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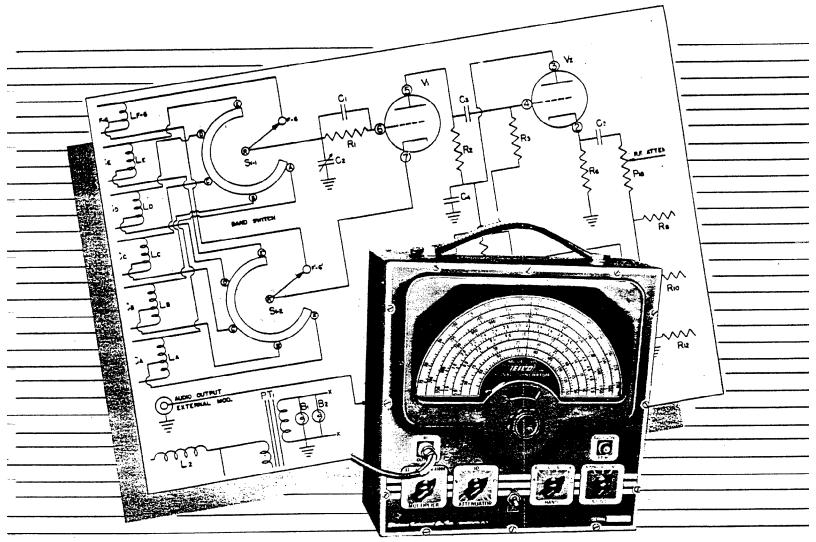




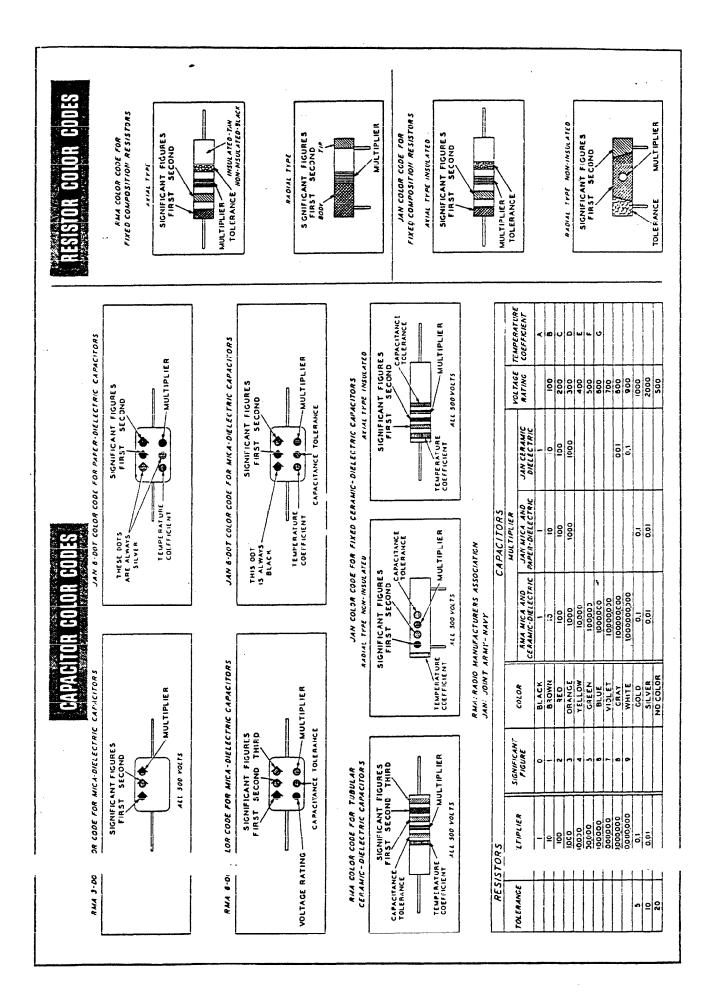


CONSTRUCTION MANUAL Model 315

SIGNAL GENERATOR







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EICO MODEL 315K SIGNAL GENERATOR

The assembly of the Model 315 Signal Generator is not difficult; on the contrary, it is a simple and straight-forward series of steps. Each of these steps is geared to aid you in the rapid and intelligent completion of your instrument. Before starting the actual construction, study the schematic and pictorial wiring thoroughly getting all of the steps clear in your mind. Do not rush the assembly. Care will pay dividends. It is suggested, because of stray pickup and increased capacity by leads improperly run, etc. that you place your wiring exactly as shown on diagrams.

Note: Use a Good grade on rosin core Solder. UNDER NO CIRCUMSTANCES USE ACID CORE SOLDER OR ACID FLUX inasmuch as this can cause serious corrosion. Before soldering, make certain there is a good mechanical connection. The solder must flow before you remove the soldering iron. This will prevent rosin joints which are poor electrical conductors. If you are soldering close to a part, hold the ends of a pair of longnose pliers between the part and the solder joint. The pliers will conduct the heat away and prevent the component from being unduly overheated.

