INSTRUCTION MANUAL

GONSET G-66 AND G-66B MOBILE RECEIVER



GONSET G-66 AND G-66B MOBILE RECEIVER

Warranty Policy

The Gonset Company warrants its equipment, when properly registered, against defects in workmanship, materials, and construction under normal use and service for a period of 90 days from the date of original purchase. Under this warranty our obligation is limited to repairing or replacing any defective parts.

This warranty does not apply to any equipment which has been tampered with in any way, or which has been misused or damaged by accident or negligence, or which has had the serial number

removed, altered or effaced.

On equipment employing a vibrator, all components are covered by the warranty with the exception of the vibrator itself.

This warranty is valid only when the enclosed card is properly filled in and returned within

ten days from purchase date.

DO NOT SEND EQUIPMENT TO THE FACTORY WITHOUT FIRST SECURING

AUTHORIZATION TO DO SO.

THIS WARRANTY DOES NOT INCLUDE TRANSPORTATION COSTS TO AND FROM THE FACTORY.

TECHNICAL CHARACTERISTICS

G-66 RECEIVER

TYPES OF RECEPTION:

AM, CW, SSB

TUNING RANGE:

.54 — 2.0 mc 3.5 — 4.0 mc 7.0 — 7.3 mc 14.0 — 14.35 mc 21.0 — 21.45 mc 28.0 — 29.70 mc

SENSITIVITY:

1.5 uv maximum across 50-ohm input for signal-

plus-noise to noise ratio of 10 db

SELECTIVITY:

4 kc at 6 db down

SPURIOUS (INCLUDING IMAGE)

SIGNAL RESPONSE:

60 db down minimum'

INTERMEDIATE FREQUENCIES:

2050 kc, 265 kc

OUTPUT IMPEDANCES:

3.2 ohms (speaker)

2000 ohms minimum (headphones)

ANTENNA INPUT:

unbalanced to match 50-ohm coaxial cable (BC band unbalanced to match standard BC whip ant.)

POWER REQUIREMENTS:

6 volts at 3 amp or 12 volts at 1.5 amp

200 volts dc at 80 ma

AUDIO OUTPUT:

3 watts maximum (8% total harmonic distortion)

WEIGHT:

8 lb

TUBE FUNCTIONS:

6DC6 r-f amp, 6U8 mixer-buffer, 6C4 local osc, 6BE6 converter, 6AU6 i-f amp, 6BJ6 i-f amp (G-66B only), 6AL5 det-avc-anl, 6AW8 audio amp-bfo, 6AQ5 audio output, OB2 voltage regulators

lator.

Spurious signal response on BC band may be greater than value given when extremely strong signals of certain frequency combinations are simultaneously present at antenna input.

NO. 3069 POWER SUPPLY

INPUT VOLTAGE:

115 volts ac at 40 watts or;

(No. 3069-6) 6 volts dc at 7 amp (No. 3069-12) 12 volts dc at 4 amp

OUTPUT VOLTAGE:

200 volts dc, nominal, at 100 ma

WEIGHT:

6 1/2 lb

NO. 3098 POWER SUPPLY

INPUT YOLTAGE:

12 volts dc at 5 amp

OUTPUT VOLTAGE:

200 volts dc, nominal, at 120 ma

WEIGHT:

4 1/2 lb

GENERAL DESCRIPTION

The GONSET G-66 receiver is a double-conversion superbeterodyne intended primarily for the mobile reception of signals in the 10 through 160-meter amateur bands. Provision for the reception of asm broadcast signals is included, thus eliminating the need for a separate receiver for broadcast reception. The receiver features a built in S meter, highly effective noise limiting, and excellent frequency stability. The illuminated slide-rule tuning dial provides easy readability under mobile operating conditions.

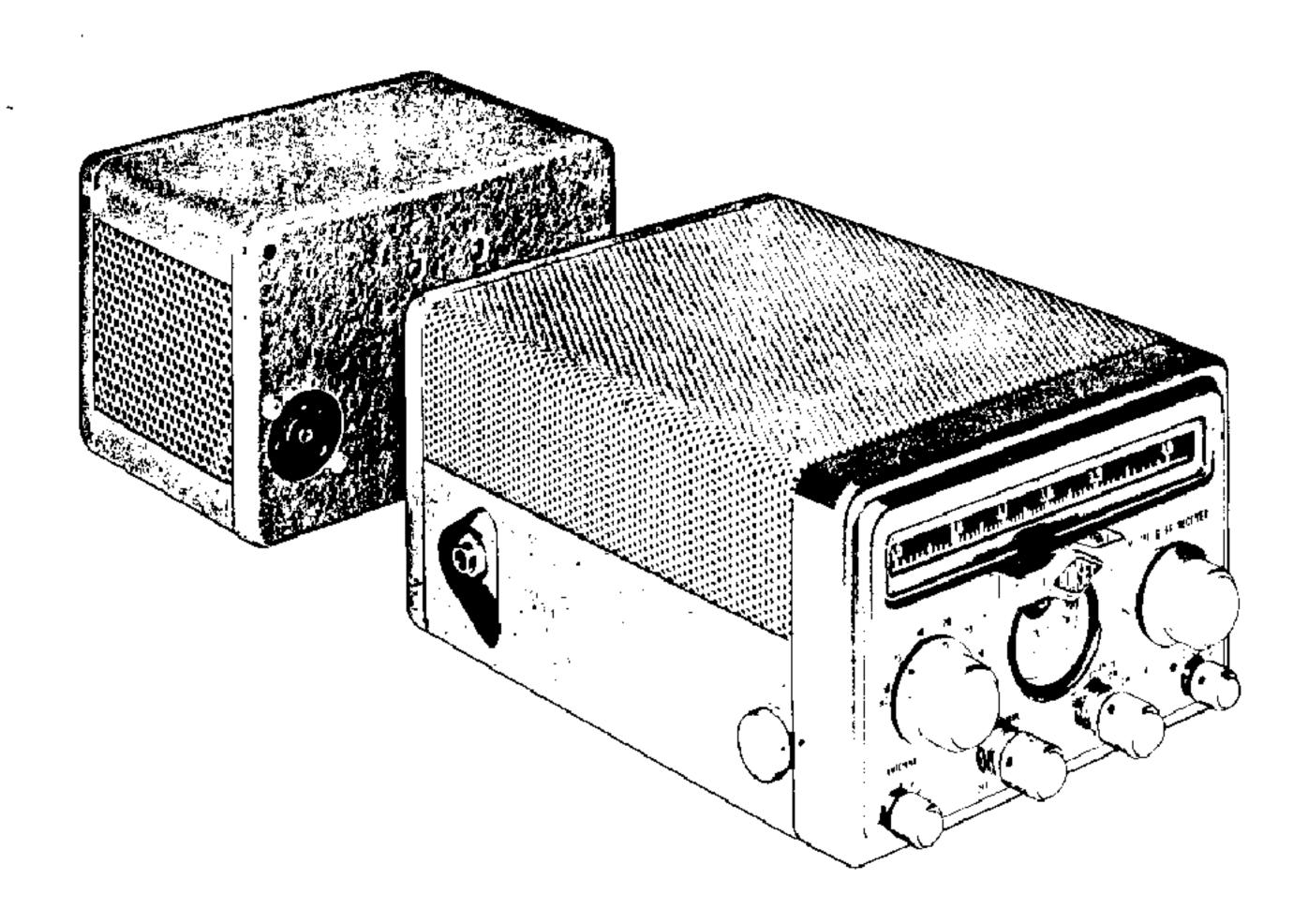
Although designed mainly for mobile applications, the G-66 receiver may also be used for fixed-station or emergency-portable operation.

The G-66B receiver incorporates an additional stage of i-f amplification which improves the noise-limiting action on the higher-frequency bands. In addition, a slight change in the a-v-c voltage distribu-

tion to the r-f amplifier provides a slightly better signal to noise ratio for weak signals.

The GONSIET No. 3069 universal power supply, an accessory to the G-66 receiver, permits operation from either a low-voltage de power source or from 113 volts are. The power supply may be attached directly to the rear of the receiver or connected through a 4-ft patch cord which is supplied. A speaker is contained in this power-supply unit and connections are provided to operate the receiver through either this speaker or a "custom" dashmounted speaker as desired.

The GONSET No. 3098 power supply is also available for use with the G-66 receiver. Operating only from a 12-volt d-c power source, it may be attached directly to the receiver case or patch-cord connected. No speaker is included in this unit.



MOUNTING

Brackets and other hardware are furnished for mounting the receiver under the dashboard of an average automobile. Other mounting arrangements are, of course, possible. Assuming that the No. 3069 or 3098 power supply is used, the simplest installation is afforded when it is attached directly to the rear of the receiver case. This method is recommended when space permits. Otherwise, the power supply may be attached to the automobile firewall with the mounting hardware furnished and connection made to the receiver with the 4-ft. patch cord supplied.

Mounting details for a typical installation are given in the accompanying drawing. Some receivers are supplied with a dashboard mounting bracket of slightly different construction but installation using this type bracket is quite similar to that shown in the drawing. Since the point at which the mounting bracket attaches to the receiver will vary with different automobiles, no holes are provided in the receiver case for bracket attachment. These holes (32") must be drilled in the case and the bracket fastened with the binder-head screws furnished. The screws are to be inserted with the heads inside the case to provide adequate clearance for the receiver chassis. The chassis is then slipped into the case and secured with the three bottom bolts.

