INSTRUCTION MANUAL

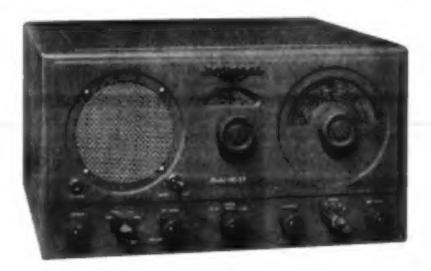
for

THE NATIONAL MODEL NC-57B RADIO RECEIVER

A fine Receiver in a compact, modern package at an attractive low price...







NC-57 RECEIVER

HIGHLIGHTS . . .

- Continuous Frequency Coverage of from 540 kilocycles to 54 megacycles
- * Bandspread Tuning for All Frequencies
- * Automatic Noise Limiter
- * Accessory Connector Socket
- Stabilized Voltage Regulated Circuits
- * R.F. Amplifier Stage with Panel Trimmer
- * Two LF. Amplifier Stages
- * Built-In Loudspeaker and Power Supply

THE NC-57 RADIO RECEIVER

SECTION 1. DESCRIPTION

I-I. General

The NC-57 is a superhetrodyne Radio Receiver, having a complement of seven tubes plus a voltage regulator and rectifier, with a continuous frequency coverage of from 540 kilocycles to 54 megacycles. This Receiver is designed to provide reception of amplitude modulated voice or music and code telegraph signals throughout its entire frequency range. Operational controls mounted on the front panel are held to a minimum consistent with good operation and full utilization of the circuit features contained in the NC-57. The separate bandspread control knob and dial scale makes possible fine, vernier-type tuning for any portion of the frequency spectrum covered by the Receiver. The usefulness of this feature will be outstanding on crowded bands such as the amateur or foreign broadcast bands. The NC-57 employes a voltage regulator tube to assure a high order of stability in the high frequency and beat frequency oscillator circuits.

1-2. Circuit

A stage outline of the circuit employed in the NC-57 is given below together with the tube associated with each stage.

R.F. Amplifier6SG7
Converter6SB7-Y
First I.F. Amplifier6SG7
Second I.F. Amplifier68G7
Second Det A.V.C A.N.L
First Audio - C.W.O6SL7GT
Audio Output6V6GT/G
Voltage RegulatorOD3/VB-150
Rectifier5Y3GT/G

1-3. Tuning System

The three-gang main tuning capacitor, the panel-mounted Trimmer control and five sets of coils are used to tune the frequency range of the Receiver in five tuning bands as shown on the following table. The main tuning capacitor and bandspread capacitor are connected in parallel on all bands.

BAND	FREQUENCY COVERAGE
A	35.0 - 54.0 Mc.
В	12.0 - 35.0 Mg.
C	4.4 - 12.0 Mc.
D	1.55 - 4.4 Mc.
E	0.56 - 1.55 Mc.

It will be noted that Band E encompasses the entire Standard Broadcast Band.

The Amateur bands tuneable by the NC-57 are listed below with their respective receiver band locations and are spread on the bandspread dial by means of the bandspread capacitor approximately as follows:

BAND	AMATEUR BAND	FREQUENCY	DIVISIONS
A	6	50.0 - 54.0 Mc.	60
В	10, 11	27.16- 29.7 Mc.	62
	15	21.0 - 21.5 Mc.	37
	20	14.0 - 14.4 Mc.	75
C	40	7.0 - 7.3 Mc.	60
D	80	3.5 - 4.0 Mc.	80

The main dial has five scales accurately calibrated directly in megacycles. The respective scales are marked with heavy black scorings to clearly locate for the operator such short-wave features as the Amateur, Police and Foreign Broadcast bands. These locating markers are identified by letters AM, P and F, respectively.

1-4. Andio Output

Two audio output circuits are provided:

- (1) The loudspeaker in the NC-57 is a 5 inch PM type capable of faithfully reproducing the ample audio volume delivered by the Receiver. An output transformer is mounted on the loudspeaker to match the impedance of the output tube.
- (2) A Phones jack is mounted on the front panel and is wired so as to silence the loudspeaker when headphones are used. The headphone load impedance is not critical permitting a wide range of headphones types, including crystal, to be used.

1-3. Pourr Sapply

The NE-ST Browner is designed for opcration from a 103/130 volt, 50/60 cycle, source of supply. Norvet power consemption is approximately 70 watto. The healt-in power supply provides all voltages required by the heater and B supply circuits - 2.4 ampares at 6.3 volta and 80 williasperes at 250 wolts, respectively.

The NC-57 is readily adaptable to fattery operation and instructions for using batteries are given in detail in Section 2.

I-th. Accessory Connector Society

As actal type socket to mounted at the

cost of the NC-ST to perent convenient connection of external accessories. The Tenthe Veter, Sh-57, which is available for use with the MC-57, as fatted with a cable and plug to connect directly to this muchet. Veried accessories med as a crystal colibrator or record player are readily connected to the sucket. When a record player is connected to the NC-57, the R. F. GAl's control should be set at the estrone counterclockwise position. Be draming of the Accessory Connector Sochet on the Schoonlie Chagran shows the corrects connections made to the pins of the model and the voltages available. As will be noted B plus and filement voltages are assilable at pinn ? and 3, respectively.

SECTION E. INSTALLATION

2-1. Janualistian Procedure

Carefully unpack the Receives from its pecking crate and procede as follows:

- (II Nake sare A.C. jumper plug, P-1, 1st reer of Secretver) and all tubes are seated limit in their sockets.
- to the terminal labeled G on the extense ground atrib at the rear of the Receiver. This connection is not absolutely required but in cortain localities considerable reduction in interfering noise can be achieved by much a connection.
- (3) Connect the entenne so recon-
 - (4) Connect the power cord, P-2,

to a 103/130 cole, 50/60 eyels, A.C. source of capply.

(5) Set controls as recommended in Section 3 for the reception of signals.

MOTE

Where the Persiver is located in the field of a transmitting station, an would be the case when the NE-57 is used as the Perceiver in a transmitting station, it is advisable to provide some means of preventing damage to the receiver antenna roil. If a separate receiving antenna is used, a means for discouncing the antenna from the Receiver or grounding the estenna during transmission periods should be provided.

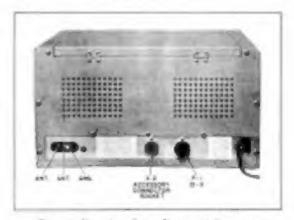


Figure No. 1. Bear View of Receiver

2-2. Battery Operation

The NC-57 Receiver is readily adaptable to portable or emergency service by connecting batteries to the terminals of the power socket, X-1, at the rear of the Receiver. The A.C. jumper plug, P-1, may be rewired for battery connection or if changeover operation is desired another octal plug should be obtained. Do not use the A.C. jumper plug, P-1, for battery operation without first removing the jumper wires. The battery plug used should be wired in accordance with the drawing shown on the schematic diagram. The voltage regulator tube should be removed during battery operation. A 6 volt heater supply (storage battery) should be connected to terminals 3 and 5 and 180 to 250 volt 'B" supply connected to terminals 1 and 8. Current drain is approximately 57 milliamperes and 2.4 amperes at 180 and 6 volts, respectively. A suggested refinement is to include a switch in the A+ lead so that the tube heaters may be turned off when the Receiver is not in use without the necessity of removing the battery plug. The Send-Receive switch on the Receiver is operative with battery operation the same as for A.C. operation. The A.C. line switch on the front panel does not render the Receiver inoperative during battery op-

The recommendations of Section 3, Operation, apply to the battery powered NC-57.

2-3. Antenna Recommendations

The antenna input circuit of the NC-57 is arranged for operation from either a single-wire type, doublet type antenna or

other types having impedances of 70 ohms or more. The input impedance of the antenna circuit is approximately 300 ohms.

The most practical antenna for use in installations where the Receiver is to be used over a wide range of frequencies is the single-wire type. An antenna length of 50 to 100 feet is recommended although the length is not critical and any length between 25 and 200 feet may be used. In installations where the Receiver is tuned to one frequency or narrow band of frequencies optimum results will be obtained by designing the antenna for the operating frequency. In an installation where the Receiver is to be used as the receiving unit, in a transmitting station, the most efficient operation will usually result from use of the transmitting antenna as a receiving antenna also. For switching the antenna from transmitter to receiver, an antenna change-over relay with good high frequency insulation is recommended.