COMPONENTS

Carefully unwrap all the parts and check them in the space provided on the parts list. Note: In order to insure the supply of kits and prompt delivery, we are forced to order from several sources. The standard manufacturers values may be interchangeable, etc. You may therefore find that a value may vary within the permissible dircuit tolerance, e.g., a resistance of 470,000 ohms may be substituted for, or may measure 510,000 ohms, etc. All parts supplied will work just as well as the part for which it is substituted. Most parts have a tolerance rating of 20% and the circuit is designed to take these variations into account.

GENERAL INSTRUCTIONS

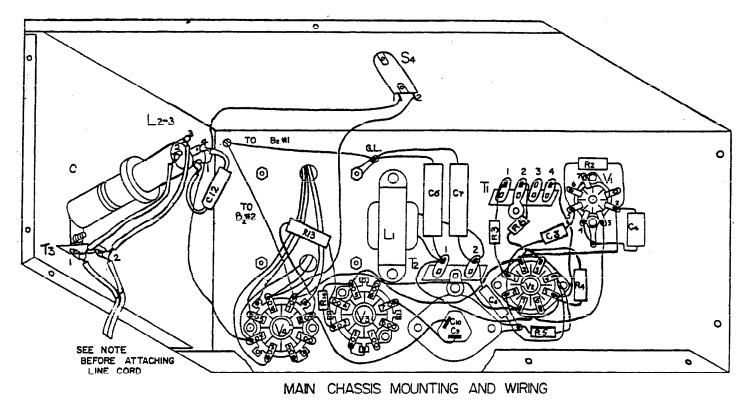
Construction Test and Calibration: - The construction of your instrument consists of five steps as follows:

- (a) <u>Main Chassis Mounting and Wiring</u>: The major chassis components are mounted and then wired.
- (b) <u>Panel Wiring and Mounting</u>: The panel is attached and wired to the chassis.
- (c) <u>Coil Mounting and Wiring</u>: The oscillator coils and their associated trimmer are mounted and wired onto the coil sub-chassis. The latter is then attached and wired to the main chassis.
- (d) Final Assembly: The insertion of the variable condenser, dial frame and vernier control completes the component assembly. The final wiring brings the MATUMENt to ENALTEST and calibration stage.
- (e) <u>Test</u>: In this operation the tubes are inserted and preliminary tests made.
- (f) <u>Calibration</u>: The calibration procedure is a direct and simply formulated sequence using no unnecessary or "difficult to obtain" equipment.

PARTS LIST MODEL 315

			1		
Part#	Symbol	Description Am't.	Part#	Symbol	Description Am ¹ t
3 2000	B1,B2	#47 bulb 2	53502	H29	pointerl
22001	.01,03	100 mmfd 2	57000		line cord 1
29003	C2	main tuning cond 1	58401	H31	coax cable 1
20001	C4,C8	.05 mfd cond 2	51502		crocodile clips 2
210001		.001 mfd cond 1	53000		ban knobe
	C5 C6				bar knobs 4
20004		.25 mfd cond 1	53004	H35	tuning knob 1
20005	C7	.5 mfd cond 1	46000	_	3/8 rubber grommet2
24000	. 09,010	10-10 mfd cond 1	97701	н37	pilot light assem.
30000		.01 mfd cond 2	53000		snap bracket2
29504	CA-CE	trimmer cond. air	51000	H38	female connector 1
10500		4-24 mmf	42005	H39	#6 flat washer 4
29500	CFG	3-12 mmf hi-freq.	97003	H40	octal socket 3
10:000		trimmer cond 1	97002	н42	7 pin miniature socketl
30003	Hl	panel	34500		audio choke
36000	H2	C.I. molded frame 1	35003	L2,L3	line filter 1
31003	HЗ	chassisl	35000	LABC	low frequency coil 1
31004	H4	chassis bot. plate. 1	35001	LDE	middle freq. coil 1
1005	H5	attenuator box and	35002	LFG	high frequency coil 1
10000	\$1	cover 1ea.		Pl	1K-250K dual pot 1
11006	нб	coil sub-chassis 1	30002	PTI	power transformer 1
18000	HŢ	cabinet 1	10018	Rl,R4	22K ohm 1/2W 2
7004	н8	handle 1	10006	R2	510 ohm 1/2W 1
9527	н8	handle holders 2	10030	R3	1 meg ohm 1/2W 1
1002		#6 self-tap. screw 26	10023	R5	68K ohm 1/2W 1
1000	H10	6-32X1/4 H.R.H18	10016	RG	10K ohm 1/2W 1
3001	Hll	pot grounding lugs. 3	10015		$1000 \text{ ohm } 1/2W \dots 3$
1011	H12	4-40x3/16 M.S 10	10003	R8,10,	100 ohm 1/2W 3
1008	H14	6-32X1/2 H.R.H 4		R12	A
1021	н15	3-48X1/8 R.H. MS 1	14000	R13	6K ohms, 10 W axial
0000	н16	6-32 hex nuts 17		- 1	lead 1
	H1 <u>7</u>	construction book 1	10802		1K ohms, 1W 1
	н18	instruction book 1	60003	Sl	2P-6pos switch 1
2001	-	3/8 flat washer 4	60000		2P-3pos switch 1
2002	H20	#6 lock washer19	60004	ន3្ទ	1P-4pos switch 1
0002	H21	15/32-32 tog. nut	61000	S4	SPST switch, toggle 1
		hex 1	54007	Tl	3 post terminal post
0003	H21 [.]	15/32-32 ring nut 1			with grnd 1
2001	H22	3/8 nuts hex 4	54003	T2, T3	2 post term. post 2
2000	н23	3/8 lock washer 4	90002	Vl	6C4 tube 1
3000	H24	gnd lugs, #6 5	90007	V2	6SL7 tube 1
3501	Н25	bare wire 2 ft.	90014		VR150 tube 1
3000	н26	hook-up wire 24ft.	90009	V4	6X5 tube 1
0000	H27	connector jacks 2	59500	C9,C10	mounting plate for
2503	H28	0-100 micro scale. 1			condenser 1
3300		spaghetti 1 1/2 ft.			
			_	,	
M.S.	macnine	الهريانية التنبية المستعم والاستدار	Screw;	H.R.H	Half Round Dead Screw