When a slotted dashboard-mounting bracket is supplied, fasten the binder-head screws to the case with the nuts provided and then secure the case to the bracket with the supplied wing nuts. This type bracket permits slightly easier removal of the receiver for servicing.

ANTENNA CONNECTIONS

Best performance is obtained when a whip antenna resonated to the band in operation is used. The antenna connects through RG-58/U coaxial cable to the lower antenna receptacle located at the left rear of the receiver. When operation on all bands is desired using a standard 8-ft. whip without a loading coil, the best compromise impedance match for all the various bands is obtained by using a connecting-cable length of 22 ft. If a transmiter is installed in the automobile, the antenna connection will be made through the customary T/R relay.

Best broadcast-band operation requires the use of a separate BC antenna which may be a standard side-cowl whip. This connects through the normal coax cable to the receptacle just above the high-frequency antenna connector. The two receptacles are coupled by an adjustable capacitor which is accessible through a hole located midway between the two antenna inputs. When a separate BC antenna is used, the capacitor is adjusted for minimum capacity (4 to 5 turns counterclockwise from tight position) which effectively removes it from the circuit. If desired, the receiver may be operated on the broadcast band using

the high-frequency antenna alone. In this case the capacitor is adjusted for optimum BC-band performance. This type of operation has the disadvantage that changes in the high-frequency antenna loading coil will affect broadcast-band performance.

SPEAKER CONNECTIONS

A speaker is provided as part of the No. 3069 power supply and connections at the rear of this power supply provide for the use of this speaker or an external speaker as desired. Removing the strap between terminals 4 and 5 of the terminal strip at the rear of the power supply disconnects the internal speaker. The external speaker is then connected to terminals 3 and 4. If an auto radio is already installed and it is desired to use the auto-radio speaker, terminals 3 and 4 may be connected directly to the voice coil of this speaker. A slight loss in audio power output and frequency response from both receivers will usually result, however. A better arrangement is to connect a switch to transfer the voice coil to either receiver as required.

The No. 3098 power supply contains no speaker and, when using this type supply, a separate speaker is required. Connect the speaker to terminals 4 and 5 of the power-supply terminal strip.

POWER CONNECTIONS

It is strongly recommended that the power-input lead from the power supply be connected directly to the "hot" terminal of the automobile battery. If it is found necessary to extend the power-input lead, use at least No. 14 stranded wire for 6-volt installations and No. 18 wire for 12 volts. If these precautions are not observed, frequency stability of the receiver on the higher-frequency bands will be impaired due to the wide fluctuation in heater voltage as the automobile generator operates. This instability is particularly noticeable on SSB and CW operation. If the receiver is to be used only for a-m reception, the power-input lead may be connected to the "accessory" terminal under the dash of the automobile.

The No. 3069 power supply operates from either an auto battery or from a 115-volt a-c source. Necessary circuit switching is made automatically when the appropriate cord is plugged in. In addition, the power supply may be converted from 6 to 12-volt operation by installing a vibrator of the correct voltage rating, installing a capacitor, modifying the power-input plug and switching two connections on the terminal strip located just to the reat of the vibrator socket on the underside of the power-supply chassis. These changes are detailed on the power-supply schematic diagram.

The No. 3098 power supply operates only from a 12-volt d-c source and conversion to another voltage source is not possible. A 6-volt model of this power supply is available on special order.

If a power supply other than the No. 3069 or 3098 is used it must be well filtered both for ripple and r-f hash and be capable of delivering 190 to 220 volts at 80 ma under continuous-service conditions. The output filter capacitor must be at least 30 mfd to provide a sufficiently low impedance audio return path. A smaller capacitor may cause audio feedback within the receiver.

MUTING

Provisions are made for muting the receiver during transmitting periods. By removing the strap between terminals 1 and 2 of the power-supply terminal strip and connecting these terminals to contacts on the T/R relay, plate-supply voltage to the receiver is interrupted during transmission. Use well-insulated wire for these leads and make certain that the connections at the terminal strip do not short to the power-supply case. Also be sure to replace the phenolic safety cover over the terminal strip after connections are made. The T/R relay contacts used for muting must be capable of breaking 200 volts at 100 ma. If necessary, a spark arrestor consisting of a 0.1 mfd capacitor in series with a 270-ohm resistor may be connected across the relay contacts to suppress sparking.

This muting method effects a considerable saving in battery power while transmitting. However, it will be found that the receiver local oscillator drifts slightly between receiving periods since the oscillator tube cools during the time when plate voltage is

SSB and CW signals on the high-frequency bands. If a considerable amount of this type of reception is planned, an alternate muting method is advisable. Connect terminals 3 and 4 of the power-supply terminal strip to T/R relay contacts that make during transmission. Do not remove the strap between terminals 1 and 2. This method shorts the speaker voice coil during transmission and is very effective provided that fairly heavy wire is used for the connections and the total length is not excessive.

TRANSMITTER FREQUENCY SPOTTING

The high voltage available at terminal 1 of the power-supply terminal strip may be used to operate a transmitter VFO through a "spot" switch if desired. A maximum of 25 ma may be drawn for this purpose for short periods without harm to the power supply.

ELECTRICAL NOISE SUPPRESSION

The G-66 receiver contains a highly-effective noise-limiting circuit. Nonetheless, for optimum performance it is important that electrical noise generated by various parts of the automobile be suppressed to an absolute minimum. Much useful information on vehicular noise suppression is contained in MOBILE MANUAL FOR RADIO AMATEURS, published by ARRL, and RADIO AMATEUR'S MOBILE HAND-BOOK, published by CQ magazine.

FUNCTION SWITCH and VOLUME CONTROL

The function switch provides for reception of phone, CW, or single-sideband signals. Noise limiting may be applied to phone signals as desired. In addition, a standby position is included to be used when automatic receiver muting is not employed.

With the switch in either of the ANL positions, a-v-c voltage is applied to the r-f and i-f amplifiers and the volume control is connected only to the audio portion of the receiver. When the switch is in CW-SSB position, the a-v-c function is removed from the circuit and the volume control controls the r-f and i-f amplifiers while the audio amplifier operates at full gain. Thus, optimum gain adjustment is obtained with a single control, a desirable feature for mobile operation.

TUNING

Tuning is indicated by an illuminated slide-rule dial which displays only the band in use. The gear ratio to the tuning knob is unusually high to permit non-critical tuning under mobile operating conditions. For this reason the tuning knob has a "broad tuning" feel and this should not be thought of as lack of selectivity within the receiver.

The receiver is accurately calibrated before leaving the factory. Aging of components, however, may cause the calibration to drift slightly after extended use. An oscillator trimmer, controlled by the flat knob on the left side of the receiver, is provided to readjust the calibration against a transmitter crystal of known frequency or any other accurate signal source. The receiver is factory calibrated with the set-screw hole of the trimmer control knob facing directly forward and it should be left in this position except when setting the calibration to a signal of known accuracy. Due to the method in which the calibration trimmer is connected in the bandspread circuit, a slight movement of the knob has a large effect on the broadcast-band calibration. This is especially true at the high-frequency end of the dial. For this reason the calibration knob should always be returned to the factory setting (set-screw hole directly forward) when tuning the broadcast band.

BFO ADJUSTMENT

The beat-frequency oscillator (BFO) operates with the function switch in CW-SSB position. The frontpanel BFO adjustment knob is calibrated to receive SSB signals transmitting either the upper or lower sideband. With the knob in position A, upper sideband signals are received on all bands except 20 meters. On 20 meter lower-sideband signals are passed. When the knob is in position B, the opposite sideband is received. Since these positions are only approximate settings, careful adjustment of the knob is required for good-quality SSB reception. For CW signals the BFO knob may be set near either position and adjusted for the desired pitch.

ANTENNA TRIMMER

The antenna trimmer is effective on all bands and should be adjusted for maximum signal strength or background noise. On all bands except 10 meters, setting the antenna trimmer on a signal near the center of the tuning dial will adjust the receiver for good reception throughout the band. On 10 meters some advantage is usually gained by adjusting the trimmer to each signal as it is tuned in.

S METER

The S meter indicates a signal increase of about 6 db for each meter division up to \$9. The meter is factory adjusted to indicate "S zero" with the antenna disconnected and the antenna trimmer adjusted for maximum background noise. If desired, the no-signal reading may be readjusted by inserting an insulated alignment tool through the rubber grommet on the right-hand side of the receiver case. Do not use a metallic screwdriver for this adjustment; the S-meter adjustment is at B-plus potential. The zero adjustment on the meter face is factory set so the meter goes slightly off scale to the right when the receiver is turned off. This is normal and is required to provide accurate readings on very strong signals.

BROADCAST-BAND OPERATION

To permit more compact construction the double-conversion feature of the receiver is retained on the broadcast band. On any receiver with an intermediate frequency higher than the received signal, certain combinations of incoming signal frequencies can cause "tweets" or whistles on some stations. Normally this condition is not troublesome and occurs only in areas where many high-powered broadcast stations are operating. If trouble of this nature is found, reduce the length of the BC antenna to a minimum consistent with adequate signal strength. If a separate BC antenna is not used, turn the antenna coupling adjustment (located between the two antenna receptacles) to the position most counterclockwise that still allows good broadcast reception.

Best broadcast reception is obtained with the automatic noise limiter switched off since this circuit distorts the audio output to some extent. The effect is objectionable only when receiving high-quality music.