The method of connecting the various types of antennae to the antenna terminal strip at the rear of the Receiver is as follows:

- (1) Single-wire type -- Connect antenna to terminal A at the left of the strip and ground the unused A terminal by means of the metal link.
- (2) Doublet type -- Connect the antenna feeders to the two terminals marked A; the metal link is not used.
- (3) Concentric transmission line type -- Connect the inner conductor to terminal A at the left of the strip and the outer conductor to the other A terminal which, in turn, should be connected to the metal link.

SECTION 3. OPERATION

3-1. Controls

This section on controls is presented prior to the actual operating instructions to give the operator of an NC-57 an understanding of the function of each control on the Receiver. All controls are clearly identified by front panel markings and are arranged in a manner to facilitate operation.

The R.F. GAIN control adjusts the sensitivity (ability to receive weak and distant stations) of the Receiver from a minimum at the extreme counterclockwise position of the knob to a maximum at the extreme clockwise position. This is accomplished by adjustment of the amplification of the R.F. and I.F. amplifier stages.

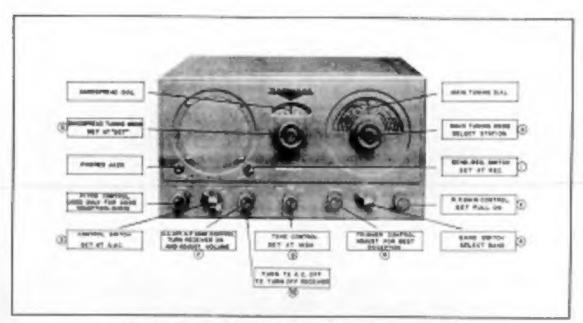


Figure No. 2. Simplified Operating Instructions

The BAND switch has five positions and serves to select the band of fraquencies to be tuned by the Perciver. The five positions are marked with identifying hand designations which correspond to the markings which appear on the main tuning dial.

The TRIMMER control operates a tuning especitor trianer which is connected across the first R.F. amplifier main tuning capacitor section. The trianer control is used to tune the R.F. amplifier stage properly under a wide variety of misses loading conditions.

The TONE control adjusts the tonal value of the sudio output of the Receiver. The three quartions select a tonal output on follows: High-normal receiver reproduction in which an average tonal output in achieved; Wed-reproduction in which the higher tones are moderately attenuated; Low-in this position the higher tones are subdued exphasizing the lower tones.

The A.F. GAIN-A.C. OFF control is a dual purpose type. In the A.C. OFF position the Becaiver is turned off; when the control knob is turned clockwise the A.C. line switch is closed, thus turning on the Beceiver. The other function of this control is to adjust the sudio output val-

ums of the Secriver. Andre values is progressively increased to a maximum when the knob is turned to the extreme clockwise position.

The control switch labeled C.W.O., V. V.C., A. Y.C. and A. N. L. has four functions corresponding to the switch markings. In the A.V.C. position the automatic volone circuit is smitched into the circuit to compensate for fluctuating volume due to feding. In the A.N.L. position the matenotic noise limiter to switched on to effactively reduce interference caused by static, nutomobile ignition noise etc. Limiting action automotically takes place at a relatively high percentage modulation. The automatic values control circuit remains operative in the A.N.L. position of the control switch. The W.V.C. position disables the A.Y.C., C.R.O. and A.N.L. circuits. The C. S.O. position switches into the circuit the C.W. escillator to permit reception of code telegraph signals.

The PITCH control is used in conjunction with the C.F.O. position of the control switch and has no effect on rucmiver performance with any other control switch setting. The PITCH control is used to adjust the best note of the incoming code signal to an audio tone pleasing to the operator. The C.W. oscillator is tuned to the Receiver's intermediate frequency mid-scale on the control knob. The range of the PITCH control is approximately ±3,000 cycles.

The SEND-RECEIVE switch is used to quiet the Receiver during transmission periods or other times when it is desirable to be able to resume reception immediately after a period of silence (i.e. not having to wait for the tubes to warm up). The SEND-RECEIVE switch should not be used to shut off the Receiver. The Receiver should be turned off by turning the A.F. GAIN control to A.C. OFF position. function of the SEND-RECEIVE switch may be duplicated at an external (remote) position by connecting a switch or relay to terminals 5 and 8 of the A.C. jumper plug (P-1). This is a parallel arrangement permitting the panel-mounted SEND-RECEIVE switch to remain operative.

The main tuning control knob and dial scale are used to tune the frequency range of the Receiver. The band of frequencies tuned at any one time is determined by the BAND switch setting. To maintain correct calibration when using the main tuning knob the bandspread dial pointer must be at the "set" mark (located at 100 on the bandspread dial scale).

The bandspread control knob and dial scale are used to spread out over a wide range any small portion of the frequency range of the Receiver. Bandspread tuning is accomplished by setting the main tuning dial pointer at the high-frequency limit of the band of frequencies to be spread (for example: to tune the amateur 10 meter band set the pointer at 29.7 megacycles on the B band) and rotate the bandspread knob in a clockwise direction.

3-2. Voice or Music Reception

After the NC-57 Receiver is properly installed, as outlined in Section 2, it is placed in operation by adjusting the receiver controls as follows:

- Set the SEND-RECEIVE switch at Receive.
- 2. Turn the R.F. GAIN control to the extreme clockwise position.
 - 3. Set the control switch at A. V. C.
 - 4. Set the BAND switch at the

band of frequencies to be tuned. The Standard Broadcast Band is band E.

- Set the bandspread dial pointer at the 'Set' mark.
- Set the main tuning dial pointer at the desired frequency.
- 7. Turn the A.F. GAIN-A.C. OFF control from the A.C. OFF position to the point providing the desired audio volume. Reset main tuning dial pointer if necessary.
 - 8. Set the TONE control at High.
- Set the TRIMMER control for maximum response. Maximum response is clearly indicated by use of the SM-57 Tuning Meter; the correct setting of the TRIMMER control is indicated by maximum deflection of SM-57 meter pointer. In order to secure a good aural indication of the correct TRIMMER setting, if the SM-57 is not used, it is recommended that the control switch be set at M.V.C. temporarily to adjust the TRIMMER control. In this case it may be necessary to retard the R.F. GAIN control if overload of the Receiver occurs, as will be indicated by excessive distortion. In the absence of signals the trimmer control may be 'beaked' by setting it for maximum receiver background noise.

The settings given above are for the reception of signals of average strength. An improvement in the reception of exceptionally weak signals or signals accompanied by interfering noise pulses may be realized by modification of the above settings.

For improvement in the reception of weak signals set the control switch at M.V.C. and modify the other control settings as follows:

- Set the A.F. GAIN control at approximately three-quarters rotation.
- 2. Adjust the audio volume by means of the R.F. GAIN control.

When a signal is accompanied by static peaks or noise pulses of high intensity and short duration, optimum noise-free reception will be had by setting the control switch at A.N.L. The resulting automatic limiting action will greatly reduce the interfering noise without noticeably affecting the signal. Best limiting action will be realized with the P.F. GAIN control

fully edvanced; the audio volume should be adjusted by means of the A.F. GAIN control. A further improvement is noise reduction will be realized by setting the TONE switch at Med. or low depending on the degree of noise.

Il-II. Code Felegraphy Reception

The edjustment of the receiver controls for code reception is the same as that for voice or wasic except for the follosing:

- 1. Set the control amitch at C.W.O.
- Z. Set the A.F. GAIN control at three-quarters rotation.
- 3. Adjust the media volume by means of the R.F. GAIN control.
- 4. Adjust the PITCH control to secure an endio tone pleasing to copy.

The action of the TONE control is the same as that described is Section 3-2.

SECTION & MAINTENANCE AND TEST BATA

4-1. General Maintenance Data

The NC-ST is designed and constructed to assure a long period of uninterrupted service. A few service bints are given below to aid in locating individual compoments which, due to age or weakness, cause faulty operation of the Macrison.

Vacuum tabe failure may be evidenced by reduction in sensitivity, intermittant operation or an imporative Receiver. Tabes may be checked in mitable tube testing equipment, or by replacement with tubes of proven quality. Care must be taken that tubes removed for checking are returned to their original nuckets. Tubes of the same type will vary slightly in their individual characteristics and this fact should be borne in mind if replacement of the H.F. oscillator tube becomes necessary. A check of the dial calibration should be made if this tube is replaced to determine whether or not realizament is necessary.

