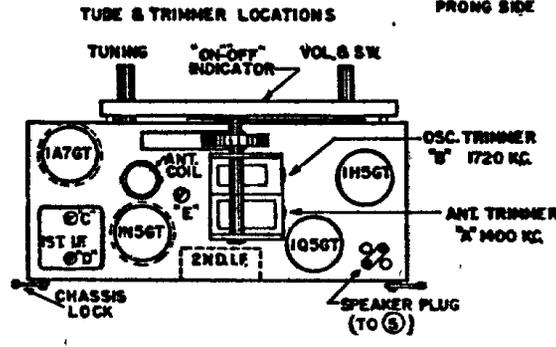
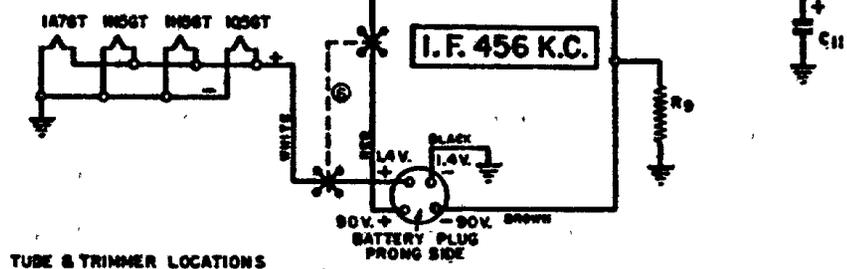


SHAFT NO	PART NO	DESCRIPTION	QTY	PART NO	DESCRIPTION
R1	N-2877	200,000 ohm 50%	1	N-3400	ANTENNA COIL
R2	N-2871	50,000 ohm 10%	2	N-3407	OSCILLATOR COIL
R3	N-1273	50,000 ohm 20%	3	N-3410	1ST I.F. TRANS.
R4	N-2873	2 MEG OHM 20%	4	N-3418	2ND I.F. TRANS.
R5	N-2874	1 MEG OHM 20%	5	N-3408	OUTPUT TRANS.
R6	N-2770	1 MEG OHM 20%	6		BATTERY SW.
R7	N-1844	1 MEG OHM 20%	7		BATTERY SW.
R8	N-1270	2 MEG OHM 20%	8		ON VOL. CONT.
R9	N-2899	420 ohm 50%	9		
R10	N-1200	50,000 ohm 20%	10		
		(All resistors are 5-watt 50%)		N-3407	GANG CONDENSER
				N-2825	BATTERY CABLE
C2	N-1245	50 MFD. 250V.			
C4	N-2840	50 MFD. 250V.			
C5	N-1276	50 MFD. 400V.			
C6	N-1842	50 MFD. 250V.			
C7	N-2712	.004 MFD. 400V.			
C8	N-1242	50 MFD. 250V.			
C9	N-1244	51 MFD. 400V.			
C10	N-2712	.004 MFD. 400V.			
C11	N-2827				
C12		CAPACITY IN OSCILLATOR COIL			



NOTE: TUBE SOCKETS SHOWN FROM WIRING SIDE.

**4 TUBE - 1 1/2 VOLT**  
 SUPERHETERODYNE  
 SINGLE BAND

DRAWN W.E. APPROVED J.W. [Signature]  
 JULY 11, 1940.

**ALIGNMENT FOR MODELS: LV-181, KL-185, LV-186**

**GENERAL DATA.** The alignment of this receiver requires the use of a test oscillator that will cover the frequencies of 456, 600, 1400, 1720, 6000, 15000 and 18300 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.** 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 and Short Wave bands in the order given, should be aligned.

**I.F. ALIGNMENT.** With the wave switch in the Broadcast Band and 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 (6SG7 or 6SD7) through a .05 or .1 mfd. condenser. The ground on the test oscillator should be connected to the chassis base. Align all four I.F. trimmers to peak or maximum reading on the output meter.