SERVICE INSTRUCTIONS

LUBRICATION

All mechanical parts of the receiver have been factory lubricated and further lubrication is not recommended until the need becomes obvious. The bandswitch and tuning mechanisms can become stiff or erratic in operation after extended use and this may be remedied by the sparing application of Lubriplate or a similar lubricant. Clean the part thoroughly with carbon tetrachloride before applying new lubrication. An occasional cleaning of the entire chassis with a small brush or dry compressed air is advisable. Make certain that no components of the set are disturbed during this operation.

MALFUNCTIONING

Experience has shown that nearly 90% of the causes of malfunctioning are traceable to defective tubes. Therefore, when the reason for lack of per-

formance is not immediately obvious, check all tubes before proceeding further. All component parts in the G-66 are operated well below maximum ratings and parts failures will be very infrequent.

ALIGNMENT

Realignment of the receiver should be considered only when lack of sensitivity or selectivity is experienced and other possible causes have been eliminated.

Do not attempt alignment without the use of a well-calibrated signal generator of good quality. If possible, the signal generator should be checked against a 100-kc crystal frequency standard as each alignment frequency is set up. Use a General Cement No. GC-8606, or equivalent, alignment tool for rf-coil adjustments. A small screwdriver, preferably insulated, is required to adjust the i-f transformer cores.

ALIGNMENT PROCEDURE

- a. Connect a VTVM to junction of R20 and terminal lug of T3. Adjust VTVM to read approximately 5 volts dc full scale.
- b. Set controls as follows:
 ANTENNA to mid-capacity setting
 FUNCTION switch to ANL-OFF
 VOLUME control to ON
 BFO to 0
 CALIBRATION TRIMMER set-screw hole
 directly forward
- c. Connect signal generator through 0,001 mfd or larger blocking capacitor. Adjust generator output so that VTVM reading does not exceed 3 volts during alignment.

Step	Sig. Generator Frequency	Sig. Generator Connection	Band Switch Position	Tuning Dial Setting	Remarks
1	265 kc	6BE6, pin 7	BC-160 M	1.8 mc	Adjust T2, T3, T4, T5 for maximum output
2	2050 kc	BC Ant. Input	BC-160 M	1.8 mc	Adjust T1 for maximum output
3	2580 kc	BC Ant. Input	BC-160 M	1.8 mc	Adjust L2 for minimum output
-4	600 kc	BC Ant. Input	BC-160 M	.6 mc	Adjust BC osc coil for maximum output
5	1800 kc	BC Ant. Input	BC-160 M	1.8 mc	Adjust C110 for maximum output
6	Repeat steps 4 and 5 ur	ntil adjustments coincid	e		
7	800 kc See note below	BC Ant. Input	BC-160 M	.8 mc	Adjust BC mixer coil for maximum output
в	3600 kc	HF Ant. Input	80 M	3,60 mc	Adjust 80 M osc coil for maximum output
9	3950 kc	HF Ant. Input	80 M	3.95 mc	Adjust C106 for maximum output

Step	Sig. Generator Frequency	Sig. Generator Connection	Band Switch Position	Tuning Dial Setting	Remarks			
10	Repeat steps 8 and 9 u	ntil adjustments coincid	e					
11	3800 kc	HF Ant. Input	80 M	3.80 mc	Adjust 80 M mixer and and coils for maximum output			
12	7050 kc	HF Ant. Input	40 M	7.05 mc	Adjust 40 M osc coil for maximum output			
13	7250 kc	HF Ant. Input	40 M	7.25 mc	Adjust C116 for maximum output			
1.4	Repeat steps 12 and 13 until adjustments coincide							
15	7200 kc	HF Ant. Input	40 M	7.20 mg	Adjust 40 M mixer and ant coils for maximum output			
16	14050 kc	HF Ant. Input	20 M	14.05 mc	Adjust 20 M osc coil for maximum output			
17	14300 kc	HF Ant. Input	20 M	14.30 mc	Adjust C117 for maximum output			
18	Repeat steps 16 and 17 until adjustments coincide							
19	14250 kc	HF Ant. Input	20 M	14.25 mc	Adjust 20 M mixer and ant coils for maximum output			
20	21050 kc	HF Ant. Input	15 M	21.05 mc	Adjust 15 M osc coil for maximum output			
21	21400 kc	HF Ant. Input	15 M	2 E40 mc	Adjust C145 for maximum output			
22	Repeat steps 20 and 21 until adjustments coincide							
	21250 kc	HF Ant. Input	15 M	21.25 mc	Adjust 15 M mixer and ant coils for maximum output			
2.4	28100 kc	HF Ant. Input	10 M	28.10 mc	Adjust 10 M osc coil for maximum output			
25	29500 kc	HF Ant. Input	10 M	29.50 mc	Adjust C142 for maximum output			
26	Repeat steps 24 and 25 until adjustments coincide							
27	28700 kc	HF Ant. Input	10 M	28,70 mc	Adjust 10 M mixer and ant coils for maximum output			
28	Set FUNCTION switch Adjust T6 for lowest p	h to CW-SSB, BFO to 0 itch beat-oscillator hiss.	. Disconnect signal ger	ietator.				

NOTE: BC-160 M antenna coil adjustments should be made with receiver connected to BC antenna normally used. BC-160 M antenna coil contains two cores. Inner core may be reached by using small-shank end of alignment tool. Adjust both cores for maximum output on BC station in vicinity of 700 kc. If adjustment using the actual antenna is not feasible, connect signal generator through 70 mmf capacitor to BC antenna input and peak both cores with signal generator and tuning dial set to 700 kc.

DIAL CORD REPLACEMENT

Replacement of either dial cord in the G-66 receiver requires the removal of the front panel. Remove all front-panel knobs and the bushing nuts from the VOLUME and FUNCTION controls. Then remove the screws adjacent to the bandswitch and tuning-knob shafts and carefully slip the front panel forward.

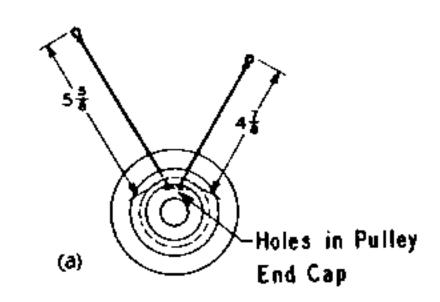
To replace the band-change cord, proceed as follows:

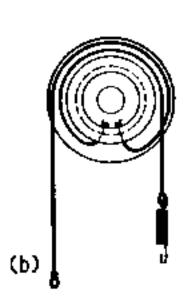
- a. Set the band-change shaft to 20 M position and loosen the pulley setscrew.
- b. Rotate the pulley until it is possible to disengage the spring. Then rotate the pulley in the opposite direction until the looped end of the cord can be unhooked.

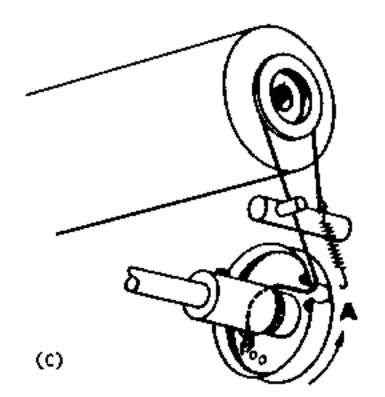
- c. Remove the pivot screw from the left end of the tuning drum. The drum may now be dropped slightly to make the ends of the cords more accessible.
- d. Rotate the dial drum until the cord holes are below the dial-drum bracket. Remove the broken cords and replace with cords made to the lengths shown in (a) of the bandchange cord stringing diagram.
- e. Replace the dial-drum pivot screw. Wind the cords on the dial-drum pulley as shown in (b). Rotate the bandswitch-shaft pulley to the position shown in (c) and connect the looped-end cord.
- f. Rotate the bandswitch-shaft pulley clockwise and hook the spring as shown in (d).

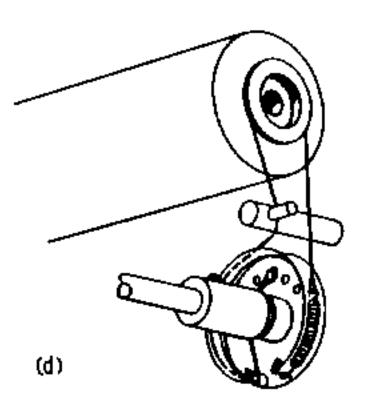
g. With the bandswitch set to 20 M position rotate the bandswitch-shaft pulley until the 14-mc band appears in the window. Tighten the pulley setscrew and totate the bandswitch throughout its range several times to permit the cord to

stretch and settle on the pulley. Finally, return the bandswitch to 20 M position and adjust the pulley position as required to center the tuningdrum scale in the window. Tighten the pulley setscrew securely.

