

FOR FINEST WORLD RECEPTION!



GRUNOW DOUBLET SHORT WAVE ANTENNA

Add to the enjoyment of all-world reception by installing a new 1938 Grunow Doublet Short Wave Antenna . . . Users everywhere are enthusiastic! Takes very little space, yet improves short wave listening far better than expensive old-style installations . . . Grunow engineers have developed a compact inexpensive antenna that not only increases "pick-up" on both standard and short wave broadcasts, but also cuts out "man-made" static amazingly, lasts indefinitely and requires no attention. Packed complete in carton, along with detailed instruction for installing. Only . . . \$5.00. See your Grunow dealer.

1938 *Grunow* RADIO LOG



REGARDING YOUR NEW RADIO

The modern radio receivers of today are far advanced over their predecessors of a few years ago. They are far more sensitive—they are keyed up for greater distance and range. They require more careful operation if one would secure the greatest amount of pleasure from their ownership. Read carefully and understand everything printed on these pages—it will aid you in the operation of your set.

Since the modern receiver is built to bring in greater distance over the entire Radio Spectrum, it is possible that its sensitivity may be misinterpreted by the new owner, due to the fact that static interference seems more noticeable until you become used to its operation. Do not let this disturb you—but spend a few evenings tuning your set and adjusting its controls until you have become thoroughly familiar with its operation.

Man-made static, such as street cars, motors of all kinds, elevators, washing machines, vacuum cleaners, sewing machines or any appliance, often cause interference, and if you experience trouble due to "noisy reception" it is wise to make a careful check of all appliances in use nearby.

STANDARD BAND TUNING

The following data will help you to operate the radio dial more easily, and help you to GET OUT of the receiver the full radio enjoyment BUILT INTO it at the factory.

THE RADIO SPECTRUM shows the general classification of services to which broadcasting facilities are assigned. Identities of stations in the Broadcast Band "B" appear on the next four pages. Geographical divisions group the stations most likely heard in your community whether on the west coast, central area, or east coast. Enter your exact dial readings for these stations in the blank center column. Fill in the rest of the blank spaces for stations you pick up at intermediate points. Stations with power of T, U, V, W and Z can generally be heard from coast to coast at night, frequently more clearly than stations nearer to you with lower power. Those with H, K, M and O power on same kilocycle with super-power stations operate only in daylight hours.

KILOCYCLES BECOME MEGACYCLES

Note that the spectrum, your log and your dial use a decimal instead of a comma below 1600 and 1650 Kilocycles becomes 1.65 Megacycles.

SHORT WAVE

"V" indicates short wave channels offering Voice entertainment. They are listed on pages 10 to 13. Time of operation is of greatest importance. By ruling out FOUR rows of hour figures on page 10 the chart is converted to your receiving time. The two symbols between each hour line represent one half hour. Pointed up, morning is indicated; down for afternoon. Follow the column for time you are tuning, if station is shown to be operating to the left you can see whether the program is "daily"; "W & Sat"; or on what schedule. If all three figures of the megacycle number are bold, the reception of the program should be good. If only one is bold, it is likely to be only fair.

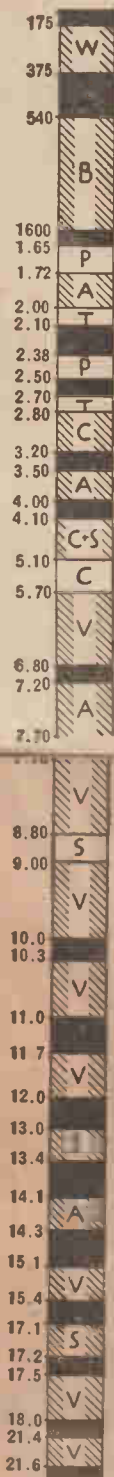
Spots in the spectrum marked "A" are used by some 30,000 amateurs. "C" for Aircraft. "P" for Municipal Police Broadcasts, "S" Ships, "T" Television, "W" for Government Weather and Air Beacon Stations. And on those not marked will be heard phone and commercial stations, etc. mostly in code.