NOTE: When ordering replacement parts, please include all of the following information: 1) stock number and description given in parts list; 2) quantity; 3) model number of instrument; 4) serial number of instrument(on panel). This information will expedite the processing of your order and insure your receiving the correct replacement parts.



ASSEMBLY PRINT NO. 1 MODEL 315 SIGNAL GENERATOR

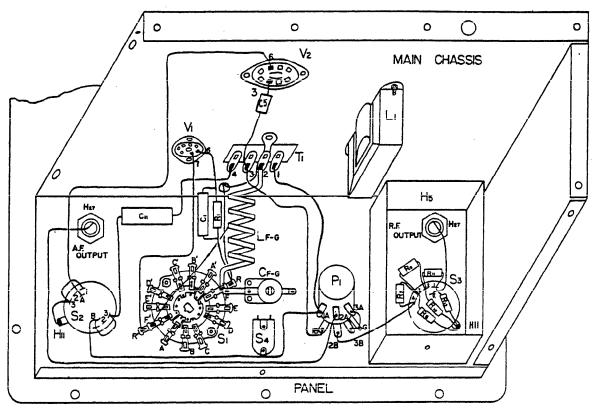
MAIN	CHASSIS	COUNTING	INSTRUCTIONS

CHK	SYMBOL	DESCRIPTION:	MOUNTED	WITH	LOCATION
	PT1	Power transformer	4#H20, 4#H10, 4#H30	4#H16, 1#H24	See diagram
	Ll	Audio choke	2#H20, 2#H10	2#E16,	
	Tl	3 post terminal strip	1#H20, 1#H10	1#1:16,	
	Т2	2 post terminal strip	1#H20, 1#H10	1#H16,	
	L2-L3	Line filter	1#H10,	т3	
	54 C9,C10	SPST switch Dual 10 mfd.	l es typ	e H21	Temporary mount Twist lugs

In the wiring instructions(C) means "connect" and (S) means "solder". As an example, consider the first line of the folling instructions: The black lead of the power transformer (FT1) is "connected" to pin #6 of tube V4. Another *tample; would be the 10th line: A .01 afd condenser, C12, is soldered from pin #4 of coll 12-3; the other side is connected to pin #1 of coll 12-3.

SYMBOL	DESCRIPTION	FROM	то	REMARKS
PT1	Power transformer	Black	V4#6(C)	
PT1	Power trensformer	Bleck	V4#4(C)	
PT1	Power transformer	Red	V4#5(S)	
PT1	Power transformer	Red	V4#3(S)	
PT1	Power transformer	Yellow	V4#7(C)	
PT1	Power transformer	Yellow	Gnd lug(S)	Lug on socket
PT1	Power transformer	Red-yellow	and lug(S)	Lug on socket
825	Bare wire	(S)V4#2	Gnd lug(S)	
H26	Hook up	(5)74#4	12-3#4(C)	See note
012	.01 ME4.	(s)12-344	12-3#1(C)	
H26	Hook up	(s)12-3#1	34#1(S)	
813	6K 10 watt	(c)v4#8	V3#3(C)	
814	1K ohms 1 watt	(S)V3#3	V3#5(C)	
H26	Bere wire	(S)V3#2	Gnd lug(S)	Lug on socket
H26	Hopk up	(s)v4#8	C10(S)	
126	Hook up	(s)c9	V3#7(S)	
126	Hook up	(5) 73#5	v2#2(C)	
126	HOOK UP	(C)V4#7	V2#7(C)	
84	221	2010202	v2#4/05	
Li li	Audio choke	Lasd of choice	(C)T2#1	
L1	Audio choice	Other lead	12/2(C)	
67	15 Mrd.	(C)72#2	OL(C)	
6	.25 Mrd.	(C)72/1	CL(C)	
68	.05 Mrd.	(S)T2#2	V2+4(c)	
		loiai	v2#*) 6 (
57	Bare wire	(s) v2/8	GL(S)	
125	10K	C)V2/3	T1#2(C)	
Ph 1	1 104 1	C)V1/2		
		C V1/5	GL(C)	
			V1#2(C)	
		(C)V2V1	V1#5(S)	
3	1 meg	(S)V2/1	T1#1(C)	
126	Hook up	(S)V1#3	V2#7(S)	
126	Hook up	(S)T2#1	v2#5(c)	
125	Bare wire	(3) 144	QL(3)	
126	Hook up	(S)V1#2	V2#2(5)	
126	Hook up	(S)V4#6	S4#2(S)	
126	Hook up	(C)T1#4	V2#5(S)	
(26)	Hook up	(S)V4#7	12 in.	Thru chessis ho
126	Hook up	(S)GL	12 in.	Thru chassis ho
126	HOOK UD	10173#1	12-372(S)	
126	Hook up	(C)T3#2	12-3#3(S)	
130	Line cord	One lead	T3/1(S)	See note
130	Line cord	Other lead	T3#2(S)	See note

Note: Mount 3/8 rubber grommet, M35, sa per assembly print #5. Pase line cord thru grommet and knot eight (8) inches from and.