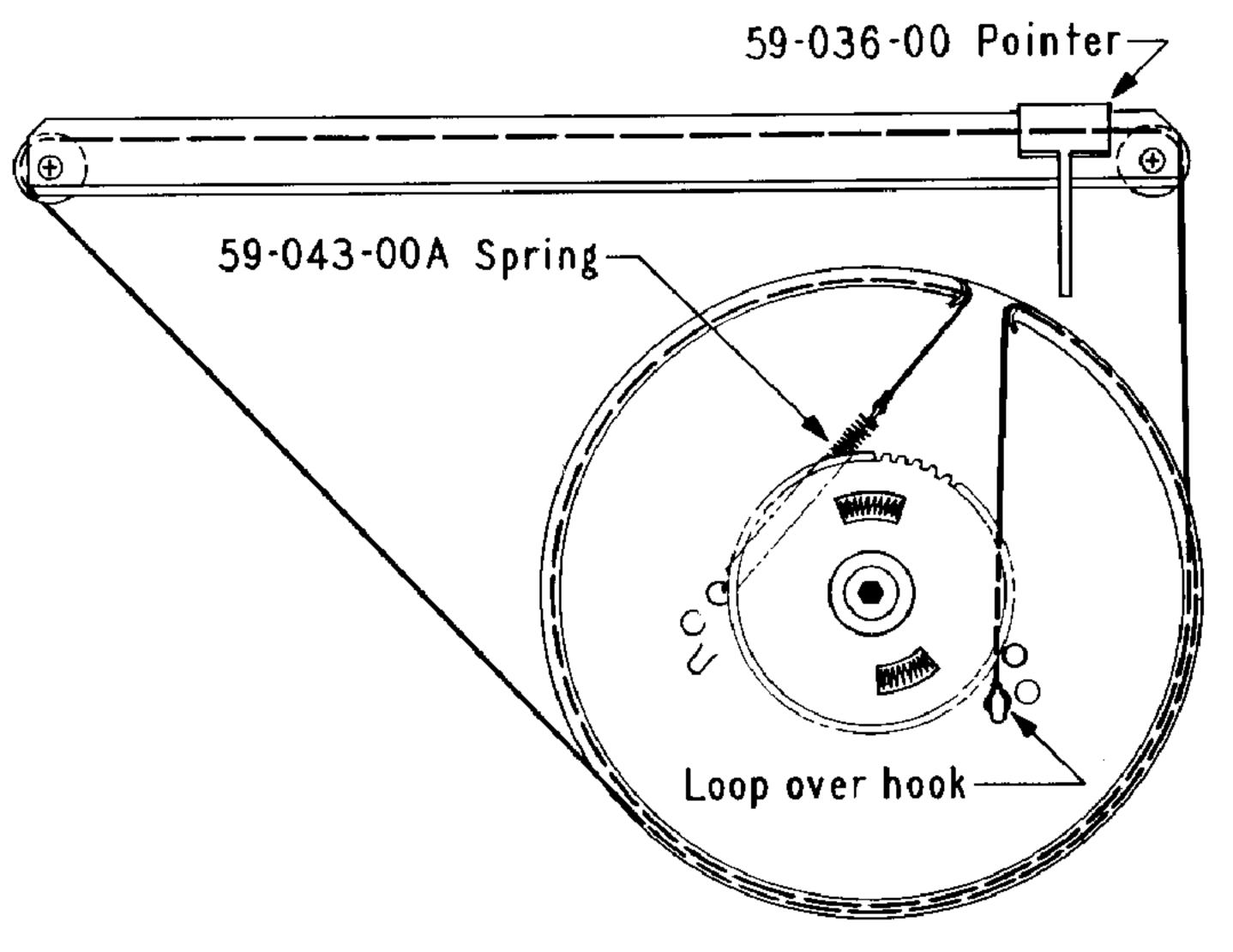




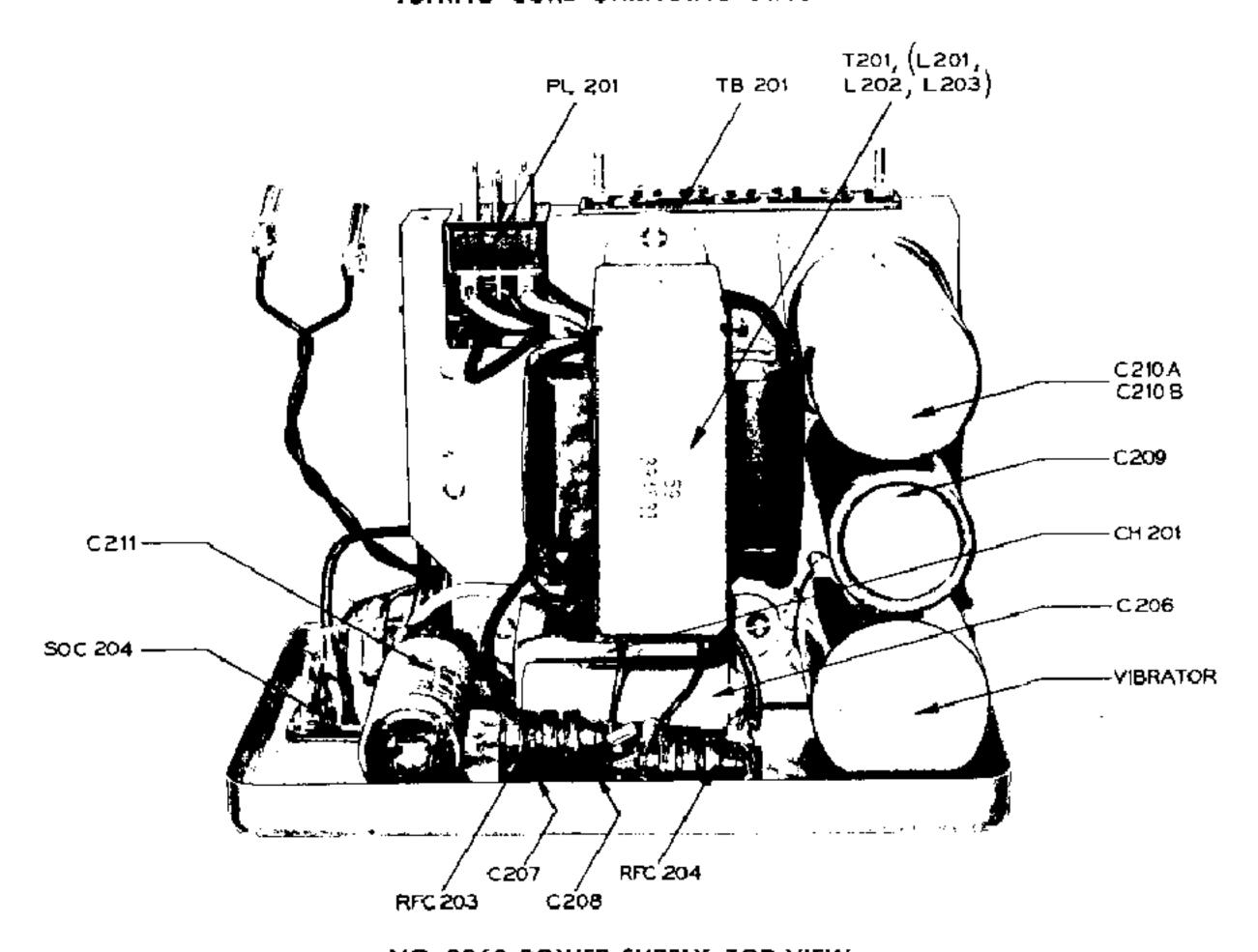




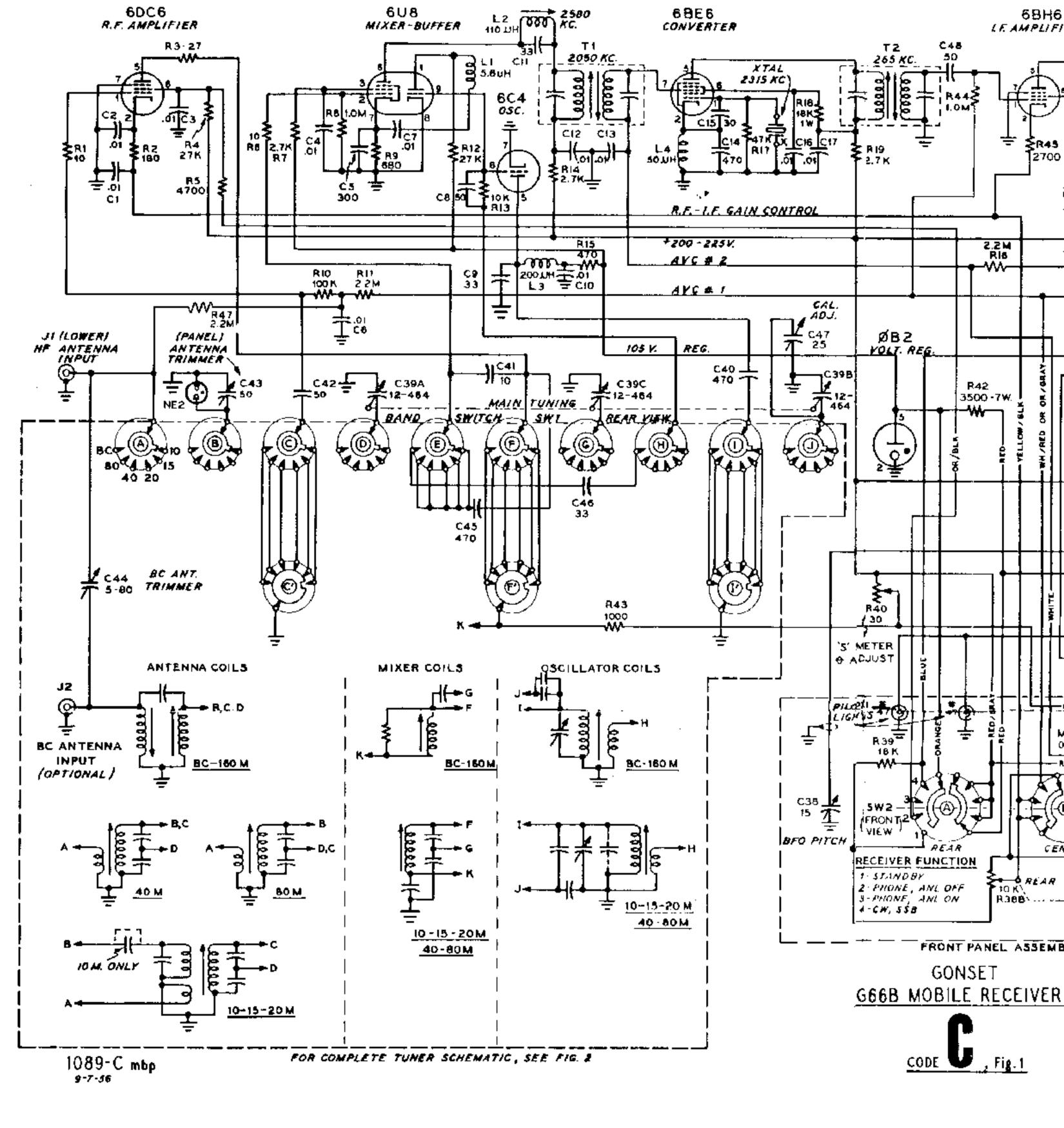
BANDCHANGE CORD STRINGING DIAGRAM



TUNING CORD STRINGING DIAGRAM



NO. 3069 POWER SUPPLY, TOP VIEW



.Ol of GMV 500V. Misc Ceramicon "OI of GMV 500V. Disc Ceramicon .Ol MF GMV 50GV. Misc Ceremicon C4 .Ol of GMY 500V. Disc Ceramicon 300 uuF ± 5 £ 500V. 511ver Mics, DM-15 .Ol of GMV 500V. Disc Ceramicon' .Ol uf GMY 500V. Disc Ceremicon 50 unF ± 5% 500V. Silver Mich. CM-15 33 guf ±.99 uuF #330, 590V. Tubular Ceramico: .O1 MF GMY 500V. Disa Ceramicon C11 33 unF±.97 unF M330, 500V. Inbular Ceramico: C12 .01 NF GMV 500V. Disc Ceramicon Cl3 .Ol uF GMV 500V, Disc Ceramicon 014 470 nuF ± 5\$ 300V, Silver Mica, DM-15 015 30 unF ± 10% N330, 500V. Tubular Ceremicon .01 of GMV 500V. Disc Caramicon C17 .OI of GMV 500V. Disc Caramicon +Ci8 2 umF ± .25 umF NPO, 500V. Tubular Ceramicon C19 _Ol of GMV 500V. Disc Ceramicon 020 4047 uf ±20% 4007. Paper, Molded Case 021 .047 wF ±20% 4007. Paper, Molded Case 022 _047 wF ± 20% 4007, Paper, Molded Case C23 2 unf ± .25 unf NPO, 5007, Inbalar Ceramicon C24 250 ouf #10% GP2, 500V. Tubular Ceramicon 025 .01 of GMV 500V. Disc Ceremicon 626 5 unF ± .5 unF GP1, 500V, Tunulur Ceramican 027 .0039 uF ±10% 600V. Paper, Wolded Case C28 25 uF 25 N.V. Electrolytic

C29 .01 uF 400V. Paper, Molded Case G30 .OL uF GMV 500V. Misc Ceramicon C31 250 wuF±10% GPZ, 500V. Tubular Ceramicos D32 100 umF # 5% 500V. Silver Mica, LM-15 C33 30 uuF ± 5% M150, 500V. Tubular Cornaicon C34 .Ol of GMV 500V. Disc Ceramicon .91 uF GNV 5007. Disc Ceramicon 036 100 uuf ±5% 500V. Silver Mica, DM-15 C37 .01 uF GMV 500V, Disc Ceremicon C3d 15 unF Variable, AFC C394 12 - 464 ouF -— Main Tuning, Special C39B 12 - 464 uuF C39C 12 - 464 nuF⊸ 470 uuF ± 5% 300V. Silver Mica, CM-15 10 muF #1 muF GPL, 500V. Tubular Ceramicon 50 maF ± 20% GP1, 500V. Tubuler Coramicon 50 wwF Variable, AFC 5 - SO unF Mica Compression Trimmer 470 waF = 10% GP2, 500V. Tubular Coramicon 33 uuF ± .79 uuF 1030, 5007. Tubular Ceramicusi 25 mJ Verieble, AFC C47 ■•C48 50 uur±10 MPO, 500%. Tubuler Ceremicon ••C49 .01 ur GMV 500%. Disc Ceremicon

19 ohm } watt

180 ohm } mett 27 ohm } mett

27E 🛊 wett

RIO POR & watt Ell 2.2 megojam j watt R12 27K 🛊 matt R13 10K & wett R14 2.7K & wett 470 otio h matt R16 2.2 magona & watt R17 47K } watt 318 18K 1 matt R19 2.7K h mett P2.0Deleted P21 2700 ohm } watt R22 27K ∮ watī 2.7K & walt R23 R24 2.2 magaha + watt F25 270K + watt - 270K 🛊 watt 1.0 magons & watt 1.0 megota } watt 470 ohm l mott 2.2 megaha 🛊 wett

479K 🛊 watt

FO2 2.2 megoha a matt

4.7% & matt

2,75 g watt

10 ohm } watt

1.0 magaha § mett

680 ohm 🛊 🖦tt

H34 47K | watt
h35 27K | watt
h36 47K | watt
h36 47K | watt
h37 6.9 ohm | watt, Comp. or Wire
h38A 1.0 wegotm | Volume Control,
h38B 10K
h39 18K | watt
h40 30 ohm Variable, Wire-wound
h41 Doleted
h42 3.5K 7 watt
h43 1000 ohm | watt
h43 1000 ohm | watt
h44 2700 ohm | watt
h446 3.7K | watt

133 100K 🛊 🖦 tt

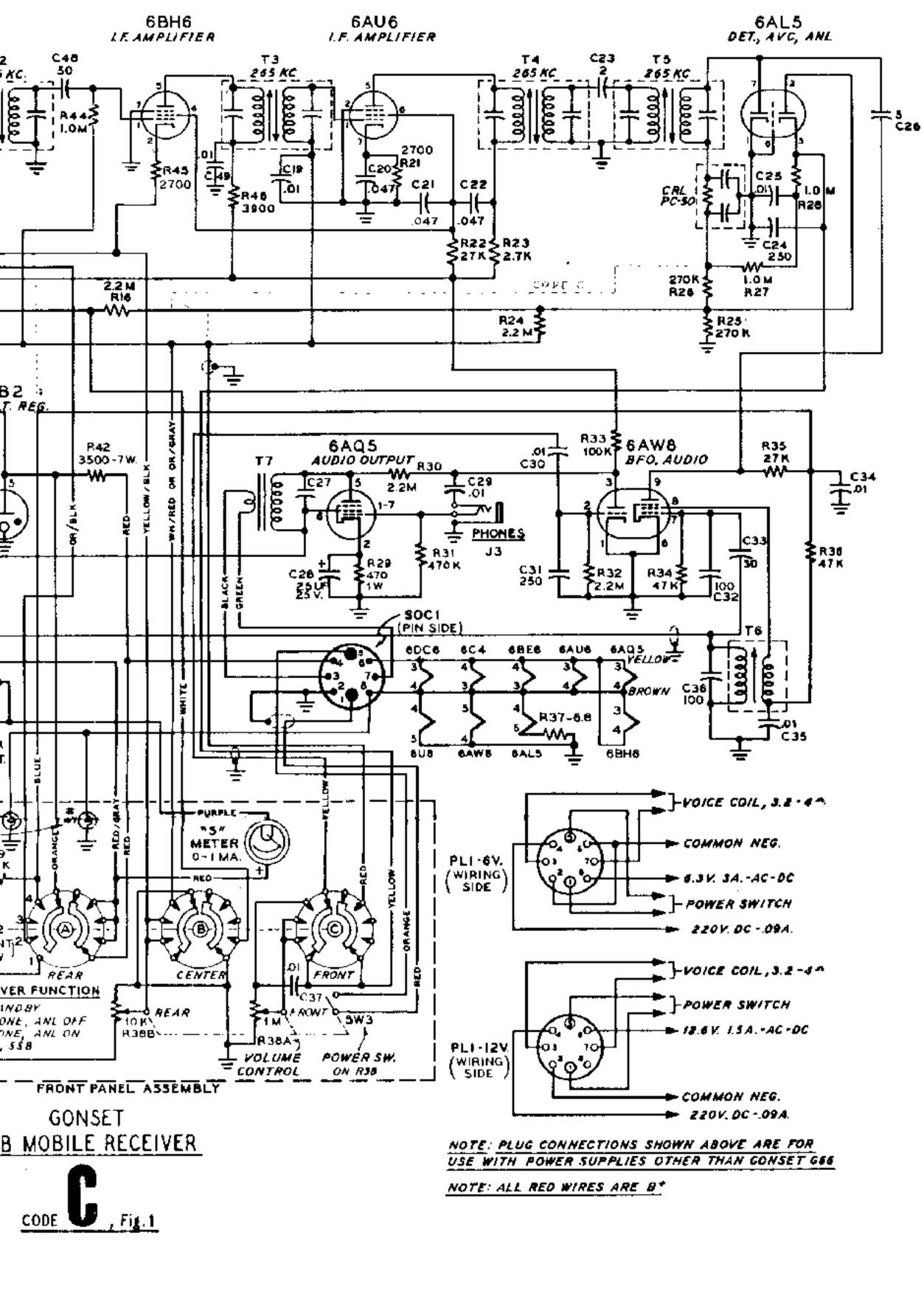
**#47 2.2 megalus } watt

NOTE: ALL RESISTORS THE COMPOSITION TOX TOLERANCE EXCEPT AS NOTED

Jl BC Antenna Connector Jack
J2 SW Antenna Connector Jack
J3 Phone Jack, himth size, closed
SW1 Bendawitch, Special