**BROADCAST BAND ALIGNMENT.** With the switch turned to the broadcast position, connect the antenna to the generator through a 100<sup>†</sup> MMF dummy and the ground of the set (Black wire) to

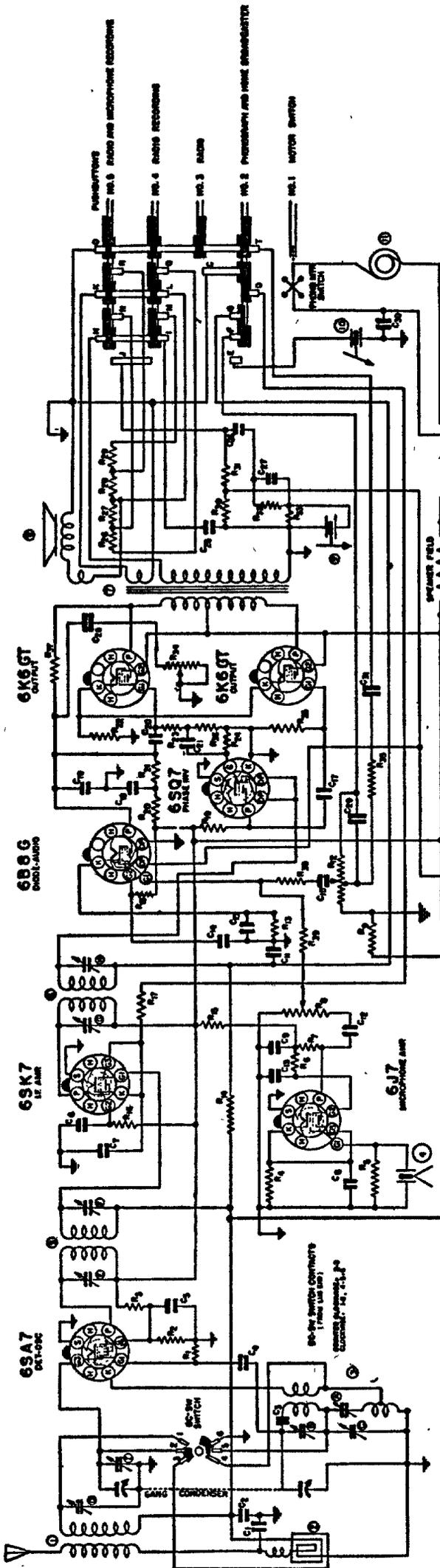
the generator ground. Set the dial and generator at 1720 KC. Align the BC oscillator trimmer for maximum output. Set the generator at 1400 KC and tune-in signal with the dial. Adjust antenna trimmer for maximum output. Next set the generator at 600 KC and tune in the signal with the dial. Adjust the BC pad by rocking the gang back and forth while adjusting the pad until maximum output is attained. Recheck the adjustment at 1400 KC as the pad adjustment may have caused misalignment.

**SHORT WAVE BAND ALIGNMENT.** With the band switch turned to the S. W. position, connect the generator to the antenna with a 400 ohm dummy and the ground of the set (Black wire) to the generator ground. Adjust the S. W. oscillator to give a maximum output with the dial at 18300 KC (extreme end). Set the generator at 15000 KC and tune-in the signal with the dial. Adjust the antenna trimmer for maximum output. With a strong signal input turn the dial to approximately 1 M. C. lower in frequency and pick up the image frequency. If the image is not received, it will be necessary to return the dial to 18300 KC to reduce the capacity in the oscillator trimmer until a second signal is received. Proceed as before with the alignment of the antenna and recheck for image frequency. Check the sensitivity at 6000 KC to determine if the coils and mixer pad are not defective.

\* 6SA7 for MODEL KL-185      † 200 mmf for MODEL KL-185

# SONORA RADIO & TELEV. CORP.

## MODEL KL-185



IF- 456 KC.

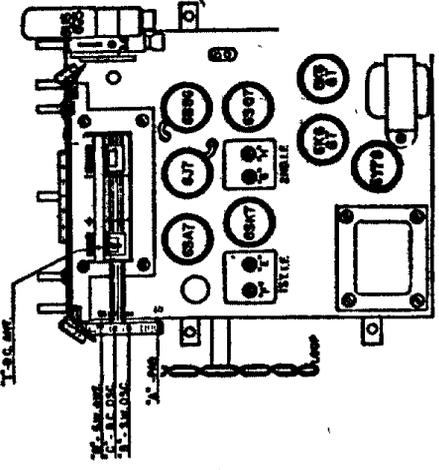
SUBSTITUTION SWITCH CONTACTS	
NO. 1	NO. 1
NO. 2	NO. 2
NO. 3	NO. 3
NO. 4	NO. 4
NO. 5	NO. 5
NO. 6	NO. 6
NO. 7	NO. 7
NO. 8	NO. 8
NO. 9	NO. 9
NO. 10	NO. 10
NO. 11	NO. 11
NO. 12	NO. 12

