGTM	1340
Urbana, Ill.	WILL	580	Winona, Minn.	KWNO	1230
Utica, N. Y.	WIBX	1230		WSJS	600
Valdosta, Ga.	WGOV	1450	Winston-Salem, N. C.	WVAIR	1340
Valley City, N. D.	KOVC	1490	Wisconsin Rapids, Wis.	WFHR	1340
Vancouver, Wash.	KVAN	910	Wolf Point, Mont.	KGCX	1480
Vermilion, S. D.	KUSD	920	Worcester, Mass.	WTAG	580
				WMAW	1230
				WORC	1310
Vernon, Texas	KVWC	1490	Yakima, Wash.	KIT	1280
Vicksburg, Miss.	WQBC	1390	Yankton, S. D.	WNAX	570
Victoria, Texas	KVIC	1340	York, Pa.	WORK	1350
Vincennes, Ind.	WAOV	1450	Youngstown, Ohio	WKBN	570
Virginia, Minn.	WHLB	1400		WFMJ	1450
Visalia, Calif.	KTKC	920	Yuma, Ariz.	KYUM	1240
Waco, Texas	WACO	1450	Zanesville, Ohio	WHIZ	1240
Wallace, Idaho	KWAL	1450	Zarephath, N. J.	WAWZ	1380
Walla Walla, Wash.	KUJ	1420			
Washington, D. C.	WMAL	630			
	WRC	980			
	WOL	1260			
	WINX	1340			
	WWDG	1450			
	WJSV	1500			
Waterbury, Conn.	WATR	1320			
	WBRV	1590			
Waterbury, Vt.	WDEV	550			
Watertown, N. Y.	WATN	1240			
	WWNY	1300			
Watertown, S. D.	KWAT	1240			
Watsonville, Calif.	KHUB	1340			
Wausau, Wis.	WSAU	1400			
Waycross, Ga.	WAYX	1230			
Welch, W. Va.	WBRW	1340			
Wenatchee, Wash.	KPGQ	1490			
Weslaco, Texas	KRGV	1290			
West Palm Beach, Fla.	WJNO	1230			
West Point, Ga.	WDAK	1340			
Wheeling, W. Va.	WWVA	1170			
	WKWK	1400			
White Plains, N. Y.	WFAS	1240			
Wichita, Kans.	KFBI	1070			
	KANS	1240			
	KFH	1330			
Wichita Falls, Texas	KWFT	620			
Wilkes-Barre, Pa.	WBAX	1240			
	WBRE	1340			
Williamson, W. Va.	WBTH	1400			
Williamsport, Pa.	WRAK	1400			
Willmar, Minn.	KWLM	1340			

THE RADIO TRADING POST

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WILL SWAP—Two mikes in good shape for complete set Rider's manuals. Mikes American Dyn. model D8T and Amperite velocity. David Oehlson, 69 West 23rd St., Chattanooga, Tenn.

WANTED—Rider's manuals 1, 2, 3 used but in fair condition. Please state prices. Raymond Stoekel, Ray's Radio Repair Shop, 2044 W. 3rd St., Davenport, Iowa.

WANTED — Rider's service manuals for radio equipment, or pay cash. Please state prices and condition of volumes. Also have 16mm. Eastman movie camera 3.5 lens, 1/4 h.p. Briggs-Stratton gas engine, 200 watt a.c. generator. Can use radio test equipment. E. W. Edwards, 4740 Johnson Ave., Hammond, Ind.

WANTED—"Practical Testing Systems," "Radio Repairing Hints," "Mathematics of Radio" by Rider, and "Cathode Ray Tube at Work," "Radio Physics Course" by Ghirardi. State lowest price. Must be A1 condition. F. E. Flint, P.O. Box 86, Elizabeth, W. Va.

POSITION WANTED—Young man, 25, graduate Dunwoody Institute, Minneapolis. Two years experience, electrical instructor at Dunwoody, two years servicing. Now employed but desire better position in instructional, experimental or servicing fields. J. W. Bancroft, Mora, Minn.