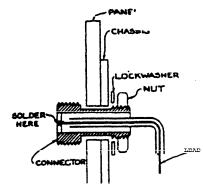


ASSEMBLY PRINT NO. 2 MODEL 315 SIGNAL GENERATOR

:bk	Symbol	Description	Mounted With	Remarks
	Sit	On-Off Switch	2 #H21	Remove Si from chassis and then remount with panel attached to chassis with Si
	3 2	2P-3 pos. switch	1 #H22, 1 #H19, 1 #H11	Orient switch as shown
	51	27-6 pos. switch	1 #H22, 1 #H19	*
	P1	1K- 250K Dual Pot	1 #H23, 1#H22 1 #H19, 1#H11	
	53	l p 4 pos. switch	1 #H22, 1#N19, 1 #H11	H5 is mounted under switch in position shown
	H27	Audio connector jeck	Attached nut, H23	
	H27	R.F. Connector jack	Attached nut. H23	Mount thru P5

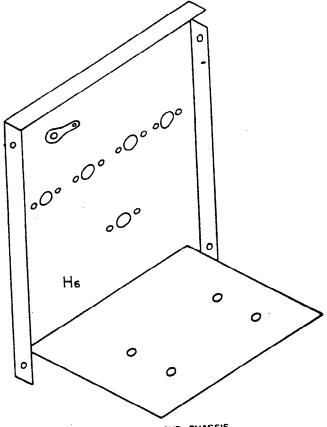
PANEL MOUNTING INSTRUCTIONS

CONNECTOR

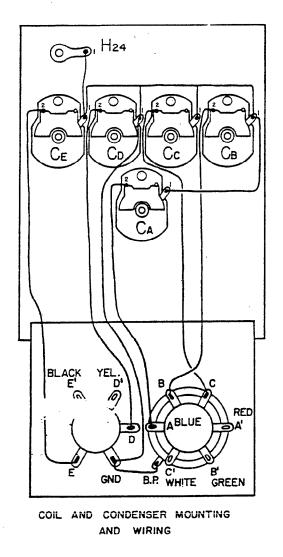


PANEL WIRING INSTRUCTIONS

Chk	Symbol	Description	Pron	To	Remarks -
	H26	Hoek up wire	(s)v2#6	S2#A(S)	
	825	Bare wire	(S) S2#1A	S2#3A(C)	ł
	825	Bare wire	(S)S2#3A		
	825	Bare wire		S2#3B(C)	i
	cli	.01 Mfd.	(S)S2#3B	T1#4(S)	Speghett:
	н26	Hook up wire	(S)T1#1	P1#1A(C)	
	826	Hook up wire	(S)S2#B	P1#1A(S)	1
	H26	Hook up wire	(S)F1#1B	T1#3(C)	
	¢5	.001 and cond	(S)T1#3	V2#3(S)	
	H25	Bare wire	(S)P1#34		
	H25	Bare vire	(S)P1#3B	H11(S)	1
	H26	Hook up wire	(S)P1#2B		1
	R7	1000 chas	(S)S3#4	S3#3(C)	l I
	RÔ	100 ohma	(c)s3#3	H11(C)	
	R9	1000 ohma	(S)S3#3	S3#2(C)	1
	R10	100 ohms		H11(C)	
	R11	1000 ohss	(S)S3#2	\$3#1(C)	1
	R12	100 otuns	(S)S3#1	H11(S)	
	826	Hook up wire		R.P.Jack(S)	See inser
	E26	Book up wire	(S)P1#2A		See inser
	LPO		(C)S1#P	T1#2(C)	In positi
	E 26		(S)T1#2	Thru hole	6 inches
	LFG +	H1 freq.coil	(S)Tap	31#F(S)	
	R1	22K ohmi	(c) v 1#6	51#R(C)	
	C1	100 Mmfd cond		S1#R(C)	
	H26		(S)S1#R	Thru hole	6 inches
	H26	Rook up wire	(\$)71#7	\$1#R(\$)	
1	CPO	Hi freq.trim.	(S)S1#7	Ond(S)	As show