SM1 Handswitch, Special SM2 Receiver Function Switch, Spec SM3 ON - OPP Switch on A36 SOC1 8 Prong Make Socket, CINCH # 9

PLI B Promy Female Plug, CINCH #78



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#34 47K & matt

#35 27K & watt

#36 47K & watt

#37 6.5 ohm 1 amit, Comp. or Wire-wound

#38A 1.0 megohm Volume Control, Special

#39 18K & matt

#40 30 ohm Variable, Wire-wound

#41 injected

#42 3.5K 7 watt

#43 1000 ohm & watt

#44 1.0 megohm & watt

#45 2700 ohm & watt

#445 2700 ohm & watt

#445 3.9K & matt

#447 2.2 megohm & watt
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133 100K & matt

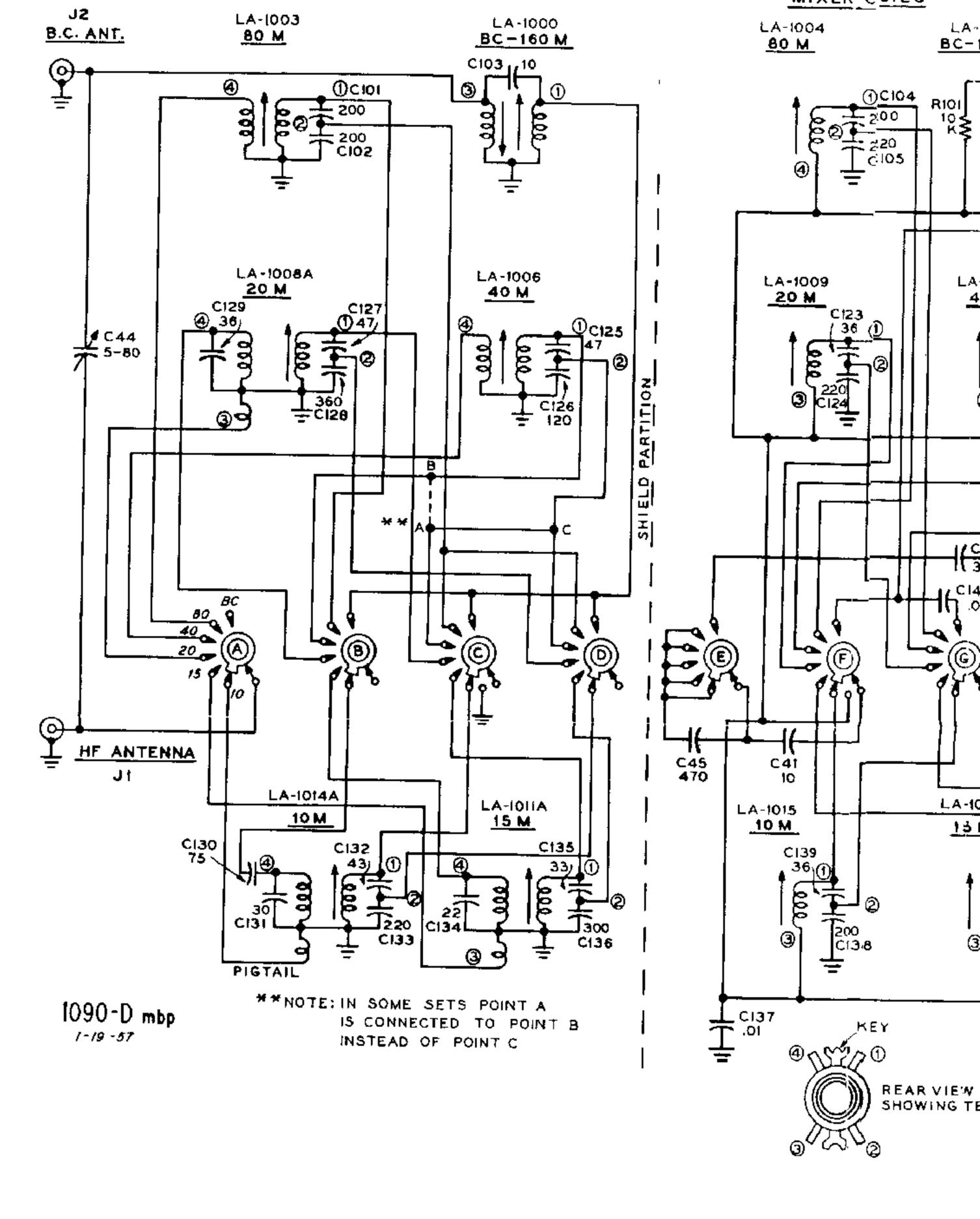
NOTE: ALL RESISTORS THE COMPOSITION AND LOG TOLERANCE EXCEPT AS NOTED.