9 TUBE A.C. SUPERHETERODYNE TWO BAND RECORDING PHONO-RADIO  
 DRAWING NO. 185-100  
 REVISED APR. 1944

QTY	PART NO.	DESCRIPTION
1	M-1851	1 MEGOHM .5W 20%
1	M-1852	100,000 OHM .5W 20%
1	M-1853	0.25 MEGOHM MICROPHONE CONTROL
1	M-1854	1 MEGOHM .5W 10%
1	M-1855	1 MEGOHM .5W 10%
1	M-1856	1 MEGOHM .5W 20%
1	M-1857	2,300 OHM .5W 20%
1	M-1858	50 MEGOHM VOLUME CONTROL
1	M-1859	1 MEGOHM .5W 20%
1	M-1860	50,000 OHM .5W 20%
1	M-1861	75,000 OHM .5W 20%
1	M-1862	250 OHM .5W 20%
1	M-1863	1.2 MEGOHM .5W 20%
1	M-1864	150,000 OHM .5W 20%
1	M-1865	50,000 OHM .5W 20%
1	M-1866	250,000 OHM .5W 20%
1	M-1867	100,000 OHM .5W 20%
1	M-1868	100,000 OHM .5W 20%
1	M-1869	100,000 OHM .5W 20%
1	M-1870	100,000 OHM .5W 20%
1	M-1871	100,000 OHM .5W 20%
1	M-1872	100,000 OHM .5W 20%
1	M-1873	100,000 OHM .5W 20%
1	M-1874	100,000 OHM .5W 20%
1	M-1875	100,000 OHM .5W 20%
1	M-1876	100,000 OHM .5W 20%
1	M-1877	100,000 OHM .5W 20%
1	M-1878	100,000 OHM .5W 20%
1	M-1879	100,000 OHM .5W 20%
1	M-1880	100,000 OHM .5W 20%
1	M-1881	100,000 OHM .5W 20%
1	M-1882	100,000 OHM .5W 20%
1	M-1883	100,000 OHM .5W 20%
1	M-1884	100,000 OHM .5W 20%
1	M-1885	100,000 OHM .5W 20%
1	M-1886	100,000 OHM .5W 20%
1	M-1887	100,000 OHM .5W 20%
1	M-1888	100,000 OHM .5W 20%
1	M-1889	100,000 OHM .5W 20%
1	M-1890	100,000 OHM .5W 20%
1	M-1891	100,000 OHM .5W 20%
1	M-1892	100,000 OHM .5W 20%
1	M-1893	100,000 OHM .5W 20%
1	M-1894	100,000 OHM .5W 20%
1	M-1895	100,000 OHM .5W 20%
1	M-1896	100,000 OHM .5W 20%
1	M-1897	100,000 OHM .5W 20%
1	M-1898	100,000 OHM .5W 20%
1	M-1899	100,000 OHM .5W 20%
1	M-1900	100,000 OHM .5W 20%