European and other foreign short wave stations operate *only a portion of the time*. Consult the schedule for days and hours.

SHORT WAVE TUNING TIPS

Turn the dial pointer to the approximate setting required. Increase your volume. If your set has tone control turn it to low pitch if atmospheric conditions are noisy. Now tune with extreme care, slowly and evenly. When you locate a station move your tuning knob back and forth until you are satisfied it is the exact point. Re-adjust volume and tone control to suit you. Enter your dial reading for each station. It will be useful for getting the station again and become a reference point for locating stations at adjacent frequencies. Foreign stations sometimes vary slightly from their assigned megacycle and the number you may have recorded.

With slow, careful tuning, faint signals can frequently be developed to great strength. Simply because a station is broadcasting at a given time, do not blame your radio if you are unable to get it. Remember, there are many forces over which man has no control which prevent you from getting reception at times—skip distances—storms—directional antennas of stations, etc.



Revision 56 *Columbia; †NBC Red; ‡NBC Blue; †NBC Red & Blue; ^Mutual

WESTERN <i>Wash., Ore., Cal., Utah, Etc.</i>	MIDDLE WESTERN <i>Minn., Ia., Neb., Mo., Tex., Etc.</i>	KILO.	Dial No.	CENTRAL <i>Ill., Mich., Ohio, Tenn., Etc.</i>	EASTERN <i>Mass., N. Y., Pa., N. C., Etc.</i>
CJRM Moose Jaw, Sask. O	*KSD-KFUO St. Louis, Mo. O	540		*WKRC Cincinnati, Ohio O	*CFM Frederickton, N. B. M
KOAC Corvallis, Ore. O	*KTSA San Antonio, Tex. O	550		WSVA Staunton, Va. M	*WGR Buffalo, N. Y. O
*KFYR Blomarek, N. D. O	*KWTQ Springfield, Mo. O	560		WIND Chicago-Gary O	*WVEF Waterbury, Vt. M
*KLZ Denver, Colo. O	*KFOM Beaumont, Tex. O	570		*WIS Columbia, S. C. O	*WFIL Philadelphia, Pa. O
*KSFQ San Francisco, Cal. O	*WMAX Yankton, S. D. O	580		*WKBN Youngstown, Ohio. M	*WQAM Miami, Fla. O
*KVI Tacoma, Wash. O	*KGKO Ft. Worth, Tex. M	590		WOSU Columbus, Ohio O	*WVNC Asheville, N. C. O
KMTR Los Angeles, Cal. O	*WIBW Topeka, Kas. O	600		WILL Urbana, Ill. K	*WMCANew York (1 WSVR) O
*KUA Edmonton, Alta. M	*KSAC Manhattan, Kas. M	610		*WCHS Charleston, W. Va. M	*WTWG Worcester, Mass. O
*KMJ Fresno, Cal. O	*XEPN Pedras Negras, W	620		WKZO Kalamazoo, Mich. K	*WDBO Orlando, Fla. O
†KHQ Spokane, Wash. O	*WOW Omaha, Neb. S	630		CMW Havana, Cuba P	*WEEI Boston, Mass. O
CJOR Vancouver, B. C. M	*WMT Cedar Rapids, Ia. O	640		†CFM Montreal, Que. M	*WICC Bridgeport, Conn. M
KFSD San Diego, Cal. M	*WREC Memphis, Tenn. O	650		CRW Windsor Ont. M	*WCAO Baltimore, Md. M
*KFRS San Francisco, Cal. O	†WDAF Kansas City, Mo. O	660		CMW Havana, Cuba M	WIP Philadelphia, Pa. O
*KGV Portland, Ore. O		670		WJAY Cleveland, Ohio M	*WLBZ Bangor, Maine. O
†KSTAR Phoenix, Ariz. O		680		†WTMJ Milwaukee, Wis. O	*WHJB Greensburg, Pa. K
CJRC Winnipeg, Man. M	KFRU Columbia, Mo. M	690		†WFLA-WSUN Florida O	*CFCY Charlotetown, PEI. O
KGFX Pierre, S.D. J	WOI Ames, Iowa. S	700		WGBF Evansville, Ind. M	*WPRO Providence, R. I. M
†KFI Los Angeles, Cal. W		710		†WMAL Washington, D. C. K	WGAN Portland, Me. M
	WAAW Omaha, Neb. M	720		WHKC Col'umb's, Chio. M	†WFSM Nashville, Tenn. W
		730		XEAL Mexico City, Mex. W	†WMAQ Chicago, Ill. W
†KPO San Francisco, Cal. W	KFEQ St. Joseph, Mo. R	740			†WPTF Raleigh, N. C. O
CJCY Calgary, Alta. M	XET Monterey, Mex. M	750		NAA Arlington, Va. O	*CFRB Toronto Ont. S
		760		†WLV Cincinnati, Ohio. Z	
KIRO Seattle, Wash. O		770		*WGN Chicago, Ill. W	*WOR Newark, N. J. W
KMPV Beverly Hills, Calif. O				CMCL Havana, Cuba. T	*CKAC Montreal, Que. S
CJCA Edmonton, Alta. O	KMMJ Clay Center, Neb. O			†WSB Atlanta, Ga. W	WHEB Portsmouth, N. H. K
KTRB Modesto, Cal. K				*WJR Detroit, Mich. W	†WJZ New York (WBAL) W
†KGU Honolulu, Hawaii. R	WEW St. Louis, Mo. O			*WBBM Chicago, Ill. W	CMBF Havana, Cuba S
KXA Seattle, Wash. R	*KFAB Lincoln, Nebr. T				
XEOK Tia Juana, Mex. R					