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NEW CANADIAN FREQUENCIES

CITY	STA.	Kc.	CITY	STA.	Kc.
Sackville, N. B.	CBA	1070	Stratford, Ont.	CJCS	1240
Montreal, Que.	CBF	690	Yorkton, Sask.	CJGX	1460
Chicoutimi, Que.	CBJ	1240	Sa. St. Marie, Ont.	CJIC	1490
Watrous, Sask.	CBK	540	Kirland Lake, Ont.	CJKL	560
Toronto, Ont.	CBL	740	Yarmouth, N. S.	CJLS	1340
Montreal, Que.	CBM	940			
Ottawa, Ont.	CBO	910	Lethbridge, Alta.	CJOC	1400
Vancouver, B. C.	CBR	1130	Vancouver, B. C.	CJOR	600
Quebec, Que.	CBV	980	Winnipeg, Man.	CJRC	630
Toronto, Ont.	CBY	1010	Regina, Sask.	CJRM	980
			Montreal, Que.	CKAC	730
Calgary, Alta.	CFAC	960	Prince Albert, Man.	CKBI	900
Flin Flon, Man.	CFAR	1400	Kenora, Ont.	CKCA	1450
Montreal, Que.	CFCF	600	Hull, Que.	CKCH	1240
North Bay, Ont.	CFCH	1230	Regina, Sask.	CKCK	620
Calgary, Alta.	CFCN	1010	Toronto, Ont.	CKCL	580
Charham, Ont.	CFCO	630			
Victoria, B. C.	CFCT	1480	Ottawa, Ont.	CKCO	1340
Charlottetown, P.E.I.	CFCT	630	Waterloo, Ont.	CKCR	1490
Grand Prairie, Alta.	CFGP	1340	Quebec, Que.	CKCV	1340
Kamloops, B. C.	CFJC	910	Moncton, N. B.	CKCW	1400
			Timmins, Ont.	CKGB	1470
Prescott, Ont.	CFLC	1450	Nelson, B. C.	CKLN	1450
Fredricton, N. B.	CFNB	550	Windsor, Ont.	CKLW	800
Owen Sound, Ont.	CFOS	1400	Cobalt, Ont.	CKMC	1240
London, Ont.	CFPL	1570	Vancouver, B. C.	CKMO	1410
Prince Rupert, B. C.	CFPR	1240	Campbellton, N. B.	CKNB	1240
Saskatoon, Sask.	CFQC	600			
Toronto, Ont.	CFRB	860	Wingham, Ont.	CKNX	1230
Kingston, Ont.	CFRC	1490	Hamilton, Ont.	CKOC	1150
Edmonton, Alta.	CFRN	1260	Kelowna, B. C.	CKOV	630
Moose Jaw, Sask.	CHAB	1220	Brantford, Ont.	CKPC	1380
			Fort William, Ont.	CKPR	580
Charlottetown, P.E.I.	CHCK	1340	Rouyn, Que.	CKRN	1400
St. Anne, Que.	CHGB	1230	Sudbury, Ont.	CKSO	790
Summerside, P.E.I.	CHGS	1480	St. Catherines, Ont.	CKTB	1230
Three Rivers, Que.	CHLN	1450	Edmonton, Alta.	CKUA	580
Montreal, Que.	CHLP	1490	Vancouver, B. C.	CKWX	980
Sherbrooke, Que.	CHLT	1240	Brandon, Man.	CKX	1150
Hamilton, Ont.	CHML	900	Winnipeg, Man.	CKY	990
New Carlisle, Que.	CHNC	610			
Halifax, N. S.	CHNS	960			
Quebec, Que.	CHRC	1400			
St. John, N. B.	CHSJ	1150			
Chilliwack, B. C.	CHWK	1340			
Trail, B. C.	CJAT	610			
Rimouski, Que.	CJBR	900			
Edmonton, Alta.	CJCA	930			
Sydney, N. S.	CJCB	1270			
Calgary, Alta.	CJ CJ	1230			

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SALE OR TRADE—R.C.A. amplifier, MI-12754, \$90.00. Speaker MI-1425A (new), \$15.00. Turntable and pick-up used in model R-99, \$30.00. Supreme analyzer 540, \$18.00. Rider's manual No. 1, \$2.25. Want test equipment and weather-proof speakers. C. E. Hicks, 574 Decatur St., Atlanta, Ga.

FOR SALE—Small speakers for radio sets, R.C.A. radio service course, also electrical course. What am I offered for all? Want Rider's volumes 1, 2, 3, & 4. Sullivans Radio, 218 E. 4 St., Duluth, Minn.

POSITION WANTED—Young man 23, wants chance to learn servicing in radio shop. Radio school training, radio factory and tube testing experience. High school graduate, honest, no bad habits, go anywhere. Don Howe, Defiance, Iowa.

