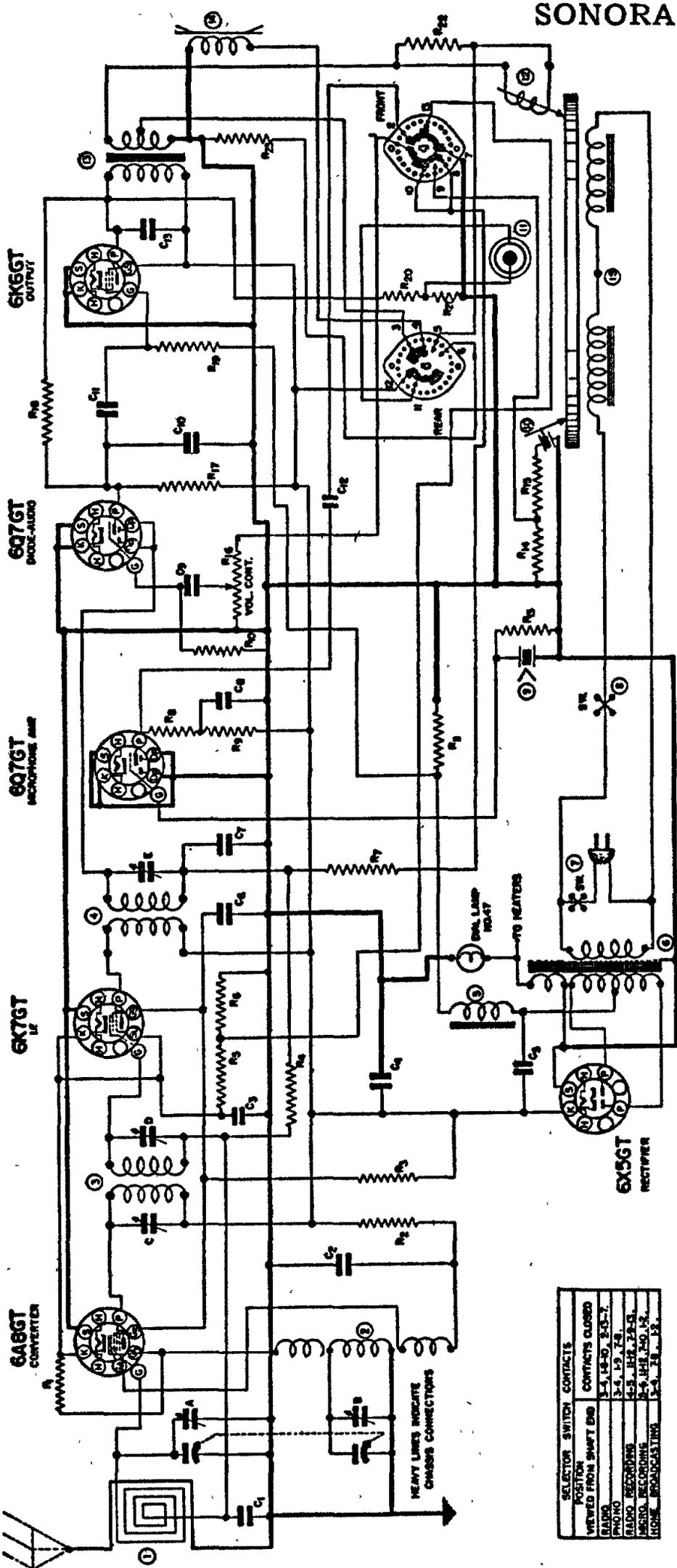


SONORA RADIO & TELEV. CORP.