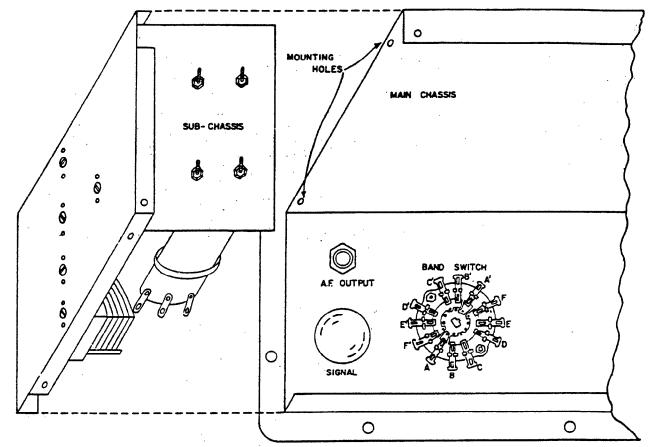
COIL AND CONDENSER SUB- CHASSIS



Chk	Symbol	Description	Mounted With	Location
	CA CB CC CD CE	Air Trimmer	2#H12	See Diagram
				Right Hand Side Left Hand Side

		SUB-CHASSI	S WIRING IN	STRUCTIONS	
Chk	Symbol	Description	From-	То	Remarks
	H25 	Bare Wire " " Hook Up Bare Wire Hook Up Bare Wire Hook Up Bare Wire Hook Up Bare Wire	(S)CA#1 (S)CB#1 (S)CC#1 (C)CD#1 (S)CC#2 (S)CA#2 (S)CO11 B (S)CC#2 (S)CO11 C (S)CC#2 (S)CO11 C (S)CC#2 (S)CO11 E (S)CC#1 (S)CC#1 (S)CD#1 (S)CD#1 (S)CD#1	CB#1(C) CC#1(C) CD#1(C) CB#1(C) H24#1(S) Coil A(C) Coil B(C) 6 inches Coil C(C) 6 inches Coil D(C) 6 inches Coil E(C) 6 inches GND (C) Bottom Pin(S)	Slack Wire

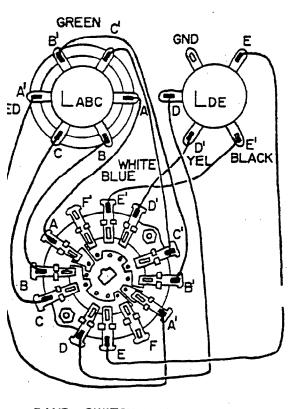
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SUB-CHASSIS MOUNTING

SUB-CHASSIS MOUNTING

Chk	Symbol	Description	Mount with	Remarks
	нб	Wired sub-chassis	2#н9	See Diagram



Rotate chassis (clockwise 90 degrees) so that switch and chassis are aligned as shown in diagram to left.

BAND SWITCH WIRING

Chk	Sym.	Descrip.	From	To	Remarks
	н26	H.U. Wire	LABC#A LABC#C LABC#C LABC#C LABC#B LABC#C LABC#C LABC#C LDE#D LDE#E LDE#D	S1#A S1#B S1#C S1#A S1#B S1#C S1#D S1#E S1#D	Green White Attached wire