Bypass or filter capacitors which become open may cause decreased sensitivity, oscillation, poor stability or complete failure of the Beceiver. The defective unit can be located by temporarily connecting a good capacitor in parallel with each suspected capacitor. Leaky or short-circuited capacitors can be detected by an observer check; a pero remistance reading

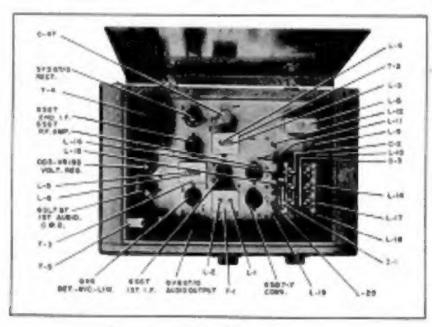


Figure No. 3. Top View of Receiver

of the ohmmeter will indicate a shorted capacitor.

Defective resistors, sometimes caused by capacitor failure in associated circuits, can be definitely located by measuring the resistance of each resistor. The Schematic Diagram should be consulted to ascertain that any particular resistor under test is not connected in parallel with some other circuit element which might produce a false measurement. An overloaded resistor may be located by visual inspection if the surface of the resistor becomes scorched due to excessive heating.

4-2. Voltage Tabalation

The measurements of voltage shown on the following table are tabulated using a high-impedance vacuum tube voltmeter with a line voltage of 115 volts. The control settings to be observed are as follows:

- 1. R.F. GAIN full on. (extreme clockwise position)
 - BAND switch at E.
- 3. Main tuning dial pointer at 1.5 mc.
- Control switch at M.V.C. except as noted.

All voltages are measured between specified terminal and chassis.

TUBE TERMINAL	PIN	VOLTS ± 15%
R.F. Amp. Cathode	3&5	2.3
R.F. Amp. Screen	6	130
R.F. Amp. Plate	8	210
H.F. Osc. Plate	3	250
First Det. Grid	4	100
H.F. Osc. Grid	5	-19
First I.F. Amp. Cathode	3&5	1.6
First I.F. Amp. Screen	6	60
First I.F. Amp. Plate	8	250
Second I.F. Amp. Cathode	3&5	2.4
Second I.F. Amp. Screen	6	130
Second I.F. Amp. Plate	. 8	250
Limiter Plate	3	6*
Limiter Cathode	4	.3*
Second Detector Plate	5	3
First Audio Plate	2	90
First Audio Cathode	3	1.2
C.W. Oscillator Grid	4	-2.8**
C.W. Oscillator Plate	5	120**
Audio Output Plate	3	230
Audio Output Screen	4	250
Audio Output Cathode	8	13
Rectifier Fil.	2	270
Rectifier Plate	4	300 A.C.
Rectifier Plate	6	300 A.C.
Rectifier Fil.	8	270
Voltage Regulator Anode	5	150
* Control Switch at A.N	. L.	
** Control Switch at C. W		

SECTION 5. ALIGNMENT DATA

5-1. General

The alignment of the NC-57 may be divided into two steps:

- 1. Intermediate Frequency Amplifier Alignment.
 - 2. General Coverage Alignment
 - a. H.F. Oscillator
- b. First Detector and R.F. Amplifier.

The necessity for any realignment may be determined by checking the performance of the Receiver against its normal operation, as outlined in Section 3, and the dial calibration. It is recommended that, if tests indicate realignment is required, the instructions given in this section are thoroughly read and understood before realignment is attempted. For alignment purposes the Receiver should be set up as

specified in Section 2-1 except that the antenna should be disconnected. An output meter with a resistive load of 8 ohms should be connected to the Phones jack on the front panel of the Peceiver.

5-2. I.F. Amplifier Alignment

The intermediate frequency of the NC-57 Receiver is 455 kilocycles. The two I.F. transformers and the detector input transformer have permeability tuned iron-core inductors with screw adjustments for alignment purposes. These adjustments are accessible from the top inside of the cabinet as shown on Figure No. 3.

The alignment procedure is as follows:

1. Connect the 'high" output lead
of an accurately calibrated signal generator to the stator of the detector portion of the main tuning capacitor, C-2B,

SELTION 6. SM-57 TUNING METER



Figure No. 6. 59-57 Toning Noter

6-1, General

The SM-57 Timing Meter in available on an accessory for use with the NC-57 on a tuning indicator and relative nignal strength indicator. The SM-57 is fitted with a cable and plug for commection to the Accessory Connector Socket at the rear of the NC-57 and is contained in a metal case finished to match the Beceiver.

To utalize the SU-S7 the following receiver control settings must be observed:

- I. Control switch at A. V.C. or A.N.L.
- 2. R.F. GAIN control full on-(Notarding the R.F. GAIN control will reduce the momitivity of the meter.) The correct dial matting for any specific station on the dial in that setting which provides maximum deflection of the muter

posator. 18-3. Moseo Adjustment

Two adjustments are provided on the SM-ST; one mechanical and the other electrical.

- 1. Nechasical -- With the Receiver turned off, the meter pointer should read 40 db. (the last scale warking). If it does not, correction is effected by the screw adjustment on the front of the meter.
- 2. Electrical -- With the Paceiver turned on and controls adjusted for neter operation, the meter pointer should read zero (the first scale marking). This test must be made with so signal input to the Receiver. Correction of the zero setting, if required, is made by means of the screwdriver adjustment (R-101) at the rear of the meter case.

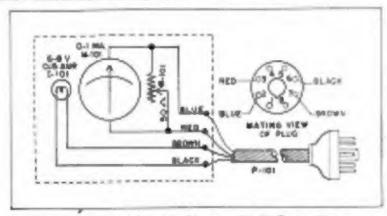


Figure No. 7. Schenatic Diagran -- SN-57 Tuning Meter

PARTS LIST

SECTION 7.