MODELS LC, LCU

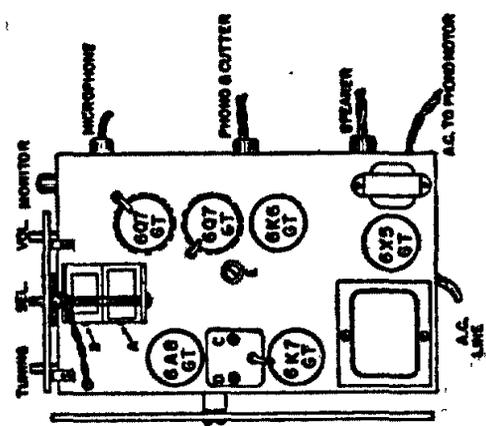


1.6 456 K.C.

6 TUBE A.C.
SUPERHETERODYNE
SINGLE BAND

RECORDER-PHONO-RADIO COMB.

DESIGN-NET APPROVED-257
JULY 9 1949
LCU

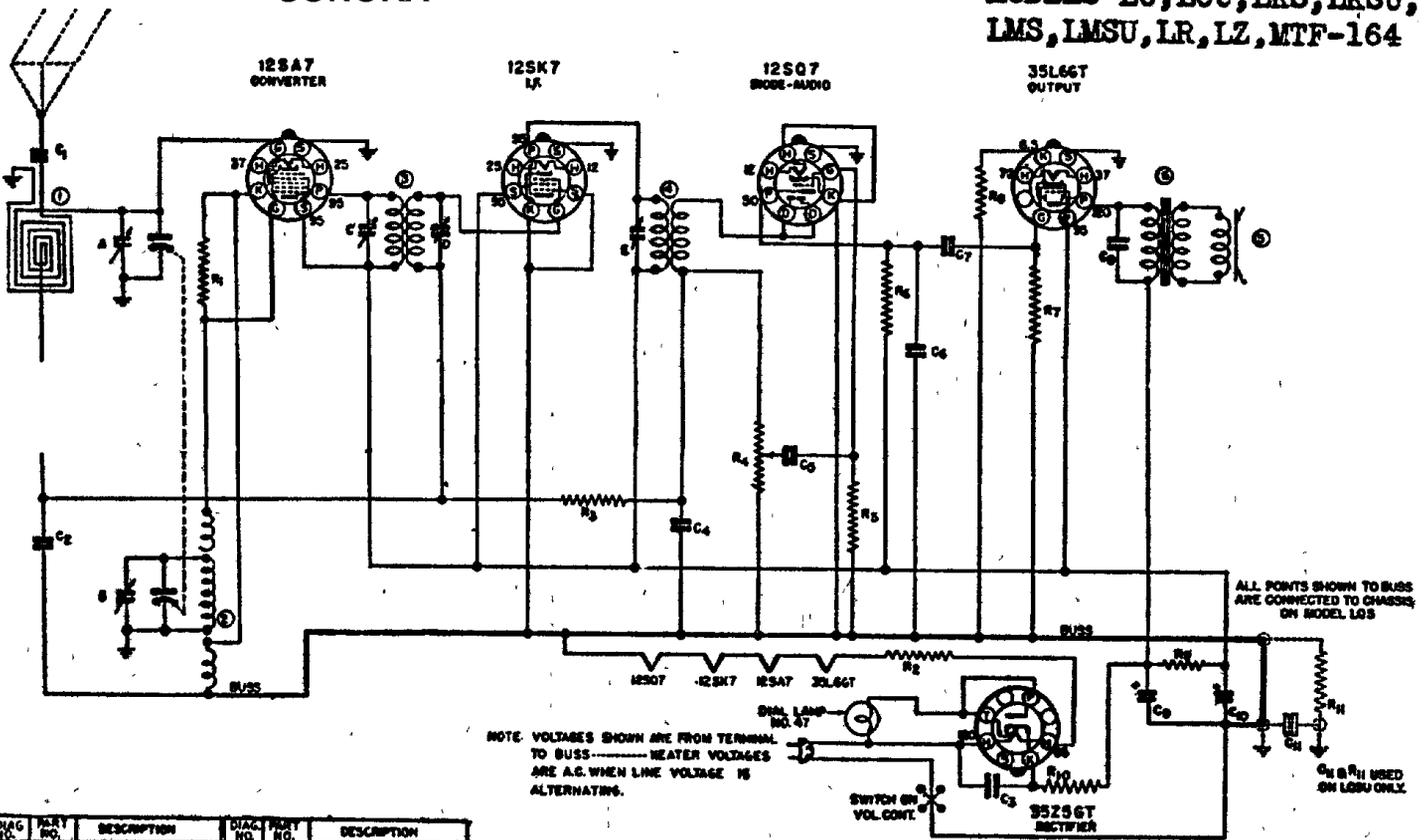


WINDING	RESISTANCE	WATTS	DESCRIPTION	CLASS	PART NO.	DESCRIPTION
W1	14-880 000Ω	0.1W 20%	100 MFD.	1	14-3464	LOOP ANTENNA COIL
W2	14-887 10,000Ω	0.1W 20%	0.05 MFD.	2	14-1452	OSCILLATOR COIL
W3	14-874 25,000Ω	0.1W 20%	0.25 MFD.	3	14-0268	1ST. I.F. TRANSFORMER
W4	14-082 150,000Ω	0.1W 20%	0.5 MFD.	4	14-3443	2ND I.F. TRANSFORMER
W5	14-882 100Ω	0.1W 20%	ELECTRO.	5		SPEAKER FIELD (250 OHMS)
W6	14-827 25,000Ω	0.1W 20%	0.25 MFD.	6	14-3436	POWER TRANSFORMER
W7	14-877 150,000Ω	0.1W 20%	0.5 MFD.	7	14-8880	PHONO MOTOR SWITCH
W8	14-878 250,000Ω	0.1W 20%	1 MFD.	8	14-3428	PHONO MOTOR SWITCH
W9	14-842 150,000Ω	0.1W 20%	0.5 MFD.	9	14-3428	PHONO MOTOR SWITCH