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J1 BC Antenna Connector Jack
J2 Sh Antenna Connector Jack
J3 Photo Jack, † inch size, closed circuit
581 Hamiswitch, Special
582 Receiver Punction Switch, Special
```

SW3 ON - OFF Switch on R38
SOCI B Prong Mais Socket, CINCH # 9158
PLI B Prong Fomele Plug, CINCH #781-S with #720-S Shell

NOTE: PLI USED ONLY WHEN GOINERY POWER SUPPLY IS NOT USED,

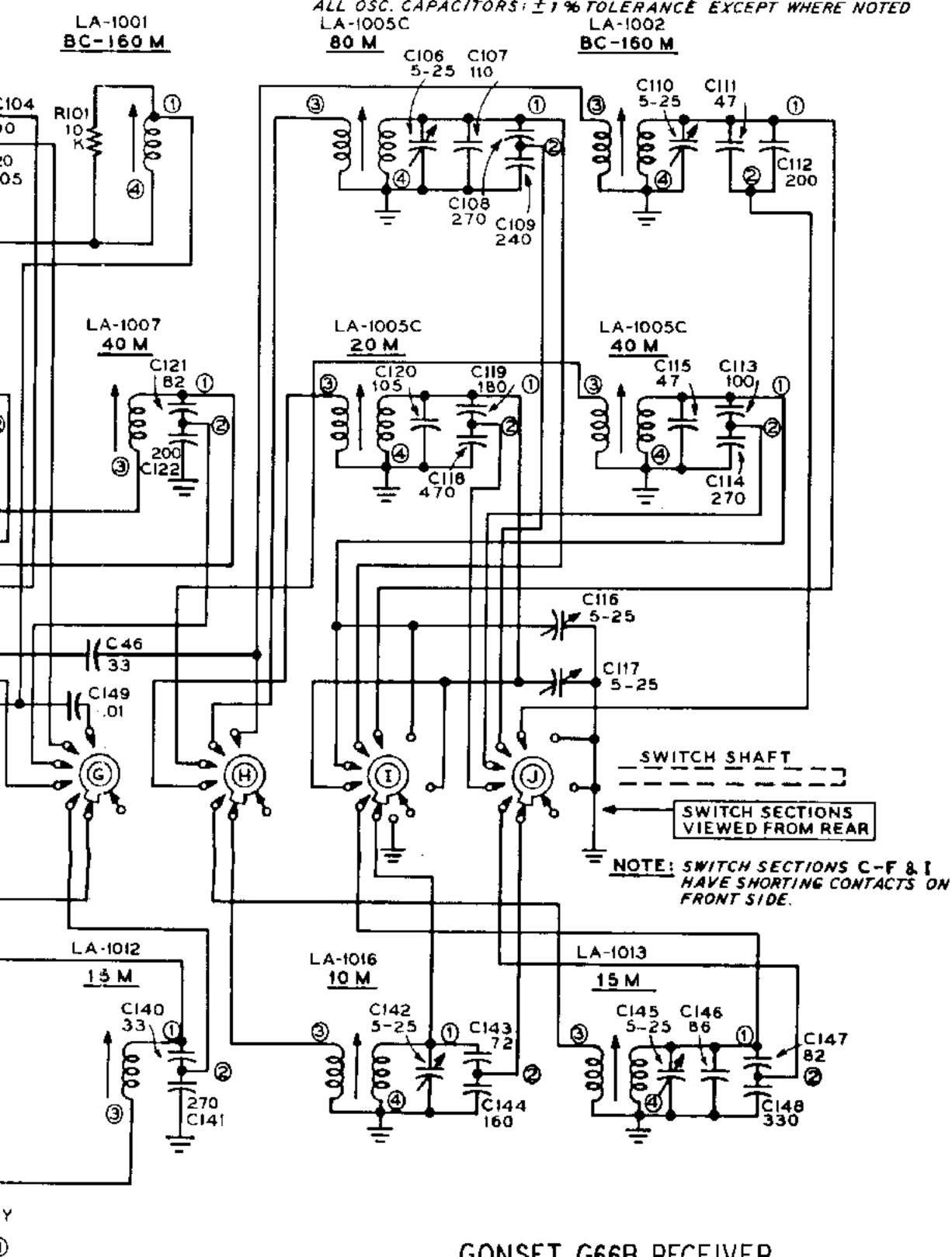
```
11 5.6 uff RFC
12 110 uff Permeability Tuned Trap, 2580 KC.
13 200 uff RFC
14 50 uff RFC
11 2050 KC. I-F Transformer, Special
12 265 MC. I-F Transformer, Special
13 265 KC. I-F Transformer, Special
14 265 KC. I-F Transformer, Special
15 265 KC. I-F Transformer, Special
16 265 KC. I-F Transformer, Special
17 265 KC. I-F Transformer, Special
17 265 KC. I-F Transformer, Special
17 265 KC. I-F Transformer, Special
18 265 KC. I-F Transformer, Special
19 265 KC. I-F Transformer, Special
```



C1C1 200 unf + 5% Disc Ceramicon
C1C2 2C0 unf + 5% Disc Ceramicon
C1O3 10 unf + 10% Tubular Ceramicon
C1O4 200 unf + 3% Disc Ceramicon
C1O5 220 unf + 5% Disc Ceramicon
C1C6 5-25 unf NFO Ceramic Trimmer
C1C7 110 unf + 1% Silver Nica DN-15
C1O8 270 unf + 1% Silver Nica DN-15
C1O9 240 unf + 1% Silver Mica DN-15
C1O9 240 unf + 1% Silver Mica DN-15
C1O1 47 unf + 1% N330 Cisc Ceramic
C1O1 200 unf + 1% Silver Mica DM-15
C1O1 100 unf + 1% Silver Mica DM-15

Clll 270 uuF + 1% Silver Mica DM-15
Cl15 47 uuF + 2% W33C Disc Ceramicon
Cl16 5-25 uuF NFO Ceramic Trimmer
Cl17 5-25 uuF NFO Ceramic Trimmer
Cl18 470 uuF + 1% Silver Mica DM-15, 360 V
Cl19 180 uuF + 1% N150 Silver Mica DM-15
Cl26 1C5 uuF + 1% N150 Silver Mica DM-15
Cl21 82 uuF + 3% Disc Ceramicon
Cl22 200 uuF + 5% Disc Ceramicon
Cl46 33 uuF + 3% Tubular Ceramicon
Cl23 36 uuF + 3% Disc Ceramicon
Cl23 36 uuF + 3% Disc Ceramicon
Cl25 47 uuF + 3% Disc Ceramicon
Cl25 47 uuF + 3% Disc Ceramicon

C126 120 ouf • 5% Disc Ceramicon
C127 47 ouf • 3% Disc Ceramicon
C128 360 ouf • 3% Disc Ceramicon, N2100, 250 v
C129 36 ouf • 5% Disc Ceramicon, N2100, 250 v
C129 36 ouf • 5% Disc Ceramicon
C44 5-80 ouf • 5% Tubular Ceramicon
C130 75 ouf • 5% Disc Ceramicon
C131 30 ouf • 5% Disc Ceramicon
C132 43 ouf • 3% Disc Ceramicon
C133 220 ouf • 3% Disc Ceramicon
C134 22 ouf • 5% Disc Ceramicon
C135 33 ouf • 3% Disc Ceramicon
C136 300 ouf • 3% Disc Ceramicon
C136 300 ouf • 3% Disc Ceramicon



REAR VIEW OF COIL FORM SHOWING TERMINAL NUMBERING

GONSET G66B RECEIVER SCHEMATIC COIL ASSEMBLY SECTION

,FIG. 2

CL1 10 war + 10% Tubular Ceremicon Cl37 .O1 wF GMV Disc Ceremicon Cl37 .Ol of GMV Disc Ceramicon
Cl38 2CO ouf + 5% Disc Ceramicon
Cl39 36 ouf + 3% Disc Ceramicon
Cl40 33 ouf + 3% Disc Ceramicon
Cl41 270 ouf + 3% Disc Ceramicon
Cl42 5-25 ouf NPO Ceramic Trimmer
Cl44 72 ouf + 1% NO80 Disc Ceramicon
Cl44 160 ouf + 1% Silver Nica DM-15
Cl45 5-25 ouf NPO Ceramic Trimmer
Cl46 86 ouf + 1% N150 Silver Mica DM-15
Cl47 82 ouf + 1% Silver Mica DM-15
Cl48 33C ouf + 1% Silver Mica DM-15 100, 250 V

nicon