Symbol Function	600 vdcw 100 vdcw 150 vdcw
C-2 Bandspread Tuning C-2A R.F. Bandspread Tuning C-2B lst. Det. Bandspread Tuning C-3C H.F. Gac. Bandspread Tuning C-3C H.F. Gac. Bandspread Tuning C-3A Nain Tuning C-3B R.F. Tuning C-3B R.F. Tuning C-3B lst. Det. Tuning C-4 Trimmer Control A Band R.F. Amp. Padder C-5 A Band R.F. Amp. Padder C-6 Not Used C-7 B Band lst. Det. Coupling R.F. Amp. Grid Caupling C-9 R.F. Amp. Grid Caupling C-10 R.F. Amp. Screen Bypass C-11 A Band lst. Det. Trimmer C-12 B Band lst. Det. Trimmer C-13 C Band lst. Det. Trimmer C-14 D Band lst. Det. Trimmer C-15 B Band lst. Det. Trimmer C-16 A Band lst. Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 C Band lst. Det. Trimmer C-19 H.F. Osc. Grid Caupling C-19 R.F. Amp. Cathode C-10 R.F. Amp. Cathode C-10 R.F. Amp. Cathode C-11 R.F. Amp. Plate Filter C-12 B Band lst. Det. Trimmer C-13 C Band lst. Det. Trimmer C-14 D Band lst. Det. Trimmer C-15 Le Band lst. Det. Trimmer C-16 A Band lst. Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F. Osc. Grid Caupling C-20 Lst. I.F. Amp. Grid fil. C-20 Lst. I.F. Amp. Grid fil. C-21 Lst. I.F. Amp. Grid fil. C-22 Lst. I.F. Amp. Grid fil. C-23 Lst. I.F. Amp. Grid fil. C-24 T-1 Sec. Tuning C-25 Lst. I.F. Amp. Cathode Bypass C-26 Lst. I.F. Amp. Screen Bypass C-27 Lst. I.F. Amp. Cathode Bypass C-28 Lst. I.F. Amp. Screen Bypass C-29 R.F. Amp. Cathode Bypass C-20 Lst. I.F. Amp. Screen Bypass C-21 Lst. I.F. Amp. Screen Bypass C-22 Lst. I.F. Amp. Screen Bypass C-23 Lst. I.F. Amp. Screen Bypass C-24 T.F. Amp. Screen Bypass C-25 Lst. I.F. Amp. Screen Bypass C-26 Lst. I.F. Amp. Screen Bypass C-27 Read H.F. Osc. Carmic, Variable C-47 Power Supply Filter C-47 Power Supply Filter C-47 Power Supply Filter C-47 C-47 AB A Band H.F. Osc. Trimmer C-47 Power Supply Filter C-47 C-47 B B Band H.F. Osc. Trimmer C-48 B Band H.F. Osc. Trimmer C-49 B Band H.F. Osc. Trimmer C-50 Band H.F. Osc. Trimmer C-51 D Band H.F. Osc. Tr	600 vdcw 100 vdcw 150 vdcw
C-2 Bandspread Tuning R.F. Bandspread Tuning R.F. Bandspread Tuning List. Det. Bandspread Tuning C-2 Main Tuning C-3 Main Tuning Air, Part of C-2 Air, Variable Air, Part of C-3 Air, Par	00 vdcw ISO vdcw
C-2B Ist. Det. Bandspread Tun. Air, Part of C-2 Air, Part of C-3 Air, Part of C-4 Band H.F.Osc. Trimmer Ceramic, Variable C-51 Band H.F.Osc. Padder Mica, Air, Part of C-51 Air, Part of C-51 Air, Part of C-51 Air, Variable Mica, Variable Mi	00 vdcw ISO vdcw
C-3C H.F.Osc. Bandspread Tun. C-3 bain Tuning C-3A R.F. Tuning C-3B R.F. Tuning Air, Part of C-3 C-4B Power Supply Filter C-4FA Power Supply	SO vdcw
C-3 kain luning C-3A R.F. Tuning Air, Part of C-3 C-4B ABand H.F. Cac. Trimmer C-6 Not Used C-7 B Band St.Det. Coupling C-9 R.F. Amp. Cathode Bypeass C-10 R.F. Amp. Screen Bypeas C-11 A Band Ist.Det. Trimmer C-12 B Band Ist.Det. Trimmer C-13 C Band Ist.Det. Trimmer C-14 D Band Ist.Det. Trimmer C-15 E Band Ist.Det. Trimmer C-16 A Band Ist.Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F. Cac. Grid Coupling C-19 Ist. Det. Screen Bypass C-21 Ist. Det. Screen Bypass C-22 Ist. I.F. Amp. Grid Filt C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 Ist. I.F. Amp. Screen Bypass C-26 Ist. I.F. Amp. Screen Bypass C-27 Band H.F. Cac. Trimmer C-48 Band H.F. Cac. Trimmer C-50 C Band H.F. Cac. Trimmer C-51 D Band H.F. Cac. Trimmer C-52 C Band H.F. Cac. Trimmer Mica, 100 mmf, 500 vdcw Mica, 100 mmf, 500 vdcw Mica, Variable Mica, Variable C-53 C Band H.F. Cac. Trimmer Mica, Variable C-54 C Band H.F. Cac. Trimmer C-55 E Band H.F. Cac. Trimmer C-56 A Band H.F. Cac. Trimmer Mica, Variable C-57 A Band H.F. Cac. Trimmer Mica, Variable C-58 C Band H.F. Cac. Trimmer C-59 A Band H.F. Cac. Trimmer C-50 Mica, 100 mmf, 50 C-55 E Band H.F. Cac. Trimmer C-56 A Band H.F. Cac. Trimmer C-57 A Band H.F. Cac. Trimmer C-58 B Band H.F. Cac. Trimmer C-59 B Band H.F. Cac. Trimmer C-59 D Band H.F. Cac. Trimmer C-50 Mica, 100 mmf, 50 C-55 E Band H.F. Cac. Trimmer C-57 A Band H.F. Cac. Trimmer C-58 B Band H.F. Cac. Trimmer C-59 Not Used C-60 Audio Coupling C-61 Audio Coupling C-61 Audio Coupling C-62 Tone Paper, 0.01 mfd, 400 vdcw R-7 R.F. Amp. Grid Filt C-7 R.F. Amp. Gri	e 500 vdcw
C-3A R.F. Tuning C-3B Ist. Det. Tuning Air, Part of C-3 Air, Part of C-47 B Band H.F.Osc. Trimmer C-5 C-52 D Band H.F.Osc. Trimer C-55 E Band H.F.Osc. Padder C-54 C-55 Audio Cupling C-61 Audio Cupling C-61 Audio Cupling C-61 Audio Cupling C-61 Audio Cupling C-6	500 vdcw
C-3B	500 vdcw
C-3C H.F. Osc. Tuning C-4 Trimmer Control C-5 A Band R.F. Amp. Padder C-6 Not Used C-7 B Band Ist.Det. Coupling C-8 R.F. Amp. Grid Caupling C-9 R.F. Amp. Cathode Bypass C-10 R.F. Amp. Screen Bypass C-11 A Band Ist.Det. Trimmer C-12 B Band Ist.Det. Trimmer C-13 C Band Ist.Det. Trimmer C-14 D Band Ist.Det. Trimmer C-15 E Band Ist.Det. Trimmer C-16 A Band Ist.Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F. Osc. Grid Caupling C-20 Ist. Det. Screen Bypass C-21 Ist. I.F. Amp. Grid Fil. C-22 Ist. I.F. Amp. Grid Fil. C-24 T-1 Sec. Tuning C-26 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-27 Bypass C-28 R.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Ist. I.F. Amp. Cathode Bypass C-24 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Screen Bypass C-26 Ist. I.F. Amp. Screen Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Scre	500 vdcw
C-4 Trimmer Control C-5 A Band R.F. Amp. Padder C-6 Not Used C-7 B Band lst.Det.Coupling C-8 R.F. Amp. Gathode Bypass C-10 R.F. Amp. Cathode Bypass C-11 A Band lst.Det. Trimmer C-12 B Band lst.Det. Trimmer C-13 C Band lst.Det. Trimmer C-14 D Band lst.Det. Trimmer C-15 E Band lst.Det. Trimmer C-16 A Band lst.Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bypass C-19 R.F. Amp. Plate Filter C-19 H.F.Osc. Grid Coupling C-20 Ist. Det. Screen Bypass C-21 Ist. I.F. Amp. Grid Fil. C-22 Ist. I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-26 T.F. Amp. Cathode Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-25 R.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-25 R.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Imfd, 400 vdcw Bypass C-21 Imfd, 400 vdcw Bypass C-22 Imfd Imfd Imfd Imfd Imfd Imfd Imfd Imfd	500 vdcw