W10	14-842 150,000Ω	0.1W 20%	0.5 MFD.	10	14-3428	PHONO MOTOR SWITCH
W11	14-885 100Ω	0.1W 20%	0.25 MFD.	11	14-3389	PHONO MOTOR SWITCH
W12	14-885 100Ω	0.1W 20%	0.25 MFD.	12	14-3437	PHONO MOTOR SWITCH
W13	14-885 100Ω	0.1W 20%	0.25 MFD.	13	14-3437	PHONO MOTOR SWITCH
W14	14-885 100Ω	0.1W 20%	0.25 MFD.	14	14-3434	5" DYNAMIC SPEAKER
W15	14-885 100Ω	0.1W 20%	0.25 MFD.	15	14-3443	PHONO MOTOR AND TUNING IND.

POSITION	CONTACTS CLOSED
VIEWED FROM SHIFT END	3-5, 13-10, 2-3, 7
RADIO	3-4, 13-7, 2-8
PHONO	3-4, 13-7, 2-8
RADIO RECORDING	4-5, 14-12, 2-9, 13
MICRO. RECORDING	4-5, 14-12, 2-9, 13
HOME BROADCASTING	3-4, 13-7, 2-8, 12

SONORA

MODELS LQS, LQSU
MODELS LC, LCU, LKS, LKSU,
LMS, LMSU, LR, LZ, MTF-164



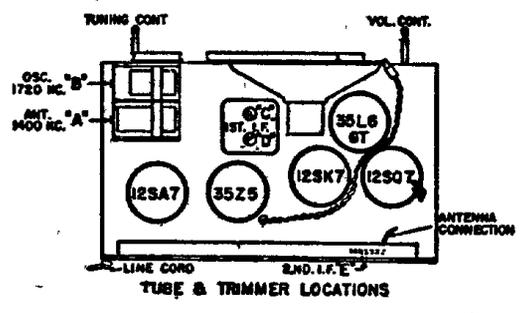
NOTE: VOLTAGES SHOWN ARE FROM TERMINALS TO BUSS—HEATER VOLTAGES ARE A.C. WHEN LINE VOLTAGE IS ALTERNATING.

DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	PART NO.	DESCRIPTION
R1	N-4023	22,000 OHM 5W 20%	1	N-4330	ANTENNA COIL LOOP
R2	N-4028	82 OHM 2W 10%	2	N-3278	OSCILLATOR COIL
R3	N-3175	1 MEG OHM 5W 20%	3	N-4013	1ST. I.F. TRANSFORMER
R4	N-4014	1 MEG OHM VOL. CONT.	4	N-3808	2ND. I.F. TRANSFORMER
R5	N-4029	5.0 MEG OHM 5W 20%	5	N-4010	4" SPEAKER
R6	N-4022	20,000 OHM 5W 20%	6	N-4011	OUTPUT TRANSFORMER
R7	N-3827	470,000 OHM 5W 20%			
R8	N-4024	220 OHM 5W 10%			
R9	N-3341	1000 OHM 5W 20%			
R10	N-4025	33 OHM 5W 20%			
R11	N-1779	100,000 OHM 5W 20% (500V ONLY)			
C1	N-244	.01 MFD. 400 V.			
C2	N-240	.05 MFD. 200 V.			
C3	N-240	.05 MFD. 400 V.			
C4	N-229	100 MMFD. MICA			
C5	N-272	.004 MFD. 400 V.			
C6	N-100	.0005 MFD. 400 V.			
C7	N-241	.01 MFD. 400 V.			
C8	N-273	.02 MFD. 400 V.			
C9	N-405	.33 MFD. 100 V. ELECT.			
C10	N-405	.30 MFD. 100 V.			
C11	N-300	.22 MFD. 200V. (500V ONLY)			

MODELS LQS, LQSU

LF. 456 KC.

5 TUBE AC-DC
SUPER-HETERODYNE
SINGLE BAND
BROWN SET. APPROVED
JUNE, 1941



ALIGNMENT FOR MODELS: LC, LCU, LKS, LKSU, LMS, LMSU, LQS, LQSU, LR, LZ, MTF-164

GENERAL DATA. The alignment of this receiver requires the use of a test oscillator that will cover the frequencies of 456, 600, 1400 and 1720 KC and an output meter to be connected across the primary or secondary of the output transformer. If possible, all alignments should be made with the volume control on maximum and the test oscillator output as low as possible to prevent the AVC from operating and giving false readings.

CORRECT ALIGNMENT PROCEDURE. Remove the chassis from the cabinet and set on a bench taking care that no iron or other metal is near the loop. Do not make this setup on a metal bench. The intermediate frequency (I.F.) stages should be aligned properly as the first step. After the I.F. transformers have been properly adjusted and peaked, the broadcast band should be adjusted.

I. F. ALIGNMENT. With the gang condenser set at minimum, adjust the test oscillator to 456 KC and connect the output to the grid of the first detector tube (12A8GT) through a .05 or .1 mfd. condenser. The ground on the test oscillator should be connected to the chassis ground. Align all three I.F. trimmers to peak or maximum reading on the output meter.

BROADCAST BAND ALIGNMENT. Connect the test oscillator to the antenna of the set through a 200 mmfd. (.0002) condenser. With the gang condenser set at minimum capacity, set the test oscillator at 1720 K.C. and adjust the oscillator (or 1720 KC trimmer) on gang condenser. Next—set the test oscillator at 1400 KC, and tune in the signal on the gang condenser. Adjust the antenna trimmer (or 1400 KC trimmer) for maximum signal. Next set the test oscillator at 600 KC, and tune in signal on condenser to check alignment of coils.

* 6A8GT for MODELS: LC, LCU, 12SA7 for MODELS: LKS, LKSU, LMS, LMSU, LQSU, LQS, 1A7GT for MODELS: LR, LZ

Δ 4 I.F. TRIMMERS ON MODELS LC, LCU, LKS, LKSU

† 100 mmfd for MODELS: LKS, LKSU, LMS, LMSU, LQS, LQSU