SIGNAL

GENERATOR

BAND SWITCH WIRING

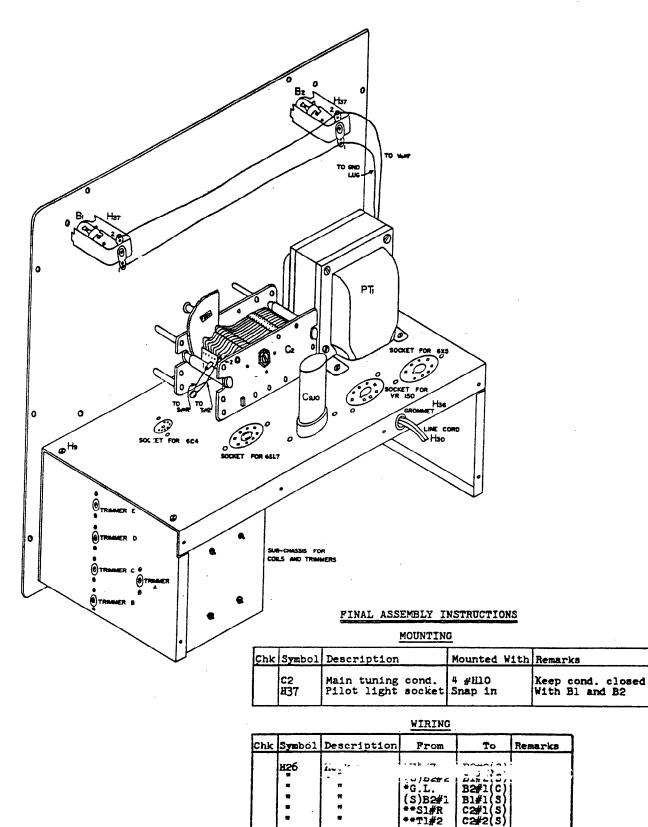
PRINT

NO4

MODEL

315

ASSEMBLY



Main Chassis Wiring

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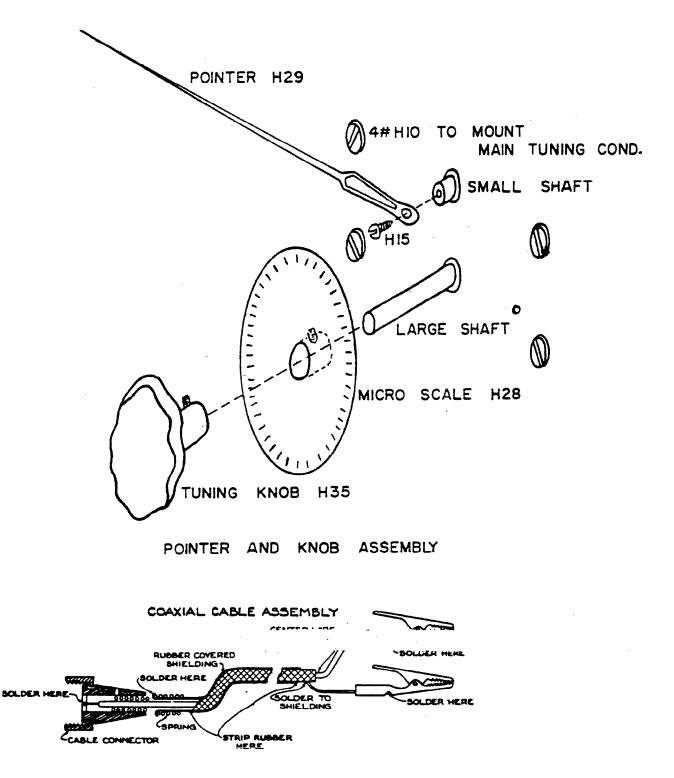
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Panel Wiring

C2#2(S)

**

With large shaft turned fully clockwise, screw pointer H29 to small shaft with small screw H15. Line pointer along blue line on extreme left side of scale. Slide the micro scale, H28, onto the large shaft. With the shaft turned fully clockwise, tighten the set screw on the micro-scale H28 so that the zero mark is in a vertical position. The molded frame H2 with attached glass is now placed on the panel and secured with 4 #H14 screws in the holes provided. The tuning knob, H35, is attached to the large shaft and the 4 Bar Knobs H34 are attached to respective shafts. Using parts H31, (shielded cable), H33,(alligator clips), and H38, (female connector), construct coaxial cable as shown in insert drawing.

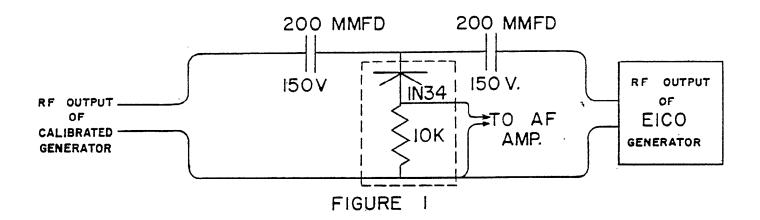


FINAL STEPS

You have now completed the mechanical assembly of your signal generator. A few more steps and simple precautions at this point and the instrument may be turned on and calibrated.

- 1. Insert tubes in sockets: See assembly print #5 for tube locations.
- 2. Measure the resistance from B (Pin #8 of 6X5 to ground). This should be over 500,000 ohms. If it is lower, recheck B+ circuit before continuing, but under no circumstances apply power until the error has been located.
- 3. Insert line cord and turn set on. The dial lights and tubes should light immediately. If not, turn set off and check the filament circuit. Do not leave power on as this could damage the power transformer. The VR tube (VR 150) should light within 30 seconds. If not, recheck B+ circuit.

<u>Calibration</u>: - The simplest and most accurate calibration procedure that we have found to date is Signal Comparison with another signal generator. In this system a circuit as shown in Figure 1 is wired.



Note: If desired, an oscilloscope or earphones may be substituted for the AF amplifier; an RF probe (EICO Model PD Probe) may be substituted for the dotted area.

- 1. Turn both signal generators "on". Allow about 15 minutes for initial "warm-up".
- 2. Set both RF outputs to maximum. (EICO: MULTIPLIER to X1000; ATTENUATOR to 20; SIGNAL to RF; BAND to A).

- 3. Set both generators to 200KC and adjust the BAND A trimmer for "zero-beat".* (See assembly print #5 for location of trimmers).
- 4. Set the Model 315 Signal Generator to 550KC on BAND B. Set the other signal generator to 550KC and adjust the BAND B trimmer for zero-beat.
- 5. Set the Model 315 Signal Generator to 1600KC on BAND C. Set the other signal generator to the same frequency and adjust the BAND C trimmer for "zero-beat".
- 6. Set the Model 315 Signal Generator to 5mc on BAND D. Set the other signal generator to the same frequency and adjust the BAND D trimmer for "zero-beat".
- 7. Set the Model 315 Signal Generator to 15mc on BAND E. Set the other signal generator to the same frequency and adjust the BAND E trimmer for "zero-beat".
- 8. Set the Model 315 Signal Generator to 50mc on BAND F. Set the other signal generator to the same frequency and adjust the BAND F trimmer (located under chassis- See assembly print #2, part #CF-G) for "zero-beat". The whistle at this step may be somewhat erratic due to the high frequencies involved.
- 9. This completes the approximate alignment of the signal generator. The following procedure may be used for a very accurate alignment.
- A) Feed the RF output of the 315 Signal Generator through a 200 mmfd condenser to the antenna of a receiver. Ground the braided alligator clip to the receiver chassis.
- B) Tune the receiver to a station between 500KC and 600KC.
- C) With the station still coming in, set the 315 Signal Generator on BAND B to the same frequency as the station. Reduce the MULTIPLIER to a lower setting if the station is drowned out. Adjust the BAND B trimmer for "zero-beat" on the receiver. This should only be a very slight adjustment since the range was already approximately set with the other generator.
- D) Set the 315 Signal Generator on BAND A to 1/3 the frequency being received on the receiver. Adjust the BAND A trimmer for "zero-beat".
- E) Tune the receiver to a station between 1400KC and 1700KC. Set the 315 Signal Generator on BAND C to the same frequency as the station. Adjust the BAND C trimmer for "zero-beat".