C-5 A Band R.F. Amp. Padder C-6 Not Used C-7 B Band lst.Det.Coupling C-8 R.F. Amp. Grid Coupling C-9 R.F. Amp. Cathode Bypass C-10 R.F. Amp. Screen Bypass C-11 A Band lst.Det. Trimmer C-12 B Band lst.Det. Trimmer C-13 C Band lst.Det. Trimmer C-14 D Band lst.Det. Trimmer C-15 E Band lst.Det. Trimmer C-16 A Band lst.Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F. Osc. Grid Coupling C-20 lst. Det. Screen Bypass C-21 lst. Det. Padder C-22 lst. I.F. Amp. Grid Filt. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 Lst. I.F. Amp. Cathode Bypass C-26 Lst. I.F. Amp. Cathode Bypass C-27 Lst. I.F. Amp. Cathode Bypass C-28 Lst. I.F. Amp. Cathode Bypass C-26 Lst. I.F. Amp. Cathode Bypass C-26 Lst. I.F. Amp. Cathode Bypass C-27 Lst. I.F. Amp. Cathode Bypass C-28 Lst. I.F. Amp. Cathode Bypass C-29 Lst. I.F. Amp. Cathode Bypass C-20 Lst. I.F. Amp. Cathode Bypass C-20 Lst. I.F. Amp. Cathode Bypass C-21 Lst. I.F. Amp. Screen Bypass C-22 Lst. I.F. Amp. Cathode Bypass C-23 Lst. I.F. Amp. Cathode Bypass C-24 Lst. I.F. Amp. Cathode Bypass C-25 Lst. I.F. Amp. Screen Bypass C-26 Lst. I.F. Amp. Screen Bypass C-27 Lst. I.F. Amp. Screen Bypass C-28 Lst. I.F. Amp. Screen Bypass C-29 Lst. I.F. Amp. Screen Bypass C-20 Lst. I.F. Amp. Screen Bypass C-21 Lst. I.F. Amp. Screen Bypass C-22 Lst. I.F. Amp. Screen Bypass C-23 Lst. I.F. Amp. Screen Bypass C-24 Lst. I.F. Amp. Screen Bypass C-25 Lst. I.F. Amp. Screen Bypass C-26 Lst. I.F. Amp. Screen Bypass	
C-6 Not Used C-7 B Band 1st.Det.Coupling C-8 R.F. Amp. Grid Coupling C-9 R.F. Amp. Cathode Bypass C-10 R.F. Amp. Screen Bypass C-11 A Band 1st.Det. Trimmer C-12 B Band 1st.Det. Trimmer C-13 C Band 1st.Det. Trimmer C-14 D Band 1st.Det. Trimmer C-15 E Band 1st.Det. Trimmer C-16 A Band 1st.Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F. Osc. Grid Coupling C-20 Ist. Det. Screen Bypass C-21 Ist. I.F. Amp. Grid Fil. C-22 Ist. I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 Ist. I.F. Amp. Cathode Bypass C-26 Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Grid Fil. C-22 Ist. I.F. Amp. Grid Fil. C-23 Ist. I.F. Amp. Grid Fil. C-24 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-21 Ist. I.F. Amp. Screen Bypass C-22 Ist. I.F. Amp. Screen Bypass C-23 Ist. I.F. Amp. Screen Bypass C-24 Ist. I.F. Amp. Screen Bypass C-25 Ist. I.F. Amp. Screen Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-27 Ist. I.F. Amp. Screen Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Screen Bypass C-21 Ist. I.F. Amp. Screen Bypass C-22 Ist. I.F. Amp. Screen Bypass C-23 Ist. I.F. Amp. Screen Bypass C-24 Ist. I.F. Amp. Screen Bypass C-25 D Band H.F. Osc. Trimmer C-55 E Band H.F. Osc. Trimmer C-55 Adido Coupling C-59 Not Used C-59 Not Used C-60 Addio Cupling C-61 Addio Cupling C-62 Ist. I.F. Amp. Grid Fil. Bypass C-62 Ist. I.F. Amp. Grid Fil. Bypass C-63 Remi H.F. Osc. Trimmer C-55 E Band H.F. Osc. Trimmer C-56 Addio Coupling C-69 Addio Cupling C-61 Addio Cupl	
C-7 B B Band 1st.Det.Coupling C-8 R.F. Amp. Grid Caupling C-9 R.F. Amp. Cathode Bypass C-10 R.F. Amp. Screen Bypass C-11 A Band 1st.Det. Trimmer C-12 B Band 1st.Det. Trimmer C-13 C Band 1st.Det. Trimmer C-14 D Band 1st.Det. Trimmer C-15 E Band 1st.Det. Trimmer C-16 A Band 1st.Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Coupling C-20 1st. Det. Screen Bypass C-21 1st. I.F. Amp. Grid Fil. C-22 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Screen Bypass C-26 1st. I.F. Amp. Screen Bypass C-26 1st. I.F. Amp. Screen Bypass C-27 B Band H.F.Osc. Padder C-58 E Band H.F.Osc. Trimmer C-59 Audio Coupling C-57 A Band H.F.Osc. Trimmer C-58 A Band H.F.Osc. Trimmer C-58 C Band H.F.Osc. Trimmer C-59 Audio Coupling C-59 Not Used C-59 Not Used C-60 Audio Coupling C-61 Audio Coupling C-62 Audio Coupling C-63 A Band H.F.Osc. Padder C-58 E Band H.F.Osc. Trimmer C-59 A Band H.F.Osc. Trimmer C-59 Not Used C-60 Audio Coupling C-61 Audio Coupling C-61 Audio Coupling C-62 Audio Coupling C-63 A Band H.F.Osc. Padder Mica, 510 mmf, 500 C-59 A Band H.F.Osc. Trimmer C-50 Audio Coupling C-69 Audio Coupling C-60 Audio Coupling C-60 Audio Coupling C-61 Audio Coupling C-60 Audio Coupling C-61 Audio Coupling C-61 Audio Coupling C-60 Audio Coupling C-61 Audio Coupling C-61 Audio Coupling C-62 Tone C-62 Tone Paper, 0.01 mfd, 400 vdcw R-61 Audio Coupling C-63 A Band H.F.Osc. Padder C-59 Not Used C-61 Audio Coupling C-61 Audio Coupling C-62 Tone R-61 Audio Coupling C-63 Audio Coupling C-63 Audio Coupling C-64 Audio Coupling C-65 Audio Coupling C-61 Audio Coupling C-62 Tone R-61 Audio Coupling C-63 Audio Coupling C-62 Tone R-61 Audio Coupling C-63 Audio Coupling C-62 Tone R-62 Tone R-73 AF. Amp. Grid Filter R-74 AF. Amp. Cathode R	
C-8 R.F. Amp. Grid Caupling C-9 R.F. Amp. Cathode Bypass C-10 R.F. Amp. Screen Bypass C-11 A Band 1st.Det. Trimmer C-12 B Band 1st.Det. Trimmer C-13 C Band 1st.Det. Trimmer C-14 D Band 1st.Det. Trimmer C-15 E Band 1st.Det. Trimmer C-16 A Band 1st.Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Caupling C-20 1st. Det. Screen Bypass C-21 1st. I.F. Amp. Grid Fil. C-22 1st. I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 Ist. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Screen Bypass C-26 1st. I.F. Amp. Screen Bypass C-26 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Screen Bypass C-27 A Band H.F.Osc. Padder C-55 Audio Coupling C-56 Audio Coupling C-57 A Band H.F.Osc. Padder C-58 C Band 1st.Det. Coupling C-58 C Band 1st.Det. Coupling C-59 Not Used C-60 Audio Coupling C-60 Audio Coupling C-60 Audio Coupling C-60 Audio Coupling C-61 Audio Cutput Cathode Bypass C-61 Audio Coupling C-62 Tone C-62 Tone C-62 Tone Paper, 0.01 mfd, 400 vdcw R-7 R.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-27 This coupling C-58 C Band H.F.Osc. Padder C-58 C Band H.F.Osc. Padder Paper, 0.01 mfd, 600 vdcw R-69 R.F. Amp. Grid File Paper, 0.01 mfd, 600 vdcw R-7 R.F. Amp. Grid File Paper, 0.01 mfd, 400 vdcw R-8 R.F. Amp. Cathode Paper, 0.01 mfd, 400 vdcw R-9 R.F. Amp. Screen Filter Fixed, 1000 ohms Fixed, 33 ohms 1 R.F. Amp. Cathode Fixed, 22,000 ohms Fixed, 33 ohms 1 R.F. Osc. Grid Leak R-9 H.F. Osc. Grid Leak Fixed, 22,000 ohms Fixed, 1,000 ohms Fixed, 1,00	00 vdcw
C-9 R.F. Amp. Cathode Bypass C-10 R.F. Amp. Screen Bypass C-11 A Band 1st.Det. Trimmer C-12 B Band 1st.Det. Trimmer C-13 C Band 1st.Det. Trimmer C-14 D Band 1st.Det. Trimmer C-15 E Band 1st.Det. Trimmer C-16 A Band 1st.Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Coupling C-20 1st. Det. Screen Bypass C-21 1st. I.F. Amp. Grid Fil. C-22 1st. I.F. Amp. Grid Fil. C-23 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Cathode Bypass C-27 Paper, 0.01 mfd, 400 vdcw Bypass C-28 1st. I.F. Amp. Cathode Bypass C-29 1st. I.F. Amp. Cathode Bypass C-20 1st. I.F. Amp. Cathode Bypass C-20 1st. I.F. Amp. Cathode Bypass C-21 1st. I.F. Amp. Cathode Bypass C-22 1st. I.F. Amp. Cathode Bypass C-23 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Screen Bypass C-27 Paper, 0.01 mfd, 400 vdcw Bypass C-28 1st. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Ist. I.F. Amp. Cathode Bypass C-24 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Screen Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Ist. I.F. Amp. Screen Bypass C-24 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Screen Bypass C-26 Ist. I.F. Amp. Screen Bypass C-27 Infd, 400 vdcw Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Screen Bypass C-20 Infd, 400 vdcw Bypass C-20 Infd, 400 vdcw Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Infd. 400 vdcw Bypass C-23 Ist. I.F. Amp. Cathode Bypass C-24 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Cathode Bypass C-26 Infd. 400 vdcw Bypass C-27 Infd. 400 vdcw Bypass C-28 Infd. 400 vdcw Bypass C-29 Infd. 400 vdcw Byp	