†KGHL Billings, Mont. O	KFDY Brookings, S. D. O	780		CKSO Sudbury, Ont. O	†WEAN Providence, R. I. O
KEHE Los Angeles, Cal. O	XEYM Mexico City (XEN) T	790		†WMC Memphis, Tenn. O	†WTFAR Norfolk, Va. O
†KGO San Francisco, Cal. T	KOAM Pittsburg, Kas. O	800		HIX Santo Domingo, RD. G	†WGY Schenectady, N. Y. W
	†WFAA Dallas, (†WBAP) W	810			WTBO Cumberland, Md. K
XEBG Tia Juana, Mex. O	*WCCO Minneapolis, Minn. W	820		*WHAS Louisville, Ky. W	WNYC New York City O
	†KOA Denver, Colo. W	830		WRUF Gainesville, Fla. S	WHOH Boston, Mass. O
CFQC Saskatoon, Sask. O	XERA Villa Acuna, Mex. Z	840			WEEU Reading, Pa. O
KIEV Glendale, Cal. K	*WWL New Orleans, La. T	850		WKAR E. Lansing, Mich. O	†CRCT Toronto, Ont. S
XEMO Tia Juana, Mex. S	*WHB Kansas City, Mo. O	860			*WESG Elmira, N. Y. O
		870		†WENR-WLS Chicago. W	*WABC-WBOQ N. York W
KLX Oakland, Cal. O	WSUI Iowa City, Ia. M	880		CRCO Ottawa, Ont. O	WGBI-WQAN Scranton, Pa. O
*KFPY Spokane, Wash. O	KFKA Denver (KPOF) M	890		WCOC Meridian, Miss. O	WPHR Richmond, Va. M
*KARK Little Rock, Ark. M	KFNF Shenandoah, KUSO, M			WBAA Lafayette, Ind. M	†WJAR Providence, R. I. M
KGBU Ketchikan, Alaska O	XEW Mexico City W			*WMMN Fairmont, W. Va. M	*WGST Atlanta, Ga. O
KKEI Portland, Idaho K	WTAD Quincy, Ill. O	900		WBL Stevens Pt., Wis. S	†WBN Buffalo, N. Y. O
*KHJ Los Angeles, Cal. O	†WKY Okla. City, Okla. O	910		†WJAX Jacksonville, Fla. O	WELI New Haven Conn. M
†KJAT Trall, B.C. O	XENT Nueve Laredo, Mex. X	920		CKY Winnipeg, Man. U	CRCM Montreal, Que. S
†KOMO Seattle, Wash. O	†KPRC Houston, Texas O	930		†WVJ Detroit, Mich. S	WORL Boston, Mass. M
KROW Oakland, Cal. O	*KFEL†KVO Denver. M	940		WAAF Chicago, Ill. O	WRAX-WPEN Philadelphia K
*KOIN Portland, Ore. O	KMA Shenandoah, Ia. O	950		CMX Havana, Cuba O	CHNS Halifax, N.S. M
KFWB Hollywood, Cal. O	†WDAY Fargo, N. D. S	960		*WBRB Birmingham, Ala. O	*WOBJ Roanoke, Va. O
	WHA Madison, Wis. S	970		†WAVE Louisville, Ky. S	†WCSH Portland, Maine. O
†KJR Seattle, Wash. S	*KMBC Kansas City, Mo. O	980		XEFO Mexico City S	WATJ Jersey City, N. J. M
	XEAW Reynosa, Tams. W	990		WHAL Saginaw, Mich. M	†WRC Washington, D. C. O
KFVO Los Angeles, Cal. O				CMCD Havana, Cuba M	CHNC New Carlisle, Que. O
CKCK-CHWC Boston, Mass. M	XEAF Nogales, Mexico N				WIBG Glenade, Pa. H
KQW San Jose, Cal. O	†WHO Des Moines, Iowa. W	1000		†WCFL Chicago, Ill. S	†KDKA Pittsburgh, Pa. W
	KGGF Coffeyville, Kas. O				†WBZ-WBZA Boston. W
CFCN Calgary, Alta. T	WNAD Norman, Okla. O	1010		*WNOX Knoxville, Tenn. O	WHN New York City. O
KWJJ Portland, Ore. M	XEJ Juarez, Mex. O	1020		WUZ Tuscola Ill. K	†KYW Philadelphia, Pa. T
KYOS Merced, Cal. M	XEB Mexico City, Mex. T	1030		*CKLW Windsor-Detroit. S	CMCY Havana, Cuba S
*KNX Los Angeles, Cal. W	*KRDL Dallas, Tex. T	1040			†WTIC Hartford, Conn. W
	KFBI Abilene, Kas. S	1050		WEAU Eau Claire, Wis. O	CRCK Quebec, Que. O
				WQVA Indianapolis, Ind. O	

