

Model 5S, 6S

The "Nipigon"

Radio Receiver

Specifications

Tubes:

235	1st R.F.
235	2nd R.F.
224	Detector
247	Audio
280	Rectifier

Position**Controls:**

Left—Volume and Switch
Right—Tuning

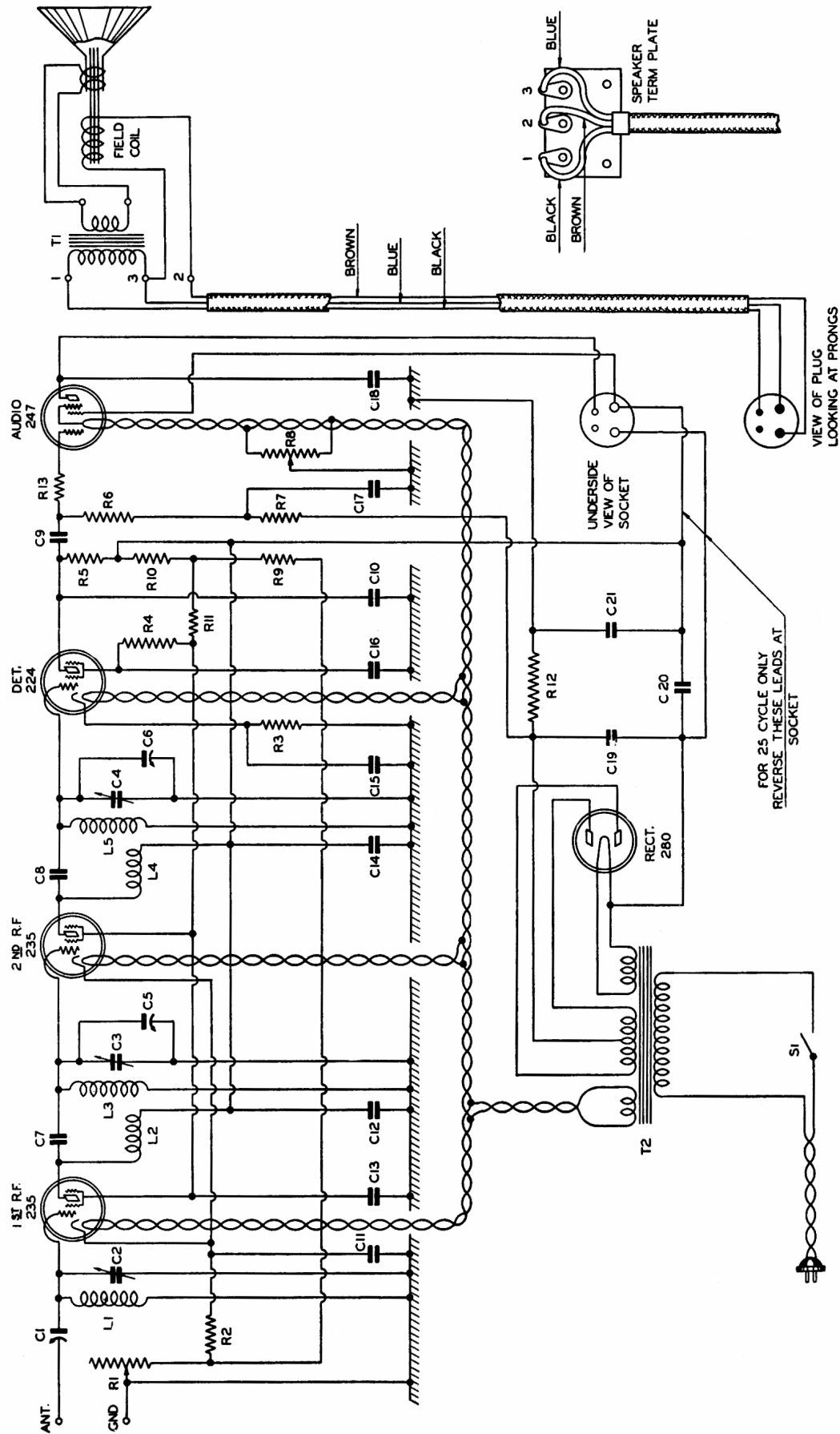
Power Supply:

Model 5S—110 volt A.C. 60 cycles
Model 6S—110 volt A.C. 25 cycles

Antenna:

Overall length not to exceed 75 feet, including
lead-in. Maximum height attainable.