QTY	PART NO.	DESCRIPTION
1	M-1901	1 MEGOHM .5W 20%
1	M-1902	100,000 OHM .5W 20%
1	M-1903	0.25 MEGOHM MICROPHONE CONTROL
1	M-1904	1 MEGOHM .5W 10%
1	M-1905	1 MEGOHM .5W 10%
1	M-1906	1 MEGOHM .5W 20%
1	M-1907	2,300 OHM .5W 20%
1	M-1908	50 MEGOHM VOLUME CONTROL
1	M-1909	1 MEGOHM .5W 20%
1	M-1910	50,000 OHM .5W 20%
1	M-1911	75,000 OHM .5W 20%
1	M-1912	250 OHM .5W 20%
1	M-1913	1.2 MEGOHM .5W 20%
1	M-1914	150,000 OHM .5W 20%
1	M-1915	50,000 OHM .5W 20%
1	M-1916	250,000 OHM .5W 20%
1	M-1917	100,000 OHM .5W 20%
1	M-1918	100,000 OHM .5W 20%
1	M-1919	100,000 OHM .5W 20%
1	M-1920	100,000 OHM .5W 20%
1	M-1921	100,000 OHM .5W 20%
1	M-1922	100,000 OHM .5W 20%
1	M-1923	100,000 OHM .5W 20%
1	M-1924	100,000 OHM .5W 20%
1	M-1925	100,000 OHM .5W 20%
1	M-1926	100,000 OHM .5W 20%
1	M-1927	100,000 OHM .5W 20%
1	M-1928	100,000 OHM .5W 20%
1	M-1929	100,000 OHM .5W 20%
1	M-1930	100,000 OHM .5W 20%
1	M-1931	100,000 OHM .5W 20%
1	M-1932	100,000 OHM .5W 20%
1	M-1933	100,000 OHM .5W 20%
1	M-1934	100,000 OHM .5W 20%
1	M-1935	100,000 OHM .5W 20%
1	M-1936	100,000 OHM .5W 20%
1	M-1937	100,000 OHM .5W 20%
1	M-1938	100,000 OHM .5W 20%
1	M-1939	100,000 OHM .5W 20%
1	M-1940	100,000 OHM .5W 20%
1	M-1941	100,000 OHM .5W 20%
1	M-1942	100,000 OHM .5W 20%
1	M-1943	100,000 OHM .5W 20%
1	M-1944	100,000 OHM .5W 20%
1	M-1945	100,000 OHM .5W 20%
1	M-1946	100,000 OHM .5W 20%
1	M-1947	100,000 OHM .5W 20%
1	M-1948	100,000 OHM .5W 20%
1	M-1949	100,000 OHM .5W 20%
1	M-1950	100,000 OHM .5W 20%

QTY	PART NO.	DESCRIPTION
1	M-1951	1 MEGOHM .5W 20%
1	M-1952	100,000 OHM .5W 20%
1	M-1953	0.25 MEGOHM MICROPHONE CONTROL
1	M-1954	1 MEGOHM .5W 10%
1	M-1955	1 MEGOHM .5W 10%
1	M-1956	1 MEGOHM .5W 20%
1	M-1957	2,300 OHM .5W 20%
1	M-1958	50 MEGOHM VOLUME CONTROL
1	M-1959	1 MEGOHM .5W 20%
1	M-1960	50,000 OHM .5W 20%
1	M-1961	75,000 OHM .5W 20%
1	M-1962	250 OHM .5W 20%
1	M-1963	1.2 MEGOHM .5W 20%
1	M-1964	150,000 OHM .5W 20%
1	M-1965	50,000 OHM .5W 20%
1	M-1966	250,000 OHM .5W 20%
1	M-1967	100,000 OHM .5W 20%
1	M-1968	100,000 OHM .5W 20%
1	M-1969	100,000 OHM .5W 20%
1	M-1970	100,000 OHM .5W 20%
1	M-1971	100,000 OHM .5W 20%
1	M-1972	100,000 OHM .5W 20%
1	M-1973	100,000 OHM .5W 20%
1	M-1974	100,000 OHM .5W 20%
1	M-1975	100,000 OHM .5W 20%
1	M-1976	100,000 OHM .5W 20%
1	M-1977	100,000 OHM .5W 20%
1	M-1978	100,000 OHM .5W 20%
1	M-1979	100,000 OHM .5W 20%
1	M-1980	100,000 OHM .5W 20%
1	M-1981	100,000 OHM .5W 20%
1	M-1982	100,000 OHM .5W 20%
1	M-1983	100,000 OHM .5W 20%
1	M-1984	100,000 OHM .5W 20%
1	M-1985	100,000 OHM .5W 20%
1	M-1986	100,000 OHM .5W 20%
1	M-1987	100,000 OHM .5W 20%
1	M-1988	100,000 OHM .5W 20%
1	M-1989	100,000 OHM .5W 20%
1	M-1990	100,000 OHM .5W 20%



TUBE & TRIMMER LOCATIONS