'o-beat is the point where ly decreases In tone is heard. The whistle will be high pitched and will gradually decrease until no sound is heard and finally, if the rotation is continued in the same direction, it will gradually increase in pitch. The center position (between the 2 high pitched notes) where no sound is heard is the "zero-beat" point. F) Tune an all-wave receiver to some frequency in the neighborhood of 5mc. (WWV, the government station broadcasts on frequencies of 2.5mc, 5mc, 10mc, 15mc, 20mc and 25mc. This is one of the most accurate sources of calibration in the world). Note: If an all-wave receiver is not immediately available, this portion of the calibration may be temporarily deferred since the instrument was approximately aligned with the other signal generator.

Set the 315 Signal Generator to the same frequency as that being received on the receiver. Adjust the BAND D trimmer for "zero-beat".

- G) Tune the receiver to some frequency in the neighborhood of 15mc. Adjust the 315 Signal Generator to the same frequency on BAND E as that being received on the receiver. "Zero-beat" with the BAND E trimmer.
- H) Tune the receiver to some frequency in the neighborhood of 25mc. Adjust the 315 Signal Generator to the same frequency on BAND F as that being received on the receiver. "Zero-beat" with the BAND F trimmer. (This also calibrates BAND G).

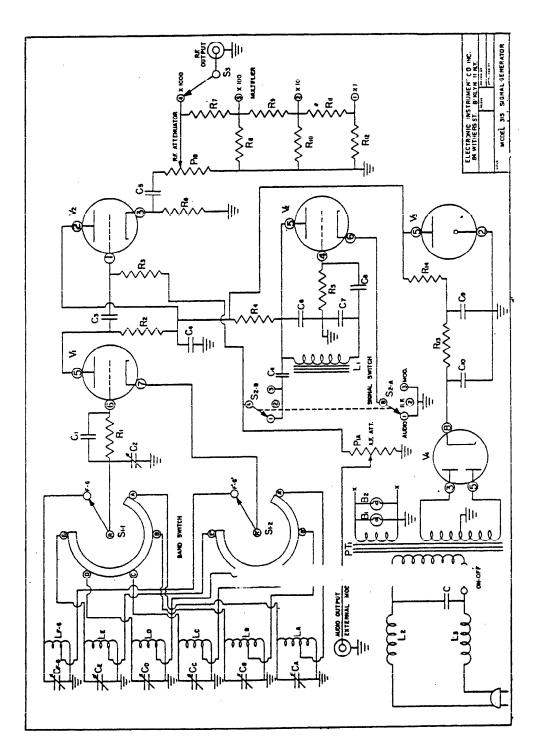
This completes the alignment of your signal generator. It's accuracy should be extremely high and should not require recalibration for many years to come.

- Cabinet: Secure handle to cabinet with 4 #6/32 screws, nuts and lockwashers.
- Shields: Slip RF shield onto H5 over switch S3, (See assembly print #2) and secure cover with #6 self tapping screw (H9) on bottom. The top is located with a small indent. Make certain the wires fit into slot. Cover entire back of chassis with chassis bottom plate H4 and secure with 11, #6/32 (H9) self tapping screws.
- Panel: Thread line cord through elliptical hole in cabinet. Secure panel to cabinet with 12, #6/32 self tapping screws (H9).

In the event of trouble:

- 1. Check all voltages.
- 2. Check individual components for improper wiring or breakdown.
- 3. Recheck the wiring procedure. Nearly all our cases of trouble in the past have improper wiring as their cause.
- 4. If you are still having difficulty, write to our Engineering Dept. (Dept. SG) listing all voltages and whatever other indications you have which might be of help.
- 5. If desired, you may return the instrument to the factory where it will be calibrated and placed in operating condition for a charge of \$5.00 plus any part or alterations required due to damage in construction. Ship with tubes packed separately in the original shipping carton if possible. Pack unit very carefully and send prepaid Railway Express. The generator will be returned as soon as possible Express collect.