Grunow
FOR 1938

HALVES

THE
PRICE
OF

TELEBIAL
AUTOMATIC TUNING



GRUNOW CONSOLE . . . Model No. 589

Here is *true* automatic tuning of the most modern type at half the usual price! . . . Actually tunes 10 stations in 10 seconds! A powerful set, with hair-line precision selectivity . . . A.C.; 5 tubes; large 10 station "Teledial" automatic tuning; indirectly lighted calibrated dial; 2 wave bands . . . 550-1750 K.C.; 5500-18,000 K.C. Includes American, foreign, police, amateur and aviation reception; 8" dynamic speaker; automatic volume control. Banjo type cabinet of straight, stump, striped, mottled and rotary grain walnut

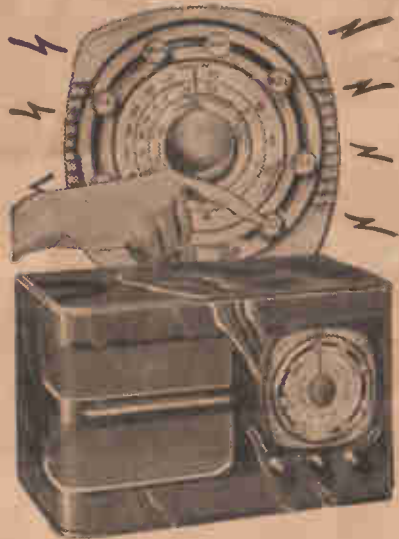
TELEDIAL TUNING SETS
ARE AVAILABLE WITH
8, 10 AND 16 STA-
TION BUTTONS.