C-10 R.F. Amp. Screen Bypass C-11 A Band 1st.Det. Trimmer C-12 B Band 1st.Det. Trimmer C-13 C Band 1st.Det. Trimmer C-14 D Band 1st.Det. Trimmer C-15 E Band 1st.Det. Trimmer C-16 A Band 1st.Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Coupling C-20 1st. Det. Screen Bypass C-21 1st. Det. Plate Filter C-22 1st. L.F. Amp. Grid Filt. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 Ist. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Cathode Bypass C-27 Reper, 0.1 mfd, 400 vdcw Bypass C-28 1st. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 1st. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-27 Reper, 0.1 mfd, 400 vdcw Bypass C-28 Ist. I.F. Amp. Cathode Bypass C-29 Reper, 0.1 mfd, 400 vdcw Bypass C-29 Reper, 0.1 mfd, 400 vdcw Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Ist. I.F. Amp. Cathode Bypass C-24 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-27 Infd, 400 vdcw Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Ist. I.F. Amp. Screen Bypass C-24 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Screen Bypass C-26 Infd, 600 vdcw Bypass C-27 Infd, 400 vdcw Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Infd, 600 vdcw Bypass C-20 Infd, 600 vdcw Bypass C-20 Infd, 600 vdcw Bypass C-21 Infd, 600 vdcw Bypass C-22 Infd Ist.Det. Coupling C-58	0 vdcw
C-11 A Band 1st.Det. Trimmer C-12 B Band 1st.Det. Trimmer C-13 C Band 1st.Det. Trimmer C-14 D Band 1st.Det. Trimmer C-15 E Band 1st.Det. Trimmer C-16 A Band 1st.Det. Trimmer C-16 A Band 1st.Det. Trimmer C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Coupling, C-20 1st. Det. Screen Bypass C-21 1st. Det. Plate Filter C-22 1st. I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Cathode Bypass C-27 1st. I.F. Amp. Cathode Bypass C-28 1st. I.F. Amp. Cathode Bypass C-29 1st. I.F. Amp. Cathode Bypass C-20 1st. I.F. Amp. Cathode Bypass C-21 1st. I.F. Amp. Cathode Bypass C-22 1st. I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Cathode Bypass C-27 1st. I.F. Amp. Cathode Bypass C-28 1st. I.F. Amp. Screen Bypass C-29 1st. I.F. Amp. Cathode Bypass C-20 1st. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Ist. I.F. Amp. Cathode Bypass C-24 T-1 Sec. Tuning C-25 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Screen Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-21 Ist. I.F. Amp. Screen Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Ist. I.F. Amp. Cathode Bypass C-24 Ist. I.F. Amp. Screen Bypass C-25 Ist. I.F. Amp. Screen Bypass C-26 Ist. I.F. Amp. Screen Bypass Bis I I.F. Osc. Grid Leak Bis I I.F. Osc. Grid Leak Bis I I.F. Osc. Grid Leak Bypass Bis I I.F. Osc. Grid Dupling Bis I I.F. Osc. Grid Leak Bypass Bis I I.F. Osc. Gr	:
C-12 B Band 1st.Det. Trimmer C-13 C Band 1st.Det. Trimmer C-14 D Band 1st.Det. Trimmer C-15 E Band 1st.Det. Trimmer C-16 A Band 1st.Det. Trimmer C-16 A Band 1st.Det. Padder C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Chupling, C-20 1st. Det. Screen Bypass C-21 1st. Det. Plate Filter C-22 1st.I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 Ist. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Cathode Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Tone C-24 Tone C-25 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Ist. I.F. Amp. Cathode Bypass C-24 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-27 Infid, 400 vdcw Bypass C-28 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Screen Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Ist. I.F. Amp. Screen Bypass C-24 Ist. I.F. Amp. Screen Bypass C-25 Ist. I.F. Amp. Screen Bypass C-26 Indio Output Cathode Bypass C-60 Audio Coupling C-60 Audio Output Cathode Bypass C-61 Audio Output Cathode Bypass C-62 Tone Bypass C-62 Tone Bypass C-62 Tone Bypass C-63 Resistors R-1 R.F. Amp. Cathode Fixed, 150,000 obms R-3 R.F. Gain Control Var. 10,000 obms R-4 BPlus Bleeder Fixed, 1,000 obms R-5 R.F. Amp. Plate Filter Fixed, 1,000 obms R-8 H.F. Osc. Grid Bypass C-26 Ist. I.F. Amp. Screen Fixed, 1,000 obms R-8 H.F. Osc. Grid Bypass C-27 Ist. I.F. Amp. Screen Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cat	100 vdcw
C-13 C Band 1st.Det. Trimmer C-14 D Band 1st.Det. Trimmer C-15 E Band 1st.Det. Trimmer C-16 A Band 1st.Det. Padder C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Caupling C-20 1st. Det. Screen Bypass C-21 1st. L.F. Amp. Grid Fil. C-22 1st. I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 1st. I.F. Amp. Cathode C-26 1st. I.F. Amp. Cathode C-27 1st. I.F. Amp. Cathode C-28 1st. I.F. Amp. Cathode C-29 1st. I.F. Amp. Cathode C-20 1st. I.F. Amp. Cathode C-20 1st. I.F. Amp. Grid Fil. C-21 1st. I.F. Amp. Grid Fil. C-22 1st. I.F. Amp. Cathode C-23 Tone C-24 Tone C-25 1st. I.F. Amp. Grid Fil. C-26 Paper, 0.01 mfd, 400 vdcw C-27 Not Used C-60 Audio Coupling C-61 Audio Output Cathode Bypass C-62 Tone C-62 Tone C-62 Tone C-62 Tone C-62 Tone C-62 Tone C-63 Resistors R-1 R.F. Amp. Grid Filter Fixed, 150,000 obne R-2 R.F. Amp. Cathode Fixed, 220 obns in R-2 R.F. Amp. Cathode Fixed, 1000 obne R-5 R.F. Amp. Plate Filter Fixed, 1,000 obne Fixed, 1000000 obne R-6 R.F. Amp. Plate Filter Fixed, 4,700 obne R-7 A.V.C. Bleeder Fixed, 1000000 obne R-8 H.F. Osc. Grid Leak Fixed, 22,000 obne R-9 H.F. Osc. Grid Leak Fixed, 1,000 obne R-9 H.F. Osc. Grid Leak Fixed, 1,000 obne	
C-14 D Band 1st.Det. Trimmer C-15 E Band 1st.Det. Trimmer C-16 A Band 1st.Det. Padder C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Coupling C-20 1st. Det. Screen Bypass C-21 1st. I.F. Amp. Grid Fil. C-22 T-1 Pri. Tuning C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 1st. I.F. Amp. Cathode Bypass C-26 Soverable Mica, Variable Mica, 100 mmf, 500 vdcw Paper, 0.1 mfd, 400 vdcw Paper, 0.01 mfd, 400 vdcw Paper, 0.01 mfd, 400 vdcw Paper, 0.01 mfd, 600 vdcw R-2 R.F. Amp. Cathode Paper, 0.01 mfd, 400 vdcw R-3 R.F. Gain Control Fixed, 150, 000 ohms C-24 T-1 Sec. Tuning C-25 1st. I.F. Amp. Cathode Bypass C-26 1st. I.F. Amp. Cathode Bypass C-27 1st. I.F. Amp. Cathode Bypass C-28 1st. I.F. Amp. Screen Bypass C-29 Paper, 0.01 mfd, 600 vdcw R-3 R.F. Gain Control Paper, 0.1 mfd, 400 vdcw R-4 B Plus Bleeder Fixed, 1000 ohms Fixed, 1,000 ohms R-5 R.F. Amp. Plate Filter Fixed, 1,000 ohms Fixed, 33 ohms 1 R-7 A.V.C. Bleeder Fixed, 33 ohms 1 R-8 H.F. Osc. Grid Leak Fixed, 22,000 ohms Fixed, 22,000 ohms Fixed, 1,000 oh	i00 vdcw