SPECIFICATION	#47 bulb #47 bulb ICO mmfd cond. .05 mfd cond. .05 mfd cond. .001 mfd cond. .05 mfd cond. .05 mfd cond. .05 mfd cond. .01 mfd cond. .02 mftd .02 mftd
PART	し 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
SYMBOL	4444 44444 44444 4444 44444 44444 44444 44444 44444 44444 44444 44444 44444 44444 44444 44444 44444 44444 444444 44444 44444 444444 44444 444444 44444 444444 44444 444444 44444 444444 44444 444444 44444 444444 444444 444444 444444 4444444 44444444



MODEL 315 RESISTANCE CHART

	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
V1 - 6C4	-	١K	*0	0	1.6K	22K	0	
V2 - 6SL7	1 .25 M	١K	10K	68K	23K	-	*0	0
V3 - VR150	-	0	0	-	1K	-	0	-
V4 - 6X5	0	0	150Ω	-	150Ω	-	*0	0

 All resistance measurements taken with VTVM and chassis as ground.
 Measurements made with C9 and C10 shorted to ground, multiplier switch at X1000, attenuator pot to MAX., band switch at F,G, band and signal switch at RF.

3. Readings are $\pm 20\%$ or 30%.

* Resistance too small to measure accurately.

MODEL 315 VOLTAGE CHART

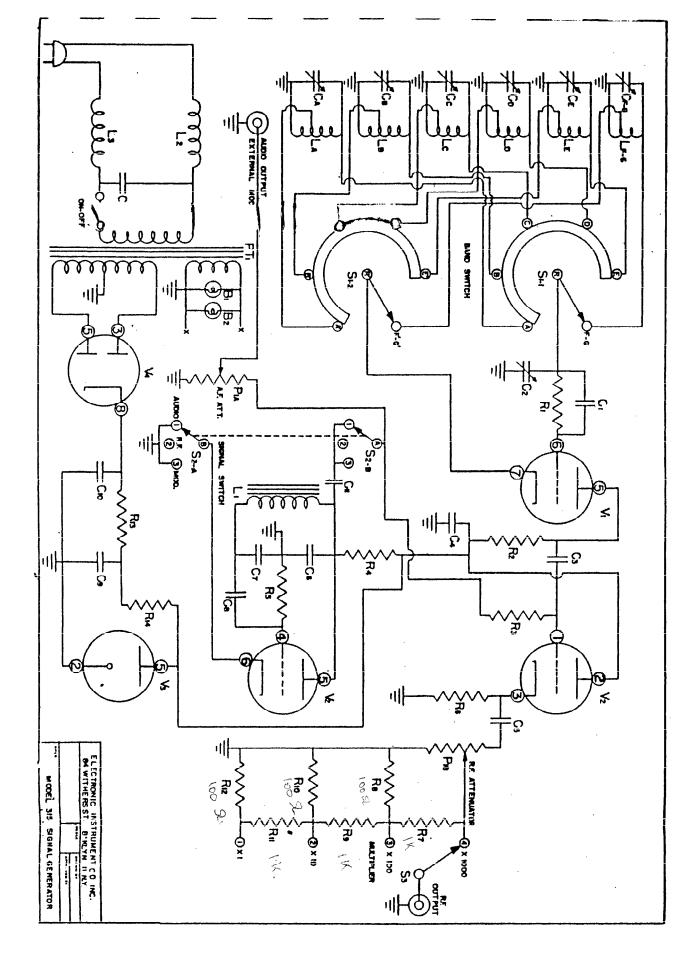
	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
V1 - 6C4	-	140 V	6.3VAC	0	135 V	6V	0	
V2 - 6SL7	.4VAC	140 V	4 V	**0	138 V	-	6.3VAC	0
V3 - VR150	-	0	175 V	-	150V	· -	175V	-
V4 - 6X5	0	0	275 VAC	-	275 VAC	-	6.3VAC	350∨

1. All voltage measurements taken with VTVM and chassis as ground.

2. Measurements taken with multiplier switch at X1000, attenuator pot

to MAX., band switch at F, G, band and signal switch at RF.

** When signal switch is on AUD. or MOD. there is 1.4 VAC.



SYMBOL PA	PART # SPECIFICATION
B2 12324 B2 32456 C2345674 5567 C345674 5567 C10 5567 C12 5567 C12 5567 C12 5567 C12 12 L2 12 L	<pre>1 #47 bulb 1 #47 bulb 2 100 nmfd cond. 3 Main tuning cond. 4 .05 mfd cond. 5 .001 mfd cond. 6 .25 mfd cond. 7 .5 mfd cond. 8 Dual 10 mfd cond. 9 .01 mfd cond. 9 .01 mfd cond. 54 Audio choke 55 Line filter 56 Low frequency coils 76 Middle frequency coils 57 Middle frequency coils 58 High frequency coils 59 1000 ohm 250K dual pot. 60 Power transformer 61 22K ohm 1/2 watt 63 1 meg 1/2 watt 64 68K ohm 1/2 watt 65 1000 ohm 1/2 watt 65 1000 ohm 1/2 watt 66 1000 ohm 1/2 watt 66 1000 ohm 1/2 watt 67 100 ohm 1/2 watt 66 1000 ohm 1/2 watt 67 100 ohm 1/2 watt 66 1000 ohm 1/2 watt 67 100 ohm 1/2 watt 68 6K ohms, 10 watt 69 1K ohms, 1 watt 70 2P-6Pos. switch 71 2P-3Pos. switch 72 1P-4Pos. switch 73 SPST switch 76 6C4 tube 77 6SL7 tube 78 VR150 tube 79 6X5 tube</pre>







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