THE "NIPIGON" MODEL 5S, 6S



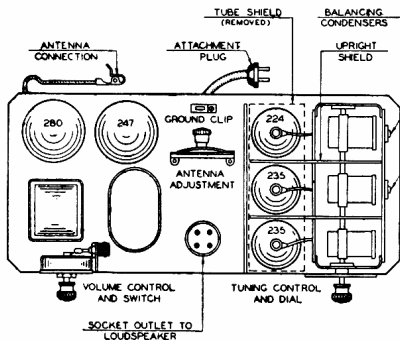
Schematic Diagram "Nipigon" Model 5-S Chassis

NOMENCLATURE

C-1	Antenna Trimming Condenser	R-1	Volume Control 10,000 ohms.
C-2	Main Tuning Condensers (ganged)	R-2	R.F. Cathode Resistor 200 ohms.
C-3		R-3	Detector Cathode Resistor 50,000 ohms.
C-4		R-4	Detector Screen Resistor 2 megohms.
C-5		R-5	Detector Plate Resistor 1 megohm.
C-6	Alignment Condensers	R-6	Audio Grid Resistor 500,000 ohms.
C-7	R.F. Interstage Coupling Capacities	R-7	Audio Grid Resistor 100,000 ohms.
C-8		R-8	Mid tap Resistor
C-9		R-9	Divider Resistor 20,000 ohms. (Bleeder)
C-10		R-10	Divider Resistor 15,000 ohms.
C-11	Audio Coupling Condenser .006 mfd.	R-11	Main Screen Resistor (R.F. & Detector) 10,000 ohms.
C-12	Detector Plate By-pass .0001 mfd.	R-12	Audio Bias Resistor 400 ohms.
C-13	R.F. Cathode By-pass .05 mfd.	R-13	Suppressor Resistor 250,000 ohms.
C-14	First R.F. Plate By-pass .05 mfd.	L-1	Antenna Coil
C-15	R.F. Screen By-pass .25 mfd.	L-2	Second R.F. Coil Primary
C-16	Second R.F. Plate By-pass .05 mfd.	L-3	Second R.F. Coil Secondary
C-17	Detector Cathode By-pass 1.0 mfd.	L-4	Detector Coil Primary
C-18	Detector Screen By-pass .25 mfd.	L-5	Detector Coil Secondary
C-19	Audio Grid By-pass .01 mfd.	T-1	Output Transformer (Mounted on Speaker)
C-20	Audio Plate By-pass .01 mfd.	T-2	Power Transformer
C-21	Filter Condenser 4.0 mfd.		
S-1	Switch		

SOCKET VOLTAGES

Position of Tube	Type of Tube	"A" Volts	"B" Volts	Screen Volts	Control Grid "C" Volts	Cathode Volts	Normal Plate Current	Plate Mils. on Grid Change
1st R.F.....	235	2.0	235	115	3	3.5	5.5	8.5
2nd R.F.....	235	2.1	235	115	3	3.5	9.5	12.5
Detector.....	224	2.1	35	12.5	1.8	5	.05	.1
Audio.....	247	2.2	235	245	*3	...	33	36
Rectifier.....	280	4.6	...	...	...	...	Each plate 20 M.A.	



THE "NIPIGON" CHASSIS
Model No. 5-S (60 cycle)
Model No. 6-S (25 cycle)

FIG. 1

LOUDSPEAKER

This model used two series loudspeakers, one having a fibre and the other a copper centralising piece diaphragm. When diaphragm is being replaced, servicemen should note which diaphragm is needed. The part number for the fibre centralising piece diaphragm is No. 102395 and for the copper No. 102283.

BY-PASS ASSEMBLY

Where one or more by-pass capacitors have shorted, the complete block should be replaced with part K-936. (K-936 replaces

No. 102178). This is a specially designed high and low voltage capacitor block, with the following code colouring:—

White Leads	(2).....	.01 mf.—350 volts
Red Leads	(3).....	.25 mf.—175 volts
Green Lead	(1).....	1 mf.—175 volts
Black Lead	(1).....	.05 mf.—175 volts
Yellow Leads	(2).....	.05 mf.—350 volts