C-15 E Band 1st.Det. Trimmer C-16 A Band 1st.Det. Padder C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Coupling C-20 1st. Det. Screen Bypass C-21 1st. Det. Plate Filter C-22 1st.I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 1st. I.F. Amp. Cathode Bypass C-26 Tone C-27 R.F. Amp. Grid Fil. Paper, 0.01 mfd, 400 vdcw Paper, 0.01 mfd, 400 vdcw R-2 R.F. Amp. Cathode R-3 R.F. Gain Control R-4 B Plus Bleeder Fixed, 150,000 ohms R-4 B Plus Bleeder Fixed, 68,000 ohms R-5 R.F. Amp. Screen Filter Fixed, 1,000 ohms R-6 R.F. Amp. Plate Filter Fixed, 1,000 ohms R-7 A.V.C. Bleeder Fixed, 33 ohms 1, R-8 R.F. Osc. Grid Leak Fixed, 32,000 ohms R-8 R.F. Osc. Grid Leak Fixed, 22,000 ohms R-9 H.F. Osc. Grid Leak Fixed, 1,000 ohms R-1 R.F. Amp. Cathode Fixed, 100000 ohms R-2 R.F. Amp. Screen Filter Fixed, 1,000 ohms R-7 A.V.C. Bleeder R-9 H.F. Osc. Grid Leak Fixed, 1,000 ohms R-10 Ist. Det. Plate Filter	
C-16 A Band 1st.Det. Padder C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Coupling, C-20 1st. Det. Screen Bypass C-21 1st. Det. Plate Filter C-22 1st.I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 1st. I.F. Amp. Cathode Bypass C-26 Bypass C-27 Ist. I.F. Amp. Cathode Bypass C-28 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-20 Ist. I.F. Amp. Cathode Bypass C-21 Ist. I.F. Amp. Cathode Bypass C-22 Ist. I.F. Amp. Cathode Bypass C-23 Ist. I.F. Amp. Cathode Bypass C-24 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Screen Bypass C-27 Ist. I.F. Amp. Screen Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-21 Ist. I.F. Ist. Ist. Ist. Ist. Ist. Ist. Ist. Ist	i00 vdcw
C-17 R.F. Amp. Plate Filter C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Coupling, C-20 ist. Det. Screen Bypass C-21 lst. Det. Plate Filter C-22 Ist. I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Cathode Bypass C-26 Tone C-62 Tone C-62 Tone C-62 Tone C-62 Tone Resistors R-1 R.F. Amp. Grid Filter Fixed, 150,000 obn R-2 R.F. Amp. Cathode Fixed, 220 obns in R-3 R.F. Gain Control Var. 10,000 obns R-4 B Plus Bleeder Fixed, 68,000 obn R-5 R.F. Amp. Screen Filter Fixed, 1,000 obns R-6 R.F. Amp. Plate Filter Fixed, 4,700 obns R-7 A.V.C. Bleeder Fixed, 33 obns 1, R-8 H.F. Osc. Grid Leak Fixed, 33 obns 1, R-9 H.F. Osc. Grid Leak Fixed, 1,000 obns R-10 Ist. Det. Plate Filter Fixed, 1,000 obns	vdew
C-18 Cathode Bus Filter C-19 H.F.Osc. Grid Coupling, Mica, 100 mmf, 500 vdcw C-20 ist. Det. Screen Bypass C-21 lst. Det. Plate Filter C-22 Ist. I.F. Amp. Grid Fil. C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning C-25 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Screen Bypass C-26 Ist. I.F. Amp. Screen Bypass C-27 Paper, 0.01 mfd, 400 vdcw Bypass C-28 Ist. I.F. Amp. Cathode Bypass C-29 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-21 Ist. I.F. Amp. Screen Bypass C-22 Ist. I.F. Amp. Screen Bypass C-23 Ist. I.F. Amp. Cathode Bypass C-24 Ist. I.F. Amp. Cathode Bypass C-25 Ist. I.F. Amp. Cathode Bypass C-26 Ist. I.F. Amp. Screen Bypass C-27 Ist. I.F. Amp. Screen Bypass C-28 Ist. I.F. Amp. Screen Bypass C-29 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-20 Ist. I.F. Amp. Screen Bypass C-21 Ist. IIII Ist. Bypass Bypass C-22 Ist. IIII Ist. Bypass Bypass C-23 Ist. III Ist. Bypass C-24 Ist. III Ist. Bypass Bypass C-25 Ist. III Ist. Bypass Bypass C-26 Ist. III Ist. Bypass Bypass C-27 Ist. III Ist. Bypass Bypass C-28 Ist. III Ist. Bypass Bypass Bypass C-29 Ist. III Ist. Bypass	(
C-19 H. F. Osc. Grid Coupling, ist. Det. Screen Bypass C-21 Ist. Det. Plate Filter Paper, 0.01 mfd, 400 vdcw Paper, 0.01 mfd, 600 vdcw Paper, 0.01 mfd, 400 vdcw Paper, 0.01 mfd, 600 vdcw Paper, 0.01 m	0 vdcw
C-20 ist. Det. Screen Bypass C-21 lst. Det. Plate Filter Paper, 0.01 mfd, 400 vdcw Paper, 0.01 mfd, 600 vdcw Paper, 0.01 mfd, 600 vdcw Paper, 0.01 mfd, 400 vdcw Paper, 0.01 mfd, 600 vdcw Paper, 0.01 m	
C-21 lst. Det. Plate Filter Paper, 0.01 mfd, 600 vdcw Paper, 0.01 mfd, 600 vdcw Paper, 0.01 mfd, 400 vdcw Paper, 0.01 mfd, 400 vdcw Paper, 0.01 mfd, 400 vdcw Paper, 0.01 mfd, 500 vdcw Paper, 0.1 mfd, 400 vdcw Paper, 0.1 mfd, 400 vdcw Paper, 0.1 mfd, 400 vdcw Paper, 0.1 mfd, 600 vdcw Paper, 0.01 mfd, 600	1/2 W
C-22	
C-23 T-1 Pri. Tuning C-24 T-1 Sec. Tuning Mica, 510 mmf, 500 vdcw C-25 lst. I.F. Amp. Cathode Bypess C-26 lst. I.F. Amp. Screen Bypess C-26 Paper, 0.01 mfd, 600 vdcw Bypess C-27 Paper, 0.01 mfd, 600 vdcw Bypess C-28 Paper, 0.01 mfd, 600 vdcw Bypess C-29 R.F. Amp. Screen Bypess C-20 Paper, 0.01 mfd, 600 vdcw Bypess Bypess C-20 Paper, 0.01 mfd, 600 vdcw Bypess Byp	
C-24 T-1 Sec. Tuning C-25 1st. I.F. Amp. Cathode Bypess C-26 1st. I.F. Amp. Screen Bypess Paper, 0.01 mfd, 600 vdcw Bypess Bypess Paper, 0.01 mfd, 600 vdcw Bypess	
C-25 lst. I.F. Amp. Cathode Bypass C-26 lst. I.F. Amp. Screen Bypass Paper, 0.01 mfd, 600 vdcw Bypass Paper, 0.01 mfd, 600 vdcw Bypass Paper, 0.01 mfd, 600 vdcw R-9 R-10 lst. Det. Plate Filter Fixed, 1,000 ohms	
Bypess C-25 1st. I.F. Amp. Screen Paper,0.01 mfd, 600 wdcw R-9 R-10 R-8 H.F. Osc. Grid Fixed, 33 ohms 1 Fixed, 22,000 ohms Fixed, 1,000 ohms	
C-25 lst. I.F. Amp. Screen Paper, 0.01 mfd, 600 wdcw R-9 H.F. Osc. Grid Leak Fixed, 22,000 ohr Bypess R-10 lst. Det. Plate Filter Fixed, 1,000 ohrs	
Bypess R-10 lst, Det. Plate Filter Fixed, 1,000 ohms	
II C. 77 List I E Amo Plate Fil Perez 0.01 mfd 600 udcw R.11 list Det Screen Filter Fixed, 3,900 obre	
C-28 2nd. I.F. Grid Filter Paper, 0.01 mfd, 400 vdcw R-12 lst. I.F. Amp. Grid Fil. Fixed, 470,000 of	
C-29 T-2 Pri. Tuning Mica, 510 mmf, 500 vdcw R-13 lst. I.F. Amp. Cathode Fixed, 330/1000 ol	
C-30 T-2 Sec. Tuning Mica, 510 mmf, 500 vdcw R-14 lst. I.F. Amp. Plate Fil Fixed, 1,000 chm	
C-31 2nd. I.F. Amp. Cathode Paper, 0.1 mfd, 400 vdcw R-15 1st. I.F. Amp. Screen Fixed, 470,000 ohr	s 1/2 W
Bypass Filter	4 /A 107
C-32 2nd. I.F. Amp. Screen Paper, 0.01 mfd, 400 vdcw R-16 2nd. I.F. Grid Filter Fixed, 470,000 ohr	
Bypess R-17 2nd. I.F. Amp. Cathode Fixed, 220 ohms:	
C-33 T-3 Pri. Turning Mica, 510 mmf, 500 vdcw R-18 2nd. I.F. Amp. Screen Fixed, 2,200 ohm	1/2 W
C-34 T-3 Sec. Tuning Mica, 510 mmf, 500 vdcw Filter	- 1/0 T
C-35 Limiter Cathode Filter Paper, 0.1 mfd, 400 vdcw R-19 A.V.C. Filter Fixed, 2200000 ch	
C-36 A.V.C. Filter Paper, 0.01 mfd, 400 vdcw R-20 Limiter Filter Fixed, 1000000 ob	E 1/2 W
C-37 2nd. Det. Load Mica, 100 mmf, 500 vdcw R-21 2nd. Det. Load Fixed, 100,000 of	4 /640
C-38 C.W.O. Coupling 3 Turns Insulated Wire R-22 2nd. Det. Load Fixed, 220,000 of	
C-39 C.W.C. Plate Coupling Paper, 0.01 mfd, 600 vdcw R-23 C.W.O. Plate Filter Fixed, 10,000 ch	mms 1/2W
C-40 C.W.O. Tuning Mica, 220 mmf, 500 vdcw R-24 Limiter Cathode Fixed, 1000000 ob	nns 1/2W ns 1/2 W
C-41 C.W.O. Grid Coupling Mica, 270 mmf, 500 vdcw R-25 Audio Gain Control Variable, 500,000	nms 1/2W rs 1/2 W ns 1/2 W
C-42 Not Used R-26 1st, Audio Cathode Fixed, 2,700 chm	nms 1/2W ms 1/2 W ms 1/2 W o ohms
C-43 1st. Audio Plate Filter Paper, 250 mmf, 600 vdcw R-27 C.W.O. Grid Fixed, 22,000 ch	nms 1/2W ns 1/2 W ns 1/2 W o ohms s 1/2 W