C149 .C1 uF GMV Disc Ceramicon

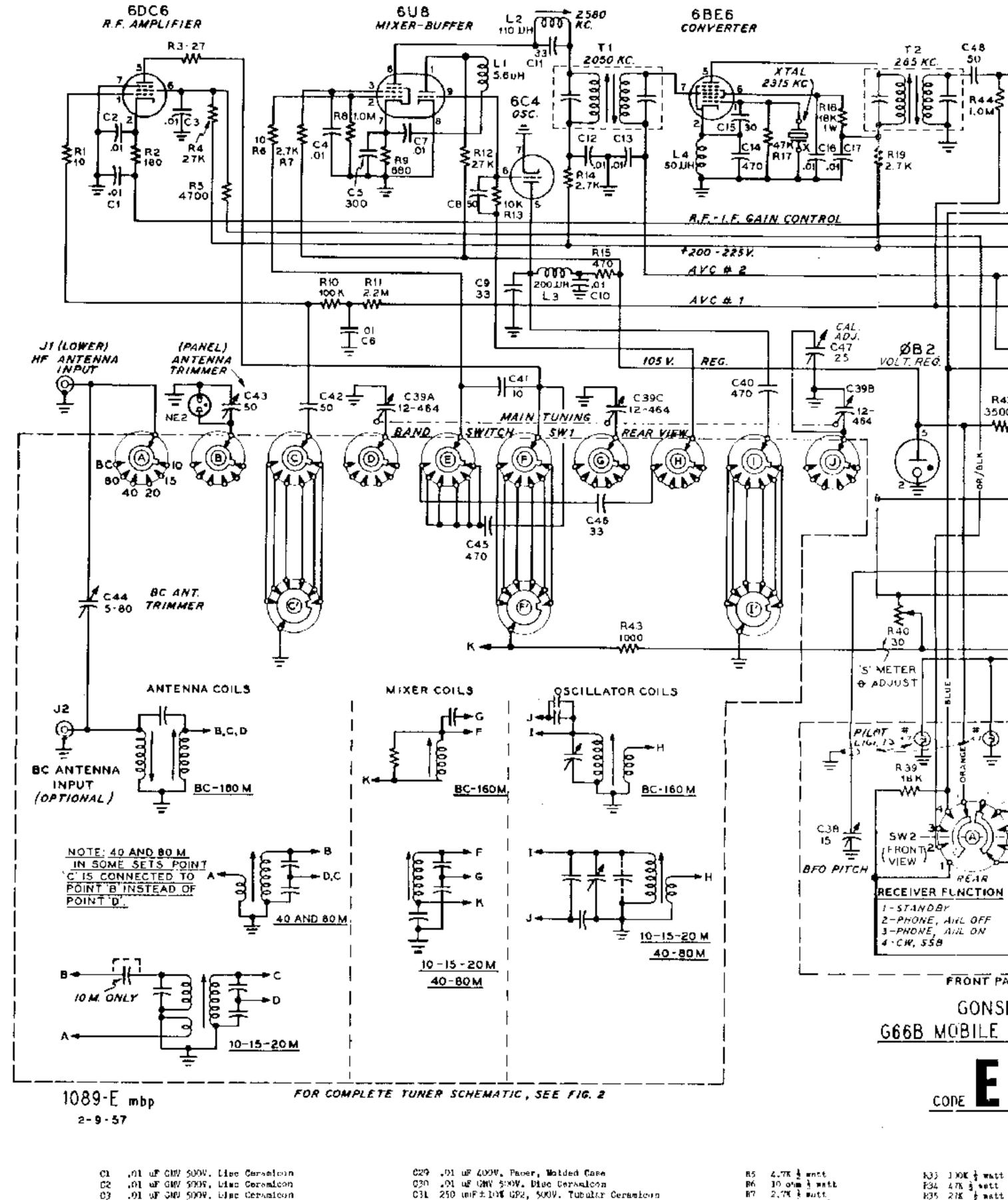
2101 1CK + 105 & watt

14-1000 THRU

GOUSET SPECIAL-REORDER LA-1016 BY PART NUMBER.

ALL CEHANICON CAPACITORS HAVE GP-1 CLASSIFICATION EXCEPT WHERE NOTED.

NOTE 2: ALL CAPACITORS ARE 500 V. RATING EXCEPT WHERE NOTED.



C31 250 unF ± 10% GP2, 500V. Tubular Ceramicon 2,74 } mutt .01 of SMV 500V. Ligg Ceramicon 1.0 ergohe } watt 032 100 nuF ± 5% 500V. Silver Mics, IM-15 .01 uF GMV 500%, Disc Ceramican 640 ohm k watt 033 30 mm = 5% M150, 500V. Tubular Cornaicon JMO wwF # 5% 500Y, Silver #ics, ₽₩-15 190K | watt C34 .01 of GMV 500V. Disc Deremicon .01 of GMV 500V, bisc Ceramicon 2.2 mogoha 5 watt .01 of GMV 500V, Disc Coronicon .01 WF GMV 5000. Dime Coronicon 27**% 🗦** writt 50 unf ±5% 500%, 811*0* Mich, CM-15 036 100 multiple 500V. Silver Mick, DM-15 10% + watt 33 uuf t.99 uuf 2030, 5007. Tunuler Ceremico: C37 .01 of GMV 500V. Nise Corumican 2.7K & matt .01 uF GMV 500Y, Disc Ceramicon C35 15 duF Variable, APC 470 oh# 🕏 matt C11 33 war ± .90 war -#330, 500V. Tubuler Caramico: 0394 12 - 464 auf 2.2 magoha 🗦 watt C12 ,OI uF GMV 500V. Disc Ceremicon C298 12 = 464 unF -- Main Tuning, Special 47K ∳ watt C13 .01 uF GMV 500V. Disc Ceramicon 0390 12 **–** 464 uuF⊸ 18K 1 wett. 2.7K 2 wett. C14 470 pur ± 5% 300V. Silver Mice, DM-15 C49 470 unF ± 5% 3007. Silver Mica, CM-15 кіэ C41 10 unF ± 1 unF CP1, 5007. Tubular Ceramicon 015 30 unF ± 10f M030, 500V, fubular Ceramicon Deleted C16 .OL uF GMV 500V. Disc Ceramicon 50 uuF ± 20% GP1, 500V. Tubular Ceramicon 2700 obm | wett 50 un Variable, AFC C17 .Ol uF GMV 500V. Disc Cervation 27K } watt #C18 2 un7 ± .25 uuF NPO, 500V. Tubular Ceramicon R23 2.7K 3 watt C44 5 - 80 upF Mica Compression Trimmer Cl9 .01 of GMV 900V. Disc Ceremicon 470 unF ± 10% GP2, 500V. Tubular Coronicon 2.2 megohm ∱ vett 270k 🗦 🕶 tt R25 C20 .047 wr ± 20% 400V. Paper, Moldad Case 33 wwF ± .97 pwF 1030, 5007. Tubular Cereminon 270K | watt C21 .047 uF # 20% 400V. Paper, Molded Case C47 25 wif Veriable, AFC 1.0 wegohe 🛊 watt C22 .047 uF # 20% 400V. Paper, Molded Case **C48 50 uuf ±10% NPO, 5007. Tubular Ceremicon 1.0 megoha & watt **C49 .01 of GMV 500V. Disc Ceranicon C23 2 UNF t.25 WNF NPO, 500V. Tubulur Ceramicon 470 okm 1 watt C24 250 muF ± 10% GP2, 500V. Tubulur Ceramicon R3D 2.2 megota } watt C25 ,01 of GMV 500V. Disc Ceramicon 10 obs. } watt MI 470K & wett 180 ohm 1 watt C26 5 unF 1.5 unF GPL, 500F. Tubular Ceremicon NJZ 2.2 megoha 🕯 walt 27 ohn 🕯 wett #C27 .Dl uF \$10% 6007. Paper, Wolded Case 27K } matt C28 25 w 25 N.V. Electrolytic

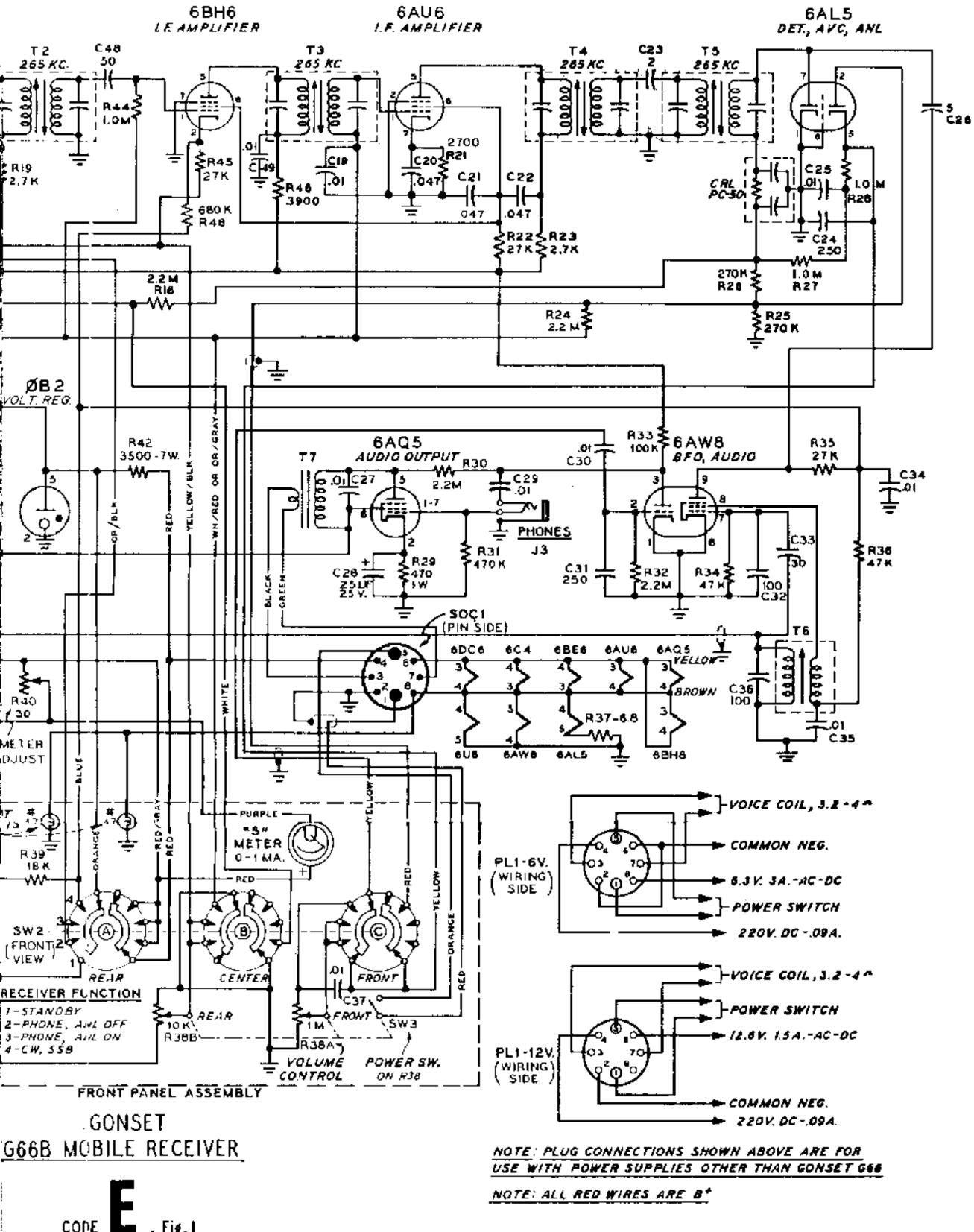
#37 6.9 ohm 1 •• #334 1.0 megahm R38B 10K K39 14K 🛉 watt 30 ohm Varia **R**40 P41 [sleted 3.5% 7 mail 1000 գրաց 🖟 ա 4*RbL 1.0 magaba \$ 448/15 27K & west maRijó 3,9% i watt 32.7 leleted manya 66 M 🕏 watt NOTE: ALL RESISTO 10% TOLERAN Jl BC Antenia Go J2 SW Amterna Co J) Phone Jack. SMl Bandsmitch, SMX Raceiver Fun

R36 47% } wet.

SE3 ON - DEF S#1

SOCI & Prong Male

PLI 8 Prong Fema