GRUNOW TABLE MODEL . . . No. 588

For the first time, "Teledial" automatic tuning on a table set! Tunes 8 stations in 8 seconds . . . AUTOMATICALLY! A highly sensitive set with pin point tuning accuracy. A.C.; 5 tubes; 8 station "Teledial" automatic tuning; indirectly lighted calibrated dial; 8" dynamic speaker; 2 wave bands, 550-1720 K.C.; 2200-6700 K.C. Includes American, foreign, police, amateur and aviation broadcasts; automatic volume control. Cabinet of pin stripe, stump and straight grain walnut.

RECEPTION OF ANY
RADIO IS IMPROVED
WITH THE GRUNOW
DOUBLET ANTENNA.

YES! Famous "Teledial" automatic tuning is now within reach of everyone! . . . Imagine! A big beautiful Console, that tunes 10 stations perfectly in 10 seconds . . . AUTOMATICALLY . . . plus guaranteed European reception for only \$54.95! . . . Just think of being able to tune in 8 stations in 8 seconds for the FIRST TIME on a Table Set . . . yet this amazingly powerful radio costs only \$36.95! . . . No wonder everyone calls GRUNOW for 1938 the greatest radio value of the year! . . . So . . . why be satisfied with less performance than GRUNOW gives, now that prices are so low? See . . . hear . . . the amazing GRUNOW for 1938 . . . TODAY! Find out first hand how GRUNOW has brought radio enjoyment to an all-time high! . . . 17 outstanding models with Foreign Station reception and "Teledial" at prices from \$36.95 up . . . You can buy a new GRUNOW for 1938 on convenient time payments from your GRUNOW dealer. Ask him about it! . . .



EUROPE GUARANTEED

If you live in Central Time Zone, rule out the other FOUR rows of hour figures. Copy those for your zone for same lines on next pages. Follow column for hour you tune. If symbol appears glance left to learn days station operates. See if three digits in megacycle number are heavy black, denoting it is generally being heard well. Two, one, or none black require comparative care. "A" at left marks Amateurs, "S" Ships, "C" airCraft.

AM-▲ PM-▼ Both-◆

E D S T 1 2 3 4 5 6 7 8 9 10 11 12 1
 Eastern (CD) 12 1 2 3 4 5 6 7 8 9 10 11 12
 Central 10 11 12 1 2 3 4 5 6 7 8 9 10 11
 Mountain 9 10 11 12 1 2 3 4 5 6 7 8 9 10
 Pacific 9 10 11 12 1 2 3 4 5 6 7 8 9