FOR SALE—Supreme signal generator model 570 de luxe series for panel mount, with original instructions, diagrams, charts, etc. in A1 condition, \$10.00. New 1941 Simpson signal generator model 310, \$27.50. R. W. Garrison, Box 265, Cedar Falls, Iowa.

POSITION WANTED—Radio Technician graduate N. R. S. Five years experience service and sales own shop, American, speaks Spanish fluently, wants position in southwest with opportunity to use Spanish. Would consider buying good service business cash or trade business. Jess Hymas, Burley, Idaho.

FOR TRADE—Instructograph, spring-wind; speaker and A.C. oscillator. Want Rider manuals or good signal generator or what have you? Samuel Hornick, 8707—12th St., Detroit, Mich.

FOR SALE—Supreme 592-593 comb. analyzer, \$45.00; Readrite Ranger 432-A tube tester, \$15.00; Superior 1130-S signal generator, \$9.00; Rider's manuals Nos. 4 & 7, \$5.00 & \$7.00 respectively. All one year old and in perfect condition. Harry G. Hochanadel, 427 S. Martinson, Wichita, Kans.

FOR SALE OR TRADE—Latest R.C.A. recorder complete. Original price \$180.00. What have you to trade for it? John Magnus, 404 North Wells St., Chicago, Ill.

FOR SALE OR TRADE—I.C.S. Industrial Management course, 64 vols, brand new, cost \$185.00. Will sell for \$35.00 or trade for Rider's manuals 3, 4, 5, 6, 8, 9, & 10 or 15-watt amplifier. What have you. Melvin Kihlfelner, 270 Duke St., Ephrata, Pa.

WANTED—Motor generator, 110 v. a.c. to 60 v. d.c. about 8-10 amps. Public address amplifier racks with or without high fidelity power amplifier. Please give full details and lowest cash price. Alfred B. Werhan, Manlius, N. Y.

WANTED—Instructograph or Teleplex code practice machine. State price, and number of tapes. Fred C. Stuckert, 6021 N. Kent Ave., Milwaukee, Wis.

WANTED—Will pay cash for best bargain in modern testing equipment and also late radio repairing correspondence course complete. Give full details. Wesley Kay, 129 N.W. 32 St., Miami, Florida.

FOR SALE—R.C.A. electric clock 20", \$4.00; "Radio Service" electric sign, \$2.00; Westinghouse 0-5-50 voltmeter, Hoyt galvanometer, Steinite 0-4 voltmeter 0-500 d.c. milliammeter 0-10, 0-300, 0-1., 20-0-20 amps. All new condition. Want Radio Craft 32 manual. W. F. Onder, Rt. 1, Box 269, Kimmswick, Mo.

WANTED—Late model signal generator, tube checker, signal chaser, meters. Must be of late model. Give description, serial number, model and lowest price. Chas. Carroll, 211 Crapo St., Flint, Mich.

FOR SALE—Combination push-button analyzer, tube checker and multimeter in one compact unit. Tripplett 4" sq. foundation meter (used). Components accurate to 1% \$19.00. Chester Martowicz, 116 E. 7th St., N. Y. C.

FOR SALE—Westinghouse motor generator. A.c. motor, 1/4 H.P., 110 volts, 3.5 amps., 3450 R.P.M. D.c. generator, 350-500 volts, .1 k.w., .2 amps. Like new, used very little, perfect condition. Price \$45.00. Geo. W. Bowers, 604 Scarborough Ave., Rehoboth Beach, Del.

WANTED—Candlers system scientific jr. course on code. State price and age of course. Wm. Pepe, 405 So. 10 St., Newark, N. J.

SWAP—Milliammeter, 100 range, 5 in. wide; was in Sylvania tube tester; also 220 to 110 v. transformer, both in good condition; want good 3 in. 0-1 or 0-5 milliammeter; no trash please. My meter too large. Arthur Bulmer, Sutton, N. H.

WANTED—The third issue of the, "Stancor Hammanual" (1937). Also would like to hear from any one having any amateur equipment for trade. James E. Smith, Box 612, Spindale, N. C.

WANTED—Any commercial ham super-het in fair working condition under \$10.00 complete. Also instructo-graph with tapes or complete Teleplex. Send full particulars and final price in first letter. Wm. French, 2656 East 27 St., Sheepshead Bay, N. Y.

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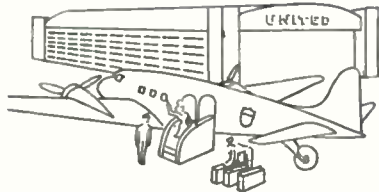
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