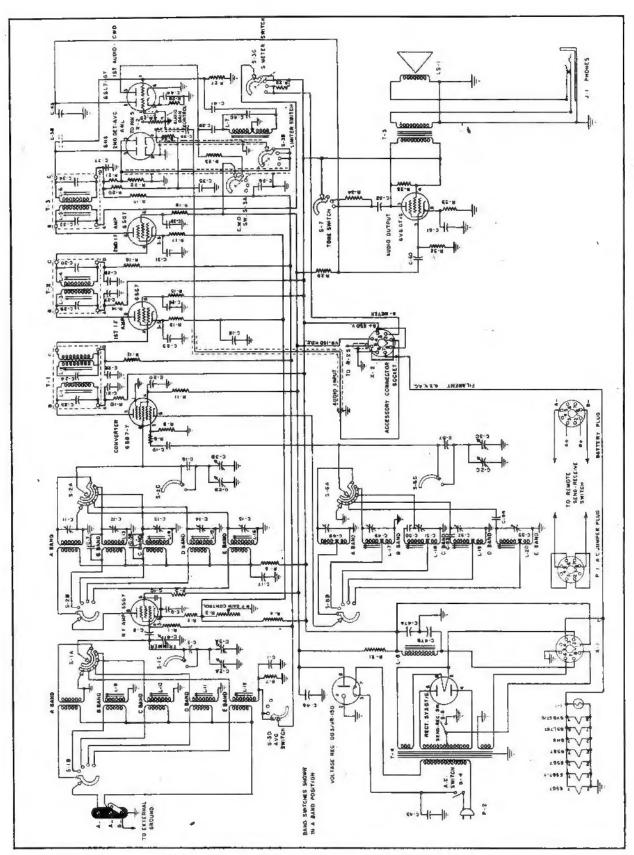


Figure No. 8. Schematic Diagram--NC-57 Receiver

PARTS LIST (Continued)

			Contract		
Symbol	Rinction	Rating	Symbol	Function	Rating
Resistors (Contd)				Miscellaneous (Contd.)
R-28	S-Meter Dropping	Fixed, 2, 200 ohms 1/2 W	P-2	A.C. Line Cord and Plug	2 Wire
R-29	Ist. Audio Plate Filter	Fixed, 100,000 ohms 1/2W	S-1	R.F. Trans. Band Switch	Rotary
R-30	Not Used		S-1A	Part of S-1	D.P. 5 Position
R-31	B Plus Dropping	Fixed, 3,900 ohms 10 W	S-1B	Part of S-1	S.P. 5 Position
R-32	Audio Output Grid	Fixed, 470,000 ohms 1/2 W	S-1C	Part of S-1	S.P. 2 Position
R-33	Audio Output Cathode	Fixed, 330 ohms 2 W	S-2	1st. Det. Trans. Band	Rotary
R-34	Tone	Fixed, 4,700 ohms 1/2 W		Switch	
R-35 Audio Output Plate Load		Fixed, 47,000 ahms 1/2 W	S-2A	Part of S-2	D.P. 5 Position
- Miscellaneo		ous	S-28	Part of S-2	S.P. 5 Position
I-1	Dial Lamp	0.15 Amp., 6-8 volts	S-2C	Part of S-2	S.P. 2 Position
J-1	Phones Jack	Closed Cifcuit	S-3	Control Switch	Rotary
L-1	T-1 Input Tuning	Inductor, Var. Iron Core	S-3A	C.W.O. Switch	S.P. 4 Position
L-2	T-1 Output Tuning	Inductor, Var. Iron Core	S-3B	Limiter Switch	S.P. 4 Position
L-3	T-2 Input Tuning	Inductor, Var. Iron Core	S-3C	S-Meter Switch	S.P. 4 Position
L-4	T-2 Output Tuning	Inductor, Var. Iron Core	S-3D	A.V.C. Switch	S.P. 4 Position
L-5	T-3 Input Tuning	Inductor, Var. Iron Core	S-4	A.C. Line Switch	S.P.S.T. Part of R-25
L-6	T-3 Output Tuning	Inductor, Var. Iron Core	S-5	Send-Rec. Switch	Toggle, S.P.S.T.
L-7	C.W. Osc. Tuning	Inductor, Var. Brass Core	S-6	H.F.Osc. Trans. Band	Rotary
L-8	Filter Choke	10 Henries		Switch	
L-9	B Band R.F. Amp. Ind.	Variable, Iron Core	S-6A	Part of S-6	D.P. 5 Position
L-10	C Band R.F. Amp. Ind.	Variable, Iron Core	S-6B	Part of S-6	S.P. 5 Position
L-11	D Band R.F. Amp. Ind.	Variable, Iron Core	S-6C	Part of S-6	S.P. 2 Position
L-12	E Band R.F. Amp. Ind.	Variable, Iron Core	S-7	Tone Switch	Rotary, S.P. 3 Position
L-13	B Band 1st. Det. Ind.	Adjustable Loop	T-1	ist. I.F. Transformer	455 Kc.
L-14	C Band 1st. Det. Ind.	Variable, Iron Core	T-2	2nd. I.F. Transformer	455 Kc.
L-15	D Band 1st. Det. Ind.	Variable, Iron Core	T-3	Det. Input Transformer	455 Kc.
I16	E Bend 1st. Det. Ind.	Variable, Iron Core	T-4	Power Transformer	115 volts, 50/60 cycles
L-17	B Band H.F. Osc. Ind.	Variable, Brass Core	T-5	Audio Output Trans.	5,000/4 ohms
L-18	C Band H. F. Osc. Ind.	Variable, Iron Core	X-1	Power Socket	Octal
L-19	D Band H. F. Osc. Ind.	Variable, Iron Core	X-2	Accessory Connector	Octal
L-20	E Band B. F. Osc. Ind.	Variable, Iron Core	1	Socket	
P-1	A.C. Jumper Plug	Octa1	LS-1	Loud-speaker	5" P.M.