NOTES

Meg.	Call	Place	When	Mtrs.	1	2	3	4	5	6	7	8	9	10	11	12	1
4.79	HJ2ABC	Cucuta, Col.	ex.Su.	62.60													
5.74	TGS	Guatemala	Cy.W.Th.&Su.	52.26													
5.76	YNOP	Managua,Nic.	ex.Su.	52.08													
5.78	OAX4D	Lima, Peru	W&Sat	51.90													
5.80	YV5RC	Caracas,Venez.	Daily	51.72													
5.83	T1GPH	San Jose,C.R.	ex.Su.	51.46													
5.85	YV1RB	Maracaibo,Ven.	ex.Su	51.28													
5.87	HRN	Tegucigalpa,Hon.	Daily	51.11													
5.90	T1LS	San Jose, R.D.	ex.Su.	50.80													
5.90	YV3RA	Barquisimeto,Ven.	ex.Su.	50.80													
5.92	YV4RH	Valencia,Ven.	ex.Su.	50.70													
5.93	HH2S	Port-au-Pr., Haiti	ex. Su.	50.63													
5.94	TG2X	Guatamala City	MWSa	50.51													
5.95	HJN	Bogota, Col.	ex. Su.	50.42													
5.97	HJ4ABD	Medellin,Col.	ex.Su.	50.25													
6.00	XEBT	Mexico City	Daily	49.97													
6.00	HP5K	Colon, Panama	ex.Su.	49.96													
6.01	COCO	Havana,Cuba	Daily	49.92													
6.01	HJ3ABH	Bogota, Col.	ex.Su.	49.92													
6.02	DJC	Berlin, Ger.	Daily	49.83													
6.03	HP5B	Panama City	Daily	49.75													
6.03	HJ4ABP	Medellin,Col.	ex.Su.	49.73													
6.04	W1XAL	Boston,Mass.	M&F	49.67													
6.04	HJ1ABG	Barranquilla,Col.	ex.Su.	49.62													
6.05	HJ3ABD	Bogota,Col.	ex.Su.	44.59													
6.06	W8XAL	Cincinnati	Daily	49.50													
6.06	W3XAU	Philadelpia	Daily	49.50													
6.07	CFRX	Toronto, Ont.	Daily	49.41													

6.08	W9XAA	Chicago	MW&Sa	49.34													
6.10	W9XF	Chicago	TTF&Sn	49.18													
6.10	W3XAL	Boundbr'k,N.J.	Daily	49.18													
6.11	HJ4ABB	Manizales,Col.	ex. Su	49.08													
6.11	HJ1ABB	Barranquilla,Col.	ex.Su	49.08													
6.13	VE9HX	Halifax, N. S.	Daily	48.92													
6.13	COCD	Havana,Cuba	Daily	48.92													
6.14	W8XK	Pittsburgh	Daily	48.86													
6.15	H15N	Moca City R.D.	ex.Su.	48.78													
6.15	CJRO	Winnipeg,Man.	Daily	48.78													
6.15	YV5RD	Caracas,Ven.	Daily	48.78													
6.24	HRD	LaCeiba, Honduras	exSu	48.11													
6.24	HIN	Trujillo, R.D.	ex.Su.	47.99													
6.26	OAX4G	Lima, Peru	Daily	47.86													
6.27	YV5RP	Caracas,Ven.	ex.Su.	47.80													
6.30	YV4RD	Maracay, Venez	ex.Su.	47.62													
6.31	HIZ	Trujillo, R.D.	ex.Su	47.50													
6.34	H1IX	Trujillo, R.D.	Tu.&Fr.	47.32													
6.37	YV1RH	Maracaibo,Ven.	Daily	47.10													
6.40	YV5RH	Caracas, Venez	ex.Su.	46.88													
6.41	TPG	San Jose, C.R.	Daily	46.80													
6.52	YV4RB	Valencia,Venez.	Daily	46.01													
6.62	PRADO	Riobamba,Ecu.	Th.	45.31													
6.63	HIT	Trujillo, R.D.	ex.Su.	45.25													
6.66	HC2RL	Guayaquil,Ec.	Tu	45.00													
6.68	TIEP	SanJose,C.R.	ex.Su.	44.88													
6.78	HIH	San Pedro, R.D.	ex.Su.	44.07													
A 7.80	HBP	Geneva,Switz.	Sat.	38.47													
8.25	HC2CW	Guayaquil,Ecu.	ex.Su.	36.46													
9.12	HAT-4	Budapest,Hung.	Su&W	32.81													
9.36	OAX4J	Lima, Peru	Daily	32.05													
9.43	COCH	Havana, Cuba	Irr.	31.88													
9.45	TGWA	Guatemala City	Daily	31.80													
9.49	EAQ-2	Madrid, Spain	Daily	31.60													
9.50	PRF5	Rio de Janeiro	ex.Su	31.58													
9.50	VK3ME	Melbourne,Aus.	M toSa	31.58													