```
N33 170E 2 = Ltt
 K34 47E 2 bett
 R35 2/K 🛔 matt
 K16 47K } watu
 R37 6.8 ohm 1 wall, Comp. or Wire-sound
 R38# 1.0 megoha
                   Volume Control, Special
 RISB IN
 R39 13K s wett
 NAO 31 ohm Variable, Wire-wound
 R41 P:leted
 R42 3,5E 7 watt
 R43 1000 ohm $ matt
**Rid: 1.0 magche } watt
**R45 278 g want t
aeRb6 3.9K g watt
₩ W.7 Geleted
≈ id,8 662K è watt
 NOTA: ALL RESISTORS ARE COMPOSITION AND
```

10% TOLERANCE EXCEPT AS NOTED.

Jl BC Antenna Connector Jack J2 SW Antenne Connector Jack

33 Phone Jack, | inch size, closed circuit SM1 Bandswitch, Special

SM2 Receiver Function Switch, Special SW3 OH - OFF Switch on H35

SOC1 5 Prong Male Socket, GINCH # 9158 PLI 8 Prong Female Plug, CINCH #781-5 with #720-8 Shell

```
5.6 WH HFC
110 uH Permeability Tuned Trap, 2580 KC.
 50 WH RIFC
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2050 KC. I-F Transformer, Special 265 KC. I-F Transformer, Special T3 265 KC. 1-F Transformer, Special 265 KC. I-F Transformer, Special 265 KC. I-F Transformer, Special T5 265 KC. BFC Transformer, Special 76 Output Transformer, Faster #54868

* Used only in G66-A Models. 🕶 Usen only in G66-8 Models.

Indicates value changed from that used in receivers with a Code prior to "E".